



Test Report

Date : 2018-05-15
No. : HM18040021

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Applicant: Kokoon Technology Ltd
Unit M1, 245a Coldharbour Lane, London, SW9 8RR, UK

Supplier / Manufacturer: Kokoon Technology Ltd
Unit M1, 245a Coldharbour Lane, London, SW9 8RR, UK

Description of Sample(s): Submitted sample(s) said to be
Product: Kokoon Relax
Brand Name: Kokoon
Model No.: K1V0W
FCC ID: 2APO8-K1V0W

Date Samples Received: 2018-04-24

Date Tested: 2018-04-27 to 2018-05-02

Investigation Requested: Perform ElectroMagnetic Interference measurement in accordance with FCC 47CFR [Codes of Federal Regulations] Part 15: 2017 and ANSI C63.10:2013 for FCC Certification.

Conclusions: The submitted product COMPLIED with the requirements of Federal Communications Commission [FCC] Rules and Regulations Part 15. The tests were performed in accordance with the standards described above and on Section 2.2 in this Test Report.

Remarks: Bluetooth DTS (GFSK)


CHEUNG Chi, Kenneth
Authorized Signatory
ElectroMagnetic Compatibility Department
For and on behalf of
The Hong Kong Standards and Testing Centre Ltd.





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1.0 General Details

1.1 Test Laboratory

The Hong Kong Standards and Testing Centre Ltd.

EMC Laboratory

Head Office: 10 Dai Wang Street, Taipo Industrial Estate, Tai Po, N.T., Hong Kong

Telephone: 852 2666 1888

Fax: 852 2664 4353

1.2 Equipment Under Test [EUT]

Description of Sample(s)

Product: Kokoon Relax

Manufacturer: Kokoon Technology Ltd

Unit M1, 245a Coldharbour Lane, London, SW9 8RR, UK

Brand Name: Kokoon

Model Number: K1V0W

Rating: 5.0Vd.c. Powered by USB port/ 3.7 Vd.c. (1*3.7Vd.c.
Rechargeable battery)

1.2.1 Description of EUT Operation

The Equipment Under Test (EUT) is a Bluetooth Headphones. The transmission signal is digital modulated with channel frequency range 2402-2480MHz. The R.F. signal was modulated by IC; the type of modulation used was GFSK.

1.3 Date of Order

2018-04-24

1.4 Submitted Sample(s):

2 Samples

1.5 Test Duration

2018-04-27 to 2018-05-02

1.6 Country of Origin

China

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1.7 RF Module Details

Module Model Number: BC127
Module FCC ID: N/A
Module Transmission Type: Bluetooth V4.0 BLE
Modulation: GFSK
Data Rates: 1Mbps
Frequency Range: 2400-2483.5MHz
Carrier Frequencies: 2402MHz – 2480MHz

Module Specification (specification provided by manufacturer)

1.8 Antenna Details

Antenna Type: Monopole Antenna
Antenna Gain: 0.0dBi

1.9 Channel List

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

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2.0 Technical Details

2.1 Investigations Requested

Perform Electromagnetic Interference measurements in accordance with FCC 47CFR [Codes of Federal Regulations] Part 15: 2017 Regulations and ANSI C63.10:2013 for FCC Certification. According FCC KDB 558074 DTS Measurement Guidance, Duty cycle $\geq 98\%$. The device was realized by test software.

2.2 Test Standards and Results Summary Tables

EMISSION Results Summary						
Test Condition	Test Requirement	Test Method	Class / Severity	Test Result		
				Pass	Failed	N/A
Maximum Peak Output Power	FCC 47CFR 15.247(b)(3)	ANSI C63.10: 2013	N/A	☒	☐	☐
Radiated Spurious Emissions	FCC 47CFR 15.209	ANSI C63.10: 2013	N/A	☒	☐	☐
AC Mains Conducted Emissions	FCC 47CFR 15.207	ANSI C63.10: 2013	N/A	☒	☐	☐
Power Spectral Density	FCC 47CFR 15.247(e)	ANSI C63.10: 2013	N/A	☒	☐	☐
6dB Bandwidth	FCC 47CFR 15.247(a)(2)	ANSI C63.10: 2013	N/A	☒	☐	☐
Band Edge Emissions (Radiated)	FCC 47CFR 15.247(d)	ANSI C63.10: 2013	N/A	☒	☐	☐
Antenna requirement	FCC 47CFR 15.203	N/A	N/A	☒	☐	☐

Note: N/A - Not Applicable

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3.0 Test Results

3.1 Emission

3.1.1 Maximum Peak Output Power (EIRP)

Ambient temperature 25°C

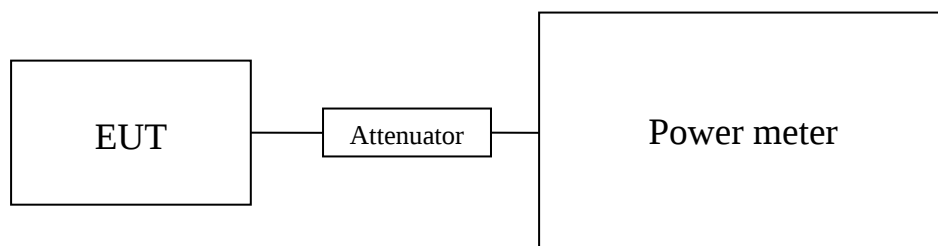
Relative humidity 57%

Test Requirement: FCC 47CFR 15.247(b)(2)
Test Method: ANSI C63.10:2013
Test Date: 2018-04-27
Mode of Operation: Tx mode

Test Method:

The RF output of the EUT was connected to the Power meter. All the attenuation or cable loss will be added to the measured maximum output power. The results are recorded in Watt.

Test Setup:



Note: a temporary antenna connector was soldered to the RF output.

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Limits for Peak Output Power of Fundamental & Harmonics Emissions [FCC 47CFR 15.247] (EIRP):

For Digital Transmission systems in 2400-2483.5 MHz Band: 1 Watt (30dBm)

Results of BT DTS Tx Mode (2402MHz to 2480MHz) : Pass (TX Unit) (GFSK) Maximum conducted output power(EIRP)

Channel	Frequency(MHz)	Output Power(dBm)	Antenna Gain(dBi)	EIRP(dBm)	EIRP(W)
0	2402	5.31	0	5.31	0.00340
19	2440	5.43	0	5.43	0.00349
39	2480	5.28	0	5.28	0.00337

Calculated measurement uncertainty : 30MHz to 1GHz 1.7dB
1GHz to 26GHz 1.7dB

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3.1.2 Radiated Emissions

Ambient temperature 25°C

Relative humidity 57%

Test Requirement: FCC 47CFR 15.209

Test Method: ANSI C63.10:2013

Test Date: 2018-04-30

Mode of Operation: Tx mode / Bluetooth Communication mode (GFSK)

Test Method:

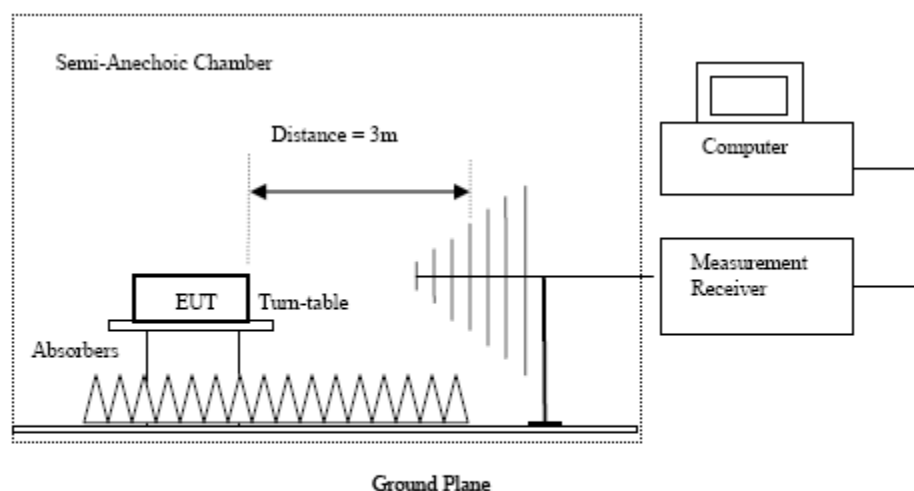
For emission measurements at or below 1 GHz, the sample was placed 0.8m above the ground plane of semi-anechoic Chamber*. For emission measurements above 1 GHz, the sample was placed 1.5m above the ground plane of semi-anechoic Chamber*. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

*

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FCC Test Firm Registration Number 723883 Designation Number HK0001

Test Setup:



- Absorbers placed on top of the ground plane are for measurements above 1000MHz only.

- Measurements between 30MHz to 1000MHz made with Bi-log antennas, above 1000MHz horn antennas are used, 9kHz to 30MHz loop antennas are used.

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Limits for Radiated Emissions FCC 47 CFR 15.247 Class B]:

Frequency Range	Quasi-Peak Limits
[MHz]	[μ V/m]
0.009-0.490	2400/F (kHz)
0.490-1.705	24000/F (kHz)
1.705-30	30
30-88	100
88-216	150
216-960	200
Above960	500

The emission limits shown in the above table are based on measurement employing a CISPR quasi-peak detector and above 1000MHz are based on measurements employing an average detector.

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Result of Tx mode (2402.0 MHz) (GFSK) (9kHz – 30MHz): Pass

Field Strength of Spurious Emissions Peak Value						
Frequency MHz	Measured Level dBuV	Correction Factor dB/m	Field Strength dBuV/m	Field Strength uV/m	Limit uV/m	E-Field Polarity
Emissions detected are more than 20 dB below the Limits						

Result of Tx mode (2402.0 MHz) (GFSK) (Above 1GHz): Pass

Field Strength of Spurious Emissions Peak Value						
Frequency MHz	Measured Level @3m dBuV	Correction Factor dB/m	Field Strength dBuV/m	Limit @3m dBuV/m	Margin dBuV/m	E-Field Polarity
2402.0	72.7	27.9	100.6	N/A	N/A	Horizontal
4804.0	3.7	32.1	35.8	74.0	38.2	Horizontal
7206.0	2.9	38.6	41.5	74.0	32.5	Horizontal
9608.0	-1.1	41.3	40.2	74.0	33.8	Vertical
12010.0	-3.2	43.5	40.3	74.0	33.7	Vertical

Field Strength of Spurious Emissions Average Value						
Frequency MHz	Measured Level @3m dBuV	Correction Factor dB/m	Field Strength dBuV/m	Limit @3m dBuV/m	Margin dBuV/m	E-Field Polarity
2402.0	62.7	27.9	90.6	N/A	N/A	Horizontal
4804.0	-5.1	32.1	27.0	54.0	27.0	Horizontal
7206.0	-4.3	38.6	34.3	54.0	19.7	Horizontal
9608.0	-8.7	41.3	32.6	54.0	21.4	Vertical
12010.0	-9.1	43.5	34.4	54.0	19.6	Vertical

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Result of Tx mode (2440.0 MHz) (GFSK) (9kHz – 30MHz): Pass

Field Strength of Spurious Emissions Peak Value						
Frequency MHz	Measured Level dBuV	Correction Factor dB/m	Field Strength dBuV/m	Field Strength uV/m	Limit uV/m	E-Field Polarity
Emissions detected are more than 20 dB below the Limits						

Result of Tx mode (2440.0 MHz) (GFSK) (Above 1GHz): Pass

Field Strength of Spurious Emissions Peak Value						
Frequency MHz	Measured Level @3m dBuV	Correction Factor dB/m	Field Strength dBuV/m	Limit @3m dBuV/m	Margin dBuV/m	E-Field Polarity
2440.0	72.8	27.9	100.7	N/A	N/A	Horizontal
4880.0	3.3	32.1	35.4	74.0	38.6	Horizontal
7320.0	2.7	38.6	41.3	74.0	32.7	Horizontal
9760.0	-1.3	41.3	40.0	74.0	34.0	Vertical
12200.0	-4.1	43.5	39.4	74.0	34.6	Vertical

Field Strength of Spurious Emissions Average Value						
Frequency MHz	Measured Level @3m dBuV	Correction Factor dB/m	Field Strength dBuV/m	Limit @3m dBuV/m	Margin dBuV/m	E-Field Polarity
2440.0	62.4	27.9	90.3	N/A	N/A	Horizontal
4880.0	-3.7	32.1	28.4	54.0	25.6	Horizontal
7320.0	-4.2	38.6	34.4	54.0	19.6	Horizontal
9760.0	-4.3	41.3	37.0	54.0	17.0	Vertical
12200.0	-3.6	43.5	39.9	54.0	14.1	Vertical

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Result of Tx mode (2480.0 MHz) (GFSK) (9kHz – 30MHz): Pass

Field Strength of Spurious Emissions Peak Value						
Frequency MHz	Measured Level dBuV	Correction Factor dB/m	Field Strength dBuV/m	Field Strength uV/m	Limit uV/m	E-Field Polarity
Emissions detected are more than 20 dB below the Limits						

Result of Tx mode (2480.0 MHz) (GFSK) (Above 1GHz): Pass

Field Strength of Spurious Emissions Peak Value						
Frequency MHz	Measured Level @3m dBuV	Correction Factor dB/m	Field Strength dBuV/m	Limit @3m dBuV/m	Margin dBuV/m	E-Field Polarity
2480.0	72.6	27.9	100.5	N/A	N/A	Horizontal
4960.0	3.3	32.2	35.5	74.0	38.5	Horizontal
7440.0	2.9	38.6	41.5	74.0	32.5	Horizontal
9920.0	-1.3	42.1	40.8	74.0	33.2	Vertical
12400.0	-4.5	44.1	39.6	74.0	34.4	Vertical

Field Strength of Spurious Emissions Average Value						
Frequency MHz	Measured Level @3m dBuV	Correction Factor dB/m	Field Strength dBuV/m	Limit @3m dBuV/m	Margin dBuV/m	E-Field Polarity
2480.0	62.3	27.9	90.2	N/A	N/A	Horizontal
4960.0	-3.3	32.2	28.9	54.0	25.1	Horizontal
7440.0	-3.8	38.6	34.8	54.0	19.2	Horizontal
9920.0	-4.1	42.1	38.0	54.0	16.0	Vertical
12400.0	-5.1	44.1	39.0	54.0	15.0	Vertical

Remarks:

No additional spurious emissions found between lowest internal used/generated frequency and 30 MHz

* Denotes restricted band of operation.

Measurements were made using a peak detector. Any emission less than 1000 MHz and falling within the restricted bands of Section 7.2.5 Table 5 and Table 6 were applied.

Correction Factor included Antenna Factor and Cable Attenuation.

Calculated measurement (9kHz-30MHz): 3.3dB
uncertainty (30MHz -1GHz): 4.6dB
(1GHz -26.5GHz): 4.4dB

Emissions in the vertical and horizontal polarizations have been investigated and the worst-case test results are recorded in this report.

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Band Edge Measurement:

Ambient temperature 25°C

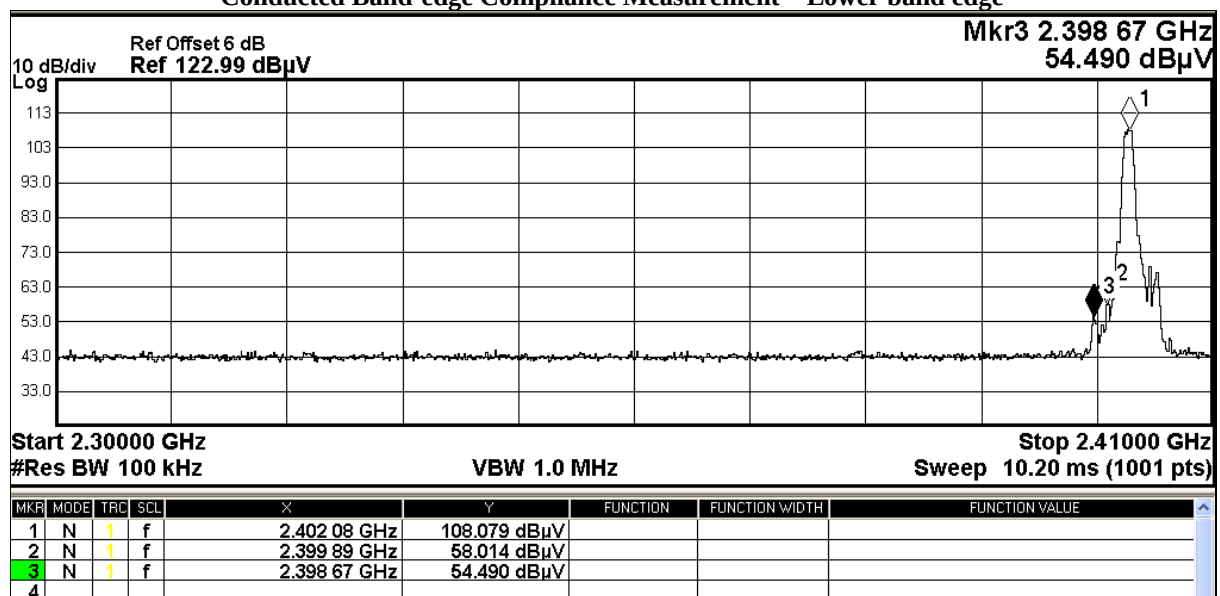
Relative humidity 57%

Limit :

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 5.205(c)).

Frequency Range	Conducted Emission Attenuated below the Fundamental
[MHz]	[dB]
2400 – Lowest Fundamental (2402)	50.1

Conducted Band-edge Compliance Measurement – Lower band edge



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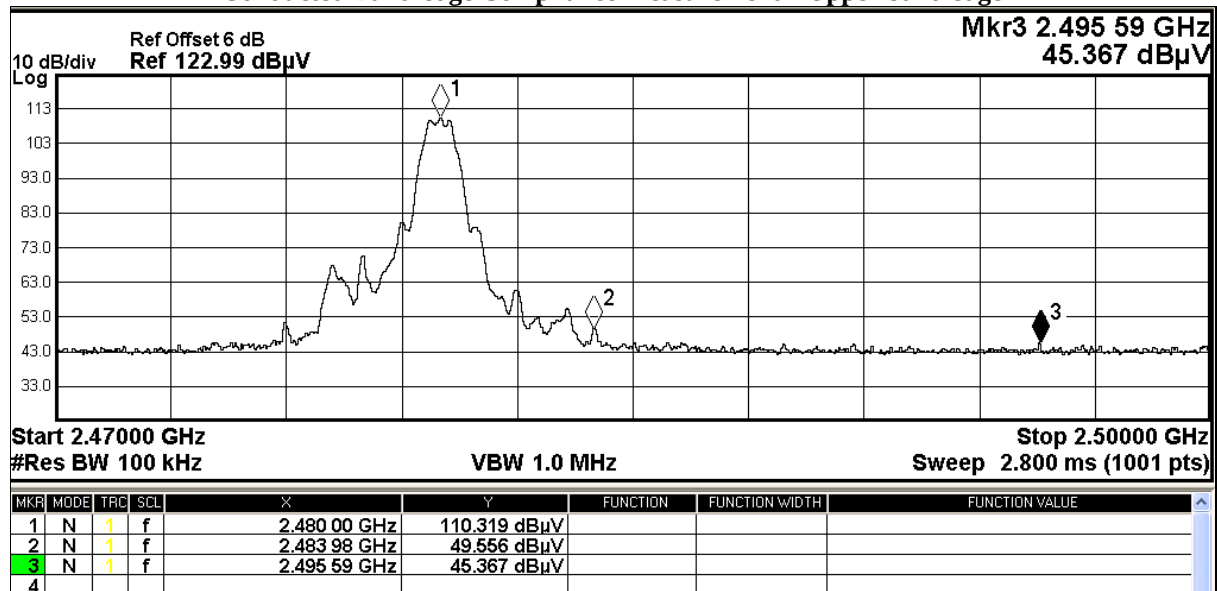
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Band-edge Compliance of RF Conducted Emissions Measurement:

Frequency Range	Conducted Emission Attenuated below the Fundamental
[MHz]	[dB]
2483.5 - Highest Fundamental (2480)	60.8

Conducted Band-edge Compliance Measurement – Upper band edge



Remark: The 6dB offset of the received level was set improperly, the measured level should be minus 6dB.

Radiated Emissions Band-edge and Restricted Band Result:

Field Strength of Band-edge Compliance						
Peak Value						
Frequency MHz	Measured Level @3m dBuV	Correction Factor dB/m	Field Strength dBuV/m	Limit @3m dBuV/m	Margin dBuV/m	E-Field Polarity
2398.7	28.6	27.9	52.4	74.0	21.6	Horizontal
2495.6	21.4	27.9	45.3	74.0	28.7	Horizontal

Field Strength of Band-edge Compliance						
Average Value						
Frequency MHz	Measured Level @3m dBuV	Correction Factor dB/m	Field Strength dBuV/m	Limit @3m dBuV/m	Margin dBuV/m	E-Field Polarity
2384.5	6.3	27.9	34.2	54.0	19.8	Horizontal
2483.6	5.7	27.9	33.6	54.0	20.4	Horizontal

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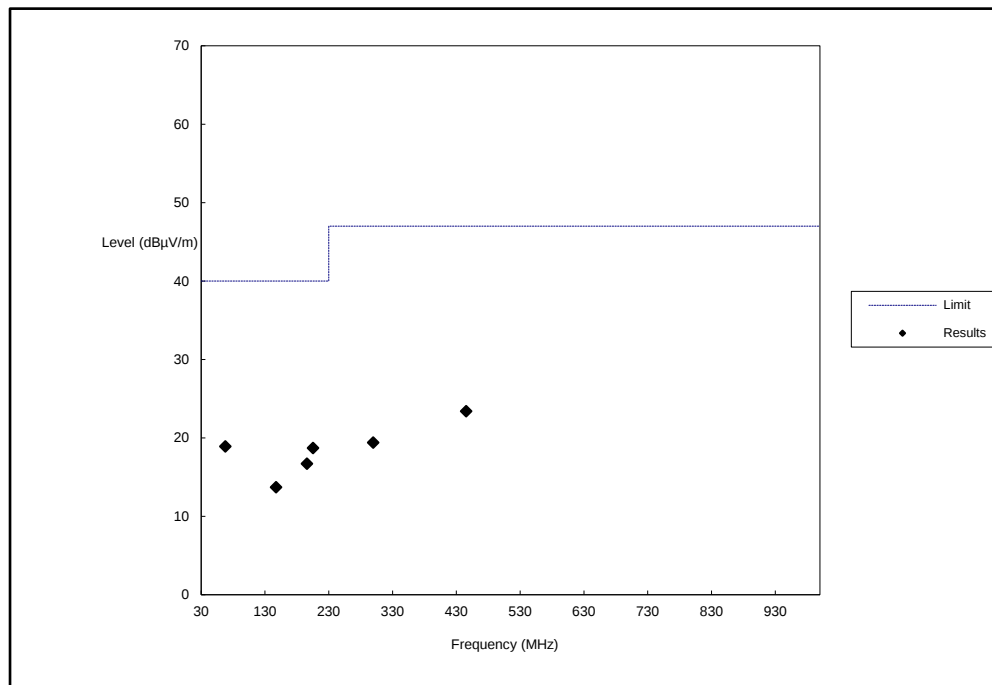
Limits for Radiated Emissions FCC 47 CFR 15.247 Class B]:

Frequency Range	Quasi-Peak Limits
[MHz]	[$\mu\text{V/m}$]
0.009-0.490	2400/F (kHz)
0.490-1.705	24000/F (kHz)
1.705-30	30
30-88	100
88-216	150
216-960	200
Above960	500

The emission limits shown in the above table are based on measurement employing a CISPR quasi-peak detector and above 1000MHz are based on measurements employing an average detector.

Results of Bluetooth Communication mode (30MHz – 1GHz): Pass

Please refer to the following table for result details(The data is the worst cases)



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Radiated Emissions Quasi-Peak					
Emission Frequency MHz	E-Field Polarity	Level @3m dB μ V/m	Limit @3m dB μ V/m	Level @3m μ V/m	Limit @3m μ V/m
67.8	Vertical	18.9	40.0	8.8	150
147.3	Horizontal	13.7	43.5	4.8	150
195.7	Horizontal	16.7	43.5	6.8	150
205.3	Horizontal	18.7	43.5	8.6	200
299.7	Horizontal	19.4	46.0	9.3	200
445.3	Horizontal	23.4	46.0	14.8	200

Remarks:

Calculated measurement uncertainty (30MHz – 1GHz): 4.6dB

Emissions in the vertical and horizontal polarizations have been investigated and the worst-case test results are recorded in this report.

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3.1.3 AC Mains Conducted Emissions (0.15MHz to 30MHz)

Ambient temperature 25°C

Relative humidity 57%

Test Requirement:

FCC 47CFR 15.207

Test Method:

ANSI C63.10:2013

Test Date:

2018-04-30

Mode of Operation:

Bluetooth Communication mode with charging function

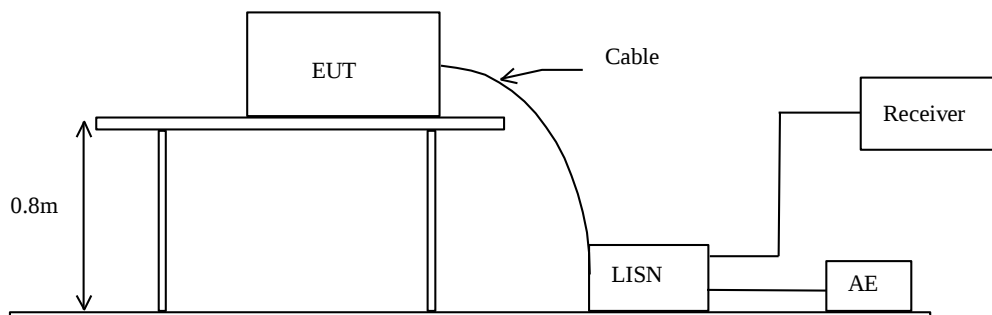
Test Voltage:

120V a.c. 60Hz

Test Method:

The test was performed in accordance with ANSI C63.10:2013, with the following: an initial measurement was performed in peak and average detection mode on the live line, any emissions recorded within 30dB of the relevant limit line were re-measured using quasi-peak and average detection on the live and neutral lines with the worst case recorded in the table of results.

Test Setup:



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Limits for Conducted Emissions (FCC 47 CFR 15.207):

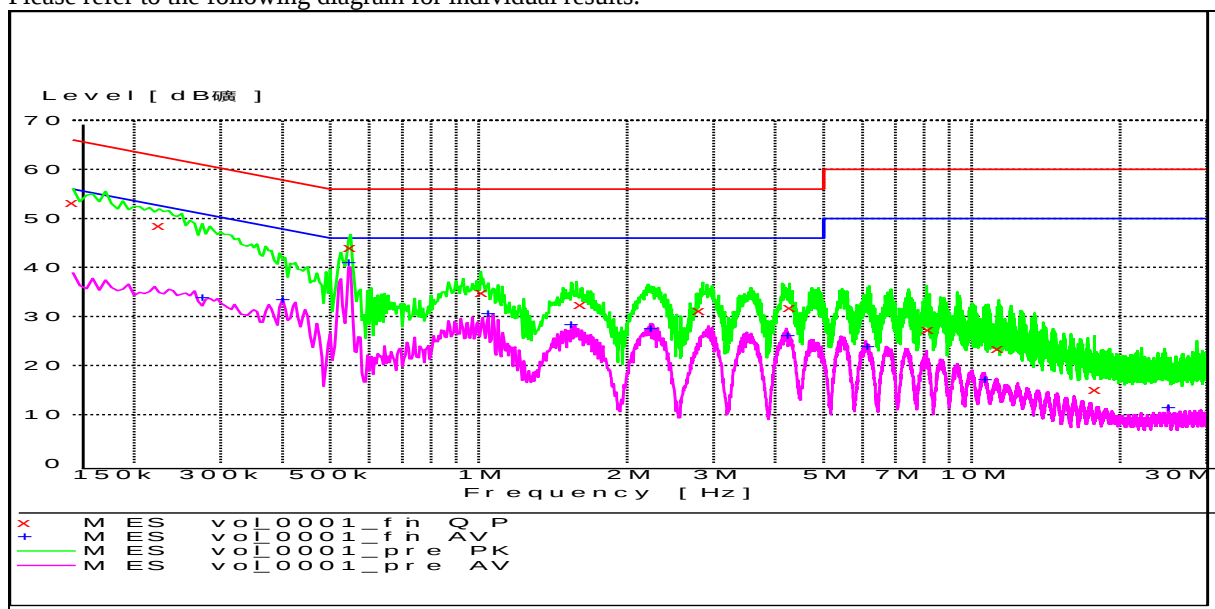
Frequency Range [MHz]	Quasi-Peak Limits [dBμV]	Average [dBμV]
0.15-0.5	66 to 56*	56 to 46*
0.5-5.0	56	46
5.0-30.0	60	50

* Decreases with the logarithm of the frequency.

Limits for Conducted Emissions Test, please refer to limit lines (Quasi-Peak and Average) in the following diagram.

Results of Bluetooth Communication mode with charging function (L & N): PASS

Please refer to the following diagram for individual results.



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Results of Bluetooth Communication mode with charging function (L & N): PASS

MEASUREMENT RESULT: "vol_0001_fin QP"

Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Line	PE
0.150000	53.10	9.9	66	12.9	N	GND
0.225000	48.50	9.9	63	14.1	L1	GND
0.550000	44.00	10.0	56	12.0	N	GND
1.015000	34.80	9.8	56	21.2	N	GND
1.610000	32.40	10.0	56	23.6	L1	GND
2.805000	31.20	10.3	56	24.8	N	GND
4.285000	31.80	10.5	56	24.2	N	GND
8.175000	27.30	10.5	60	32.7	L1	GND
11.310000	23.40	10.5	60	36.6	N	GND
17.805000	15.00	10.7	60	45.0	N	GND

MEASUREMENT RESULT: "vol_0001_fin AV"

Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Line	PE
0.275000	33.90	9.9	51	17.0	N	GND
0.400000	33.50	10.0	48	14.3	N	GND
0.545000	41.10	10.0	46	4.9	L1	GND
1.045000	30.50	9.8	46	15.5	L1	GND
1.540000	28.30	10.0	46	17.7	N	GND
2.235000	27.60	10.2	46	18.4	N	GND
4.235000	26.00	10.5	46	20.0	N	GND
6.145000	23.80	10.6	50	26.2	N	GND
10.630000	17.20	10.4	50	32.8	N	GND
25.060000	11.40	10.8	50	38.6	N	GND

Remarks:

Calculated measurement uncertainty (0.15MHz – 30MHz): 3.2dB

-*- Emission(s) that is far below the corresponding limit line.

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3.1.3 Power Spectral Density

Ambient temperature 25°C

Relative humidity 57%

Test Requirement: FCC 47CFR 15.247(e)
Test Method: ANSI C63.10:2013
Test Date: 2018-05-02
Mode of Operation: Tx mode

Test Method:

The RF output of the EUT was connected to the spectrum analyzer. Set the fundamental frequency as the center frequency of the spectral analyzer. Use RBW=3kHz , VBW= 10kHz , Set the span to 1.5 times the DTS channel bandwidth. Detector = peak, Sweep time = auto couple , Trace mode = max hold.

Test Setup:

As Test Setup of clause 3.1.1 in this test report.

Test Limit:

The maximum power spectral density (PSD) shall not exceeded 8dBm in any 3kHz band.

Results of Tx Mode GFSK (Tx:2402MHz to 2480MHz) : Pass (Tx Unit)

Maximum power spectral density

Transmitter Frequency (MHz)	Maximum Power spectral density level / 3kHz band (dBm)	Maximum Power spectral density / 3kHz band limit
2402.0	-11.2	8dBm
2440.0	-9.8	8dBm
2480.0	-9.1	8dBm

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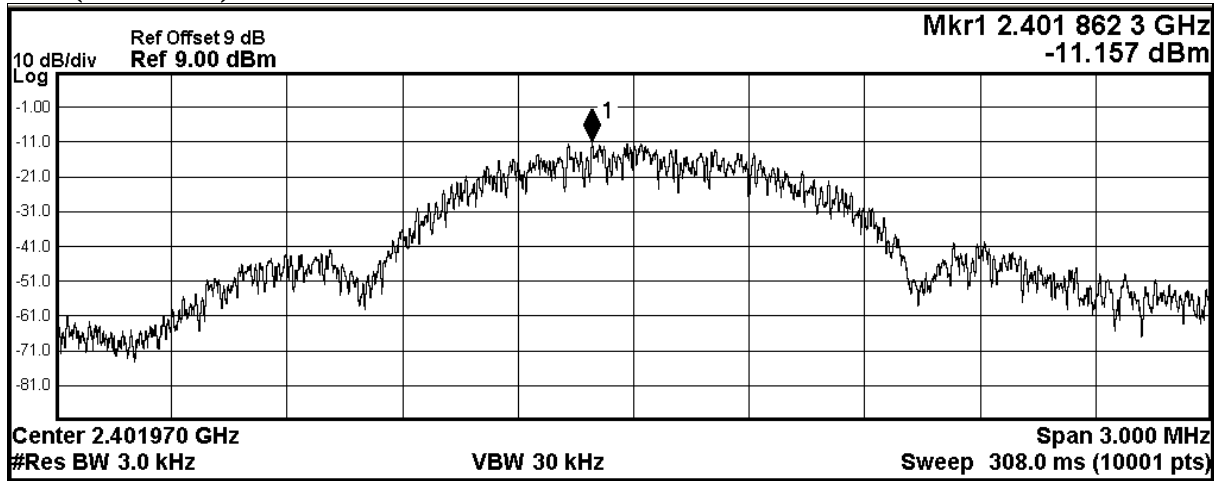


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Tx mode GFSK (Tx: 2402MHz to 2480MHz)
CH 0 (2402.0 MHz)



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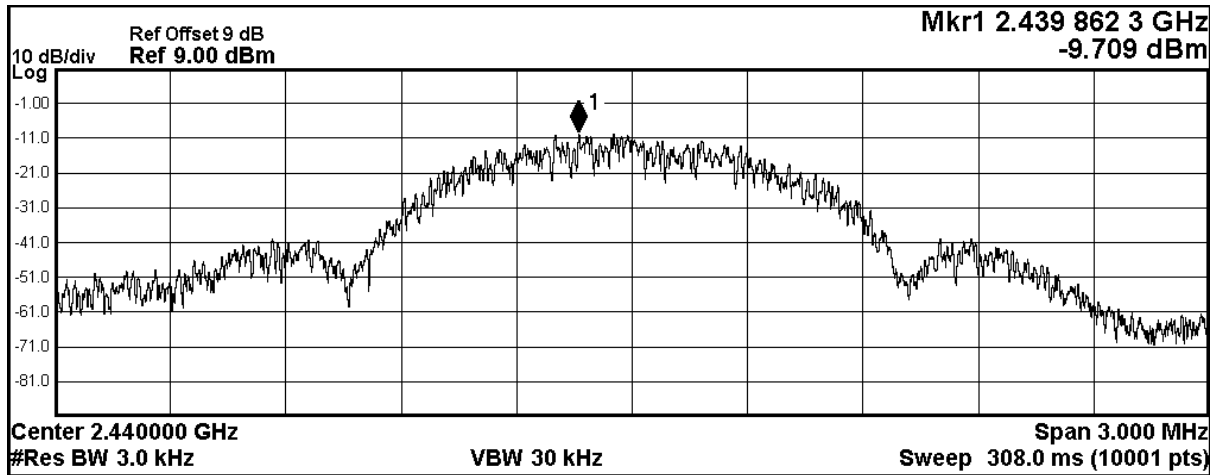


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CH 19 (2440.0 MHz)



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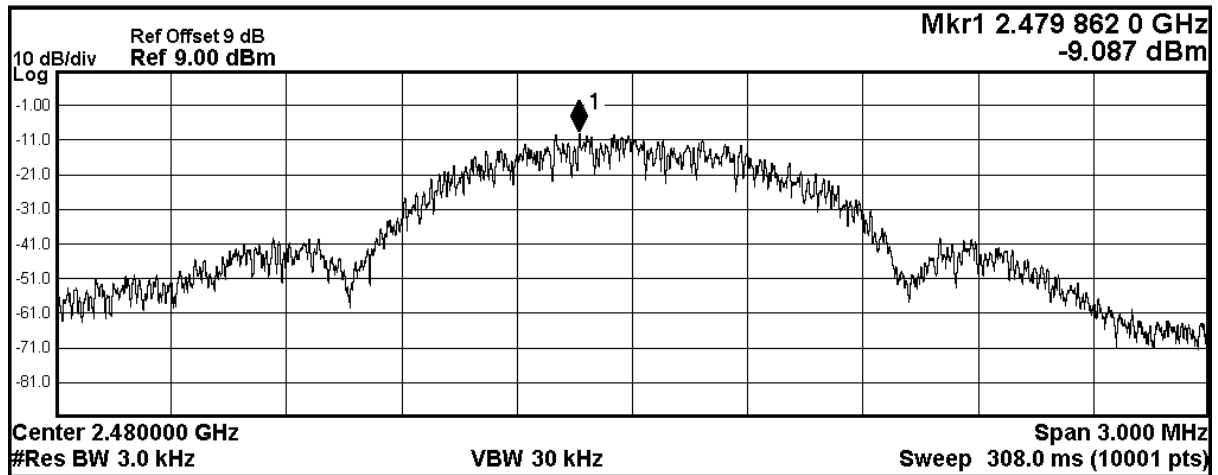


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CH 39 (2480.0 MHz)



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3.1.4 6dB Spectrum Bandwidth Measurement

Ambient temperature 25°C

Relative humidity 57%

Test Requirement: FCC 47CFR 15.247(a)(2)

Test Method: ANSI C63.10:2013

Test Date: 2018-05-02

Mode of Operation: Tx mode

Test Method:

The bandwidth is measured at an amplitude level reduced from the reference level by a specified ratio. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst-case (i.e. the widest) bandwidth.

Test Setup:

As Test Setup of clause 3.1.1 in this test report.

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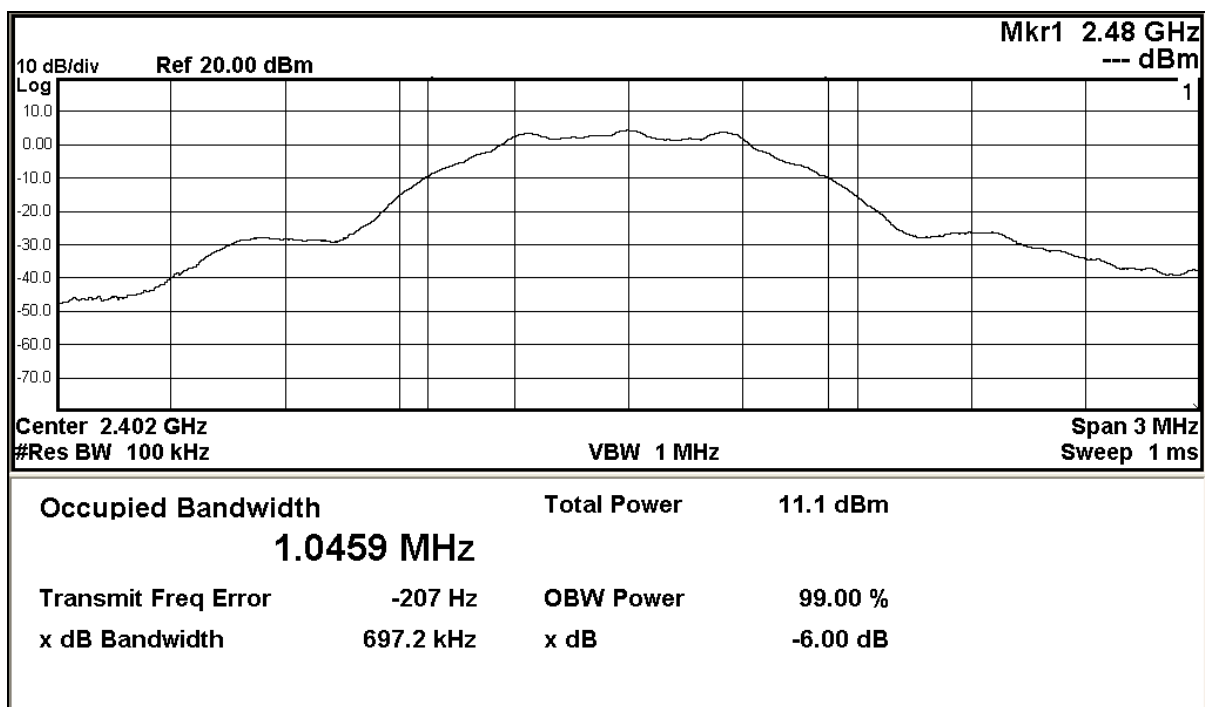
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Limits for 6dB Spectrum Bandwidth Measurement:

Center Frequency [MHz]	6dB Bandwidth [kHz]	FCC Limits [kHz]
2402.0	697.2	> 500

6dB Bandwidth of Fundamental Emission on GFSK (2402MHz)



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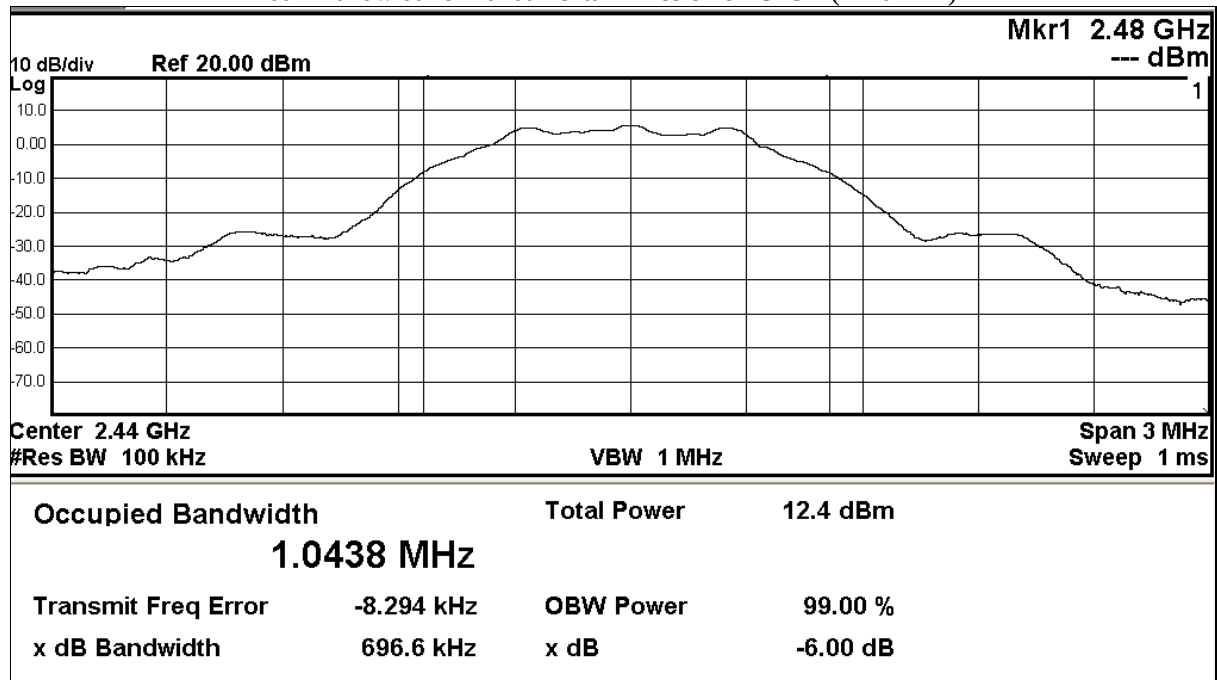
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Limits for 6dB Spectrum Bandwidth Measurement:

Frequency Range [MHz]	6dB Bandwidth [kHz]	FCC Limits [kHz]
2440.0	696.6	> 500

6dB Bandwidth of Fundamental Emission on GFSK (2440MHz)



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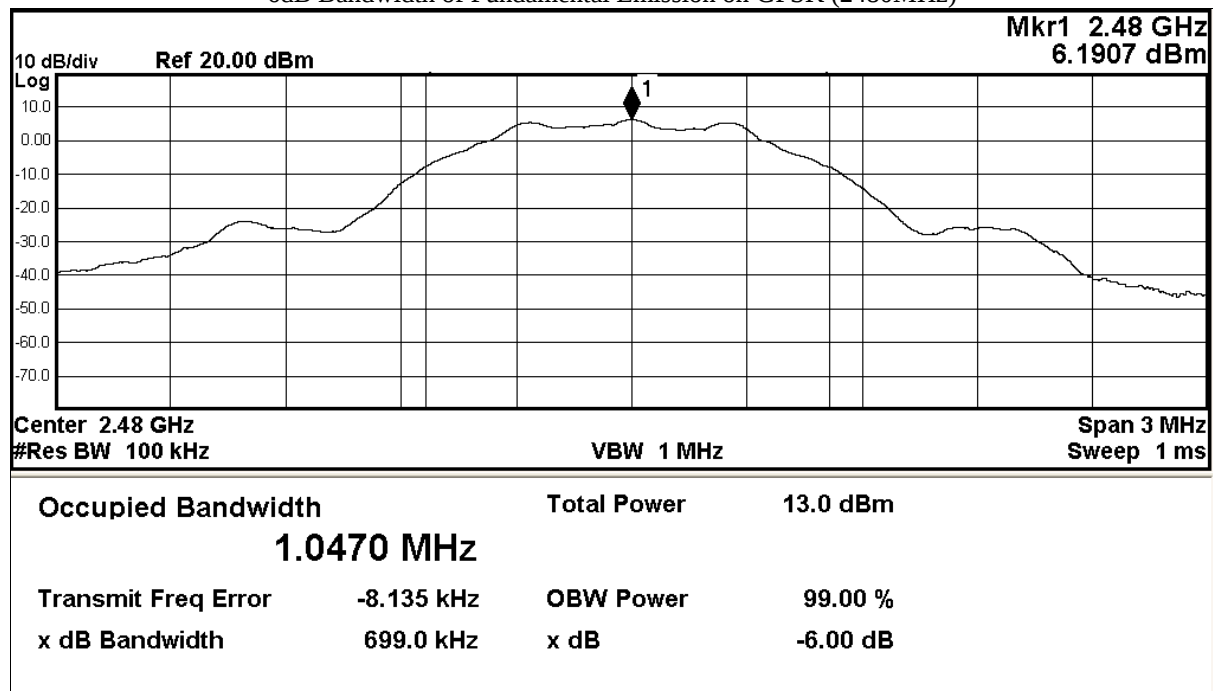
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Limits for 6dB Spectrum Bandwidth Measurement:

Frequency Range [MHz]	6dB Bandwidth [kHz]	FCC Limits [kHz]
2480.0	699.0	> 500

6dB Bandwidth of Fundamental Emission on GFSK (2480MHz)



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Appendix A List of Measurement Equipment

Radiated Emission

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL	DUE CAL
EM215	MULTIDevice CONTROLLER	EMCO	2090	00024676	N/A	N/A
EM217	ELECTRIC POWERED TURNTABLE	EMCO	2088	00029144	N/A	N/A
EM218	ANECHOIC CHAMBER	ETS-LINDGREN	FACT-3	--	2018/01/24	2019/01/24
EM356	ANTENNA POSITIONING TOWER	ETS-LINDGREN	2171B	00150346	N/A	N/A
EM354	BICONILOG ANTENNA	ETS-LINDGREN	3143B	00142073	2018/03/29	2020/03/29
EM229	EMI TEST RECEIVER	R&S	ESIB40	100248	2018/06/01	2019/06/01
EM276	BROADBAND HORN ANTENNA	A-INFOMW	JXTXLB-10180-SF	J2031090903007	2018/04/27	2020/04/27
EM300	PYRAMIDAL STANDARD GAIN HORN ANTENNA	ETS-LINDGREN	3160-09	00130130	2018/05/13	2019/05/13
EM301	PYRAMIDAL STANDARD GAIN HORN ANTENNA	ETS-LINDGREN	3160-10	00130988	2018/05/13	2019/05/13
EM302	PRECISION OMNIDIRECTIONAL DIPOLE (1 – 6GHZ)	SEIBERSDORF LABORATORIES	POD 16	161806/L	2018/05/11	2020/05/11
EM303	PRECISION OMNIDIRECTIONAL DIPOLE (6 – 18GHZ)	SEIBERSDORF LABORATORIES	POD 618	6181908/L	2018/05/11	2020/05/11
EM353	LOOP ANTENNA	ETS_LINDGREN	6502	00206533	2018/04/16	2020/04/16
EM045	POWER METER	ROHDE & SCHWARZ	NRVD	843246/028	2017/10/14	2018/10/14

Line Conducted

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL	DUE CAL
EM119	LISN	R & S	ESH3-Z5	0831.5518.52	2017/11/29	2018/11/29
EM145	EMI TEST RECEIVER	R & S	ESCS 30	830245/021	2018/06/01	2019/06/01
EM179	IMPULSE LIMITER	ROHDE & SCHWARZ	ESH3-Z2	357-8810.52/54	2018/01/11	2019/01/11
EM154	SHIELDING ROOM	SIEMENS MATSUSHITA COMPONENTS	N/A	803-740-057-99A	2017/02/02	2022/02/02
N/A	MEASUREMENT AND EVALUATION SOFTWARE	ROHDE & SCHWARZ	BSIB-K1	V1.20	N/A	N/A

Remarks:-

CM Corrective Maintenance
N/A Not Applicable
TBD To Be Determined

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Appendix B Photographs of EUT

Front View of the product



Rear View of the product



Rear View of the product



Rear View of the product



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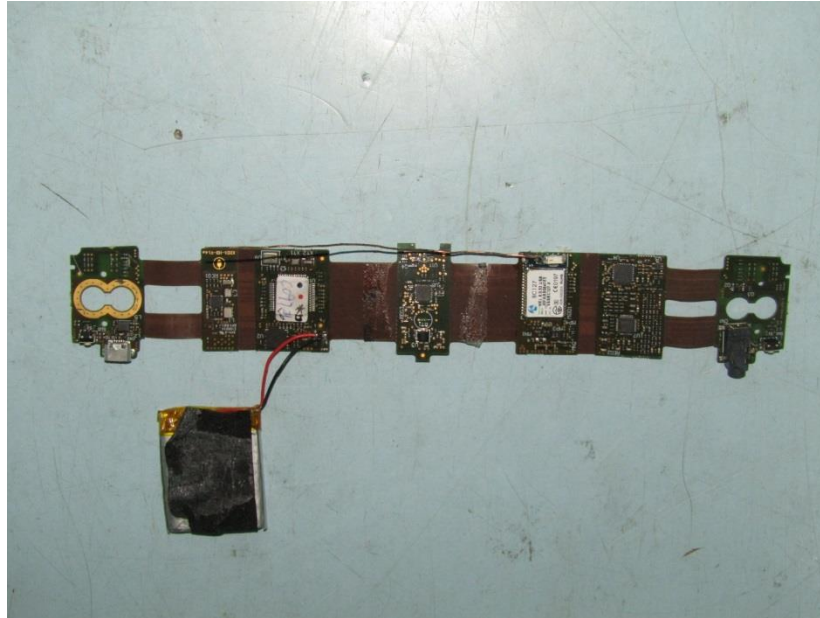
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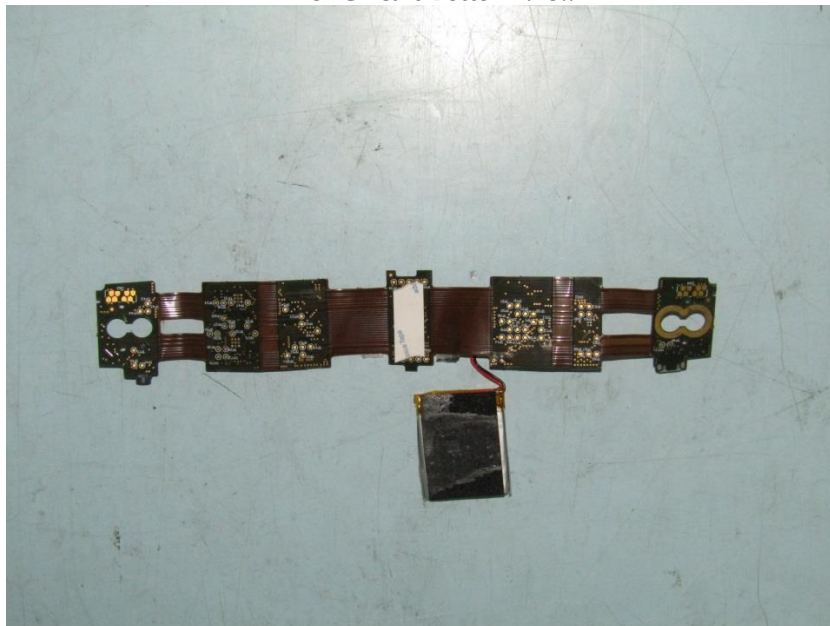
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Photographs of EUT

Inner Circuit Top View



Inner Circuit Bottom View



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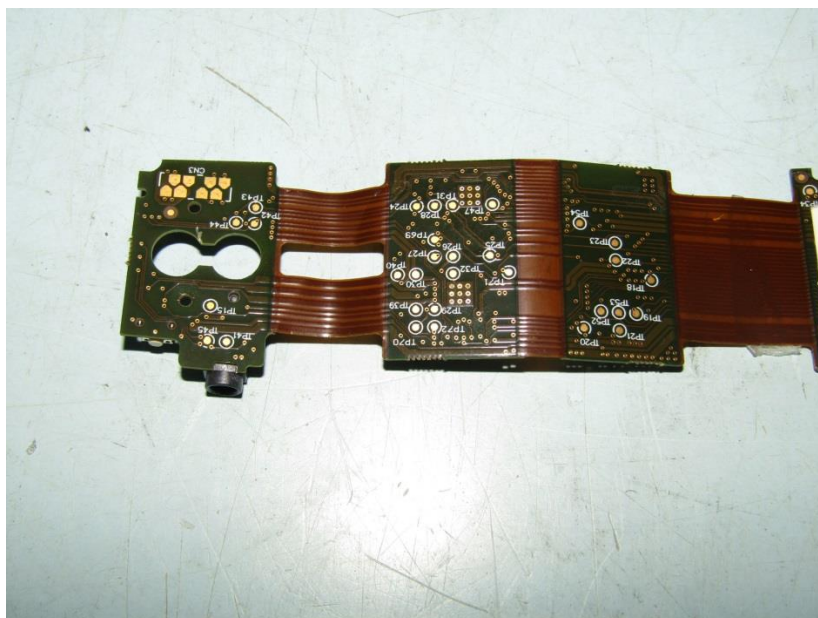
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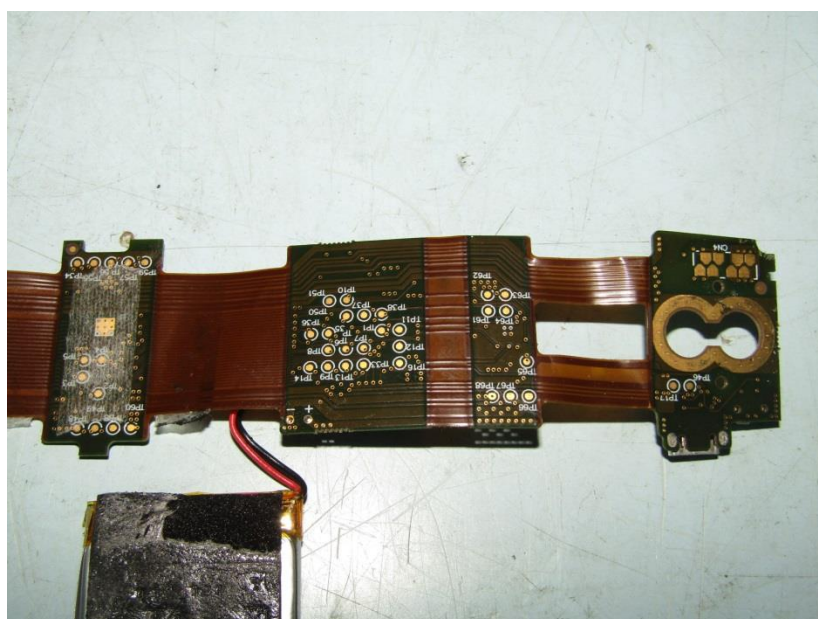
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Photographs of EUT

Inner Circuit Top View



Inner Circuit Bottom View



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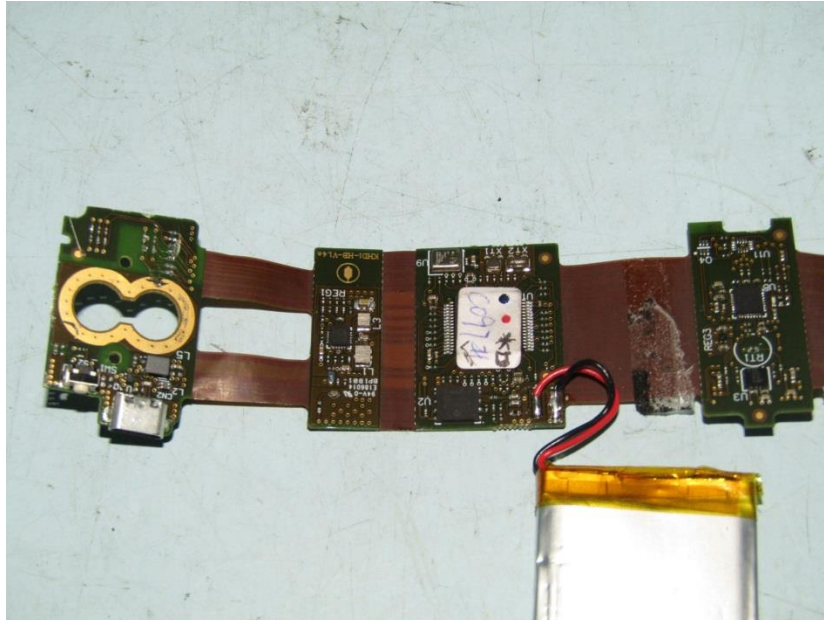
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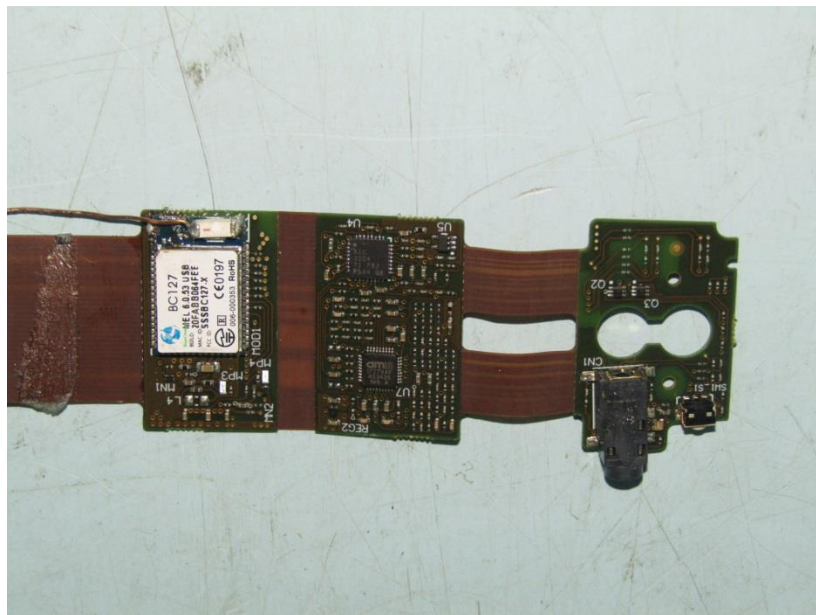
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Inner Circuit Top View



Inner Circuit Bottom View



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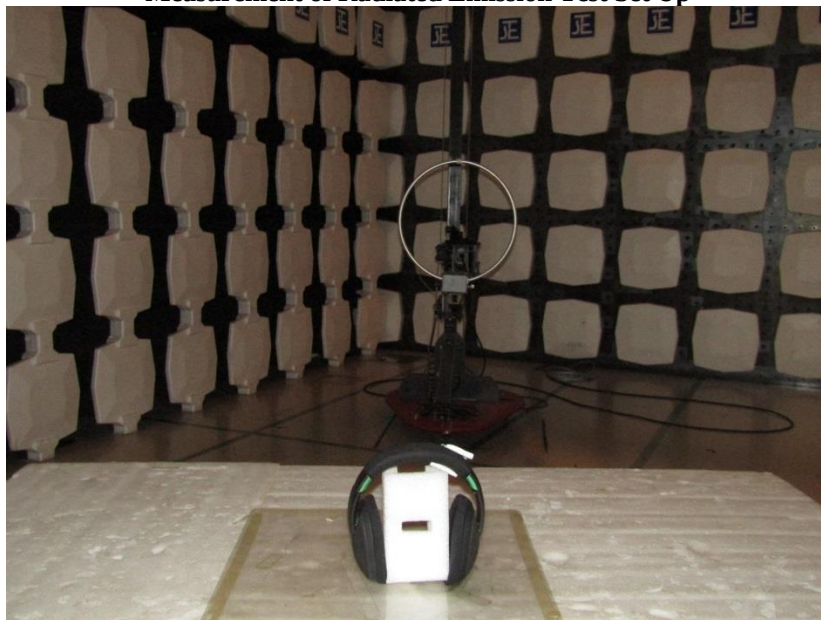
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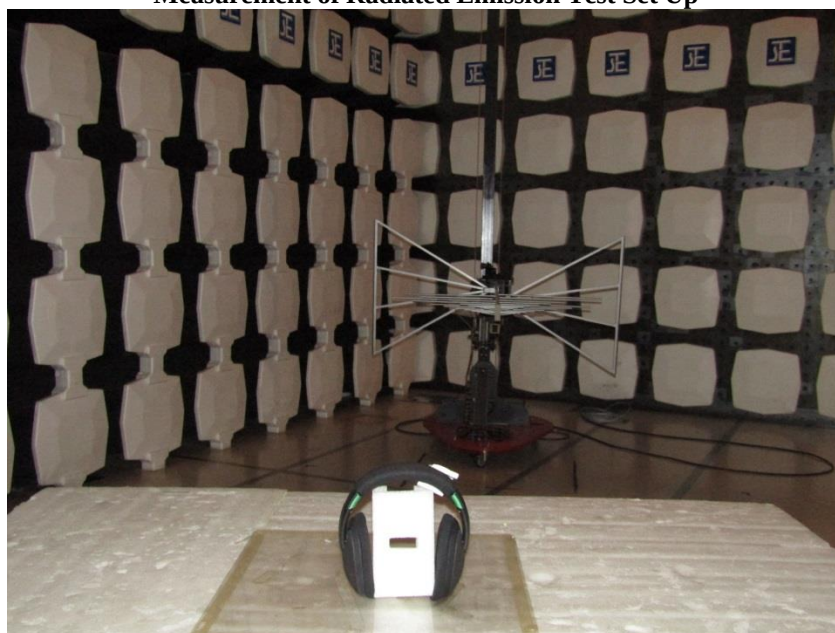
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Photographs of EUT

Measurement of Radiated Emission Test Set Up



Measurement of Radiated Emission Test Set Up



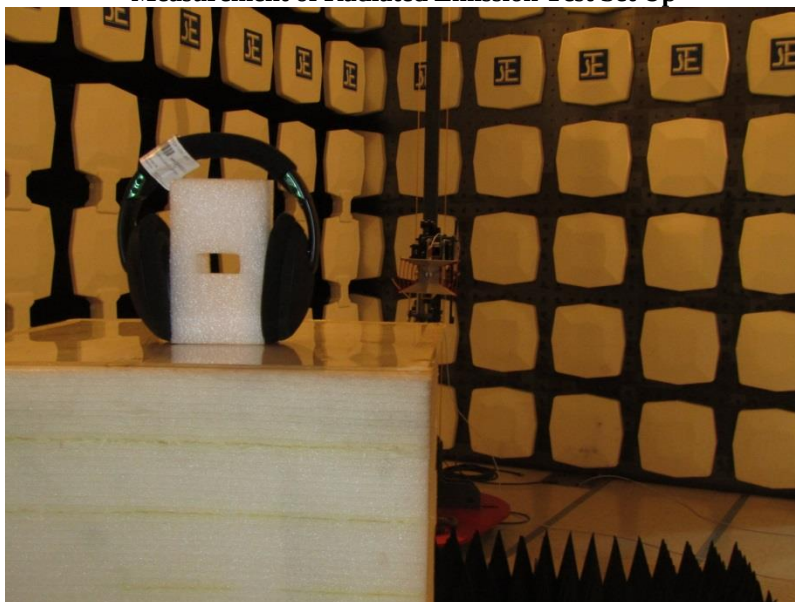
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Measurement of Radiated Emission Test Set Up



Measurement of Conducted Emission Test Set Up



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1. All samples and goods are accepted by The Hong Kong Standards & Testing Centre Limited (the "Company") solely for testing and reporting in accordance with the following terms and conditions. The Company provides its services on the basis that such terms and conditions constitute express agreement between the Company and any person, firm or company requesting its services (the "Clients").
2. Any report issued by the Company as a result of this application for testing service (the "Report") shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to his customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.
3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
4. The Report refers only to the sample tested and does not apply to the bulk, unless the sampling has been carried out by the Company and is stated as such in the Report.
5. In the event of the improper use the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
6. Sample submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
7. The Company will not be liable for or accept responsibility for any loss or damage howsoever arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
8. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
9. Subject to the variable length of retention time for test data and report stored hereinto as to otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of this test report for a period of three years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after the retention period. Under no circumstances shall we be liable for damages of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.
10. Issuance records of the Report are available on the internet at www.stc-group.org. Further enquiry of validity or verification of the Reports should be addressed to the Company.