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Applicant : Secure Data Inc.

625 Fair Oaks Ave., #325, South Pasadena, CA 91030, USA

Supplier / Manufacturer : Chase Glory Industrial Limited

Flat B-D, 15/F., Haribest Ind. Bldg., 45-47 Au Pui Wan St., Fotan,

Shatin, N.T., Hongkong

Description of Sample(s) : Submitted sample(s) said to be

Product: SECUREDRIVETM DUO

Brand Name: SECUREDATA

Model No.: SD-BK-GM-5TB

FCC ID: 2AOXICGDHSDDU

Date Samples Received : 2021-06-23

Date Tested : 2021-06-27 to 2021-06-30

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)

For additional model(s) details, please see page 3.





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1.0 General Details

1.1 Test Laboratory

The Hong Kong Standards and Testing Centre Ltd.

EMC Laboratory

10 Dai Wang Street, Taipo Industrial Estate, New Territories, Hong Kong

Telephone: 852 2666 1888 Fax: 852 2664 4353

1.2 Equipment Under Test [EUT]

Description of Sample(s)

Product: SECUREDRIVETM DUO
Manufacturer: Chase Glory Industrial Limited

Flat B-D, 15/F., Haribest Ind. Bldg., 45-47 Au Pui Wan St.,

Fotan, Shatin, N.T., Hongkong

Brand Name: SECUREDATA
Model Number: SD-BK-GM-5TB

Additional Model Number: SD-BK-GM-XX(XX is the capacity of the drives)

. Rating: 5Vd.c.(power by USB port)

1.2.1 Description of EUT Operation

The Equipment Under Test (EUT) is a SECUREDRIVE TM DUO. 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 digital transmission Modulation.

1.3 Date of Order

2021-06-23

1.4 Submitted Sample(s):

1 Sample

1.5 Test Duration

2021-06-27 to 2021-06-30

1.6 Country of Origin

United States



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1.7 RF Module Details

Module Model Number: BlueNRG-MS

Module FCC ID: N/A

Module Transmission Type: Bluetooth 4.1 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: Integral antenna

Antenna Gain: 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



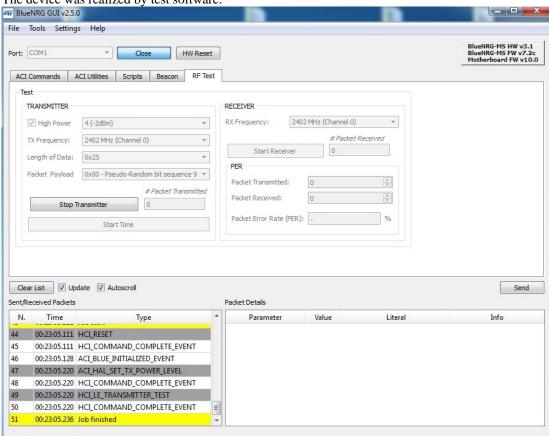
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<u>2.0</u> Technical Details

2.1 Investigations Requested

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

The device was realized by test software.





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2.2 Test Standards and Results Summary Tables

	EMISSION										
Results Summary											
Test Condition	Test Requirement	Test Method	Class /	Test Result							
			Severity	Pass	Failed	N/A					
Maximum Peak Output Power	FCC 47CFR 15.247(b)(3)	ANSI C63.10: 2013	N/A								
Radiated Spurious	FCC 47CFR 15.209	ANSI C63.10:	N/A	\boxtimes							
Emissions	FCC 47CFR 15.205	2013									
AC Mains Conducted Emissions	FCC 47CFR 15.207	ANSI C63.10: 2013	N/A								
Conducted Spurious Emissions	FCC 47CFR 15.247(d)	ANSI C63.10: 2013	N/A	\boxtimes							
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	\boxtimes							

Note: N/A - Not Applicable



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3.0 Test Results

3.1 Emission

3.1.1 Maximum Peak Output Power

Test Requirement: FCC 47CFR 15.247(b)(3)
Test Method: ANSI C63.10: 2013

Test Date: 2021-06-30

Mode of Operation: Bluetooth DTS Tx mode

Ambient Temperature: 25°C Relative Humidity: 51% Atmospheric Pressure: 101 kPa

Test Method:

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

Spectrum Analyzer Setting:

RBW = 2 MHz,

VBW= 6MHz,

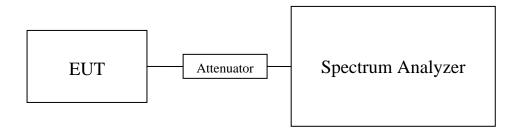
Sweep = Auto,

Span = 6MHz

Detector = Peak,

Trace = Max. hold

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]:

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)									
Channel	Frequency(MHz)	Conducted power(dBm)	Antenna Gain(dBi)	E.I.R.P(dBm)	E.I.R.P (Watt)				
0	2402	-5.36	0	-5.36	0.000291				
19	2440	-5.56	0	-5.56	0.000278				
39	2480	-6.19	0	-6.19	0.000240				

Calculated measurement uncertainty : 30MHz to 1GHz 1.7dB

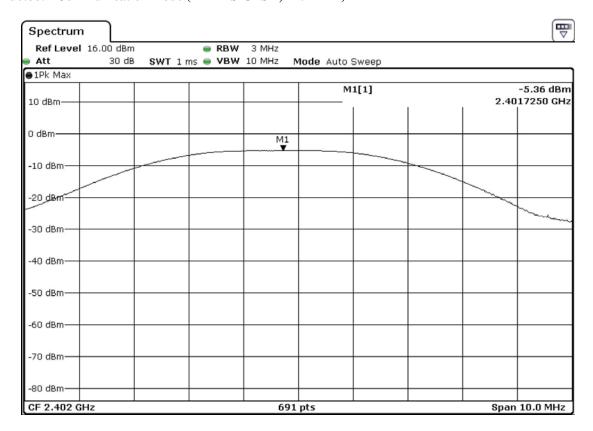
1GHz to 26GHz 1.7dB



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Test plot of Maximum Peak Conducted Output Power:

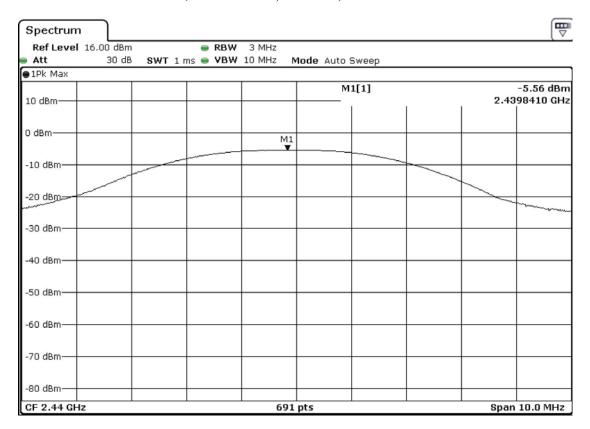
Bluetooth Communication mode (BT DTS-GFSK, 2402MHz)





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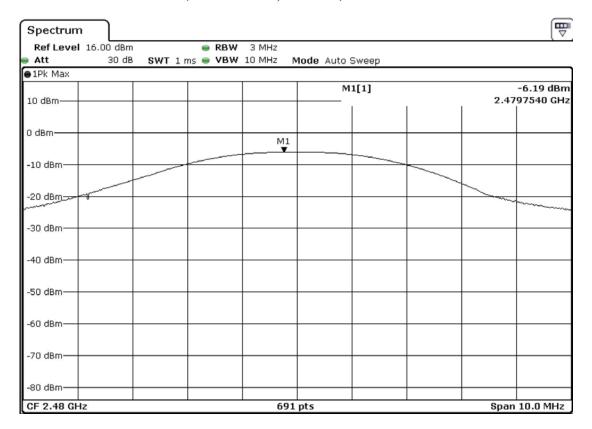
Bluetooth Communication mode (BT DTS-GFSK, 2440MHz)





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Bluetooth Communication mode (BT DTS-GFSK, 2480MHz)





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3.1.2 Radiated Emissions

Test Requirement: FCC 47CFR 15.209
Test Method: ANSI C63.10:2013

Test Date: 2021-06-29

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

Ambient Temperature: 25°C Relative Humidity: 50% Atmospheric Pressure: 101 kPa

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.

* Semi-Anechoic chamber located on the G/F of The Hong Kong Standards and Testing Centre Ltd. with a metal ground plane filed with the FCC pursuant to section 2.948 of the FCC rules, with Registration Number: 607756.



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Spectrum Analyzer Setting:

9KHz – 30MHz (Pk & Av) RBW: 10kHz

VBW: 30kHz Sweep: Auto

Span: Fully capture the emissions being measured

Trace: Max. hold

30MHz - 1GHz (QP) RBW: 120kHz

VBW: 120kHz Sweep: Auto

Span: Fully capture the emissions being measured

Trace: Max. hold

Above 1GHz (Pk) RBW: 1MHz

VBW: 1MHz Sweep: Auto

Span: Fully capture the emissions being measured

Trace: Max. hold

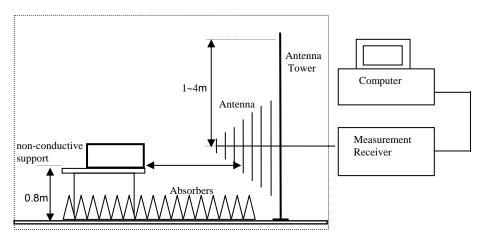
Above 1GHz (Av) RBW: 1MHz

VBW: 10Hz Sweep: Auto

Span: Fully capture the emissions being measured

Trace: Max. hold

Test Setup:



Ground Plane

- 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.

The Hong Kong Standards and Testing Centre Limited

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

Unit B, 10/F, Block 1, Tai Ping Industrial Centre, No. 57 Ting Kok Road, Tai Po, N.T., Hong Kong Tel: +852 2666 1888 Fax: +852 2664 4353 Email: hkstc@stc.group Website: www.stc.group

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Limits for Radiated Emissions FCC 47 CFR 15.209]:

Limits for Radiated Emissions FCC 47 CFR 15.209]:	
Frequency Range	Quasi-Peak Limits
[MHz]	$[\mu V/m]$
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.

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 1000MHz and falling within the restricted bands of FCC Rules Part 15 Section 15.205 and the limits of FCC Rules Part 15 Section 15.209 were applied.

Correction Factor included Antenna Factor and Cable Attenuation.

Calculated measurement uncertainty (9kHz-30MHz): 2.0dB

(30MHz -1GHz): 4.9dB (1GHz -6GHz): 4.02dB (6GHz -26.5GHz): 4.03dB

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

Kesuit of TX III	Result of 1x mode (2402.0 MHz) (GF5K) (7KHz - 30MHz). 1 ass									
Field Strength of Spurious Emissions										
	Peak Value									
Frequency	Measured	Correction	Field	Field	Limit	E-Field				
	Level	Factor	Strength	Strength		Polarity				
MHz	dBuV	dB/m	dBuV/m	uV/m	uV/m					
	Emissions	detected are 1	nore than 20	dB below the	FCC Limits					

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

Field Strength of Spurious Emissions Peak Value										
Frequency	Measured	Correction	Field	Limit	Margin	E-Field				
	Level @3m	Factor	Strength	@3m		Polarity				
MHz	dΒμV	dB/m	dBμV/m	$dB\mu V/m$	dB					
4804.0	13.8	41.5	55.3	74.0	18.7	Vertical				
4804.0	12.5	42.4	54.9	74.0	19.1	Horizontal				
7206.0	9.9	45.1	55.0	74.0	19.0	Vertical				
7206.0	9.1	46.2	55.3	74.0	18.7	Horizontal				
9608.0	7.4	48.0	55.4	74.0	18.6	Vertical				
9608.0	6.5	48.8	55.3	74.0	18.7	Horizontal				
12010.0	4.1	51.8	55.9	74.0	18.2	Vertical				
12010.0	3.4	52.4	55.8	74.0	18.2	Horizontal				

Field Strength of Spurious Emissions Average Value										
Frequency	Measured	Correction	Field	Limit	Margin	E-Field				
	Level @3m	Factor	Strength	@3m		Polarity				
MHz	dΒμV	dB/m	dBμV/m	dBμV/m	dB					
4804.0	-1.7	41.5	39.9	54.0	14.2	Vertical				
4804.0	-3.2	42.4	39.3	54.0	14.8	Horizontal				
7206.0	-5.0	45.1	40.1	54.0	13.9	Vertical				
7206.0	-6.3	46.2	39.9	54.0	14.1	Horizontal				
9608.0	-8.4	48.0	39.6	54.0	14.4	Vertical				
9608.0	-9.5	48.8	39.3	54.0	14.7	Horizontal				
12010.0	-11.3	51.8	40.5	54.0	13.5	Vertical				
12010.0	-12.0	52.4	40.4	54.0	13.6	Horizontal				



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

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

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

	Field Strength of Spurious Emissions Peak Value										
Frequency	Measured	Correction	Field	Limit	Margin	E-Field					
	Level @3m	Factor	Strength	@3m		Polarity					
MHz	dΒμV	dB/m	dBμV/m	dBμV/m	dB						
4880.0	14.7	41.6	56.3	74.0	17.7	Vertical					
4880.0	13.3	42.5	55.8	74.0	18.2	Horizontal					
7320.0	2.8	53.2	56.0	74.0	18.0	Vertical					
7320.0	9.0	46.3	55.3	74.0	18.7	Horizontal					
9760.0	7.4	48.1	55.5	74.0	18.5	Vertical					
9760.0	6.6	48.9	55.5	74.0	18.5	Horizontal					
12200.0	4.4	51.6	56.0	74.0	18.0	Vertical					
12200.0	3.8	52.5	56.3	74.0	17.7	Horizontal					

Field Strength of Spurious Emissions										
Average Value										
Frequency	Measured	Correction	Field	Limit	Margin	E-Field				
	Level @3m	Factor	Strength	@3m		Polarity				
MHz	dBμV	dB/m	dBμV/m	$dB\mu V/m$	dB					
4880.0	-0.6	41.6	41.0	54.0	13.0	Vertical				
4880.0	-1.4	42.5	41.1	54.0	12.9	Horizontal				
7320.0	-4.8	45.2	40.4	54.0	13.6	Vertical				
7320.0	-6.4	46.3	39.9	54.0	14.1	Horizontal				
9760.0	-8.5	48.1	39.6	54.0	14.4	Vertical				
9760.0	-8.8	48.9	40.1	54.0	13.9	Horizontal				
12200.0	-10.5	51.6	41.1	54.0	12.9	Vertical				
12200.0	-11.3	52.5	41.2	54.0	12.8	Horizontal				



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

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

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

		Field Streng	th of Spuriou Peak Value	is Emissions		
Frequency	Measured	Correction	Field	Limit	Margin	E-Field
1 ,	Level @3m	Factor	Strength	@3m	S	Polarity
MHz	dΒμV	dB/m	dBμV/m	$dB\muV/m$	dB	
4960.0	14.6	41.4	56.0	74.0	18.0	Vertical
4960.0	13.1	42.7	55.8	74.0	18.2	Horizontal
7440.0	9.8	45.6	55.4	74.0	18.6	Vertical
7440.0	9.4	46.5	55.9	74.0	18.1	Horizontal
9920.0	6.7	48.6	55.3	74.0	18.7	Vertical
9920.0	5.6	49.7	55.3	74.0	18.7	Horizontal
12400.0	4.5	51.7	56.2	74.0	17.8	Vertical
12400.0	3.5	52.7	56.2	74.0	17.8	Horizontal

		_	th of Spuriou verage Valu			
Frequency	Measured	Correction	Field	Limit	Margin	E-Field
	Level @3m	Factor	Strength	@3m		Polarity
MHz	dΒμV	dB/m	dBμV/m	dBμV/m	dB	
4960.0	-0.2	41.4	41.2	54.0	12.8	Vertical
4960.0	-1.1	42.7	41.6	54.0	12.4	Horizontal
7440.0	-5.5	45.6	40.1	54.0	13.9	Vertical
7440.0	-6.8	46.5	39.7	54.0	14.3	Horizontal
9920.0	-7.5	48.6	41.1	54.0	12.9	Vertical
9920.0	-9.6	49.7	40.1	54.0	13.9	Horizontal
12400.0	-10.5	51.7	41.3	54.0	12.8	Vertical
12400.0	-11.6	52.7	41.1	54.0	12.9	Horizontal



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Radiated Emissions Measurement:

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)).

Result: RF Radiated Emissions (Lowest)-GFSK

	F	ield Strength	of Band-edg	ge Compliance		
			Peak Value			
Frequency	Measured	Correction	Field	Limit	Margin	E-Field
	Level @3m	Factor	Strength	@3m		Polarity
MHz	dΒμV	dB/m	$dB\mu V/m$	$dB\mu V/m$	dB	
2390.0	7.6	36.8	44.4	74.0	29.6	Vertical

	F	ield Strength	of Band-edg	ge Compliance		
		A	verage Valu	e		
Frequency	Measured	Correction	Field	Limit	Margin	E-Field
	Level @3m	Factor	Strength	@3m		Polarity
MHz	dΒμV	dB/m	dBμV/m	dBμV/m	dB	
2390.0	1.1	36.8	37.9	54.0	16.1	Vertical

Result: RF Radiated Emissions (Highest) -GFSK

21054111 211 211	talatea Elliissi	ons (mgnese)	01011			
	I	Field Strength	of Band-edg	ge Compliance		
			Peak Value			
Frequency	Measured	Correction	Field	Limit	Margin	E-Field
	Level @3m	Factor	Strength	@3m		Polarity
MHz	dΒμV	dB/m	dBμV/m	$dB\mu V/m$	dB	
2483.5	16.9	36.8	53.7	74.0	20.3	Vertical

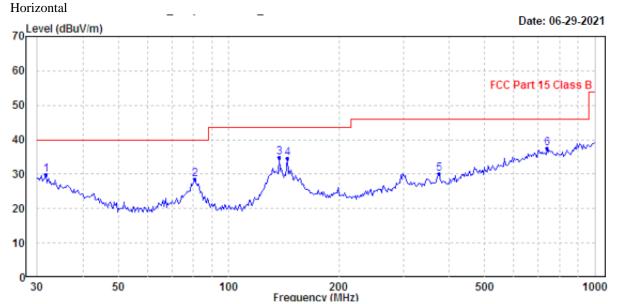
	ŀ	Field Strength	of Band-edg	ge Compliance		
		A	verage Valu	e		
Frequency	Measured	Correction	Field	Limit	Margin	E-Field
	Level @3m	Factor	Strength	@3m		Polarity
MHz	dΒμV	dB/m	dBμV/m	$dB\mu V/m$	dB	
2483.5	2.1	36.8	38.9	54.0	15.1	Vertical



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Results of Bluetooth Communication mode (2402.0 MHz) (30MHz - 1GHz): Pass

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



Ambient Temperature: 25C Relative Humidity : 50%

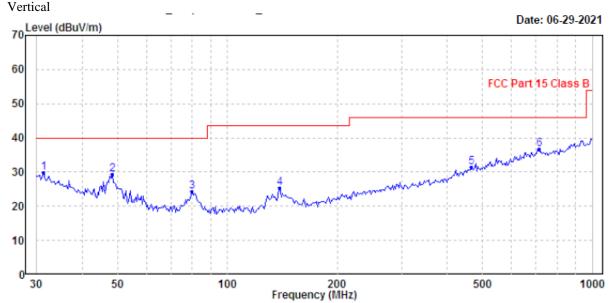
	Freq	Level	Limit Line		Remark	Pol/Phase
-	MHz	dBuV/m	dBuV/m	dB		
1	31.731	29.92	40.00	-10.08	Peak	Horizontal
2	80.644	28.51	40.00	-11.49	Peak	Horizontal
3	137.420	34.88	43.50	-8.62	Peak	Horizontal
4	144.335	34.54	43.50	-8.96	Peak	Horizontal
5	374.623	30.17	46.00	-15.83	Peak	Horizontal
6	739.661	37.51	46.00	-8.49	Peak	Horizontal



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Results of Bluetooth Communication mode (2402.0 MHz) (30MHz – 1GHz): Pass

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



Ambient Temperature: 25C Relative Humidity : 50%

	Freq	Level		Over Limit	Remark	Pol/Phase
	MHz	$\overline{\text{dBuV/m}}$	$\overline{\text{dBuV/m}}$	dB		
1	31.289	29.77	40.00	-10.23	Peak	Vertical
2	48.332	29.29	40.00	-10.71	Peak	Vertical
3	80.081	24.41	40.00	-15.59	Peak	Vertical
4	139.361	25.45	43.50	-18.05	Peak	Vertical
5	465.599	31.39	46.00	-14.61	Peak	Vertical
6	714.173	36.82	46.00	-9.18	Peak	Vertical



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

Test Requirement: FCC 47CFR 15.207 Test Method: ANSI C63.10:2013

Test Date: 2021-06-24

Mode of Operation: Data transmission mode

Test Voltage: 120Va.c. 60Hz

Relative Humidity: 51% Ambient Temperature: 25°C Atmospheric Pressure: 101 kPa

Test Method:

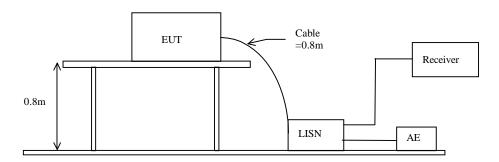
The test was performed in accordance with ANSI ANSI C63.10:2013, with the following: an initial measurement was performed in peak and average detection mode on the live line, any emissions recorded within 30dB of the relevant limit line were re-measured using quasi-peak and average detection on the live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

Receiver Setting:

Bandw. = 9 kHz, Meas. Time= 10.0 ms, Step Width = 5.0kHz

Detector = MaxPeak and CISPR AV

Test Setup:



Limits for Conducted Emissions (FCC 47 CFR 15.207):

Frequency Range	Quasi-Peak Limits	Average
[MHz]	[dBµV]	[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.

Remarks:

Calculated measurement uncertainty (0.15MHz - 30MHz): 3.25dB

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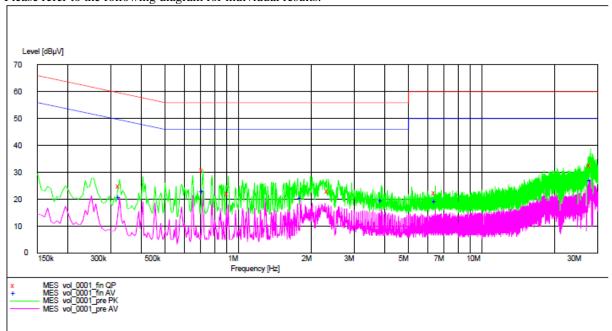
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^{-*-} Emission(s) that is far below the corresponding limit line.



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Results of Data transmission mode(connect to notebook, USB 2.0) (L): PASS

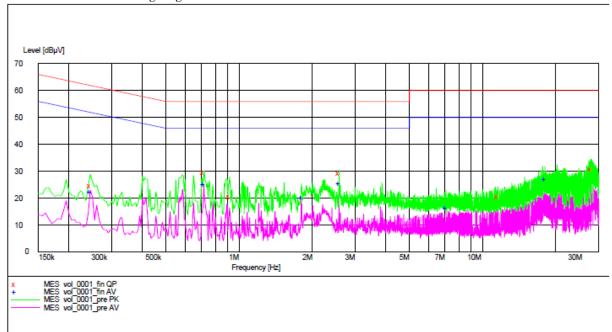


MEASUREMENT	RESULT: "v	701 0001	fin QP"	•		
6/24/2021 1	1:32AM					
Frequency	Level	Transd	Limit	Margin	Line	PE
MHz	dBµV	dB	dΒμV	dB		
0.325000	24.90	9.7	60	34.7	L1	GND
0.715000	30.70	9.7	56	25.3	L1	GND
0.910000	22.10	9.7	56	33.9	L1	GND
2.340000	23.00	9.8	56	33.0	L1	GND
6.450000	22.40	9.9	60	37.6	L1	GND
28.010000	32.80	10.9	60	27.2	L1	GND
MEASUREMENT	RESULT: "v	701 0001	fin AV"	•		
MEASUREMENT 6/24/2021 1		701_0001_	fin AV"	•		
6/24/2021 1			-		Line	PE
6/24/2021 1	1:32AM Level	Transd	-	Margin	Line	PE
6/24/2021 1 Frequency	1:32AM Level	Transd	Limit	Margin	Line	PE
6/24/2021 1 Frequency	1:32AM Level dBµV	Transd	Limit dBµV	Margin		PE GND
6/24/2021 1 Frequency MHz	1:32AM Level dBµV 20.80	Transd dB	Limit dBµV	Margin dB	L1	
6/24/2021 1 Frequency MHz	1:32AM Level dBµV 20.80 23.00	Transd dB	Limit dBµV 50 46	Margin dB 28.8 23.0	L1	GND
6/24/2021 1 Frequency MHz 0.325000 0.715000	1:32AM Level dBµV 20.80 23.00 20.60	Transd dB 9.7 9.7	Limit dBµV 50 46 46	Margin dB 28.8 23.0 25.4	L1 L1 L1	GND GND
6/24/2021 1 Frequency MHz 0.325000 0.715000 1.805000	1:32AM Level dBµV 20.80 23.00 20.60 19.60	Transd dB 9.7 9.7 9.8	Limit dBµV 50 46 46 46	Margin dB 28.8 23.0 25.4 26.4	L1 L1 L1 L1	GND GND GND
6/24/2021 1 Frequency MHz 0.325000 0.715000 1.805000 3.870000	1:32AM Level dBµV 20.80 23.00 20.60 19.60 19.10	Transd dB 9.7 9.7 9.8 9.8	Limit dBµV 50 46 46 46	Margin dB 28.8 23.0 25.4 26.4	L1 L1 L1 L1 L1	GND GND GND GND



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Results of Data transmission mode(connect to notebook, USB 2.0) (N): PASS

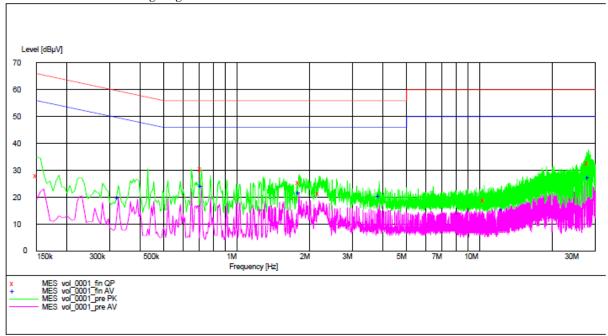


MEASUREMENT F	RESULT: "v	rol_0001	fin QP"	'		
6/24/2021 11	:36AM					
Frequency	Level	Transd	Limit	Margin	Line	PE
MHz	dΒμV	dB	dΒμV	dB		
0.245000	24.70	9.7	62	37.2	N	GND
0.715000	29.70	9.7	56	26.3	N	GND
0.915000	20.60	9.7	56	35.4	N	GND
2.575000	29.40	9.8	56	26.6	N	GND
11.570000	20.40	10.1	60	39.6	N	GND
28.015000	30.70	10.9	60	29.3	N	GND
MEASUREMENT I	RESULT: "V	rol 0001	fin AV"			
MEASUREMENT F 6/24/2021 11		ro1_0001_	fin AV"	'		
	:40AM		-	Margin	Line	PE
6/24/2021 11	:40AM	Transd	-		Line	PE
6/24/2021 11 Frequency	:40AM Level	Transd	Limit	Margin	Line	PE
6/24/2021 11 Frequency	:40AM Level	Transd	Limit dBµV	Margin dB		PE GND
6/24/2021 11 Frequency MHz	L:40AM Level dBµV	Transd	Limit dBµV	Margin dB	N	
6/24/2021 11 Frequency MHz	L:40AM Level dBµV 22.50	Transd dB	Limit dBµV	Margin dB 29.4	N N	GND
6/24/2021 11 Frequency MHz 0.245000 0.715000	22.50 25.30	Transd dB 9.7 9.7	Limit dBµV 52 46	Margin dB 29.4 20.7	N N	GND GND
6/24/2021 11 Frequency MHz 0.245000 0.715000 1.805000	22.50 25.30 20.10	Transd dB 9.7 9.7 9.8	Limit dBµV 52 46 46	Margin dB 29.4 20.7 25.9	N N N	GND GND GND
6/24/2021 11 Frequency MHz 0.245000 0.715000 1.805000 2.575000	22.50 25.30 20.10 25.40	Transd dB 9.7 9.7 9.8 9.8	Limit dBµV 52 46 46 46	Margin dB 29.4 20.7 25.9 20.6	N N N	GND GND GND GND



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Results of Data transmission mode(connect to notebook, USB 3.0) (L): PASS

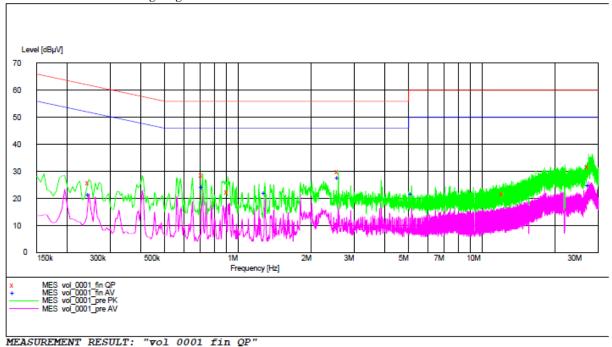


MEASUREMENT	RESULT: "1	701_0001_	_fin QP'	•		
6/24/2021 1	1:19AM					
Frequency	Level	Transd	Limit	Margin	Line	PE
MHz	dΒμV	dB	dΒμV	dB		
0.150000	28.00	9.7	66	38.0	L1	GND
0.715000	30.60	9.7	56	25.4	L1	GND
1.805000	25.40	9.8	56	30.6	L1	GND
2.185000	21.40	9.8	56	34.6	L1	GND
10.465000	18.90	10.0	60	41.1	L1	GND
28.075000	32.80	10.9	60	27.2	L1	GND
ACCIONATION CONTRACTOR						
MEASUREMENT	RESULT: "1	701 0001	fin AV'	•		
6/24/2021 1		701_0001_	_fin AV'	,		
	1:20AM	701_0001_ Transd	-		Line	PE
6/24/2021 1	1:20AM Level	Transd	-	Margin	Line	PE
6/24/2021 1 Frequency	1:20AM Level	Transd	- Limit	Margin	Line	PE
6/24/2021 1 Frequency	1:20AM Level dBµV	Transd	Limit dBµV	Margin dB		PE GND
6/24/2021 1 Frequency MHz	1:20AM V Level dBµV	Transd dB	Limit dBµV	Margin dB	L1	
6/24/2021 1 Frequency MHz	1:20AM Level dBµV 19.70 24.40	Transd dB	Limit dBµV 50 46	Margin dB 29.9 21.6	L1	GND
6/24/2021 1 Frequency MHz 0.325000 0.715000	1:20AM Level dBµV 19.70 24.40 21.70	Transd dB	Limit dBµV 50 46	Margin dB 29.9 21.6 24.3	L1 L1 L1	GND GND
6/24/2021 1 Frequency MHz 0.325000 0.715000 1.805000	1:20AM Level dBµV 19.70 24.40 21.70 20.40	Transd dB 9.7 9.7 9.8	Limit dBµV 50 46 46 46	Margin dB 29.9 21.6 24.3 25.6	L1 L1 L1 L1	GND GND GND
6/24/2021 1 Frequency MHz 0.325000 0.715000 1.805000 3.865000	1:20AM Level dBµV 19.70 24.40 21.70 20.40 15.50	Transd dB 9.7 9.7 9.8 9.8	Limit dBµV 50 46 46 46	Margin dB 29.9 21.6 24.3 25.6	L1 L1 L1 L1 L1	GND GND GND GND



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Results of Data transmission mode(connect to notebook, USB 3.0) (N): PASS



IIIII OI WIIII I	TEDODI.					
6/24/2021 1	1:01AM					
Frequency	Level	Transd	Limit	Margin	Line	PE
MH2	dBµV	dB	dΒμV	dB		
0.245000	25.90	9.7	62	36.0	N	GND
0.715000	28.80	9.7	56	27.2	N	GND
0.910000	22.30	9.7	56	33.7	N	GND
2.575000	29.90	9.8	56	26.1	N	GND
12.220000	21.80	10.1	60	38.2	N	GND
27.360000	31.80	10.8	60	28.2	N	GND
100 100 mm						
MEASUREMENT	RESULT: "T	701 0001	fin AV"			
6/24/2021 1		701_0001_	_fin AV"			
6/24/2021 1			-		Line	PE
6/24/2021 1	1:03AM Level	Transd	-		Line	PE
6/24/2021 1 Frequency	1:03AM Level	Transd	Limit	Margin	Line	PE
6/24/2021 1 Frequency	1:03AM / Level : dBµV	Transd	Limit dBµV	Margin dB		PE GND
6/24/2021 1 Frequency MHz	1:03AM 7 Level 2 dBµV	Transd	Limit dBµV	Margin dB	N	
6/24/2021 1 Frequency MHz	1:03AM 7 Level 6 dBµV 21.30 24.10	Transd dB	Limit dBµV 52 46	Margin dB 30.6	N N	GND
6/24/2021 1 Frequency MHz 0.245000 0.715000	1:03AM 7 Level 6 dBµV 21.30 0 24.10 0 22.10	Transd dB 9.7	Limit dBµV 52 46 46	Margin dB 30.6 21.9	N N N	GND GND
6/24/2021 1 Frequency MHz 0.245000 0.715000 1.290000	1:03AM 7 Level 1:03AM 9 Level 1:03AM 9 21.30 9 24.10 9 22.10 9 27.80	Transd dB 9.7 9.7 9.7	Limit dBµV 52 46 46 46	Margin dB 30.6 21.9 23.9 18.2	N N N	GND GND GND
6/24/2021 1 Frequency MHz 0.245000 0.715000 1.290000 2.575000	1:03AM 7 Level 6 dBµV 0 21.30 0 24.10 0 22.10 0 27.80 0 21.70	Transd dB 9.7 9.7 9.7 9.8	Limit dBµV 52 46 46 46	Margin dB 30.6 21.9 23.9 18.2	N N N	GND GND GND GND



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3.1.4 Power Spectral Density

Test Requirement: FCC 47CFR 15.247(e)
Test Method: ANSI C63.10:2013

Test Date: 2021-06-27 Mode of Operation: Tx mode

Ambient Temperature: 25°C Relative Humidity: 51% Atmospheric Pressure: 101 kPa

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. Measure the Power Spectral Density (PSD) and record the results in dBm.

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

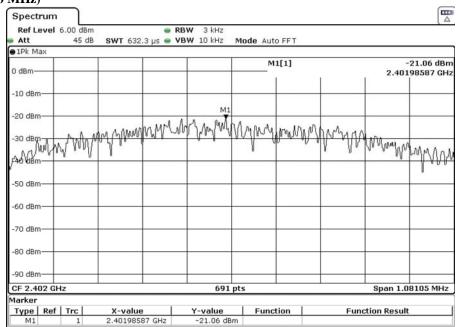
Transmitter Frequency (MHz)	Maximum Power spectral density level / 3kHz band (dBm)	Maximum Power spectral density / 3kHz band limit
2402.0	-21.06	8dBm
2440.0	-21.17	8dBm
2480.0	-21.62	8dBm



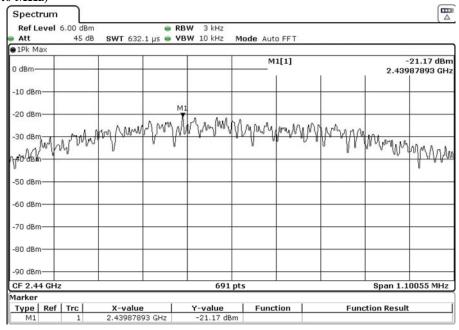
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Tx mode GFSK (Tx: 2402MHz to 2480MHz)

CH 0 (2402.0 MHz)



CH 19 (2440.0 MHz)



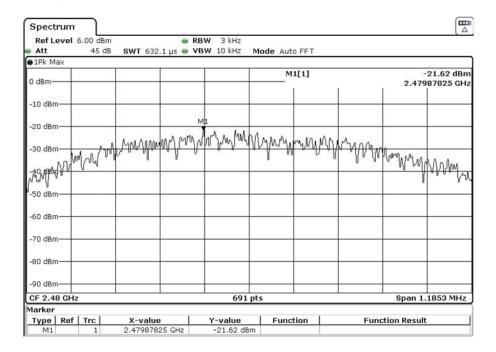
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CH 39 (2480.0 MHz)





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3.1.5 6dB Spectrum Bandwidth Measurement

Test Requirement: FCC 47CFR 15.247(a)(2)
Test Method: ANSI C63.10:2013

Test Date: 2021-06-27 Mode of Operation: Tx mode

Ambient Temperature: 25°C Relative Humidity: 51% Atmospheric Pressure: 101 kPa

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:

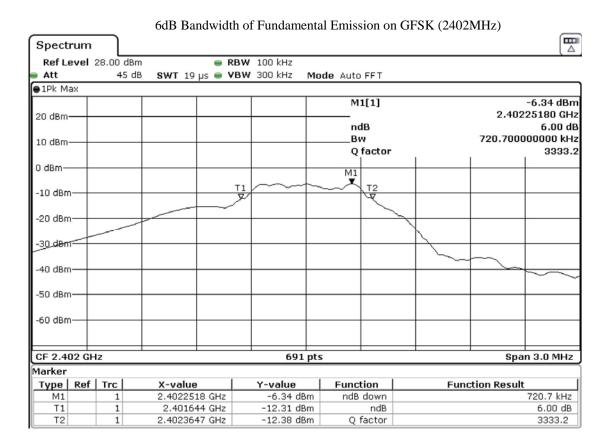
As Test Setup of clause 3.1.1 in this test report.



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Limits for 6dB Spectrum Bandwidth Measurement:

Center Frequency	6dB Bandwidth	FCC Limits
[MHz]	[KHz]	[kHz]
2402.0	720.7	> 500

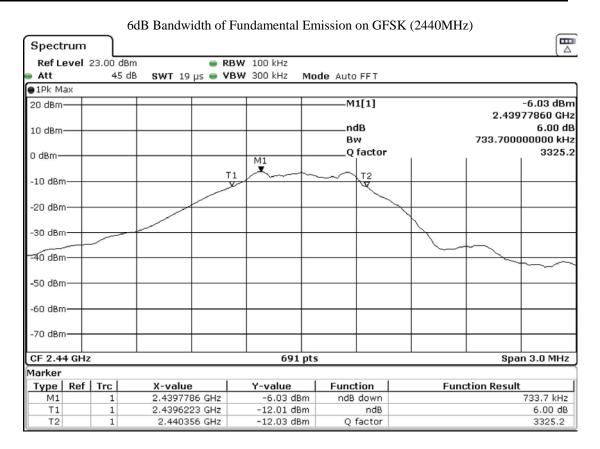




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Limits for 6dB Spectrum Bandwidth Measurement:

Frequency Range	6dB Bandwidth	FCC Limits
[MHz]	[KHz]	[kHz]
2440.0	733.7	> 500

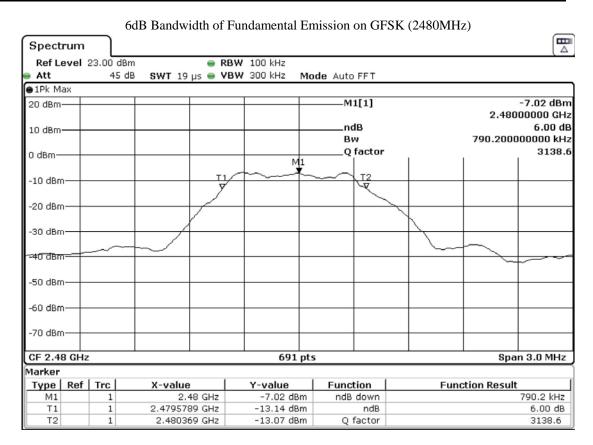




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Limits for 6dB Spectrum Bandwidth Measurement:

Frequency Range	6dB Bandwidth	FCC Limits		
[MHz]	[KHz]	[kHz]		
2480.0	790.2	> 500		





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3.1.6 Band Edges Measurement

Test Requirement: FCC 47CFR 15.247
Test Method: ANSI C63.10:2013
Test Date: 2021-06-30

Mode of Operation: Tx mode

Ambient Temperature: 25°C Relative Humidity: 51% Atmospheric Pressure: 101 kPa

Test Method:

The band edge 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. The RBW are set to 100kHz and VBW are set to 300kHz for this measurement.

Test Setup:

As Test Setup of clause 3.1.2 in this test report.



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Band-edge Compliance of RF Conducted Emissions Measurement:

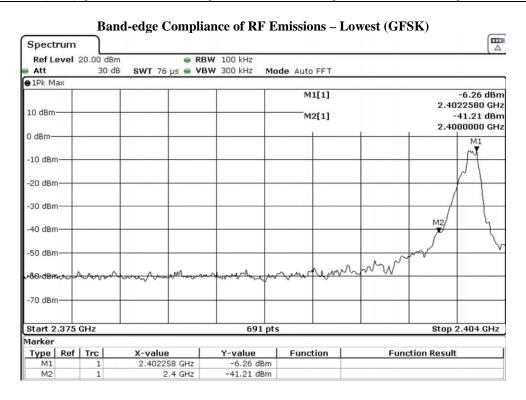
Limit

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.

Remark: Emissions under the fixed frequency mode and hopping mode have been investigated, the worst-case measurement results were recorded in the test report

Band-edge Compliance of RF Conducted Emissions Measurement:

Frequency Range	Range Reference level I		The highest conducted band edge emission	Result	
[MHz]	[dBm]	[dBm]	[dBm]		
2400 – Lowest Fundamental (2402)	-6.26	-26.26	-41.21	PASS	

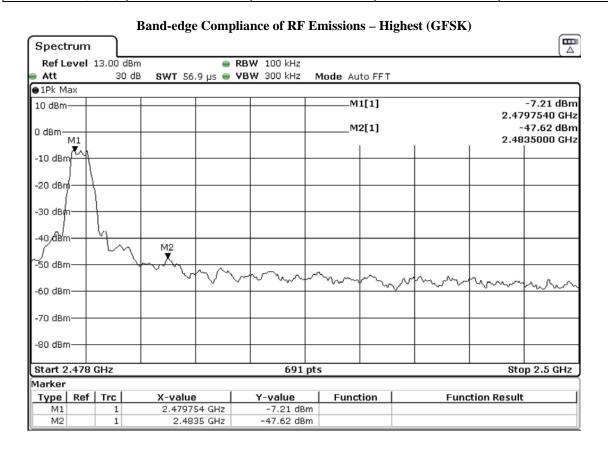




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Band-edge Compliance of RF Conducted Emissions Measurement:

Frequency Range	Reference level	Limit	The highest conducted band edge emission	Result
[MHz]	[dBm]	[dBm]	[dBm]	
2483.5 - Highest Fundamental (2480)	-7.21	-27.21	-47.62	PASS





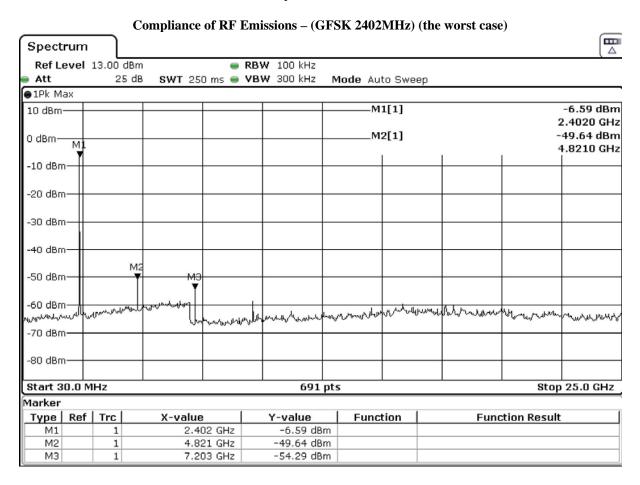
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Compliance of RF Emissions Measurement:

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.

Remark: Emissions under the fixed frequency mode and hopping mode have been investigated, the worst-case measurement results were recorded in the test report





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3.1.7 Antenna Requirement

Ambient Temperature: 25°C Relative Humidity: 51% Atmospheric Pressure: 101 kPa

Test Requirements: § 15.203

Test Specification:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Test Results:

This is Integral antenna. There is no external antenna, the antenna gain = 0dBi. User is unable to remove or changed the Antenna.



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Appendix A

List of Measurement Equipment

Radiated Emission

	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		2020/04/20	2022/04/20	
EM356	ANTENNA POSITIONING TOWER	ETS-LINDGREN	2171B	00150346	N/A	N/A	
EM336	PRECISION CONICAL DIPOLE	SEIBERSDORF LABORATORIES	PCD 3100	6236/M	2020/05/30	2022/05/30	
EM229	EMI TEST RECEIVER	R&S	ESIB40	100248	2020/05/13	2022/05/13	
EM276	BROADBAND HORN ANTENNA	A-INFOMW	JXTXLB- 10180-SF	J203109090300 7	2019/03/20	2022/03/29	
EM300	PYRAMIDAL STANDARD GAIN HORN ANTENNA	ETS-LINDGREN	3160-09	00130130	2020/04/28	2022/04/28	
EM301	PYRAMIDAL STANDARD GAIN HORN ANTENNA	ETS-LINDGREN	3160-10	00130988	2020/04/28	2022/04/28	
EM022	LOOP ANTENNA	ETS_LINDGREN	6502	00206533	2019/11/30	2021/11/30	
EM355	Biconilog Antenna	ETS-Lindgren	3143B	00094856	2020/04/28	2022/04/28	
EM200	DUAL CHANNEL POWER METER	R & S	NRVD	100592	2019/10/11	2021/10/11	
EM012	PRE-AMPLIFIER	HP	HP8448B	3008A00262	2019/11/08	2021/11/08	

Line Conducted

Line Conducted						
EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL	DUE CAL
EM119	LISN	R & S	ESH3-Z5	0831.5518.52	2020/06/30	2022/06/30
EM145	EMI TEST RECEIVER	R & S	ESIB7	100072	2020/05/13	2022/05/13
EM179	IMPULSE LIMITER	ROHDE & SCHWARZ	ESH3-Z2	357-8810.52/54	2020/01/13	2022/01/11
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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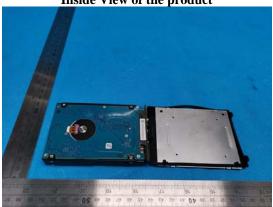
Appendix B

Photographs of EUT

View of the product

Inside View of the product

17 SP SP 79 EP ZP 10 OV 86 SC 1



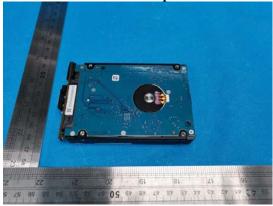
Inner circuit bottom view



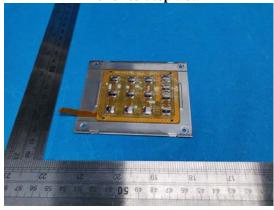
View of the product



Inner circuit top view



Inner circuit top view



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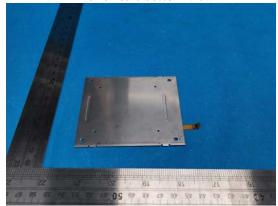
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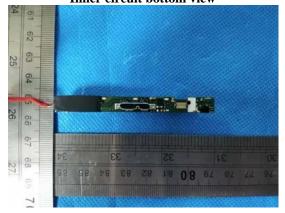
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Photographs of EUT

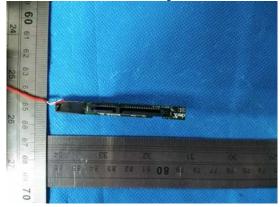
Inner circuit bottom view



Inner circuit bottom view



Inner circuit top view

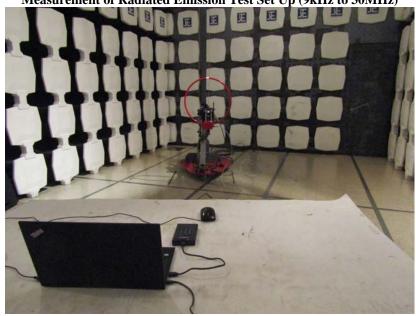


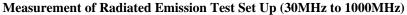


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Photographs of EUT

Measurement of Radiated Emission Test Set Up (9kHz to 30MHz)









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Photographs of EUT

Measurement of Radiated Emission Test Set Up (Above 1000MHz)



Measurement of Conducted Emission Test Set Up



***** End of Test Report *****

Conditions of Issuance of Test Reports

- 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. Subject to clause 3, 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 be at liberty to disclose the testing-related documents and/or files anytime to any third-party accreditation and/or recognition bodies for audit or other related purposes. No liabilities whatsoever shall attach to the Company's act of disclosure.
- 4. 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.
- 5. The results in Report apply only to the sample as received and do not apply to the bulk, unless the sampling has been carried out by the Company and is stated as such in the Report.
- 6. When a statement of conformity to a specification or standard is provided, the ILAC-G8 Guidance document (and/or IEC Guide 115 in the electrotechnical sector) will be adopted as a decision rule for the determination of conformity unless it is inherent in the requested specification or standard, or otherwise specified in the Report.
- 7. 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.
- 8. 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.
- 9. 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.
- 10. 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.
- 11. 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.
- 12. Issuance records of the Report are available on the internet at www.stc.group. Further enquiry of validity or verification of the Reports should be addressed to the Company.