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Table of Contents

Re	eleas	e Control Record	4
1	Cer	tificate of Conformity	5
2	Sun	nmary of Test Results	6
		Measurement Uncertainty	
		Modification Record	
3	Ger	neral Information	7
		General Description of EUT	
	3.2	Description of Test Modes	
	~ ~	3.2.1 Test Mode Applicability and Tested Channel Detail	
		Duty Cycle of Test Signal	
	3.4	Description of Support Units	
	35	General Description of Applied Standards and References	
4		t Types and Results	
4			
	4.1	Radiated Emission and Bandedge Measurement	14
		4.1.1 Limits of Radiated Emission and Bandedge Measurement	
		4.1.2 Test Instruments	
		4.1.3 Test Procedures4.1.4 Deviation from Test Standard	
		4.1.5 Test Set Up	
		4.1.6 EUT Operating Conditions	
		4.1.7 Test Results	
	4.2	Conducted Emission Measurement	
		4.2.1 Limits of Conducted Emission Measurement	
		4.2.2 Test Instruments	
		4.2.3 Test Procedures	
		4.2.4 Deviation from Test Standard	
		4.2.5 Test Setup	
		4.2.6 EUT Operating Conditions	
	43	6 dB Bandwidth Measurement	
	4.0	4.3.1 Limits of 6 dB Bandwidth Measurement	
		4.3.2 Test Setup	
			35
		4.3.4 Test Procedure	
		4.3.5 Deviation from Test Standard	
		4.3.6 EUT Operating Conditions	
		4.3.7 Test Results	
	4.4	Occupied Bandwidth Measurement	
		4.4.2 Test Instruments	
		4.4.3 Test Procedure	
		4.4.4 Deviation from Test Standard	
		4.4.5 EUT Operating Conditions	
		4.4.6 Test Results	39
	4.5	Conducted Output Power Measurement	41
		4.5.1 Limits of Conducted Output Power Measurement	
		4.5.2 Test Setup	
		4.5.3 Test Instruments	
		4.5.4 Test Procedures4.5.5 Deviation from Test Standard	
		4.5.6 EUT Operating Conditions	
		4.5.7 Test Results	



	Power Spectral Density Measurement 4.6.1 Limits of Power Spectral Density Measurement. 4.6.2 Test Setup. 4.6.3 Test Instruments 4.6.4 Test Procedure 4.6.5 Deviation from Test Standard 4.6.6 EUT Operating Condition 4.6.7 Test Results Conducted Out of Band Emission Measurement 4.7.1 Limits of Conducted Out of Band Emission Measurement 4.7.2 Test Setup. 4.7.3 Test Instruments 4.7.4 Test Procedure 4.7.5 Deviation from Test Standard	43 43 43 43 43 43 43 44 46 46 46 46 46
	4.7.5 Deviation from Test Standard	46
	4.7.6 EUT Operating Condition	
	4.7.7 Test Results	47
5 Pic	tures of Test Arrangements	51
	ndix – Information of the Testing Laboratories	



			BUREAU VERITAS
	Release Control	Record	
Issue No.	Description		Date Issued
RF191111C27-1	Original Release		Feb. 05, 2020



1 Certificate of Conformity

Product:	Tablet
Brand:	Getac
Test Model:	ZX70
Sample Status:	Mass product
Applicant:	Getac Technology Corporation
Test Date:	Nov. 24, 2019 ~ Dec. 27, 2019
Standards:	47 CFR FCC Part 15, Subpart C (Section 15.247)
	ANSI C63.10:2013

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

Lena Wai

Prepared by :

Lena Wang / Specialist

Date: Feb. 05, 2020

zhi L

Approved by :

Date: Feb. 05, 2020

Dylan Chiou / Senior Project Engineer



2 Summary of Test Results

	47 CFR FCC Part 15, Subpart C (Section 15.247)								
FCC Clause	Test Item	Result	Remarks						
15.207	AC Power Conducted Emission	Pass	Meet the requirement of limit. Minimum passing margin is -7.37 dB at 0.72600 MHz.						
15.205 & 209	205 & 209 Radiated Emissions		Meet the requirement of limit. Minimum passing margin is -7.5 dB at 81.03 MHz.						
15.247(d)	15.247(d) Band Edge Measurement		Meet the requirement of limit.						
15.247(d)	Antenna Port Emission	Pass	Meet the requirement of limit.						
15.247(a)(2)	6 dB Bandwidth	Pass	Meet the requirement of limit.						
	Occupied Bandwidth Measurement	Pass	Reference only						
15.247(b)	Conducted Power	Pass	Meet the requirement of limit.						
15.247(e)	Power Spectral Density	Pass	Meet the requirement of limit.						
15.203	Antenna Requirement	Pass	No antenna connector is used.						

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2.1 Measurement Uncertainty

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

Measurement	Frequency	Expanded Uncertainty (k=2) (±)
Conducted Emissions at mains ports	150 kHz ~ 30 MHz	2.79 dB
	9 kHz ~ 30 MHz	3.04 dB
Radiated Emissions up to 1 GHz	30 MHz ~ 200 MHz	2.0153 dB
	200 MHz ~ 1000 MHz	2.0224 dB
Radiated Emissions above 1 GHz	1 GHz ~ 18 GHz	1.0121 dB
	18 GHz ~ 40 GHz	1.1508 dB

2.2 Modification Record

There were no modifications required for compliance.



3 General Information

3.1 General Description of EUT

Product	Tablet
Brand	Getac
Test Model	ZX70
Status of EUT	Mass product
Bower Supply Dating	3.8 Vdc (Battery)
Power Supply Rating	12.0 Vdc (Adapter)
Modulation Type	GFSK
Transfer Rate	LE 4.0: 1 Mbps
	LE 5.0: 2 Mbps
Operating Frequency	2402 ~ 2480 MHz
Number of Channel	40
Output Power	LE 4.0: 1.567 mW
Output Power	LE 5.0: 1.641 mW
Antenna Type	PIFA antenna with 1.18 dBi gain
Antenna Connector	N/A
Accessory Device	Refer to Note as below
Data Cable Supplied	Refer to Note as below

Note:

1. The EUT contains following accessory devices.

Product	Product Brand		Description
Adapter + Plugs	FSP	FSP025-DHAN3	I/P: 100-240 Vac, 50-60 Hz, 1.0 A O/P: 12 Vdc, Max. 25 W
Battery	Getac	BP1S2P4240L	3.8 Vdc, 8220 mAh
CPU	Qualcomm	SDA660	692 PIN
Storage	Samsung	KMDH6001DA-B422	64GB
WWAN Module	Sierra	EM7455	
WiFi/BT Chip on board	Qualcomm	WCN3990	802.11 ac/ BT5.0 2x2 support
Front Camera	Truly	COD865-B8BF-E	8 MP, Fix Focus
Rear Camera	Truly	COD898-B12BA-E	12 MP, Auto focus
GPS	Locosys	MC-1010G	
LCD	Truly	TDO-HD0698K61701	7" HD 720 x 1280
Barcode Reader	Honeywell	N6603	
HF RFID Module	NXP	NQ310	

2. The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or User's Manual.



3.2 Description of Test Modes

40 channels are provided to this EUT:

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



3.2.1 Test Mode Applicability and Tested Channel Detail

<LE 4.0>

EUT Configure		Applic	able To		
Mode	RE≥1G	RE<1G	PLC	APCM	Description
-	\checkmark	V	\checkmark	\checkmark	-
					mission below 1 GHz rt Conducted Measurement

Note: The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on **Z-plane**. **Note:** "-"means no effect.

Radiated Emission Test (Above 1 GHz):

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

🖂 F	-ollowing a	channel(s)	was (were) selected for t	he final tes	t as listed below.
-----	-------------	------------	-----------	------------------	--------------	--------------------

EUT Configure Mode	Available Channel	Tested Channel	Modulation Type	Data Rate (Mbps)
-	0 to 39	0, 19, 39	GFSK	1

Radiated Emission Test (Below 1 GHz):

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Channel	Tested Channel	Modulation Type	Data Rate (Mbps)
-	0 to 39	39	GFSK	1

Power Line Conducted Emission Test:

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Channel	Tested Channel	Modulation Type	Data Rate (Mbps)
-	0 to 39	39	GFSK	1



Antenna Port Conducted Measurement:

- This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Channel	Tested Channel	Modulation Type	Data Rate (Mbps)
-	0 to 39	0, 19, 39	GFSK	1



<LE 5.0>

EUT Configure		Applicable To			Description	
Mode	RE≥1G	RE<1G	PLC	APCM	Description	
-	\checkmark	\checkmark	\checkmark	\checkmark	-	
Where RE≥1	/here RE≥1G: Radiated Emission above 1 GHz RE<1G: Radiated Emission below 1 GHz					

PLC: Power Line Conducted Emission

APCM: Antenna Port Conducted Measurement

Note: The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on **Z-plane**. **Note:** "-"means no effect.

Radiated Emission Test (Above 1 GHz):

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Channel	Tested Channel	Modulation Type	Data Rate (Mbps)
-	0 to 39	0, 19, 39	GFSK	2

Radiated Emission Test (Below 1 GHz):

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Channel	Tested Channel	Modulation Type	Data Rate (Mbps)
-	0 to 39	39	GFSK	2

Power Line Conducted Emission Test:

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Channel	Tested Channel	Modulation Type	Data Rate (Mbps)
-	0 to 39	39	GFSK	2

Antenna Port Conducted Measurement:

- This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Channel	Tested Channel	Modulation Type	Data Rate (Mbps)
-	0 to 39	0, 19, 39	GFSK	2



Test Condition:

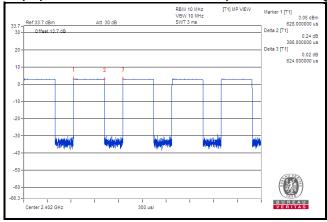
Applicable To	Environmental Conditions	Input Power	Tested by
RE≥1G	25 deg. C, 65 % RH	120 Vac, 60 Hz	Charles Hsiao
RE<1G	25 deg. C, 65 % RH	120 Vac, 60 Hz	Karl Lee
PLC	25 deg. C, 65 % RH	120 Vac, 60 Hz	Jisyong Wang
АРСМ	25 deg. C, 65 % RH	3.8 Vdc	Gavin Wu

3.3 Duty Cycle of Test Signal

Duty cycle of test signal is < 98 %, duty factor shall be considered.

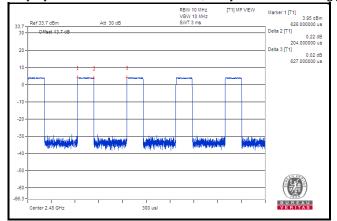
<LE 4.0>

```
Duty cycle = 0.386/0.624 = 0.619, Duty factor = 10 \times \log(1/0.619) = 2.09
```



<LE 5.0>

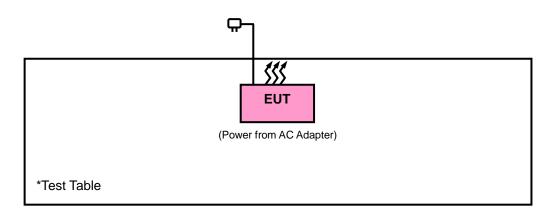






3.4 Description of Support Units

3.4.1 Configuration of System under Test



3.5 General Description of Applied Standards and References

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards and references:

Test Standard:

FCC Part 15, Subpart C (15.247)

ANSI C63.10-2013

All test items have been performed and recorded as per the above standards.

References Test Guidance:

KDB 558074 D01 15.247 Meas Guidance v05r02

All test items have been performed as a reference to the above KDB test guidance.



4 Test Types and Results

4.1 Radiated Emission and Bandedge Measurement

4.1.1 Limits of Radiated Emission and Bandedge Measurement

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 20 dB below the highest level of the desired power:

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

Note:

- 1. The lower limit shall apply at the transition frequencies.
- 2. Emission level $(dBuV/m) = 20 \log Emission level (uV/m)$.
- 3. For frequencies above 1000 MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20 dB under any condition of modulation.



4.1.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Date of Calibration	Due Date of Calibration
Test Receiver Agilent Technologies	N9038A	MY52260177	Aug. 26, 2019	Aug. 25, 2020
Spectrum Analyzer ROHDE & SCHWARZ	FSU43	101261	Apr. 15, 2019	Apr. 14, 2020
HORN Antenna ETS-Lindgren	3117	00143293	Nov. 24, 2019	Nov. 23, 2020
BILOG Antenna SCHWARZBECK	VULB 9168	9168-616	Nov. 12, 2019	Nov. 11, 2020
HORN Antenna SCHWARZBECK	BBHA 9170	9170-480	Nov. 24, 2019	Nov. 23, 2020
Fixed Attenuator Mini-Circuits	MDCS18N-10	MDCS18N-10-01	Apr. 15, 2019	Apr. 14, 2020
Loop Antenna	EM-6879	269	Sep. 16, 2019	Sep. 15, 2020
Preamplifier Agilent	310N	187226	Jun. 18, 2019	Jun. 17, 2020
Preamplifier Agilent	83017A	MY39501357	Jun. 18, 2019	Jun. 17, 2020
Power Meter Anritsu	ML2495A	1012010	Sep. 04, 2019	Sep. 03, 2020
Power Sensor Anritsu	MA2411B	1315050	Sep. 04, 2019	Sep. 03, 2020
RF signal cable ETS-LINDGREN	5D-FB	Cable-CH1- 01(RFC-SMS- 100-SMS- 120+RFC-SMS- 100-SMS-400)	Jun. 18, 2019	Jun. 17, 2020
RF signal cable ETS-LINDGREN	8D-FB	Cable-CH1- 02(RFC-SMS- 100-SMS-24)	Jun. 18, 2019	Jun. 17, 2020
Software BV ADT	E3 8.130425b	NA	NA	NA
Antenna Tower MF	NA	NA	NA	NA
Turn Table MF	NA	NA	NA	NA
Antenna Tower &Turn Table Controller MF	MF-7802	NA	NA	NA

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

2. The test was performed in HsinTien Chamber 1.



4.1.3 Test Procedures

For Radiated Emission below 30 MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9 kHz at frequency below 30 MHz.

For Radiated Emission above 30 MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters (for 30 MHz ~ 1 GHz) / 1.5 meters (for above 1 GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. The test-receiver system was set to peak and average detected function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasipeak detection (QP) or Peak detection (PK) at frequency below 1 GHz.
- 2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1 GHz.
- The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is ≥ 1/T (Duty cycle < 98 %) or 10 Hz (Duty cycle ≥ 98 %) for Average detection (AV) at frequency above 1 GHz. (RBW = 1 MHz, VBW = 3 kHz)
- 4. All modes of operation were investigated and the worst-case emissions are reported.

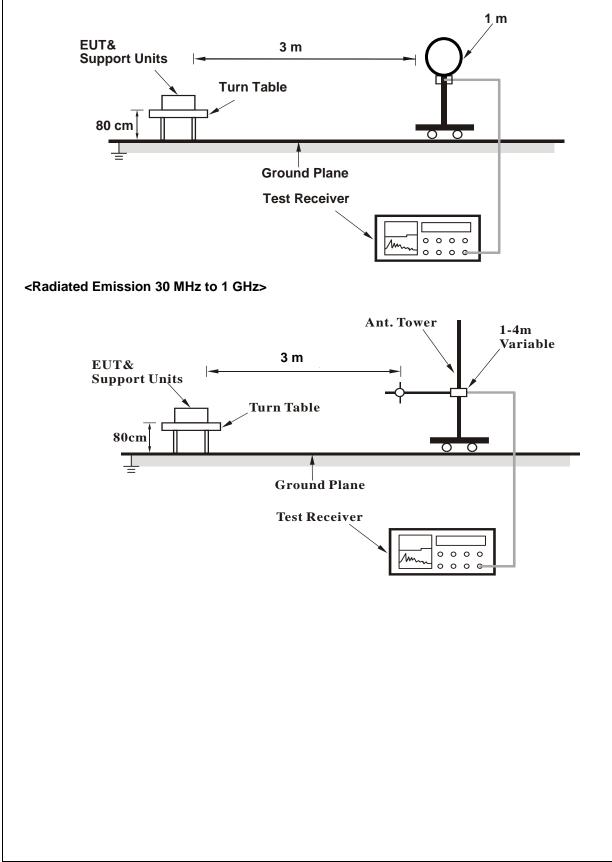
4.1.4 Deviation from Test Standard

No deviation.

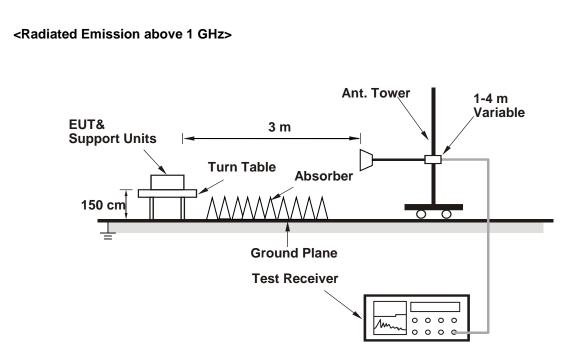


4.1.5 Test Set Up

<Radiated Emission below 30 MHz>







For the actual test configuration, please refer to the attached file (Test Setup Photo).

- 4.1.6 EUT Operating Conditions
- a. Placed the EUT on the testing table.
- b. Set the EUT under transmission condition continuously at specific channel frequency.



4.1.7 Test Results

Above 1 GHz Data:

<LE 4.0>

EUT Test Condition		Measurement Detail	
Channel	Channel 0	Frequency Range	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Charles Hsiao

		Antenna	Polarity &	Test Distan	ce: Horizont	tal at 3 m		
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2389.92	40.86	36.36	4.5	54	-13.14	290	196	Average
2389.92	51.38	46.88	4.5	74	-22.62	290	196	Peak
2402	95.47	90.95	4.52			290	196	Average
2402	96.23	91.71	4.52			290	196	Peak
4804	42.04	31.69	10.35	54	-11.96	126	24	Average
4804	48.07	37.72	10.35	74	-25.93	126	24	Peak
		Antenn	a Polarity &	Test Dista	nce: Vertica	l at 3 m		
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2379.21	40.76	36.29	4.47	54	-13.24	103	102	Average
2379.21	51.95	47.48	4.47	74	-22.05	103	102	Peak
2402	92.55	88.03	4.52			103	102	Average
2402	93.73	89.21	4.52			103	102	Peak
4804	42.2	31.85	10.35	54	-11.8	166	358	Average
4804	48.66	38.31	10.35	74	-25.34	166	358	Peak

Remarks:

1. Emission Level = Read Level + Factor

Margin value = Emission level - Limit value

2. 2402 MHz: Fundamental frequency.

3. The emission levels of other frequencies were very low against the limit.



EUT Test Condition		Measurement Detail			
Channel	Channel 19	Frequency Range	1 GHz ~ 25 GHz		
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)		
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Charles Hsiao		

		Antenna	Polarity &	Test Distan	ce: Horizont	tal at 3 m		
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2375.88	41.08	36.61	4.47	54	-12.92	290	196	Average
2375.88	51.97	47.5	4.47	74	-22.03	290	196	Peak
2440	95.11	90.52	4.59			290	196	Average
2440	96.06	91.47	4.59			290	196	Peak
2486.92	41.56	36.9	4.66	54	-12.44	290	196	Average
2486.92	51.79	47.13	4.66	74	-22.21	290	196	Peak
4880	41.94	31.73	10.21	54	-12.06	146	195	Average
4880	48.68	38.47	10.21	74	-25.32	146	195	Peak
		Antenna	a Polarity 8	Test Dista	nce: Vertica	l at 3 m		
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2382	41.14	36.67	4.47	54	-12.86	103	102	Average
0000	= 4 4 4	10.07	4.47	74	00.50	100	400	D -

2382	41.14	36.67	4.47	54	-12.86	103	102	Average
2382	51.44	46.97	4.47	74	-22.56	103	102	Peak
2440	92.36	87.77	4.59			103	102	Average
2440	93.26	88.67	4.59			103	102	Peak
2498.88	41.46	36.79	4.67	54	-12.54	103	102	Average
2498.88	51.76	47.09	4.67	74	-22.24	103	102	Peak
4880	41.98	31.77	10.21	54	-12.02	115	245	Average
4880	48.52	38.31	10.21	74	-25.48	115	245	Peak

1. Emission Level = Read Level + Factor

Margin value = Emission level – Limit value

- 2. 2440 MHz: Fundamental frequency.
- 3. The emission levels of other frequencies were very low against the limit.



EUT Test Condition		Measurement Detail			
Channel	Channel 39	Frequency Range	1 GHz ~ 25 GHz		
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)		
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Charles Hsiao		

	Antenna Polarity & Test Distance: Horizontal at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark	
2480	96.67	92.03	4.64			290	196	Average	
2480	97.16	92.52	4.64			290	196	Peak	
2495.72	41.31	36.64	4.67	54	-12.69	290	196	Average	
2495.72	52.25	47.58	4.67	74	-21.75	290	196	Peak	
4960	42.27	31.91	10.36	54	-11.73	144	174	Average	
4960	48.33	37.97	10.36	74	-25.67	144	174	Peak	
		Antenn	a Polarity &	Test Dista	nce: Vertica	l at 3 m			
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark	
2480	93.54	88.9	4.64			103	102	Average	
2480	94.66	90.02	4.64			103	102	Peak	
2487.12	41.43	36.77	4.66	54	-12.57	103	102	Average	
2487.12	52.17	47.51	4.66	74	-21.83	103	102	Peak	
4960	42.22	31.86	10.36	54	-11.78	164	226	Average	
4960	47.47	37.11	10.36	74	-26.53	164	226	Peak	

 Emission Level = Read Level + Factor Margin value = Emission level – Limit value

2. 2480 MHz: Fundamental frequency.

3. The emission levels of other frequencies were very low against the limit.



<LE 5.0>

EUT Test Condition		Measurement Detail			
Channel	Channel 0	Frequency Range	1 GHz ~ 25 GHz		
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)		
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Charles Hsiao		

		Antenna	Polarity &	Test Distan	ce: Horizont	al at 3 m		
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2386.77	40.9	36.41	4.49	54	-13.1	290	196	Average
2386.77	52.39	47.9	4.49	74	-21.61	290	196	Peak
2402	95.26	90.74	4.52			290	196	Average
2402	96.13	91.61	4.52			290	196	Peak
4804	41.99	31.64	10.35	54	-12.01	195	56	Average
4804	48.82	38.47	10.35	74	-25.18	195	56	Peak
		Antenn	a Polarity 8	Test Dista	nce: Vertica	l at 3 m		
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2355.54	40.85	36.45	4.4	54	-13.15	103	102	Average
2355.54	51.54	47.14	4.4	74	-22.46	103	102	Peak
2402	91.41	86.89	4.52			103	102	Average
2402	92.73	88.21	4.52			103	102	Peak
4804	42.1	31.75	10.35	54	-11.9	164	44	Average
4804	48.79	38.44	10.35	74	-25.21	164	44	Peak

- Emission Level = Read Level + Factor Margin value = Emission level – Limit value
- 2. 2402 MHz: Fundamental frequency.
- 3. The emission levels of other frequencies were very low against the limit.



EUT Test Condition		Measurement Detail			
Channel	Channel 19	Frequency Range	1 GHz ~ 25 GHz		
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)		
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Charles Hsiao		

	Antenna Polarity & Test Distance: Horizontal at 3 m									
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark		
2374.53	40.84	36.39	4.45	54	-13.16	290	196	Average		
2374.53	51.02	46.57	4.45	74	-22.98	290	196	Peak		
2440	94.67	90.08	4.59			290	196	Average		
2440	95.62	91.03	4.59			290	196	Peak		
2490.12	41.52	36.84	4.68	54	-12.48	290	196	Average		
2490.12	52.76	48.08	4.68	74	-21.24	290	196	Peak		
4880	41.72	31.51	10.21	54	-12.28	124	205	Average		
4880	48.25	38.04	10.21	74	-25.75	124	205	Peak		
		Antenn	a Polarity &	Test Dista	nce: Vertica	l at 3 m				
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark		
2384.52	40.82	36.35	4.47	54	-13.18	103	102	Average		
2384.52	51.52	47.05	4.47	74	-22.48	103	102	Peak		
2440	90.58	85.99	4.59			103	102	Average		
2440	91.48	86.89	4.59			103	102	Peak		
2495.96	41.51	36.84	4.67	54	-12.49	103	102	Average		
2495.96	52.43	47.76	4.67	74	-21.57	103	102	Peak		
4880	41.77	31.56	10.21	54	-12.23	134	208	Average		

74

-24.24

134

208

Peak

4880 Remarks:

1. Emission Level = Read Level + Factor

Margin value = Emission level – Limit value

39.55

2. 2440 MHz: Fundamental frequency.

49.76

3. The emission levels of other frequencies were very low against the limit.

10.21



EUT Test Condition		Measurement Detail			
Channel	Channel 39	Frequency Range	1 GHz ~ 25 GHz		
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)		
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Charles Hsiao		

	Antenna Polarity & Test Distance: Horizontal at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark	
2480	95.58	90.94	4.64			290	196	Average	
2480	96.71	92.07	4.64			290	196	Peak	
2495.08	41.5	36.83	4.67	54	-12.5	290	196	Average	
2495.08	52.59	47.92	4.67	74	-21.41	290	196	Peak	
4960	42.21	31.85	10.36	54	-11.79	195	289	Average	
4960	48.48	38.12	10.36	74	-25.52	195	289	Peak	
		Antenn	a Polarity &	Test Dista	nce: Vertica	l at 3 m			
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark	
2480	91.37	86.73	4.64			103	102	Average	
2480	92.21	87.57	4.64			103	102	Peak	
2486.68	41.5	36.84	4.66	54	-12.5	103	102	Average	
2486.68	52.06	47.4	4.66	74	-21.94	103	102	Peak	
4960	42.13	31.77	10.36	54	-11.87	133	328	Average	
4960	47.95	37.59	10.36	74	-26.05	133	328	Peak	

 Emission Level = Read Level + Factor Margin value = Emission level – Limit value

2. 2480 MHz: Fundamental frequency.

3. The emission levels of other frequencies were very low against the limit.



9 kHz ~ 30 MHz Data:

The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.

30 MHz ~ 1 GHz Worst-Case Data:

<LE 4.0>

EUT Test Condition		Measurement Detail			
Channel	Channel 39	Frequency Range	30 MHz ~ 1 GHz		
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Quasi-peak (QP)		
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Karl Lee		

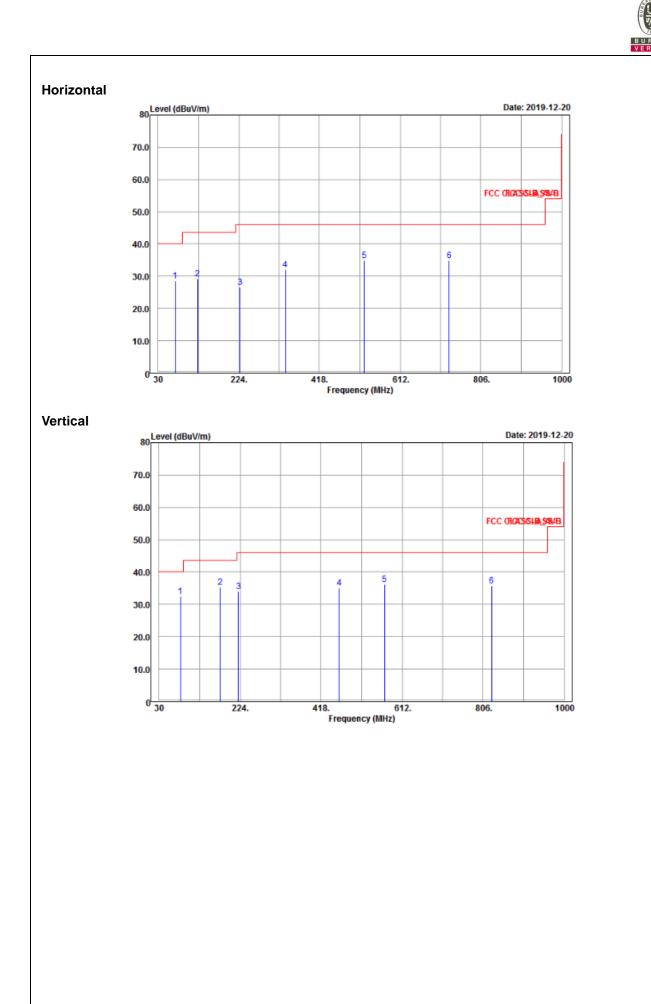
		Antenna	Polarity &	Test Distan	ce: Horizon	tal at 3 m		
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
71.31	28.66	48.87	-20.21	40	-11.34	171	341	Peak
125.31	29.21	49.18	-19.97	43.5	-14.29	155	205	Peak
227.37	26.61	44.14	-17.53	46	-19.39	125	73	Peak
335.7	32.01	47.12	-15.11	46	-13.99	188	253	Peak
525.4	34.97	46.93	-11.96	46	-11.03	132	160	Peak
729.8	34.97	43.64	-8.67	46	-11.03	102	353	Peak
		Antenn	a Polarity 8	Test Dista	nce: Vertica	l at 3 m		
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
81.03	32.5	53.66	-21.16	40	-7.5	120	314	Peak
176.61	35.25	55.15	-19.9	43.5	-8.25	192	224	Peak
219.81	34	51.85	-17.85	46	-12	138	107	Peak
461.7	35.05	48.16	-13.11	46	-10.95	121	84	Peak
570.2	36.13	47.27	-11.14	46	-9.87	134	108	Peak
826.4	35.78	42.98	-7.2	46	-10.22	167	119	Peak

Remarks:

1. Emission Level = Read Level + Factor

Margin value = Emission level – Limit value

2. The emission levels of other frequencies were very low against the limit.



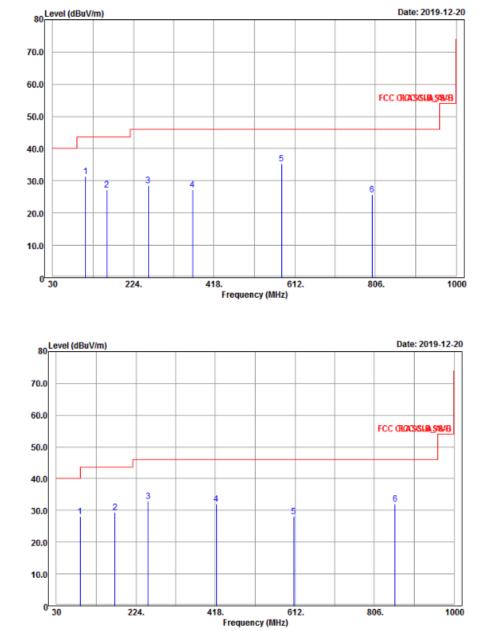


<LE 5.0>

EUT Test Condition		Measurement Detail			
Channel	Channel 39	Frequency Range	30 MHz ~ 1 GHz		
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Quasi-peak (QP)		
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Karl Lee		

Horizontal

Vertical





		Antenna	Polarity & 1	Test Distan	ce: Horizont	tal at 3 m		
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
108.84	31.34	48.8	-17.46	43.5	-12.16	126	229	Peak
160.41	27.15	47.74	-20.59	43.5	-16.35	180	215	Peak
259.77	28.55	45.23	-16.68	46	-17.45	133	84	Peak
365.8	27.35	41.82	-14.47	46	-18.65	105	67	Peak
580	35.26	46.18	-10.92	46	-10.74	182	268	Peak
798.4	25.63	33.26	-7.63	46	-20.37	172	154	Peak
		Antenn	a Polarity &	Test Dista	nce: Vertica	l at 3 m		
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
87.51	28.07	47.89	-19.82	40	-11.93	138	231	Peak
173.37	29.51	49.6	-20.09	43.5	-13.99	158	124	Peak
253.83	32.81	49.59	-16.78	46	-13.19	168	179	Peak
419.7	32.13	45.67	-13.54	46	-13.87	175	134	Peak
608.7	28.23	38.7	-10.47	46	-17.77	190	352	Peak
856.5	32.15	38.8	-6.65	46	-13.85	112	50	Peak

1. Emission Level = Read Level + Factor

Margin value = Emission level – Limit value

2. The emission levels of other frequencies were very low against the limit.



4.2 Conducted Emission Measurement

4.2.1 Limits of Conducted Emission Measurement

	Conducted Limit (dBuV)					
Frequency (MHz)	Quasi-Peak	Average				
0.15 - 0.5	66 - 56	56 - 46				
0.50 - 5.0	56	46				
5.0 - 30.0	60	50				

Note: 1. The lower limit shall apply at the transition frequencies.

2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.

4.2.2 Test Instruments

Description & Manufacturer	· Model No. Serial No.		Date of Calibration	Due Date of Calibration
Test Receiver ROHDE & SCHWARZ	ESCI	100613	Dec. 14, 2018	Dec. 13, 2019
RF signal cable (with 10dB PAD) Woken	5D-FB	Cable-cond1-01	Sep. 05, 2019	Sep. 04, 2020
LISN/AMN ROHDE & SCHWARZ (EUT)	ESH3-Z5	835239/001	Mar. 17, 2019	Mar. 16, 2020
LISN/AMN ROHDE & SCHWARZ (Peripheral)	ENV216	101196	Apr. 16, 2019	Apr. 15, 2020
Software ADT	BV ADT_Cond_ V7.3.7.3	NA	NA	NA

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

- 2. The test was performed in HwaYa Shielded Room 1.
- 3. The VCCI Site Registration No. is C-12040.

4.2.3 Test Procedures

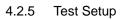
- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/50 uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150 kHz to 30 MHz was searched. Emission levels under (Limit 20 dB) was not recorded.

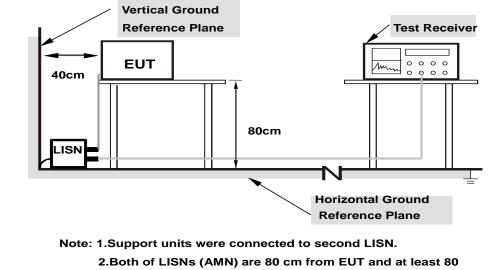
Note: The resolution bandwidth and video bandwidth of test receiver is 9 kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15 MHz - 30 MHz.

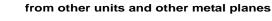


4.2.4 Deviation from Test Standard

No deviation.







- 4.2.6 EUT Operating Conditions
- a. Placed the EUT on the testing table.
- b. Set the EUT under transmission condition continuously at specific channel frequency.

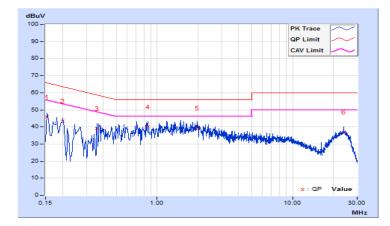


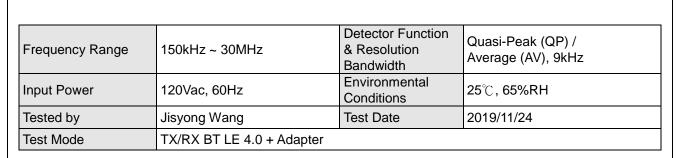
4.2.7 Test Results

Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9kHz
Input Power	120Vac, 60Hz	Environmental Conditions	25℃, 65%RH
Tested by	Jisyong Wang	Test Date	2019/11/24
Test Mode	TX/RX BT LE 4.0 + Adapter		

	Phase Of Power : Line (L)											
	Frequency	Correction	Readin	g Value	Emissic	on Level	Lir	nit	Margin			
No		Factor	(dB	uV)	(dB	uV)	(dB	uV)	(d	B)		
	(MHz)	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.		
1	0.15400	9.67	35.99	28.77	45.66	38.44	65.78	55.78	-20.12	-17.34		
2	0.20200	9.66	33.70	27.97	43.36	37.63	63.53	53.53	-20.17	-15.90		
3	0.36161	9.68	29.49	25.75	39.17	35.43	58.69	48.69	-19.52	-13.26		
4	0.85800	9.72	30.36	23.00	40.08	32.72	56.00	46.00	-15.92	-13.28		
5	1.96600	9.78	29.65	25.37	39.43	35.15	56.00	46.00	-16.57	-10.85		
6	23.85800	10.00	27.13	23.15	37.13	33.15	60.00	50.00	-22.87	-16.85		

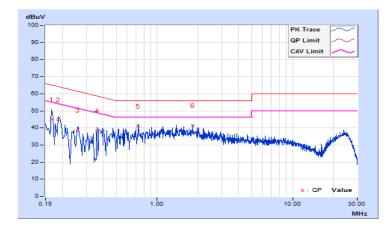
- 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2. The emission levels of other frequencies were very low against the limit.
- 3. Margin value = Emission level Limit value
- 4. Correction factor = Insertion loss + Cable loss
- 5. Emission Level = Correction Factor + Reading Value

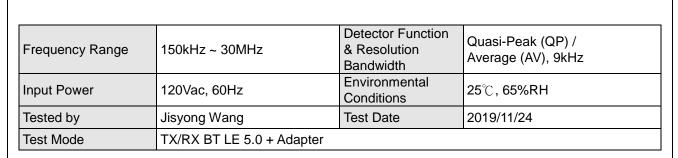




	Phase Of Power : Neutral (N)											
	Frequency	Correction		Reading Value		on Level		nit	Margin			
No		Factor	(dB	uV)	(dB	uV)	(dB	uV)	(d	B)		
	(MHz)	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.		
1	0.16579	9.64	35.32	31.73	44.96	41.37	65.17	55.17	-20.21	-13.80		
2	0.18600	9.64	35.05	31.56	44.69	41.20	64.21	54.21	-19.52	-13.01		
3	0.25742	9.65	28.97	22.02	38.62	31.67	61.51	51.51	-22.89	-19.84		
4	0.36200	9.66	28.58	24.23	38.24	33.89	58.68	48.68	-20.44	-14.79		
5	0.72600	9.68	31.28	28.95	40.96	38.63	56.00	46.00	-15.04	-7.37		
6	1.83000	9.74	31.72	27.04	41.46	36.78	56.00	46.00	-14.54	-9.22		

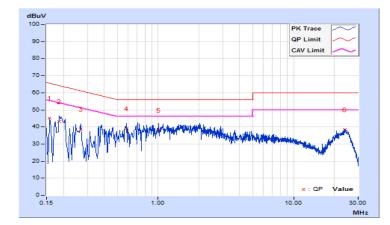
- 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2. The emission levels of other frequencies were very low against the limit.
- 3. Margin value = Emission level Limit value
- 4. Correction factor = Insertion loss + Cable loss
- 5. Emission Level = Correction Factor + Reading Value

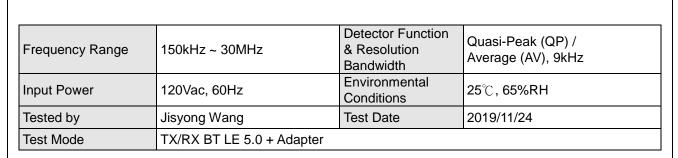




	Phase Of Power : Line (L)											
	Frequency	Correction	Reading Value			on Level		nit				
No		Factor	(dB	uV)	(dB	uV)	(dB	uV)	(d	B)		
	(MHz)	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.		
1	0.15800	9.67	35.34	31.64	45.01	41.31	65.57	55.57	-20.56	-14.26		
2	0.18600	9.66	33.31	29.17	42.97	38.83	64.21	54.21	-21.24	-15.38		
3	0.26992	9.67	29.07	25.45	38.74	35.12	61.12	51.12	-22.38	-16.00		
4	0.58600	9.70	29.44	24.43	39.14	34.13	56.00	46.00	-16.86	-11.87		
5	1.01400	9.73	28.45	25.08	38.18	34.81	56.00	46.00	-17.82	-11.19		
6	23.85400	10.00	28.51	24.97	38.51	34.97	60.00	50.00	-21.49	-15.03		

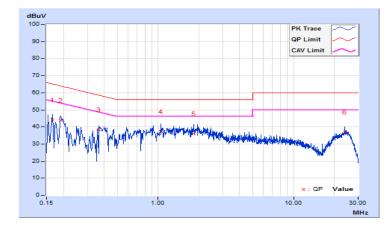
- 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2. The emission levels of other frequencies were very low against the limit.
- 3. Margin value = Emission level Limit value
- 4. Correction factor = Insertion loss + Cable loss
- 5. Emission Level = Correction Factor + Reading Value





			Pł	hase Of P	ower : Ne	utral (N)				
	Frequency	Correction		Reading Value		on Level		nit	Margin	
No		Factor	(dB	uV)	(dB	uV)	(dB	uV)	(d	B)
	(MHz)	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16600	9.64	34.63	29.29	44.27	38.93	65.16	55.16	-20.89	-16.23
2	0.19000	9.64	34.08	29.66	43.72	39.30	64.04	54.04	-20.32	-14.74
3	0.36600	9.66	28.67	25.76	38.33	35.42	58.59	48.59	-20.26	-13.17
4	1.05400	9.70	27.64	25.40	37.34	35.10	56.00	46.00	-18.66	-10.90
5	1.83400	9.74	26.43	23.17	36.17	32.91	56.00	46.00	-19.83	-13.09
6	23.85000	10.08	27.06	22.99	37.14	33.07	60.00	50.00	-22.86	-16.93

- 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2. The emission levels of other frequencies were very low against the limit.
- 3. Margin value = Emission level Limit value
- 4. Correction factor = Insertion loss + Cable loss
- 5. Emission Level = Correction Factor + Reading Value



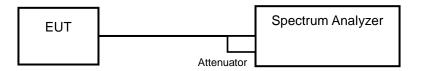


4.3 6 dB Bandwidth Measurement

4.3.1 Limits of 6 dB Bandwidth Measurement

The minimum of 6 dB Bandwidth Measurement is 0.5 MHz.

4.3.2 Test Setup



4.3.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.3.4 Test Procedure

- a. Set resolution bandwidth (RBW) = 100 kHz
- b. Set the video bandwidth (VBW) \ge 3 x RBW, Detector = Peak.
- c. Trace mode = max hold.
- d. Sweep = auto couple.
- e. Measure the maximum width of the emission that is constrained by the frequencies associated with the two amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission

4.3.5 Deviation from Test Standard

No deviation.

4.3.6 EUT Operating Conditions

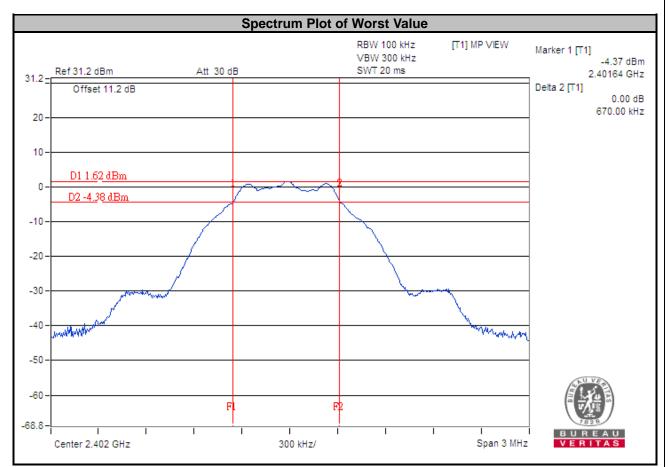
The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.



4.3.7 Test Results

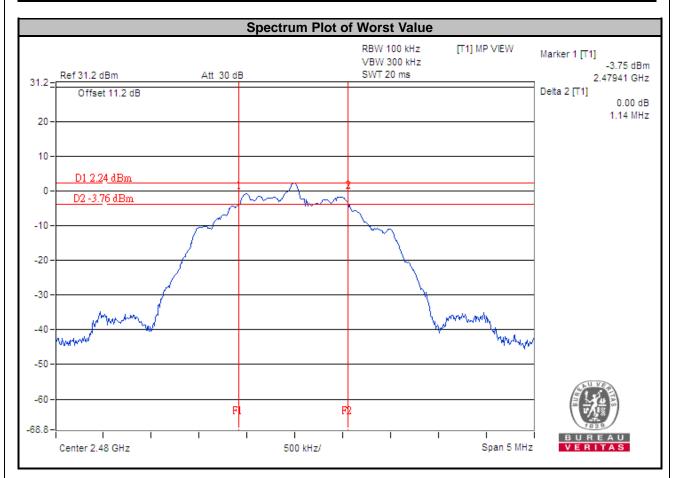
<LE 4.0>

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
0	2402	0.67	0.5	Pass
19	2440	0.67	0.5	Pass
39	2480	0.67	0.5	Pass





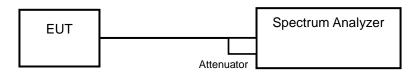
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
0	2402	1.15	0.5	Pass
19	2440	1.15	0.5	Pass
39	2480	1.14	0.5	Pass





4.4 Occupied Bandwidth Measurement

4.4.1 Test Setup



4.4.2 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.4.3 Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with resolution bandwidth in the range of 1 % to 5 % of the anticipated emission bandwidth, and a video bandwidth at least 3x the resolution bandwidth and set the detector to sampling. The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 % of the total mean power of a given emission.

4.4.4 Deviation from Test Standard

No deviation.

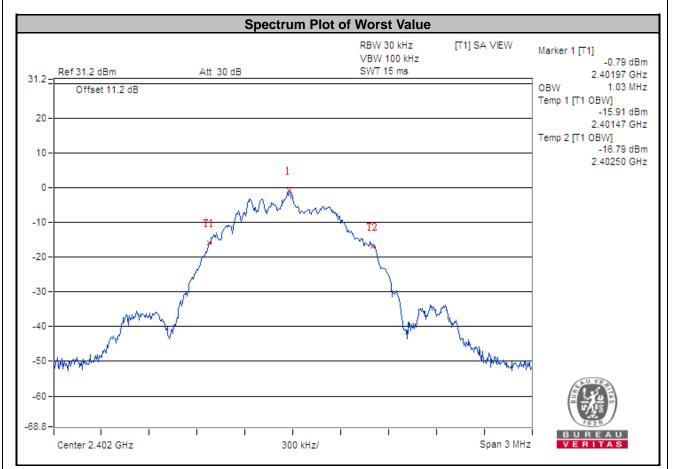
4.4.5 EUT Operating Conditions



4.4.6 Test Results

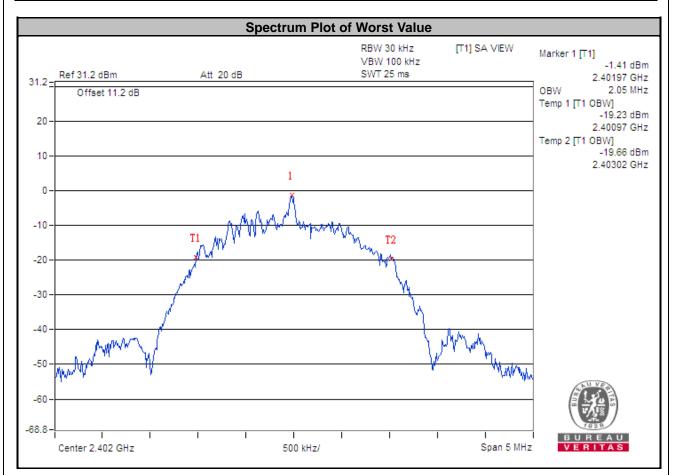
<LE 4.0>

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	Pass / Fail
0	2402	1.03	Pass
19	2440	1.03	Pass
39	2480	1.03	Pass





Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	Pass / Fail
0	2402	2.05	Pass
19	2440	2.05	Pass
39	2480	2.06	Pass



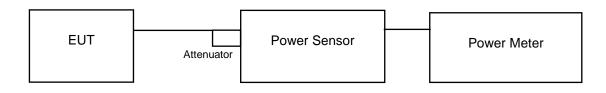


4.5 Conducted Output Power Measurement

4.5.1 Limits of Conducted Output Power Measurement

For systems using digital modulation in the 2400–2483.5 MHz bands: 1 Watt (30 dBm)

4.5.2 Test Setup



4.5.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.5.4 Test Procedures

A peak power sensor was used on the output port of the EUT. A power meter was used to read the response of the peak power sensor. Record the power level.

4.5.5 Deviation from Test Standard

No deviation.

4.5.6 EUT Operating Conditions



4.5.7 Test Results

<LE 4.0>

Channel	Frequency (MHz)	Peak Power (mW)	Peak Power (dBm)	Limit (dBm)	Pass / Fail
0	2402	1.33	1.24	30	Pass
19	2440	1.276	1.06	30	Pass
39	2480	1.567	1.95	30	Pass

Channel	Frequency (MHz)	Peak Power (mW)	Peak Power (dBm)	Limit (dBm)	Pass / Fail
0	2402	1.641	2.15	30	Pass
19	2440	1.276	1.06	30	Pass
39	2480	1.567	1.95	30	Pass

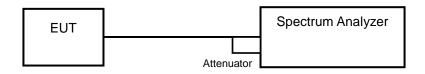


4.6 Power Spectral Density Measurement

4.6.1 Limits of Power Spectral Density Measurement

The Maximum of Power Spectral Density Measurement is 8 dBm in any 3 kHz band during any time interval of continuous transmission.

4.6.2 Test Setup



4.6.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.6.4 Test Procedure

- a. Set analyzer center frequency to DTS channel center frequency.
- b. Set the span to 1.5 times the DTS bandwidth.
- c. Set the RBW to: $3 \text{ kHz} \le \text{RBW} \le 100 \text{ kHz}$.
- d. Set the VBW \geq 3 × RBW.
- e. Detector = peak.
- f. Sweep time = auto couple.
- g. Trace mode = max hold.
- h. Allow trace to fully stabilize.
- i. Use the peak marker function to determine the maximum amplitude level within the RBW.

4.6.5 Deviation from Test Standard

No deviation.

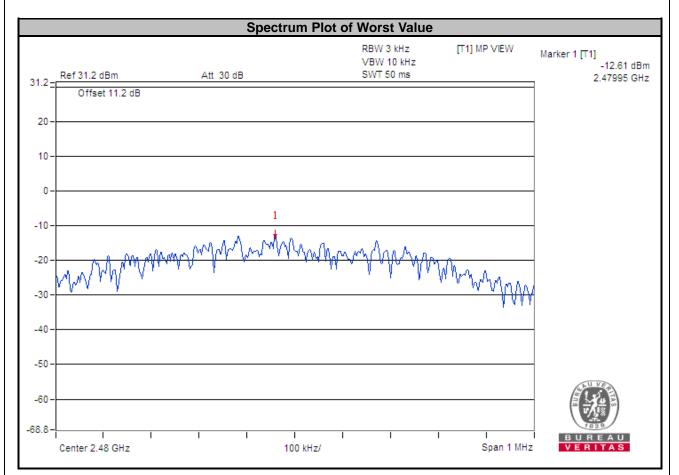
4.6.6 EUT Operating Condition



4.6.7 Test Results

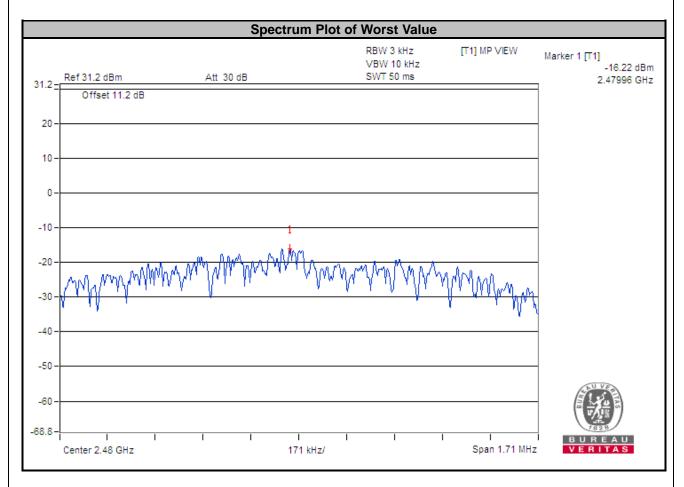
<LE 4.0>

Channel	Frequency (MHz)	PSD (dBm/3 kHz)	Limit (dBm/3 kHz)	Pass / Fail
0	2402	-13.09	8	Pass
19	2440	-13.31	8	Pass
39	2480	-12.61	8	Pass





Channel	Frequency (MHz)	PSD (dBm/3 kHz)	Limit (dBm/3 kHz)	Pass / Fail
0	2402	-16.76	8	Pass
19	2440	-16.87	8	Pass
39	2480	-16.22	8	Pass



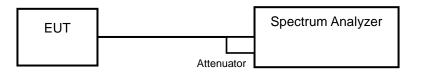


4.7 Conducted Out of Band Emission Measurement

4.7.1 Limits of Conducted Out of Band Emission Measurement

Below –20 dB of the highest emission level of operating band (in 100 kHz Resolution Bandwidth).

4.7.2 Test Setup



4.7.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.7.4 Test Procedure

MEASUREMENT PROCEDURE REF

- 1. Set the RBW = 100 kHz.
- 2. Set the VBW \geq 300 kHz.
- 3. Detector = peak.
- 4. Sweep time = auto couple.
- 5. Trace mode = max hold.
- 6. Allow trace to fully stabilize.
- 7. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.

MEASUREMENT PROCEDURE OOBE

- 1. Set RBW = 100 kHz.
- 2. Set VBW ≥ 300 kHz.
- 3. Detector = peak.
- 4. Sweep = auto couple.
- 5. Trace Mode = max hold.
- 6. Allow trace to fully stabilize.
- 7. Use the peak marker function to determine the maximum amplitude level.
- 4.7.5 Deviation from Test Standard

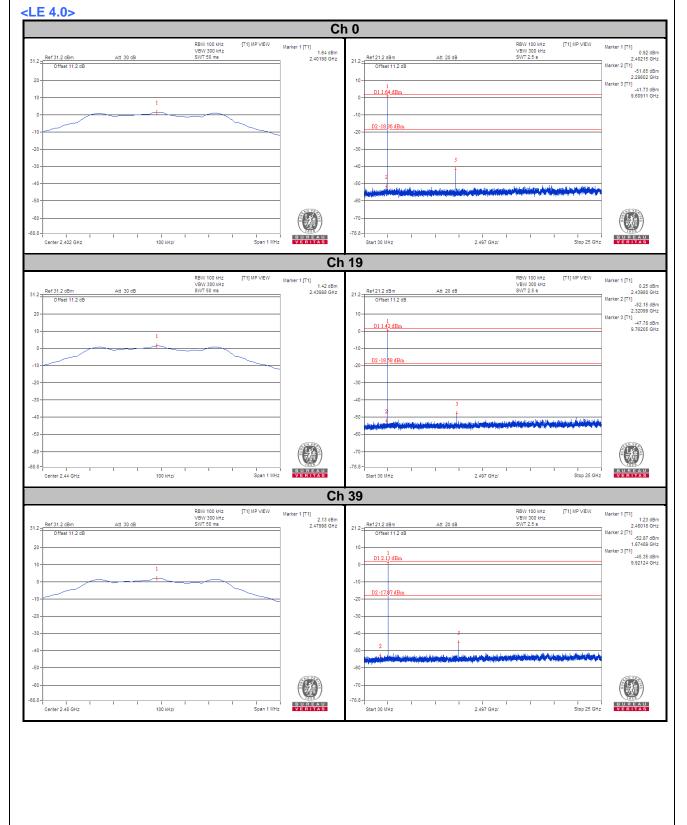
No deviation.

4.7.6 EUT Operating Condition



4.7.7 Test Results

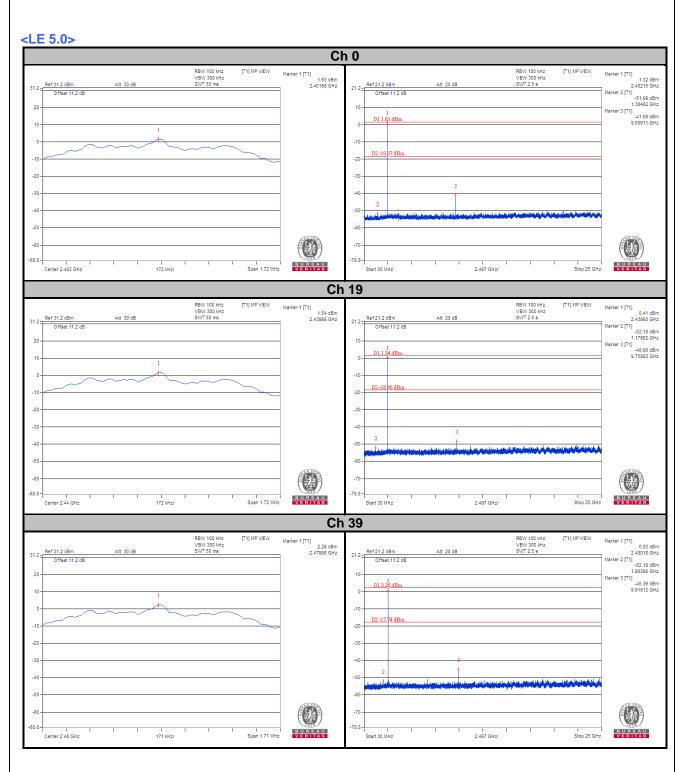
The spectrum plots are attached on the following images. D1 line indicates the highest level, D2 line indicates the 20 dB offset below D1. It shows compliance with the requirement.





Ch 0 E	Ch 0 Band Edge		Ch 39 Band Edge		
Ref 31.2 dBm Att 30 dB Offset 11.2 dB	VBW 300 kHz SWT 10 ms	Marker 1 [T1] 1.26 dBm 2.40200 GHz -45.37 dBm 2.40000 GHz Marker 3 [T1] -42.62 dBm	31.2 - Ref 31.2 dBm Att 30 dB Offset 11.2 dB 20 -	VBW 300 kHz SWT 10 ms	Marker 1 [T1] 2.00 2.48000 Marker 2 [T1] -46.29 2.48350 Marker 3 [T1] -43.26
D1 164 dBm		2.39040 GHz Marker 4 [T1] -43.86 dBm 2.39000 GHz Marker 5 [T1] -41.23 dBm 2.34040 GHz	10 - 11 213 dBm - 1 0		2.49080 Marker 4 [T1] -44.27 2.50000
5 5 narrowth transmost strategy and a strategy and	Automa unaversita		-20 -36 -40 -40		
	P2 P	BUREAU	-50	b5 La construction of the	BUREAU







Ch 0 Band Edge		Ch 39 Band Edge		
Ref 31.2 dBm Att 30 dB Offset 11.2 dB	RBW 100 kHz [T1] MP V/EW Marker 1 [T1] VBW 300 kHz 1.46 SWT 10 ms 2.40200 Marker 2 [T1]	HZ 312-Ref312.0Bm Att 30.0B SWT 10 ms 2.460 Bm Offset 11.2.0B Marker 2[T1]		
D1 1.63 dBm	2.4000 Marker 3 [T1] -37.04 2.4000 1 Marker 4 [T1] -42.42	20 Marker 3 [T1] -43, Mr 10 2468 -47, Bm DI 226 4Bm -43, Marker 4 [T1]		
D2 -18,37 dBm	2.39000 Marker 5 [71] 2.37100	Bm		
5		-20		
analogi sentut Malapatron salah ni pangkat pananananan.	anna hannar thata tha	50		
Center 2.38 GHz 10 MHz/	Soan 100 MHz	-60- P P P -68.8		



5 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo).



Appendix – Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

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The address and road map of all our labs can be found in our web site also.

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