

Partial FCC Test Report

Report No.: RFBBPL-WTW-P20120324

FCC ID: WR3MOD16370915

Test Model: MOD-16370-915

Received Date: Oct. 14, 2019

Test Date: Jan. 11, 2021 ~ Jan. 26, 2021

Issued Date: Jan. 28, 2021

Applicant: OMEGA Engineering, Inc.

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Manufacturer: Fitivision Technology Inc.

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City, Taiwan (R.O.C)

Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch

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FCC Registration / 788550 / TW0003

Designation Number:





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Release Control Record

Issue No.	Description	Date Issued
RFBBPL-WTW-P20120324	Original Release	Jan. 28, 2021



Certificate of Conformity 1

Product: Sub-1G Module

Brand: OMEGA

Test Model: MOD-16370-915

Sample Status: Engineering sample

Applicant: OMEGA Engineering, Inc.

Test Date: Jan. 11, 2021 ~ Jan. 26, 2021

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.

Prepared by:

Shelly Hsueh / Specialist,

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 -27.25dB at 0.19003MHz.				
15.247(a)(1) (i)	Number of Hopping Frequency Used	Pass	Refer to Note				
15.247(a)(1) (i)	Dwell Time on Each Channel	Pass	Refer to Note				
15.247(a)(1) (i)	Hopping Channel Separation Spectrum Bandwidth of a Frequency Hopping Sequence Spread Spectrum System	Pass	Refer to Note				
15.247(b)(2)	Maximum Peak Output Power	Pass	Meet the requirement of limit.				
15.205 & 209 & 15.247(d)	Radiated Emissions & Band Edge Measurement	Pass	Meet the requirement of limit. Minimum passing margin is -11.4dB at 42.61MHz.				
15.247(d)	Antenna Port Emission	Pass	Meet the requirement of limit.				
15.203	Antenna Requirement	Pass	 Antenna 1 connector is SMA. Antenna 2 connector is N-Female. Antenna 3 connector is N-Female. Antenna 4 connector is N Female. (*Antenna 1~4 connecter are professionally installed.) Antenna 5 connector is RP-SMA not a standard connector. Antenna 6 connector is IPEX MHF1 not a standard connector. 				

Note:

- 1. This report is a partial report, only test item of AC Power Conducted Emission, Maximum Peak Output Power and Radiated Emissions tests were performed for this report. Other testing data please refer to BV CPS report no.: RF191014C04..
- 2. 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period.
- 3. 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	150kHz ~ 30MHz	2.94 dB
	9kHz ~ 30MHz	3.04 dB
Radiated Emissions up to 1 GHz	30MHz ~ 200MHz	3.59 dB
	200MHz ~1000MHz	3.60 dB
Radiated Emissions above 1 GHz	1GHz ~ 18GHz	2.29 dB
Radiated Emissions above 1 GHZ	18GHz ~ 40GHz	2.29 dB



2.2 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	Sub-1G Module
Brand	OMEGA
Test Model	MOD-16370-915
Sample Status	Engineering sample
Power Supply Rating	3.3Vdc (for host equipment)
Modulation Type	2-GFSK
Operating Frequency	902.4 ~ 927.6MHz
Number of Channel	127
Output Power	242.661mW
Antenna Type	Refer to note
Antenna Connector	Refer to note
Accessory Device	N/A
Cable Supplied	N/A

Note:

 This report is prepared for FCC class II permissive change. This report is issued as a supplementary report to BV CPS report no. RF191014C04. The difference compared with original report are adding digital connector, external antennal, and module internal IC component (Flash Memory IC, brand: MXIC, model: MX25R8035F).

2. The following antennas were provided to the EUT. (New antenna is marked in Blue.)

No.	Antenna Type	Model	Connector	Gain (dBi)
1	Rubber Duck Antenna	HG905RD-RSP	SMA	5
2	Omnidirectional Antenna	HG908U-PRO	N-Female	8
3	Heavy Duty Flat Panel Antenna	HG8909P	N-Female	9
4	Yagi Antenna	HG912YE	N Female	12
5	Omnidirectional Antenna	RFDPA171300SBRB804	RP-SMA	2
6	Print Dipole	U.FL (UMCC)	IPEX MHF1	0

^{*} Test with this new antenna No. 6



3.2 Description of Test Modes

127 channels are provided to this EUT:

Channel	Freq. (MHz)						
1	902.4	33	908.8	65	915.2	97	921.6
2	902.6	34	909.0	66	915.4	98	921.8
3	902.8	35	909.2	67	915.6	99	922.0
4	903.0	36	909.4	68	915.8	100	922.2
5	903.2	37	909.6	69	916.0	101	922.4
6	903.4	38	909.8	70	916.2	102	922.6
7	903.6	39	910.0	71	916.4	103	922.8
8	903.8	40	910.2	72	916.6	104	923.0
9	904.0	41	910.4	73	916.8	105	923.2
10	904.2	42	910.6	74	917.0	106	923.4
11	904.4	43	910.8	75	917.2	107	923.6
12	904.6	44	911.0	66	917.4	108	923.8
13	904.8	45	911.2	77	917.6	109	924.0
14	905.0	46	911.4	78	917.8	110	924.2
15	905.2	47	911.6	79	918.0	111	924.4
16	905.4	48	911.8	80	918.2	112	924.6
17	905.6	49	912.0	81	918.4	113	924.8
18	905.8	50	912.2	82	918.6	114	925.0
19	906.0	51	912.4	83	918.8	115	925.2
20	906.2	52	912.6	84	919.0	116	925.4
21	906.4	53	912.8	85	919.2	117	925.6
22	906.6	54	913.0	86	919.4	118	925.8
23	906.8	55	913.2	87	919.6	119	926.0
24	907.0	56	913.4	88	919.8	120	926.2
25	907.2	57	913.6	89	920.0	121	926.4
26	907.4	58	913.8	90	920.2	122	926.6
27	907.6	59	914.0	91	920.4	123	926.8
28	907.8	60	914.2	92	920.6	124	927.0
29	908.0	61	914.4	93	920.8	125	927.2
30	908.2	62	914.6	94	921.0	126	927.4
31	908.4	63	914.8	95	921.2	127	927.6
32	908.6	64	915.0	96	921.4		



3.2.1 Test Mode Applicability and Tested Channel Detail

EUT Configure		Applic	able to		Paradiation.
Mode	RE≥1G	RE<1G	PLC	APCM	Description
-	√	√	√	√	EUT with antenna 6

Where RE≥1G: Radiated Emission above 1GHz & Bandedge

RE<1G: Radiated Emission below 1GHz

Measurement

PLC: Power Line Conducted Emission

APCM: Antenna Port Conducted Measurement

Note:

1. The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on **Z-plane.**

2. "-"means no effect.

Radiated Emission Test (Above 1GHz):

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
-	1 to 127	1, 64, 127	2-GFSK

Radiated Emission Test (Below 1GHz):

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
	-	1 to 127	1, 64, 127	2-GFSK

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
	-	1 to 127	127	2-GFSK

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
-	1 to 127	1, 64, 127	2-GFSK

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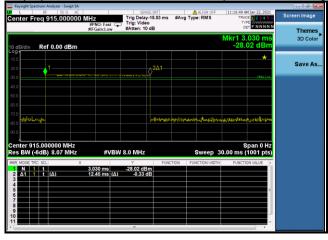


Test Condition:

Applicable to	Environmental Conditions	Input Power (System)	Tested by
RE≥1G	RE≥1G 22 deg. C, 68% RH		Greg Lin
RE<1G	RE<1G 22 deg. C, 68% RH		Greg Lin
PLC	PLC 25 deg. C, 75% RH		Rex Wang
APCM	APCM 25 deg. C, 60% RH		Ted Chang

3.3 Duty Cycle of Test Signal

Duty cycle = 12.45/100 = 0.1245, Duty factor = 20 * log (0.1245) = -18.10





3.4 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

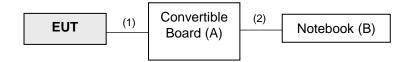
ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	Convertible Board	NA	NA	NA	NA	Provided by client
B.	Notebook	ASUS	X571G	L1N0CX01741801A	PD99560NG	-

Note:

- 1. All power cords of the above support units are non-shielded (1.8m).
- 2. Item B acted as a communication partner to transfer data.

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	Console cable	1	0.15	N	0	Provided by client
2.	Micro USB cable	1	1	N	0	-

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.

Remote site



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 20dB 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 1000MHz, 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 20dB under any condition of modulation.

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4.1.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver KEYSIGHT	N9038A	MY55420137	Apr. 16, 2020	Apr. 15, 2021
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100039	Jun. 12, 2020	Jun. 11, 2021
BILOG Antenna SCHWARZBECK	VULB9168	9168-160	Nov. 06, 2020	Nov. 05, 2021
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-1169	Nov. 22, 2020	Nov. 21, 2021
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170241	Nov. 22, 2020	Nov. 21, 2021
Loop Antenna EMCI	EM-6879	269	Sep. 17, 2020	Sep. 16, 2021
Loop Antenna TESEQ	HLA 6121	45745	Jul. 06, 2020	Jul. 05, 2021
Preamplifier Agilent (Below 1GHz)	8447D	2944A10638	Jun. 08, 2020	Jun. 07, 2021
Preamplifier Agilent (Above 1GHz)	8449B	3008A02367	Feb. 18, 2020	Feb. 17, 2021
RF signal cable	SUCOFLEX 104 &	.EX 104 & CABLE-CH9-02		Jan. 18, 2021
HUBER+SUHNER&EMCI	EMC104-SM-SM8000	(248780+171006)	Jan. 18, 2021	Jan. 17, 2022
RF signal cable	SUCOFLEX 104	CABLE-CH9-	Jul. 11, 2019	Jul. 10, 2020
HUBER+SUHNER	SUCUPLEX 104	(250795/4)	Jan. 18, 2021	Jan. 17, 2022
RF signal cable Woken	8D-FB	Cable-CH9-01	Jun. 08, 2020	Jun. 07, 2021
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	NA	NA	NA
Antenna Tower EMCO	2070/2080	512.835.4684	NA	NA
Turn Table EMCO	2087-2.03	NA	NA	NA
Antenna Tower &Turn BV ADT	AT100	AT93021705	NA	NA
Turn Table BV ADT	TT100	TT93021705	NA	NA
Turn Table Controller BV ADT	SC100	SC93021705	NA	NA
Boresight Antenna Fixture	FBA-01	FBA-SIP01	NA	NA
USB Wideband Power Sensor KEYSIGHT	U2021XA	MY55050005/MY551 90004/MY55190007/ MY55210005	Jul. 13, 2020	Jul. 12, 2021

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 Chamber 9.



4.1.3 Test Procedures

For Radiated emission below 30MHz

- 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 9kHz at frequency below 30MHz.

For Radiated emission above 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters (for 30MHz ~ 1GHz) / 1.5 meters (for above 1GHz) 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 detect 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 120kHz for Quasipeak detection (QP) at frequency below 1GHz.
- 2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz. For fundamental and harmonic signal measurement, according to ANSI C63.10 section 7.5, the average value = peak value + duty cycle correction factor. The duty cycle correction factor refer to Chapter 3.3 of this report.
- 3. All modes of operation were investigated and the worst-case emissions are reported.

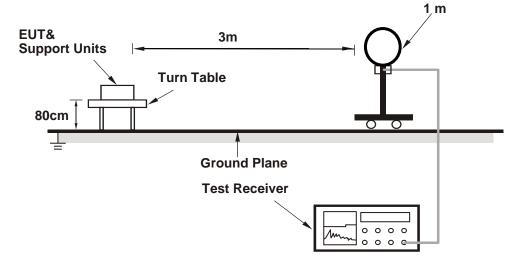
4.1.4 Deviation from Test Standard

No deviation.

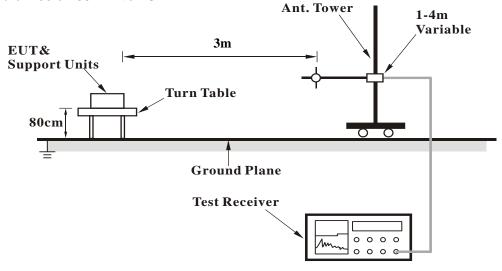


4.1.5 Test Setup

For Radiated emission below 30MHz

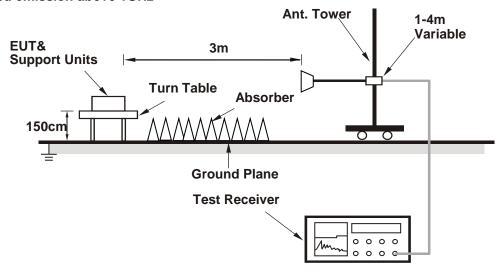


For Radiated emission 30MHz to 1GHz





For Radiated emission above 1GHz



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

4.1.6 EUT Operating Conditions

a. Set the EUT under transmission condition continuously at specific channel frequency.



4.1.7 Test Results

CHANNEL	TX Channel 1	DETECTOR	Ougai Book (OB)
FREQUENCY RANGE	902.4MHz ~ 927.6MHz	FUNCTION	Quasi-Peak (QP)

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)	
1	#902.00	66.2 QP	98.4	-32.2	1.00 H	173	34.6	31.6	
2	*902.40	118.4 QP			1.00 H	173	86.7	31.7	
		ANTEN	NA POLARIT	Y & TEST DI	STANCE: VE	RTICAL AT	3 M		
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)	
1	#902.00	60.3 QP	92.0	-31.7	1.00 V	252	28.7	31.6	
2	*902.40	112.0 QP			1.00 V	252	80.3	31.7	

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB).
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission Level Limit value.
- 5. " * ": Fundamental frequency.
- 6. " # ": The radiated frequency is out of the restricted band.



CHANNEL	TX Channel 64	DETECTOR	Ougai Book (OD)
FREQUENCY RANGE	902.4MHz ~ 927.6MHz	FUNCTION	Quasi-Peak (QP)

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)	
1	*915.00	118.4 QP			1.01 H	175	86.4	32.0	
		ANTEN	NA POLARIT	Y & TEST DI	STANCE: VE	RTICAL AT	3 M		
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)	
1	*915.00	112.3 QP			1.00 V	251	80.3	32.0	

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB).
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission Level Limit value.
- 5. " * ": Fundamental frequency.



CHANNEL	TX Channel 127	DETECTOR	Ougai Book (OD)
FREQUENCY RANGE	902.4MHz ~ 927.6MHz	FUNCTION	Quasi-Peak (QP)

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*927.60	118.5 QP			1.00 H	175	86.4	32.1
2	#928.00	67.5 QP	98.5	-31.0	1.00 H	175	35.4	32.1
		ANTENI	NA POLARIT	Y & TEST DI	STANCE: VE	RTICAL AT	3 M	
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*927.60	113.2 QP			1.00 V	251	81.1	32.1
2	#928.00	66.2 QP	93.2	-27.0	1.00 V	251	34.1	32.1

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB).
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission Level Limit value.
- 5. " * ": Fundamental frequency.
- 6. " # ": The radiated frequency is out of the restricted band.



Above 1GHz Data

CHANNEL	TX Channel 1	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 10GHz	FUNCTION	Average (AV)

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#2707.20	57.6 PK	74.0	-16.4	1.29 H	195	60.5	-2.9
2	#2707.20	39.5 AV	54.0	-14.5	1.29 H	195	42.4	-2.9
		ANTENI	NA POLARIT	Y & TEST DI	STANCE: VE	RTICAL AT	3 M	
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#2707.20	56.9 PK	74.0	-17.1	1.55 V	350	59.8	-2.9
2	#2707.20	38.8 AV	54.0	-15.2	1.55 V	350	41.7	-2.9

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
- $2. \ Correction \ Factor(dB/m) = Antenna \ Factor(dB/m) + Cable \ Factor(dB) Pre-Amplifier \ Factor(dB).$
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission Level Limit value.
- 5. " # ": The radiated frequency is out of the restricted band.



CHANNEL	TX Channel 64	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 10GHz	FUNCTION	Average (AV)

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#2745.00	51.6 PK	74.0	-22.4	1.52 H	190	54.2	-2.6
2	#2745.00	33.5 AV	54.0	-20.5	1.52 H	190	36.1	-2.6
		ANTENI	NA POLARIT	Y & TEST DI	STANCE: VE	RTICAL AT	3 M	
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#2745.00	51.4 PK	74.0	-22.6	1.55 V	323	54.0	-2.6
2	#2745.00	33.3 AV	54.0	-20.7	1.55 V	323	35.9	-2.6

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB).
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission Level Limit value.
- 5. " # ": The radiated frequency is out of the restricted band.



CHANNEL	TX Channel 127	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 10GHz	FUNCTION	Average (AV)

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#2782.80	52.0 PK	74.0	-22.0	1.62 H	190	54.3	-2.3
2	#2782.80	33.9 AV	54.0	-20.1	1.62 H	190	36.2	-2.3
		ANTENI	NA POLARIT	Y & TEST DI	STANCE: VE	RTICAL AT	3 M	
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#2782.80	54.3 PK	74.0	-19.7	1.58 V	320	56.6	-2.3
2	#2782.80	36.2 AV	54.0	-17.8	1.58 V	320	38.5	-2.3

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB).
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission Level Limit value.
- 5. " # ": The radiated frequency is out of the restricted band.

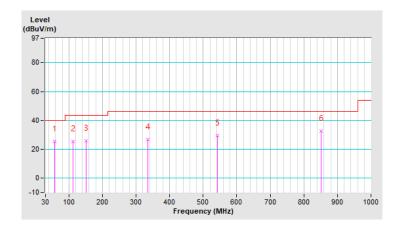


Below 1GHz worst-case data:

CHANNEL	TX Channel 1	DETECTOR	Overi Book (OD)
FREQUENCY RANGE	9kHz ~ 1GHz	FUNCTION	Quasi-Peak (QP)

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	58.13	25.3 QP	40.0	-14.7	1.25 H	6	34.5	-9.2
2	112.45	25.3 QP	43.5	-18.2	2.00 H	25	36.7	-11.4
3	151.25	26.0 QP	43.5	-17.5	1.50 H	230	34.4	-8.4
4	335.55	26.7 QP	46.0	-19.3	1.25 H	39	32.7	-6.0
5	543.13	29.4 QP	46.0	-16.6	1.00 H	16	31.3	-1.9
6	851.59	32.5 QP	46.0	-13.5	2.00 H	275	28.6	3.9

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB).
- 3. The other emission levels were very low against the limit of frequency range 30MHz $\scriptstyle \sim$ 1000MHz.
- 4. Margin value = Emission Level Limit value.
- 5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

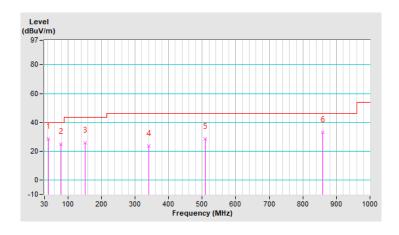




CHANNEL	TX Channel 1	DETECTOR	Oversi Bask (OB)
FREQUENCY RANGE	9kHz ~ 1GHz	FUNCTION	Quasi-Peak (QP)

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	42.61	28.6 QP	40.0	-11.4	2.00 V	33	37.9	-9.3
2	79.47	24.9 QP	40.0	-15.1	1.25 V	140	38.0	-13.1
3	151.25	25.6 QP	43.5	-17.9	1.50 V	16	34.0	-8.4
4	341.37	23.7 QP	46.0	-22.3	1.00 V	53	29.6	-5.9
5	509.18	28.4 QP	46.0	-17.6	1.25 V	321	30.8	-2.4
6	858.38	32.9 QP	46.0	-13.1	1.00 V	309	28.8	4.1

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB).
- 3. The other emission levels were very low against the limit of frequency range 30MHz \sim 1000MHz.
- 4. Margin value = Emission Level Limit value.
- 5. The emission levels were very low against the limit of frequency range $9kHz \sim 30MHz$: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

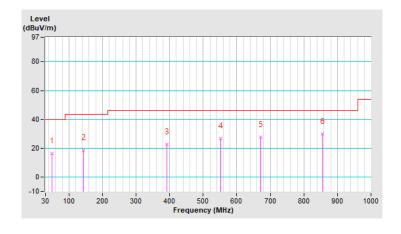




CHANNEL	TX Channel 64	DETECTOR	Oursi Back (OD)
FREQUENCY RANGE	9kHz ~ 1GHz	FUNCTION	Quasi-Peak (QP)

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	50.37	16.5 QP	40.0	-23.5	1.25 H	114	25.5	-9.0
2	143.49	18.7 QP	43.5	-24.8	1.50 H	272	27.3	-8.6
3	390.84	22.8 QP	46.0	-23.2	1.25 H	117	27.7	-4.9
4	551.86	26.7 QP	46.0	-19.3	2.00 H	280	28.5	-1.8
5	671.17	27.7 QP	46.0	-18.3	1.25 H	92	27.1	0.6
6	855.47	29.8 QP	46.0	-16.2	1.25 H	137	25.8	4.0

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB).
- 3. The other emission levels were very low against the limit of frequency range 30MHz $\scriptstyle \sim$ 1000MHz.
- 4. Margin value = Emission Level Limit value.
- 5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

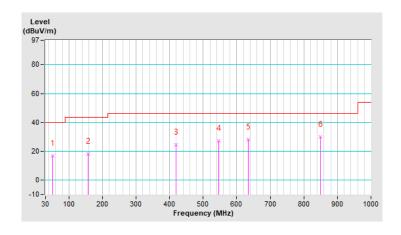




CHANNEL	TX Channel 64	DETECTOR	Oversi Bask (OB)
FREQUENCY RANGE	9kHz ~ 1GHz	FUNCTION	Quasi-Peak (QP)

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)			
1	52.31	16.6 QP	40.0	-23.4	1.25 V	242	25.6	-9.0			
2	157.07	18.3 QP	43.5	-25.2	1.00 V	188	26.4	-8.1			
3	418.97	24.5 QP	46.0	-21.5	2.00 V	180	28.9	-4.4			
4	547.01	27.0 QP	46.0	-19.0	1.25 V	200	28.9	-1.9			
5	634.31	28.1 QP	46.0	-17.9	1.00 V	101	27.9	0.2			
6	848.68	30.1 QP	46.0	-15.9	1.50 V	112	26.2	3.9			

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB).
- 3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz.
- 4. Margin value = Emission Level Limit value.
- 5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

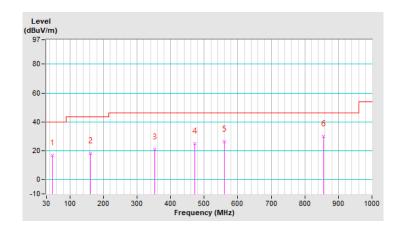




CHANNEL	TX Channel 127	DETECTOR	Ouggi Dook (OD)
FREQUENCY RANGE	9kHz ~ 1GHz	FUNCTION	Quasi-Peak (QP)

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M									
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)		
1	48.43	16.8 QP	40.0	-23.2	1.25 H	7	25.8	-9.0		
2	160.95	18.1 QP	43.5	-25.4	1.50 H	7	26.3	-8.2		
3	352.04	20.9 QP	46.0	-25.1	2.00 H	99	26.5	-5.6		
4	472.32	24.9 QP	46.0	-21.1	1.25 H	7	27.9	-3.0		
5	560.59	26.2 QP	46.0	-19.8	1.00 H	229	27.8	-1.6		
6	855.47	29.7 QP	46.0	-16.3	1.50 H	240	25.7	4.0		

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB).
- 3. The other emission levels were very low against the limit of frequency range $30MHz \sim 1000MHz$.
- 4. Margin value = Emission Level Limit value.
- 5. The emission levels were very low against the limit of frequency range $9kHz \sim 30MHz$: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

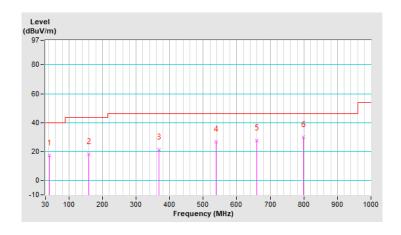




CHANNEL	TX Channel 127	DETECTOR	Oversi Bask (OB)
FREQUENCY RANGE	9kHz ~ 1GHz	FUNCTION	Quasi-Peak (QP)

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)			
1	42.61	17.0 QP	40.0	-23.0	1.25 V	175	26.3	-9.3			
2	159.01	18.0 QP	43.5	-25.5	1.00 V	319	26.0	-8.0			
3	368.53	21.3 QP	46.0	-24.7	1.50 V	248	26.6	-5.3			
4	538.28	26.5 QP	46.0	-19.5	2.00 V	43	28.5	-2.0			
5	660.50	27.7 QP	46.0	-18.3	1.00 V	201	27.2	0.5			
6	799.21	29.8 QP	46.0	-16.2	1.25 V	35	26.4	3.4			

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB).
- 3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz.
- 4. Margin value = Emission Level Limit value.
- 5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.





4.2 Conducted Emission Measurement

4.2.1 Limits of Conducted Emission Measurement

Fraguenov (MHz)	Conducted L	imit (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.

4.2.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver ROHDE & SCHWARZ	ESCI	100613	Dec. 04, 2020	Dec. 03, 2021
RF signal cable (with 10dB PAD) Woken	5D-FB	Cable-cond1-01	Jan. 16, 2021	Jan. 15, 2022
LISN ROHDE & SCHWARZ (EUT)	ESH3-Z5	835239/001	Mar. 19, 2020	Mar. 18, 2021
LISN ROHDE & SCHWARZ (Peripheral)	ESH3-Z5	100311	Aug. 28, 2020	Aug. 27, 2021
Software ADT	BV ADT_Cond_ V7.3.7.4	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.

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



4.2.3 Test Procedures

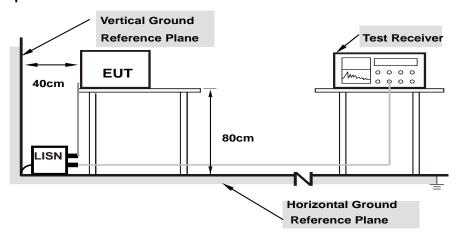
- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling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

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

4.2.4 Deviation from Test Standard

No deviation.

4.2.5 Test Setup



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

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

4.2.6 EUT Operating Conditions

Same as 4.1.6.

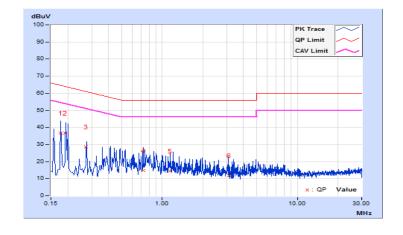


4.2.7 Test Results

Phase	Line (L)	I DATACTOR FUNCTION	Quasi-Peak (QP) / Average (AV)
Channel	TX Channel 127		

	Eroa	Corr.	Readin	g Value	Emissio	n Level	Lir	mit	Ma	rgin
No	Freq.	Factor	[dB ((uV)]	[dB ((uV)]	[dB	(uV)]	(d	B)
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.17605	9.69	26.90	4.24	36.59	13.93	64.67	54.67	-28.08	-40.74
2	0.19003	9.70	27.07	1.21	36.77	10.91	64.04	54.04	-27.27	-43.13
3	0.27192	9.74	18.89	1.12	28.63	10.86	61.06	51.06	-32.43	-40.20
4	0.72084	9.82	4.93	1.34	14.75	11.16	56.00	46.00	-41.25	-34.84
5	1.14012	9.86	4.67	2.14	14.53	12.00	56.00	46.00	-41.47	-34.00
6	3.10987	9.91	1.82	3.21	11.73	13.12	56.00	46.00	-44.27	-32.88

- 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.

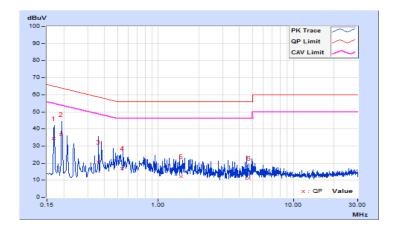




Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Channel	TX Channel 127		

	Corr.		Reading Value		Emission Level		Limit		Margin	
No	Freq.	Factor	[dB ((uV)]	[dB ((uV)]	[dB ((uV)]	(d	B)
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16745	9.71	24.49	0.19	34.20	9.90	65.09	55.09	-30.89	-45.19
2	0.19003	9.72	27.07	1.19	36.79	10.91	64.04	54.04	-27.25	-43.13
3	0.35859	9.79	10.61	1.52	20.40	11.31	58.76	48.76	-38.36	-37.45
4	0.53946	9.82	7.10	0.54	16.92	10.36	56.00	46.00	-39.08	-35.64
5	1.46767	9.89	2.32	2.12	12.21	12.01	56.00	46.00	-43.79	-33.99
6	4.67387	9.97	1.20	0.58	11.17	10.55	56.00	46.00	-44.83	-35.45

- 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 Maximum Output Power

4.3.1 Limits of Maximum Output Power Measurement

For frequency hopping systems operating in the 902-928 MHz band: 1 watt for systems employing at least 50 hopping channels.

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 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.

Average power sensor was used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst. Duty factor is not added to measured value.

4.3.5 Deviation from Test Standard

No deviation.

4.3.6 EUT Operating Condition

The software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel frequencies individually.

4.3.7 Test Results

Channel	Frequency (MHz)	Output Peak Power (mW)	Output Peak Power (dBm)	Power Limit (dBm)	Pass / Fail
1	902.4	227.51	23.57	30.00	Pass
64	915.0	208.449	23.19	30.00	Pass
127	927.6	242.661	23.85	30.00	Pass

Channel	Frequency (MHz)	Output Average Power (mW)	Output Average Power (dBm)
1	902.4	226.464	23.55
64	915.0	207.014	23.16
127	927.6	240.991	23.82

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5 Pictures of Test Arrangements			
Please refer to the attached file (Test Setup Photo).			

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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 and approved according to ISO/IEC 17025.

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

Lin Kou EMC/RF Lab

Hsin Chu EMC/RF/Telecom Lab

Tel: 886-2-26052180 Fax: 886-2-26051924 Tel: 886-3-6668565 Fax: 886-3-6668323

Hwa Ya EMC/RF/Safety Lab

Tel: 886-3-3183232 Fax: 886-3-3270892

Email: service.adt@tw.bureauveritas.com
Web Site: www.bureauveritas-adt.com

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

--- END ---

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