

FCC Test Report

Report No.: RF190422C26-2 R1

FCC ID: NDD9532311903

Test Model: IC-3231GLP

Series Model: IC-S200WD (refer to item 3.1 for more details)

Received Date: Apr. 22, 2019

Test Date: May 09 ~ May 15, 2019

Issued Date: Aug. 14, 2019

Applicant: EDIMAX TECHNOLOGY CO., LTD.

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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
RF190422C26-2	Original release	May 23, 2019
RF190422C26-2 R1	Revised address of applicant	Aug. 14, 2019

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1 Certificate of Conformity

Product: Wireless 802.11a/b/g/n/ac Dual Band IP Camera

Brand: EDIMAX

Test Model: IC-3231GLP

Series Model: IC-S200WD (refer to item 3.1 for more details)

Sample Status: Engineering sample

Applicant: EDIMAX TECHNOLOGY CO., LTD.

Test Date: May 09 ~ May 15, 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.

Celine Chou / Senior Specialist

Approved by: , Date: Aug. 14, 2019

Bruce Chen / 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 -10.24dB at 0.44273MHz.				
15.205 / 15.209 / 15.247(d)	15.209 / Radiated Emissions and Band Edge		Meet the requirement of limit. Minimum passing margin is -3.3dB at 32.91MHz.				
15.247(d) Antenna Port Emission		Pass	Meet the requirement of limit.				
15.247(a)(2)	6dB bandwidth	Pass	Meet the requirement of limit.				
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	Antenna connector is i-pex(MHF) not a standard connector.				

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	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
Naulateu Ellissiolis 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

Draduat	Wireless 202 44 c/h/g/p/ss Duel Dand ID Comore
Product	Wireless 802.11a/b/g/n/ac Dual Band IP Camera
Brand	EDIMAX
Test Model	IC-3231GLP
Series Model	IC-S200WD
Model Difference	Refer to note
Sample Status	Engineering sample
Power Supply Rating	12Vdc from adapter
Modulation Type	GFSK
Transfer Rate	1Mbps
Operating Frequency	2402 ~ 2480MHz
Number of Channel	40
Channel Spacing	2MHz
Output Power	3.690mW
Antenna Type	PIFA antenna with 1.8dBi gain
Antenna Connector	i-pex(MHF)
Accessory Device	Adapter
Cable Supplied	0.65m shielded cable without core attached on EUT

Note:

1. All models are listed as below.

Brand	Model	Description
EDIMAX	IC-3231GLP	For marketing purpose
EDIIVIAA	IC-S200WD	For marketing purpose.

^{*} The model of the IC-3231GLP was chosen for final test.

2. The EUT consumes power from the following adapters.

Adapter 1					
Brand	AMIGO				
Model	AMS159A-1201000FU				
Input Power	100-240Vac, 50/60Hz, 0.5A				
Output Power	12Vdc, 1A				

Adapter 2					
Brand DVE					
Model	DSA-12PFT-12 FUS 120100				
Input Power	100-240Vac, 50/60Hz, 0.5A				
Output Power 12Vdc, 1A					

3. WLAN, BT and BT LE technology cannot transmit simultaneously.



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

EUT Configure		Applic	able to		Description
Mode	RE≥1G	RE<1G	PLC	APCM	Description
Α	V	V	\checkmark	√	Powered by adapter 1
В	=	√	\checkmark	-	Powered by adapter 2

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

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	Data Rate (Mbps)
Α	0 to 39	0, 19, 39	GFSK	1

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		Data Rate (Mbps)	
A, B	0 to 39	19	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)

A, B 0 to 39 19 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)
Α	0 to 39	0, 19, 39	GFSK	1

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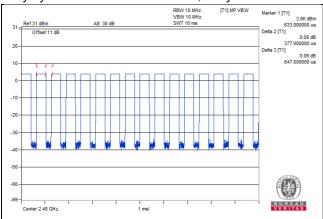
Test Condition:

Applicable to	Environmental Conditions	Input Power	Tested by
RE≥1G 22 deg. C, 66% RH		120Vac, 60Hz	Han Wu
RE<1G	RE<1G 25 deg. C, 65% RH		Greg Lin
PLC	PLC 25 deg. C, 75% RH		Greg Lin
APCM 25 deg. C, 60% RH		120Vac, 60Hz	Frank Liu

3.3 Duty Cycle of Test Signal

Duty cycle of test signal is < 98%, duty factor is required.

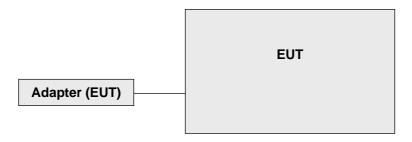




3.4 Description of Support Units

The EUT has been tested as an independent unit.

3.4.1 Configuration of System under Test



3.5 General Description of Applied Standards

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

FCC Part 15, Subpart C (15.247)

KDB 558074 D01 15.247 Meas Guidance v05r02

ANSI C63.10:2013

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



Test Types and Results

4.1 **Radiated Emission and Bandedge Measurement**

Limits of Radiated Emission and Bandedge Measurement 4.1.1

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 30dB 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. 15, 2019	Apr. 14, 2020
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100269	May 29, 2018	May 28, 2019
BILOG Antenna SCHWARZBECK	VULB9168	9168-160	Nov. 21, 2018	Nov. 20, 2019
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-1169	Nov. 25, 2018	Nov. 24, 2019
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170241	Nov. 25, 2018	Nov. 24, 2019
Loop Antenna TESEQ	HLA 6121	45745	Jun. 14, 2018	Jun. 13, 2019
Preamplifier Agilent (Below 1GHz)	8447D	2944A10638	Aug. 08, 2018	Aug. 07, 2019
Preamplifier Agilent (Above 1GHz)	8449B	3008A02367	Feb. 19, 2019	Feb. 18, 2020
RF signal cable HUBER+SUHNER&EMCI	SUCOFLEX 104 & EMC104-SM-SM80 00	CABLE-CH9-02 (248780+171006)	Jan. 19, 2019	Jan. 18, 2020
RF signal cable HUBER+SUHNER	SUCOFLEX 104	CABLE-CH9-(250795/4)	Aug. 08, 2018	Aug. 07, 2019
RF signal cable Woken	8D-FB	Cable-CH9-01	Jul. 31, 2018	Jul. 30, 2019
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/MY55190 004/MY55190007/MY55 210005	Jul. 17, 2018	Jul. 16, 2019

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:

 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 Quasi-peak 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) at frequency above 1GHz.
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is ≥ 1/T (Duty cycle < 98%) or 10Hz (Duty cycle ≥ 98%) for Average detection (AV) at frequency above 1GHz.
- 4. All modes of operation were investigated and the worst-case emissions are reported.

4.1.4 Deviation from Test Standard

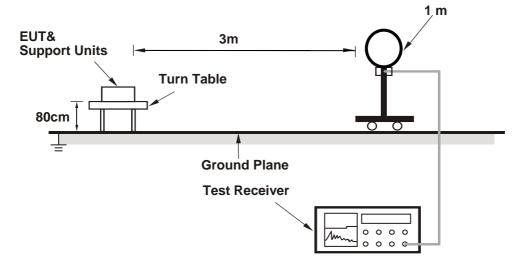
No deviation.

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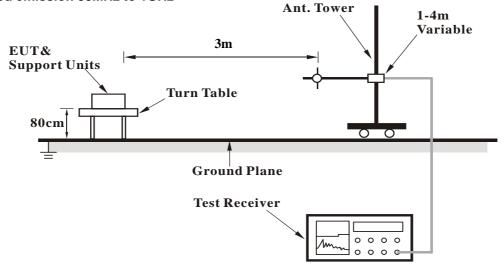


4.1.5 Test Setup

For Radiated emission below 30MHz

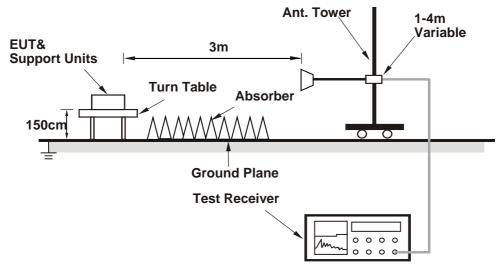


For Radiated emission 30MHz to 1GHz





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.



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4.1.7 Test Results

Above 1 GHz Data:

CHANNEL	TX Channel 0	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	DETECTOR 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	2390.00	55.9 PK	74.0	-18.1	1.37 H	189	24.1	31.8	
2	2390.00	43.3 AV	54.0	-10.7	1.37 H	189	11.5	31.8	
3	*2402.00	98.7 PK			1.35 H	189	66.9	31.8	
4	*2402.00	93.7 AV			1.35 H	189	61.9	31.8	
5	4804.00	45.1 PK	74.0	-28.9	1.68 H	145	41.4	3.7	
6	4804.00	31.2 AV	54.0	-22.8	1.68 H	145	27.5	3.7	
		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	2390.00	56.1 PK	74.0	-17.9	1.00 V	269	24.3	31.8	
2	2390.00	43.4 AV	54.0	-10.6	1.00 V	269	11.6	31.8	
3	*2402.00	100.8 PK			1.00 V	269	69.0	31.8	
4	*2402.00	95.8 AV	_		1.00 V	269	64.0	31.8	
5	4804.00	44.8 PK	74.0	-29.2	1.36 V	164	41.1	3.7	
6	4804.00	30.8 AV	54.0	-23.2	1.36 V	164	27.1	3.7	

Remarks:

- 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. Margin value = Emission Level Limit value.
- 4. The other emission levels were very low against the limit.
- 5. " * ": Fundamental frequency.

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CHANNEL	TX Channel 19	DETECTOR FINGUION 1	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	DETECTOR 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	*2440.00	100.4 PK			1.32 H	185	68.6	31.8	
2	*2440.00	95.6 AV			1.32 H	185	63.8	31.8	
3	4880.00	45.3 PK	74.0	-28.7	1.76 H	144	41.8	3.5	
4	4880.00	31.4 AV	54.0	-22.6	1.76 H	144	27.9	3.5	
		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	*2440.00	102.6 PK			1.14 V	266	70.8	31.8	
2	*2440.00	97.8 AV			1.14 V	266	66.0	31.8	
3	4880.00	44.6 PK	74.0	-29.4	1.40 V	158	41.1	3.5	
4	4880.00	31.5 AV	54.0	-22.5	1.40 V	158	28.0	3.5	

- 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. Margin value = Emission Level Limit value.
- 4. The other emission levels were very low against the limit.
- 5. " * ": Fundamental frequency.



CHANNEL	TX Channel 39	DETECTOR FUNCTION 1	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	DETECTOR TONGTION	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	*2480.00	101.1 PK			1.35 H	192	69.3	31.8
2	*2480.00	96.2 AV			1.35 H	192	64.4	31.8
3	2483.50	55.9 PK	74.0	-18.1	1.35 H	188	24.1	31.8
4	2483.50	44.0 AV	54.0	-10.0	1.35 H	188	12.2	31.8
5	4960.00	45.6 PK	74.0	-28.4	1.72 H	143	41.8	3.8
6	4960.00	31.5 AV	54.0	-22.5	1.72 H	143	27.7	3.8
		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	*2480.00	103.0 PK			1.00 V	264	71.2	31.8
2	*2480.00	98.0 AV			1.00 V	264	66.2	31.8
3	2483.50	56.2 PK	74.0	-17.8	1.09 V	269	24.4	31.8
4	2483.50	46.5 AV	54.0	-7.5	1.09 V	269	14.7	31.8
	4000.00	45 0 DK	74.0	-29.0	1.39 V	161	41.2	3.8
5	4960.00	45.0 PK	74.0	-29.0	1.39 V	101	41.2	5.0

- 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. Margin value = Emission Level Limit value.
- 4. The other emission levels were very low against the limit.
- 5. " * ": Fundamental frequency.

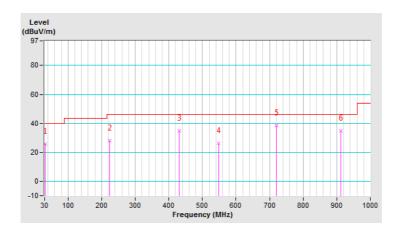


Below 1GHz worst-case data:

CHANNEL	TX Channel 19	DETECTOR	Ouesi Deek (OD)	
FREQUENCY RANGE	9kHz ~ 1GHz	FUNCTION	Quasi-Peak (QP)	
TEST MODE	A			

	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	31.94	25.7 QP	40.0	-14.3	1.00 H	4	36.8	-11.1		
2	223.03	28.3 QP	46.0	-17.7	1.50 H	253	39.4	-11.1		
3	431.58	34.9 QP	46.0	-11.1	1.25 H	243	40.4	-5.5		
4	547.98	26.1 QP	46.0	-19.9	1.25 H	333	29.9	-3.8		
5	719.67	38.7 QP	46.0	-7.3	1.25 H	216	38.9	-0.2		
6	911.73	35.0 QP	46.0	-11.0	1.50 H	346	31.5	3.5		

- 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.

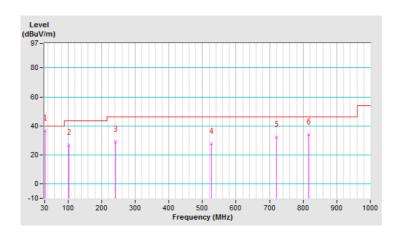




CHANNEL	TX Channel 19	DETECTOR	Overi Book (OB)	
FREQUENCY RANGE	9kHz ~ 1GHz	FUNCTION	Quasi-Peak (QP)	
TEST MODE	А			

	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	32.91	36.7 QP	40.0	-3.3	1.25 V	10	47.8	-11.1	
2	101.78	26.7 QP	43.5	-16.8	1.00 V	229	40.1	-13.4	
3	240.49	29.1 QP	46.0	-16.9	1.25 V	278	39.1	-10.0	
4	4 527.61 27.5 QP 46.0 -18.5 1.50 V						31.6	-4.1	
5	719.67	32.0 QP	46.0	-14.0	1.00 V	103	32.2	-0.2	
6	815.70	34.1 QP	46.0	-11.9	1.25 V	192	32.2	1.9	

- 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.

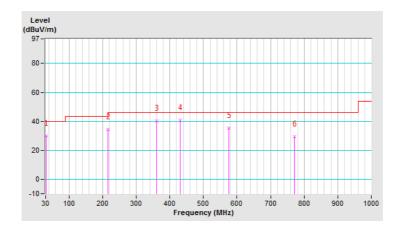




CHANNEL	TX Channel 19	DETECTOR	Overi Book (OD)
FREQUENCY RANGE	9kHz ~ 1GHz	FUNCTION	Quasi-Peak (QP)
TEST MODE	В		

	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	31.94	29.8 QP	40.0	-10.2	1.50 H	197	40.9	-11.1		
2	216.24	34.3 QP	46.0	-11.7	1.00 H	264	45.6	-11.3		
3	359.80	40.5 QP	46.0	-5.5	1.25 H	125	47.6	-7.1		
4	431.58	40.6 QP	46.0	-5.4	1.25 H	120	46.1	-5.5		
5	576.11	35.4 QP	46.0	-10.6	1.00 H	173	38.4	-3.0		
6	772.05	29.5 QP	46.0	-16.5	1.50 H	297	28.2	1.3		

- 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 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 $9kHz \sim 30MHz$: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

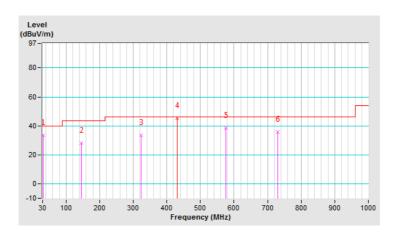




CHANNEL	TX Channel 19	DETECTOR	Overi Book (OD)	
FREQUENCY RANGE	9kHz ~ 1GHz	FUNCTION	Quasi-Peak (QP)	
TEST MODE	В			

	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	32.91	33.4 QP	40.0	-6.6	1.25 V	4	44.5	-11.1		
2	144.46	28.0 QP	43.5	-15.5	1.25 V	146	37.6	-9.6		
3	323.91	33.3 QP	46.0	-12.7	1.00 V	300	40.7	-7.4		
4	4 431.58 45.1 QP 46.0 -0.9 1.50 V						50.6	-5.5		
5	576.11	38.5 QP	46.0	-7.5	1.00 V	204	41.5	-3.0		
6	729.37	35.7 QP	46.0	-10.3	1.25 V	213	35.7	0.0		

- 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 $30 MHz \sim 1000 MHz$.
- 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. 10, 2018	Dec. 09, 2019
RF signal cable Woken	5D-FB	Cable-cond1-01	Sep. 05, 2018	Sep. 04, 2019
LISN ROHDE & SCHWARZ (EUT)	ENV216	101826	Feb. 21, 2019	Feb. 20, 2020
LISN ROHDE & SCHWARZ (Peripheral)	ESH3-Z5	100311	Aug. 19, 2018	Aug. 18, 2019
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

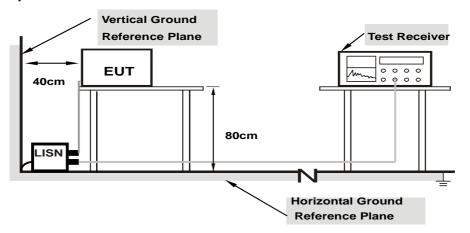
- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling 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.

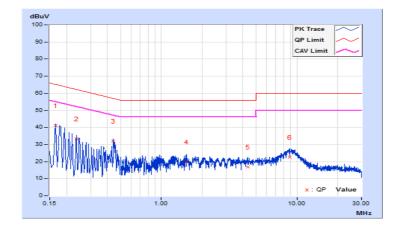


4.2.7 Test Results

Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	A		

	Erog	Corr.	Readin	g Value	Emissio	n Level	Lir	nit	Mai	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	0.16564	9.69	31.24	18.33	40.93	28.02	65.18	55.18	-24.25	-27.16
2	0.23602	9.68	23.61	10.99	33.29	20.67	62.24	52.24	-28.95	-31.57
3	0.44325	9.68	22.17	14.62	31.85	24.30	57.00	47.00	-25.15	-22.70
4	1.52632	9.69	10.11	5.03	19.80	14.72	56.00	46.00	-36.20	-31.28
5	4.32979	9.76	7.22	3.48	16.98	13.24	56.00	46.00	-39.02	-32.76
6	8.87321	9.85	12.85	2.56	22.70	12.41	60.00	50.00	-37.30	-37.59

- 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.

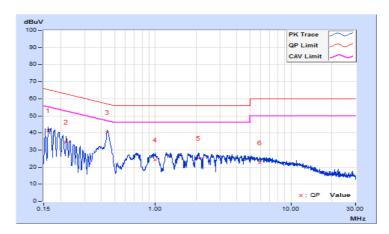




Phase	Neutral (N)	LI Jefector Flinction	Quasi-Peak (QP) / Average (AV)
Test Mode	A		

	Corr.	Corr.	corr. Reading Value		Emission Level		Limit		Margin	
No	Freq.	Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16173	9.66	31.62	18.18	41.28	27.84	65.37	55.37	-24.09	-27.53
2	0.22038	9.66	25.17	14.79	34.83	24.45	62.80	52.80	-27.97	-28.35
3	0.44273	9.65	30.83	27.12	40.48	36.77	57.01	47.01	-16.53	-10.24
4	1.00202	9.64	14.72	10.73	24.36	20.37	56.00	46.00	-31.64	-25.63
5	2.07763	9.67	15.52	10.94	25.19	20.61	56.00	46.00	-30.81	-25.39
6	5.88206	9.76	12.79	7.60	22.55	17.36	60.00	50.00	-37.45	-32.64

- 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.

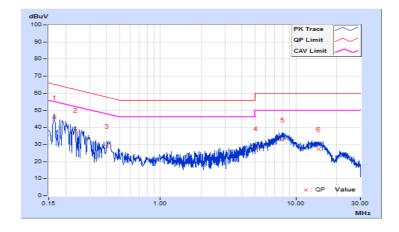




Phase	Line (L)	LIPETECTOR FUNCTION	Quasi-Peak (QP) / Average (AV)
Test Mode	В		

	Ггод	Corr.	Reading Value		Emission Level		Limit		Margin	
No Freq.		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16526	9.69	36.15	21.79	45.84	31.48	65.20	55.20	-19.36	-23.72
2	0.23586	9.68	28.61	13.90	38.29	23.58	62.24	52.24	-23.95	-28.66
3	0.40415	9.68	19.35	13.10	29.03	22.78	57.77	47.77	-28.74	-24.99
4	5.07269	9.77	17.99	10.28	27.76	20.05	60.00	50.00	-32.24	-29.95
5	7.99346	9.83	22.98	16.19	32.81	26.02	60.00	50.00	-27.19	-23.98
6	14.65610	9.90	17.27	10.10	27.17	20.00	60.00	50.00	-32.83	-30.00

- 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.

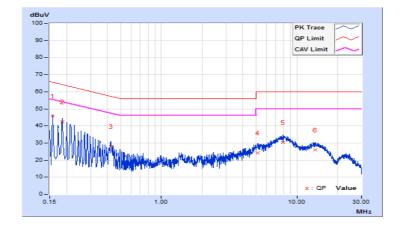




Phase	Neutral (N)	I DETECTOR FUNCTION	Quasi-Peak (QP) / Average (AV)
Test Mode	В		

	Corr.	Corr.	Corr. Reading Value		Emission Level		Limit		Margin	
No	Freq.	Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15782	9.66	36.23	20.11	45.89	29.77	65.58	55.58	-19.69	-25.81
2	0.18519	9.66	32.88	19.14	42.54	28.80	64.25	54.25	-21.71	-25.45
3	0.42370	9.65	18.38	9.01	28.03	18.66	57.38	47.38	-29.35	-28.72
4	5.15871	9.75	14.54	6.10	24.29	15.85	60.00	50.00	-35.71	-34.15
5	7.87225	9.80	20.67	13.45	30.47	23.25	60.00	50.00	-29.53	-26.75
6	13.65905	9.91	15.89	9.16	25.80	19.07	60.00	50.00	-34.20	-30.93

- 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 6dB Bandwidth Measurement

4.3.1 Limits of 6dB Bandwidth Measurement

The minimum of 6dB 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) = 100kHz.
- b. Set the video bandwidth (VBW) \geq 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 fromTest 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.

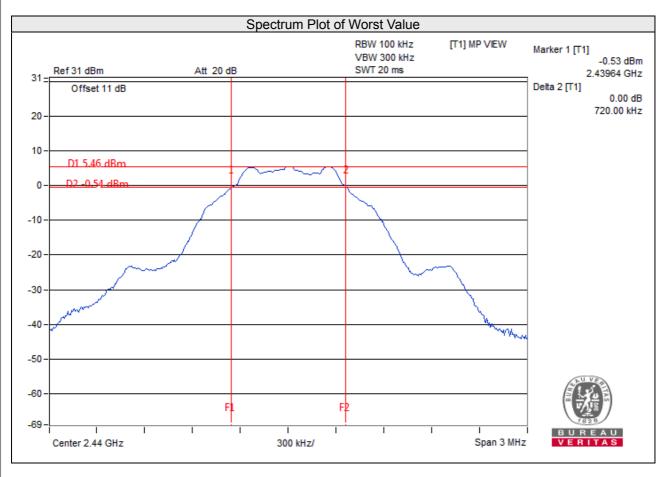
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4.3.7 Test Result

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
0	2402	0.73	0.5	Pass
19	2440	0.72	0.5	Pass
39	2480	0.72	0.5	Pass



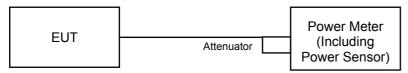


Conducted Output Power Measurement

4.4.1 Limits of Conducted Output Power Measurement

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

4.4.2 Test Setup



4.4.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.4.4 Test Procedures

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.

4.4.5 Deviation from Test Standard

No deviation.

4.4.6 **EUT Operating Conditions**

Same as item 4.3.6.

4.4.7 Test Results

Channel	Frequency (MHz)	Average Power (mW)	Average Power (dBm)	Limit (dBm)	Pass/Fail
0	2402	3.690	5.67	30.00	Pass
19	2440	2.600	4.15	30.00	Pass
39	2480	1.671	2.23	30.00	Pass

Report No.: RF190422C26-2 R1 Page No. 31 / 37 Report Format Version: 6.1.1

Cancels and replaces the report no.: RF190422C26-2 dated May 23, 2019

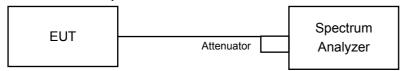


4.5 Power Spectral Density Measurement

4.5.1 Limits of Power Spectral Density Measurement

The Maximum of Power Spectral Density Measurement is 8dBm per 3kHz.

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 Procedure

- a. Measure the duty cycle (x).
- b. Set instrument center frequency to DTS channel center frequency.
- c. Set span to at least 1.5 times the OBW.
- d. Set RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- e. Set VBW ≥3 x RBW.
- f. Detector = power averaging (RMS) or sample detector (when RMS not available).
- g. Ensure that the number of measurement points in the sweep $\ge 2 x \text{ span/RBW}$.
- h. Sweep time = auto couple.
- i. Do not use sweep triggering. Allow sweep to "free run".
- j. Employ trace averaging (RMS) mode over a minimum of 100 traces.
- k. Use the peak marker function to determine the maximum amplitude level.
- I. Add 10 $\log (1/x)$, where x is the duty cycle measured in step (a, to the measured PSD to compute the average PSD during the actual transmission time.

4.5.5 Deviation from Test Standard

No deviation.

4.5.6 EUT Operating Condition

Same as item 4.3.6

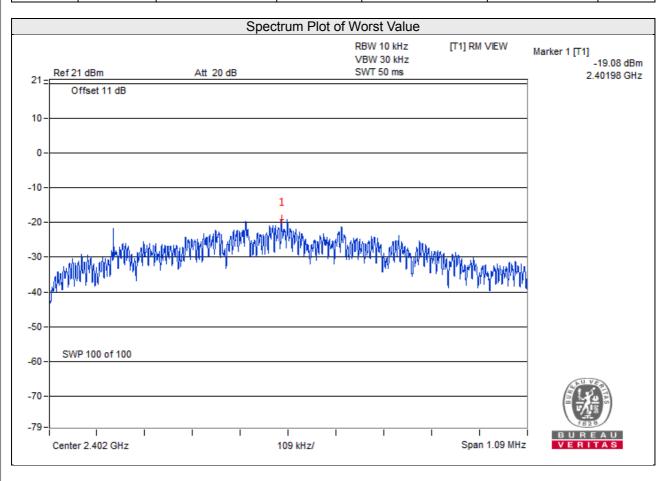
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4.5.7 Test Results

Channel	Frequency (MHz)	PSD w/o Duty Factor (dBm/10kHz)	Duty Factor (dB)	Total PSD With Duty Factor (dBm/10kHz)	Limit (dBm/3kHz)	Pass / Fail
0	2402	-19.08	2.35	-16.73	8.00	Pass
19	2440	-20.23	2.35	-17.88	8.00	Pass
39	2480	-21.26	2.35	-18.91	8.00	Pass





4.6 Conducted Out of Band Emission Measurement

4.6.1 Limits of Conducted Out of Band Emission Measurement

Below -30dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).

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

MEASUREMENT PROCEDURE REF

- a. Set the RBW = 100 kHz.
- b. Set the VBW ≥ 300 kHz.
- c. Detector = peak.
- d. Sweep time = auto couple.
- e. Trace mode = max hold.
- f. Allow trace to fully stabilize.
- g. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental FBW.

MEASUREMENT PROCEDURE OOBE

- a. Set RBW = 100 kHz.
- b. Set VBW ≥ 300 kHz.
- c. Detector = peak.
- d. Sweep = auto couple.
- e. Trace Mode = max hold.
- f. Allow trace to fully stabilize.
- g. Use the peak marker function to determine the maximum amplitude level.

4.6.5 Deviation from Test Standard

No deviation.

4.6.6 EUT Operating Condition

Same as item 4.3.6

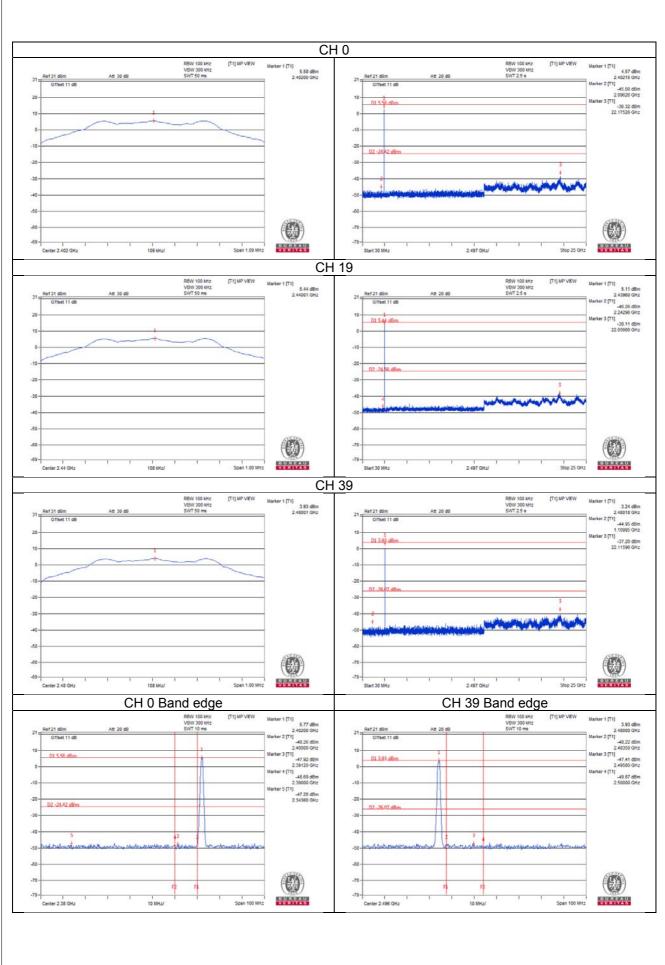
4.6.7 Test Results

The conducted emission test is performed on each TX port of operating mode without summing or adding 10log (N) since the limit is relative emission limit.

The spectrum plots are attached on the following pages. D1 line indicates the highest level, and D2 line indicates the 30dB offset below D1. It shows compliance with the requirement.

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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.

Hsin Chu EMC/RF/Telecom Lab

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

Lin Kou EMC/RF Lab

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

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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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Cancels and replaces the report no.: RF190422C26-2 dated May 23, 2019