

# FCC Test Report

Report No.: RFBDGE-WTW-P21051150-4

FCC ID: M72-CCX505

Test Model: CCX 505

Received Date: Jun. 04, 2021

Test Date: Jun. 17 ~ Jun. 23, 2021

**Issued Date:** Jul. 16, 2021

Applicant: Polycom Inc.

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- **Issued By:** Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch Lin Kou Laboratories
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FCC Registration / 788550 / TW0003

Designation Number:



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### **Release Control Record**

Issue No.	Description	Date Issued
RFBDGE-WTW-P21051150-4	Original release.	Jul. 16, 2021



#### 1 **Certificate of Conformity**

Product:	Business Media Phone			
Brand:	Poly			
Test Model:	CCX 505			
Sample Status:	Engineering sample			
Applicant:	Polycom Inc.			
Test Date:	Jun. 17 ~ Jun. 23, 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 :

Polly Chien / Specialist

Approved by :

Len

Bruce Chen / Senior Engineer

Date: Jul. 16, 2021



### 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 -12.36dB at 0.49408MHz.						
15.205 / 15.209 / 15.247(d)	15.209 / Radiated Emissions and Band Edge		Meet the requirement of limit. Minimum passing margin is -5.6dB at 2483.50MHz.						
15.247(d)	Antenna Port Emission	Pass	Meet the requirement of limit.						
15.247(a)(2)	7(a)(2) 6dB bandwidth		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 IPEX NGFF connector not a standard connector.						

Note:

- 1. For 2.4G band compliance with rule 15.247(d) of the band-edge items, the test plots were recorded in Annex A. Test Procedures refer to report 4.1.3.
- 2. 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	2.79 dB
	9kHz ~ 30MHz	3.04 dB
Radiated Emissions up to 1 GHz	30MHz ~ 200MHz	3.86 dB
	200MHz ~ 1000MHz	3.87 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	Business Media Phone
Brand	Poly
Test Model	CCX 505
Sample Status	Engineering sample
Power Supply Rating	48Vdc (Adapter)
Modulation Type	GFSK
Transfer Rate	1Mbps
Operating Frequency	2402~2480MHz
Number of Channel	40
Channel Spacing	2MHz
Output Power	3.304mW
Antenna Type	Refer to note
Antenna Connector	Refer to note
Accessory Device	Refer to note
Cable Supplied	Refer to note

Note:

1. The EUT uses the following devices.

2. Item	Brand	Model	Specification	Remark
			I/P: 100-240Vac, 50-60Hz, 900mA	
Adapter 1	Polycom	FSP025-DINANS	O/P: 48Vdc, 0.52A	Accessory
			Cable: 1.8m power cable with 2 cores	
			I/P: 100-240Vac, 50-60Hz, 900mA	
Adapter 2	Polycom	FSP025-DINANS2	O/P: 48Vdc, 0.52A	Accessory
			Cable: 1.8m power cable with 2 cores	
Network Cable			1.8m non-shielded RJ45 cable	A
(RJ45)	NA NA		without core	Accessory

\*After the pretesting adapter as above, adapter 1 is found to be the worst case test and chosen for final test.

#### 3. The following antenna was provided to the EUT.

Ant. Type	PCB			
Connecter	IPEX NGFF			
		Antenna Gain(dBi	)	
Antenna	2400~2500MHz	5150~5350MHz	5470~5720MHz	5725~5850MHz
AWAN (MAIN)	2.30	2.92	2.95	2.95
INPAQ (MAIN)	2.86	2.84	2.49	2.79

\* The maximum antenna gain is chosen for final test.

\*The above Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

4. 2.4GHz & 5GHz & BT technology cannot transmit at same time.



# 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

adiated 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 architectur     Following channel(s) was (were) selected for the final test as listed below.     EUT Configure Mode   Available Channel   Tested Channel   Modulation Technology   Data Rate (Mbps)     -   0 to 39   0, 19, 39   GFSK   1     adiated 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 architectur     Following channel(s) was (were) selected for the final test as listed below.   EUT Configure Available Channel   Tested Channel   Modulation Technology   Data Rate (Mbps)     -   0 to 39   19   GFSK   1     Ower 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 architectur     Following channel(s) was (were) selected for the final test as listed below.   EUT Configure Following channel (s) was (were) selected for the final test as listed below.     EUT Configure Mode   Available Channel   Tested Channel atest as listed below.     EUT Configur	Mode     HESTIG     PLC     APCM       -	Mode		7,000	able to	1	Doc	cription		
Here   RE≥1G: Radiated Emission above 1GHz & Bandedge   RE<1G: Radiated Emission below 1GHz     Measurement   PLC: Power Line Conducted Emission   APCM: Antenna Port Conducted Measurement     ter:   The EUT had been pre-tested on the positioned of each 2 axis (X & Z). The worst case was found when positioned on Z-plane.     For radiated emission (below 1GHz) and power line conducted emission test items chosen the worst maximum fundamental emissiol etannel.     diated 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 architectur Following channel(s) was (were) selected for the final test as listed below.     EUT Configure   Available Channel   Tested Channel   Modulation Technology   Data Rate (Mbps)     -   0 to 39   0, 19, 39   GFSK   1     diated 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 architectur Following channel(s) was (were) selected for the final test as listed below.     EUT Configure   Available Channel   Tested Channel   Modulation Technology   Data Rate (Mbps)     -   0 to 39   19   GFSK   1     wer Line Conducted Emission Test;	Here     RE≥1G: Radiated Emission above 1GHz & Bandedge     RE<1G: Radiated Emission below 1GHz	Mode	RE≥1G	RE<1G	PLC	APCM	Des			
Measurement PLC: Power Line Conducted Emission   APCM: Antenna Port Conducted Measurement     PLC: Power Line Conducted Emission   APCM: Antenna Port Conducted Measurement     The EUT had been pre-tested on the positioned of each 2 axis (X & Z). The worst case was found when positioned on Z-plane.     For radiated emission (below 1GHz) and power line conducted emission test items chosen the worst maximum fundamental emissie I channel.     Adiated 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 architectur     Following channel(s) was (were) selected for the final test as listed below.     EUT Configure Mode   Available Channel   Tested Channel   Modulation Technology   Data Rate (Mbps)     -   0 to 39   0, 19, 39   GFSK   1     adiated 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 architectur     Following channel(s) was (were) selected for the final test as listed below.   EUT Configure   Available Channel   Tested Channel   Modulation Technology   Data Rate (Mbps)     -   0 to 39   19   GFSK   1     Worde   Available Channel	Measurement PLC: Power Line Conducted Emission   APCM: Antenna Port Conducted Measurement     PLC: Power Line Conducted Emission   APCM: Antenna Port Conducted Measurement     The EUT had been pre-tested on the positioned of each 2 axis (X & Z). The worst case was found when positioned on Z-plane.     For radiated emission (below 1GHz) and power line conducted emission test items chosen the worst maximum fundamental emissie I channel.     Indiated 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 architectur Following channel(s) was (were) selected for the final test as listed below.     EUT Configure   Available Channel   Tested Channel   Modulation Technology   Data Rate (Mbps)     -   0 to 39   0, 19, 39   GFSK   1     Adiated 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 architectur Following channel(s) was (were) selected for the final test as listed below.     EUT Configure   Available Channel   Tested Channel   Modulation Technology   Data Rate (Mbps)     -   0 to 39   19   GFSK   1     Worde   Available Channel   Tested Channel   Modulation Te	-		$\checkmark$			-			
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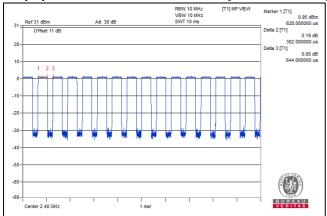
### Test Condition:

Applicable to	Environmental Conditions	Input Power	Tested by
RE≥1G	23deg. C, 67%RH	48Vdc	Adair Peng
RE<1G	24deg. C, 66%RH	48Vdc	Edison Lee
PLC	23deg. C, 66%RH	48Vdc	Cookie Ku
APCM	25deg. C, 60%RH	48Vdc	Ivan Tseng

## 3.3 Duty Cycle of Test Signal

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

Duty cycle = 0.382/0.644 = 0.593, Duty factor = 10 \* log(1/0.593) = 2.27





### 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
Α.	Notebook	LENOVO	T480	PF1EZSA2	FCC DoC Approved	-
	USB Flash	SanDisk	SDDDC-032G	NA	NA	Туре-С
В.	USB Flash	HP	v250W	05	NA	Туре-А
C.	Convertible Board	NA	NA	NA	NA	Provided by client
D.	Earphone	Avaya	Avaya L119	18RX42400E5A	NA	Provided by client
E.	Load	NA	NA	NA	NA	-

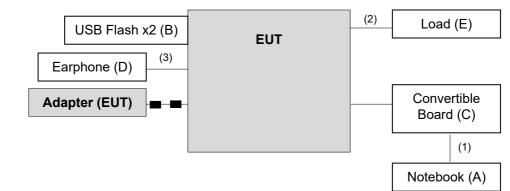
Note:

1. All power cords of the above support units are non-shielded (1.8m).

2. Item A acted as a communication partner to transfer data.

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	USB cable	1	0.8	Y	0	-
2.	LAN cable	2	1.8	Ν	0	Provided by client
3.	Audio cable	1	0.14	Ν	0	Provided by client

### 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 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.



### 4.1.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver ROHDE & SCHWARZ	ESR3	102579	Jul. 07, 2020	Jul. 06, 2021
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100040	Sep. 16, 2020	Sep. 15, 2021
BILOG Antenna SCHWARZBECK	VULB9168	9168-171	Nov. 04, 2020	Nov. 03, 2021
HORN Antenna SCHWARZBECK	9120D	209	Nov. 22, 2020	Nov. 21, 2021
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170241	Nov. 22, 2020	Nov. 21, 2021
Loop Antenna TESEQ	HLA 6121	45745	Jul. 06, 2020	Jul. 05, 2021
Preamplifier Agilent (Below 1GHz)	8447D	2944A10738	Aug. 16, 2020	Aug. 15, 2021
Preamplifier Agilent (Above 1GHz)	8449B	3008A02465	Mar. 22, 2021	Mar. 21, 2022
RF Coaxial Cable WOKEN With 5dB PAD	8D-FB	Cable-CH3-01	Aug. 16, 2020	Aug. 15, 2021
RF signal cable HUBER+SUHNER	SUCOFLEX 104	Cable-CH3-03 (223653/4)	Aug. 16, 2020	Aug. 15, 2021
RF signal cable HUBER+SUHNER& EMCI	SUCOFLEX 104&EMC104-SM-SM- 8000	Cable-CH3-03 (309224+170907)	Aug. 16, 2020	Aug. 15, 2021
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	NA	NA	NA
Antenna Tower inn-co GmbH	MA 4000	013303	NA	NA
Antenna Tower Controller BV ADT	AT100	AT93021702	NA	NA
Turn Table BV ADT	TT100	TT93021702	NA	NA
Turn Table Controller BV ADT	SC100	SC93021702	NA	NA
Boresight Antenna Fixture	FBA-01	FBA-SIP01	NA	NA
USB Wideband Power Sensor KEYSIGHT	U2021XA	MY55050005/MY55190 004/MY55190007/MY55 210005	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 3.



### 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 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 1 MHz and the video bandwidth is ≥ 1/T (Duty cycle < 98%) or 3 x RBW (Duty cycle ≥ 98%) for Average detection (AV) at frequency above 1GHz.

(BT LE 4.0: RBW = 1MHz, VBW = 3kHz)

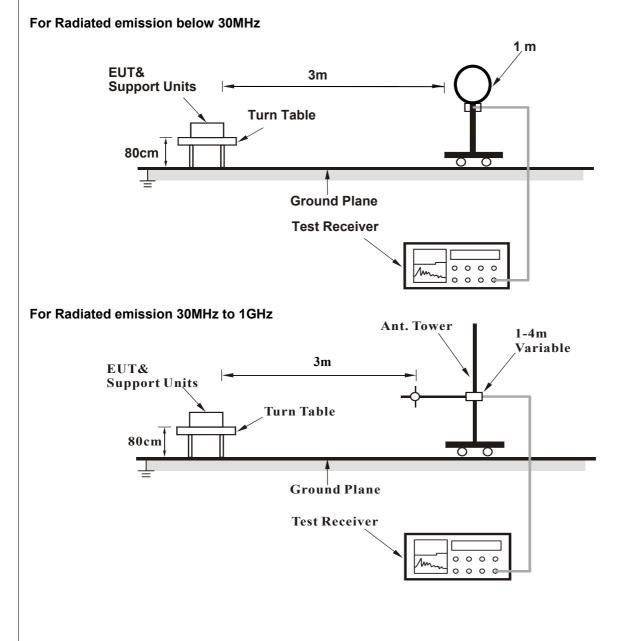
4. All modes of operation were investigated and the worst-case emissions are reported.

### 4.1.4 Deviation from Test Standard

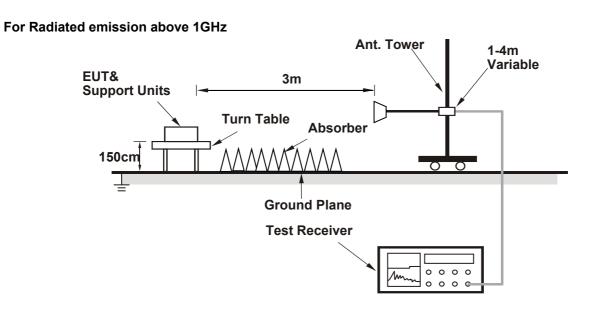
No deviation.



### 4.1.5 Test Setup







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 1GHz Data:

CHANNEL	TX Channel 0	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	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	59.1 PK	74.0	-14.9	2.18 H	9	24.7	34.4	
2	2390.00	46.2 AV	54.0	-7.8	2.18 H	9	11.8	34.4	
3	*2402.00	102.2 PK			2.18 H	9	67.9	34.3	
4	*2402.00	101.2 AV			2.18 H	9	66.9	34.3	
5	4804.00	49.5 PK	74.0	-24.5	1.36 H	175	43.0	6.5	
6	4804.00	39.7 AV	54.0	-14.3	1.36 H	175	33.2	6.5	
		ANTENN	A POLARITY	/ & TEST DI	STANCE: V	ERTICAL AT	<sup>-</sup> 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	58.8 PK	74.0	-15.2	1.31 V	131	24.4	34.4	
2	2390.00	46.3 AV	54.0	-7.7	1.31 V	131	11.9	34.4	
3	*2402.00	96.7 PK			1.34 V	131	62.4	34.3	
4	*2402.00	95.6 AV			1.34 V	131	61.3	34.3	
5	4804.00	48.8 PK	74.0	-25.2	1.48 V	172	42.3	6.5	
6	4804.00	39.1 AV	54.0	-14.9	1.48 V	172	32.6	6.5	

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. The other emission levels were very low against the limit.

4. Margin value = Emission Level – Limit value

5. " \* ": Fundamental frequency.

CHANNEL	TX Channel 19	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	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	102.3 PK			1.43 H	356	68.0	34.3		
2	*2440.00	101.3 AV			1.43 H	356	67.0	34.3		
3	4880.00	47.7 PK	74.0	-26.3	1.42 H	181	42.0	5.7		
4	4880.00	35.2 AV	54.0	-18.8	1.42 H	181	29.5	5.7		
		ANTENN	A POLARITY	/ & TEST DI	STANCE: V	ERTICAL 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	98.8 PK			1.43 V	139	64.5	34.3		
2	*2440.00	97.8 AV			1.43 V	139	63.5	34.3		
3	4880.00	46.8 PK	74.0	-27.2	1.92 V	123	41.1	5.7		
4	4880.00	34.7 AV	54.0	-19.3	1.92 V	123	29.0	5.7		

#### 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. The other emission levels were very low against the limit.

4. Margin value = Emission Level – Limit value

5. " \* ": Fundamental frequency.



CHANNEL	TX Channel 39	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	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	*2480.00	100.8 PK			2.59 H	357	66.4	34.4	
2	*2480.00	99.6 AV			2.59 H	357	65.2	34.4	
3	2483.50	58.8 PK	74.0	-15.2	2.59 H	357	24.4	34.4	
4	2483.50	48.4 AV	54.0	-5.6	2.59 H	357	14.0	34.4	
5	4960.00	48.4 PK	74.0	-25.6	1.53 H	166	42.1	6.3	
6	4960.00	36.2 AV	54.0	-17.8	1.53 H	166	29.9	6.3	
		ANTENN	A POLARITY	/ & TEST DI	STANCE: V	ERTICAL AT	<sup>-</sup> 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	97.3 PK			1.35 V	131	62.9	34.4	
2	*2480.00	96.1 AV			1.35 V	131	61.7	34.4	
3	2483.50	58.9 PK	74.0	-15.1	1.35 V	131	24.5	34.4	
4	2483.50	48.4 AV	54.0	-5.6	1.35 V	131	14.0	34.4	
5	4960.00	47.6 PK	74.0	-26.4	2.01 V	111	41.3	6.3	
6	4960.00	35.5 AV	54.0	-18.5	2.01 V	111	29.2	6.3	

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. The other emission levels were very low against the limit.

4. Margin value = Emission Level – Limit value

5. " \* ": Fundamental frequency.



### Below 1GHz worst-case data:

CHANNEL	TX Channel 19	DETECTOR	Quasi Baak (QB)
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	34.22	27.0 QP	40.0	-13.0	1.00 H	307	37.5	-10.5			
2	87.64	26.8 QP	40.0	-13.2	1.99 H	162	41.2	-14.4			
3	150.90	26.2 QP	43.5	-17.3	1.50 H	153	34.8	-8.6			
4	246.49	25.3 QP	46.0	-20.7	1.99 H	184	34.0	-8.7			
5	370.20	37.8 QP	46.0	-8.2	1.99 H	183	42.9	-5.1			
6	600.75	34.6 QP	46.0	-11.4	1.00 H	149	34.3	0.3			

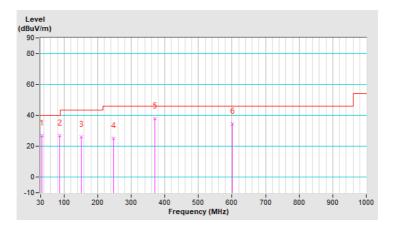
#### Remarks:

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 of frequency range 30MHz~1000MHz.
- 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	Ouaci Deak (OD)
FREQUENCY RANGE	9kHz ~ 1GHz	FUNCTION	Quasi-Peak (QP)

		ANTENN	A POLARITY	/ & TEST DI	STANCE: VI	ERTICAL AT	Г З М	
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	35.62	26.7 QP	40.0	-13.3	1.50 V	215	37.0	-10.3
2	87.64	27.5 QP	40.0	-12.5	1.99 V	170	41.9	-14.4
3	150.90	26.0 QP	43.5	-17.5	1.00 V	125	34.6	-8.6
4	246.49	25.2 QP	46.0	-20.8	1.99 V	157	33.9	-8.7
5	370.20	37.4 QP	46.0	-8.6	1.50 V	188	42.5	-5.1
6	600.75	33.3 QP	46.0	-12.7	1.00 V	255	33.0	0.3

Remarks:

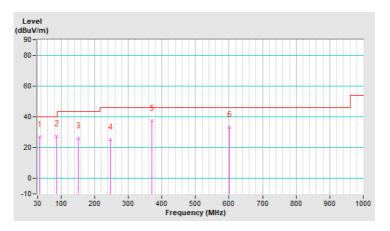
1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)

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 of frequency range 30MHz~1000MHz.

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

Frequency (MHz)	Conducted Limit (dBuV)				
Flequency (Miliz)	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 0.50MHz.

#### 4.2.2 Test Instruments

Tested date: Jun. 22, 2021

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver ROHDE & SCHWARZ	ESR3	102412	Jan. 29, 2021	Jan. 28, 2022
RF signal cable (with 10dB PAD) Woken	5D-FB	Cable-cond2-01	Sep. 04, 2020	Sep. 03, 2021
LISN ROHDE & SCHWARZ (EUT)	ESH2-Z5	100100	Jan. 28, 2021	Jan. 27, 2022
V-LISN ROHDE & SCHWARZ (Peripheral)	ESH3-Z5	100312	Aug. 18, 2020	Aug. 17, 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 2 (Conduction 2).

3. The VCCI Site Registration No. is C-12047.



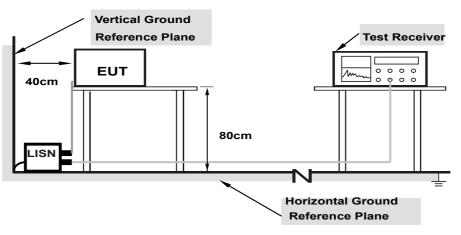
### 4.2.3 Test Procedures

- 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 item 4.1.6.

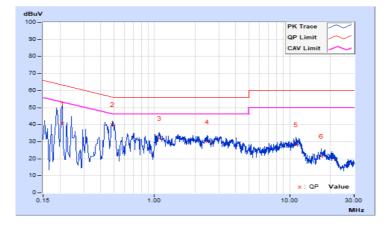


### 4.2.7 Test Results

Phase Line (L)				De	Detector Function Quasi-Peak (QP) / Average (AV)				/		
	_ Corr.		Reading Value E		Emissi	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	0.20865	10.08	30.78	9.78	40.86	19.86	63.26	53.26	-22.40	-33.40	
2	0.49017	10.10	30.08	21.99	40.18	32.09	56.16	46.16	-15.98	-14.07	
3	1.08444	10.14	21.71	12.85	31.85	22.99	56.00	46.00	-24.15	-23.01	
4	2.45690	10.17	19.78	13.63	29.95	23.80	56.00	46.00	-26.05	-22.20	
5	11.19966	10.33	17.99	9.73	28.32	20.06	60.00	50.00	-31.68	-29.94	
6	17.20151	10.41	10.98	2.18	21.39	12.59	60.00	50.00	-38.61	-37.41	

Remarks:

- 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.

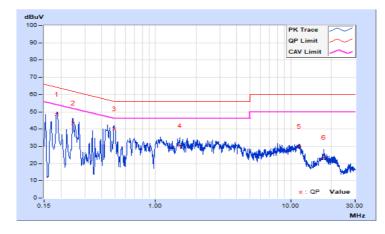




Phase	Phase Neutral (N)				C	Detector Function Quasi-Peak (QP) / Average (AV)				/	
	_ Cor		_ Co		Reading Value Emission Level		Lir	nit	Margin		
No	Freq.	Factor	or [dB (uV)]		V)] [dB (uV)]		[dB (	[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	
1	0.18519	10.08	38.39	27.19	48.47	37.27	64.25	54.25	-15.78	-16.98	
2	0.24472	10.08	33.43	19.70	43.51	l 29.78	61.93	51.93	-18.42	-22.15	
3	0.49408	10.11	30.05	23.63	40.16	33.74	56.10	46.10	-15.94	-12.36	
4	1.50677	10.16	20.24	13.13	30.40	23.29	56.00	46.00	-25.60	-22.71	
5	11.51246	10.44	19.50	8.78	29.94	19.22	60.00	50.00	-30.06	-30.78	
6	17.68244	10.59	12.92	2.52	23.51	I 13.11	60.00	50.00	-36.49	-36.89	

#### Remarks:

- 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.



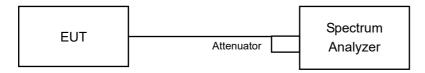


#### 4.3 6dB Bandwidth Measurement

#### 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)  $\ge$  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 fromTest Standard

No deviation.

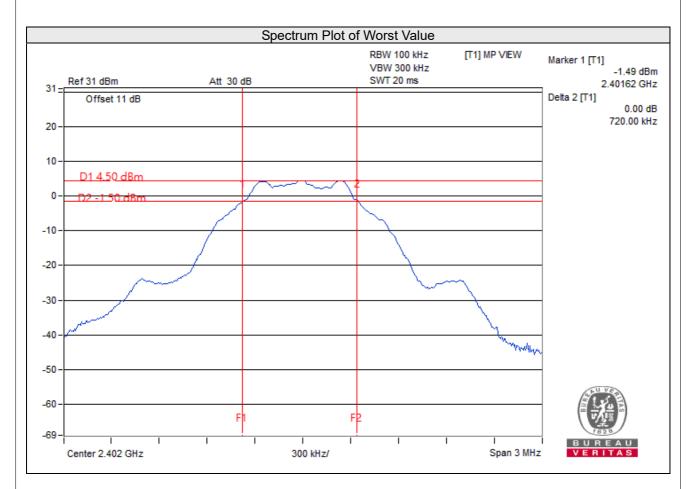
#### 4.3.6 EUT Operating Conditions

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



### 4.3.7 Test Result

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





#### 4.4 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

For Average Power

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	2.438	3.87	30	Pass
19	2440	3.304	5.19	30	Pass
39	2480	2.046	3.11	30	Pass



#### 4.5 **Power Spectral Density Measurement**

#### 4.5.1 Limits of Power Spectral Density Measurement

The Maximum of Power Spectral Density Measurement is 8dBm/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

For Average Power (Duty cycle < 98%)

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 kHz  $\leq$  RBW  $\leq$  100 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  $\ge 2 x$  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

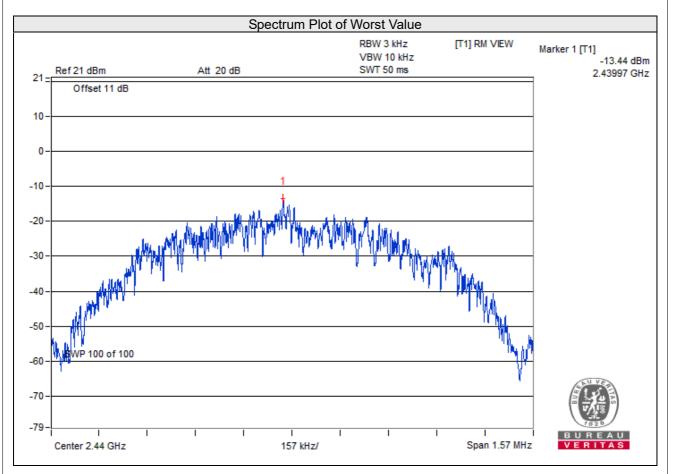
Same as item 4.3.6



### 4.5.7 Test Results

Channel	Freq. (MHz)	PSD w/o Duty Factor (dBm/3kHz)	Duty Factor (dB)	Total PSD With Duty Factor (dBm/3kHz)	Limit (dBm/3kHz)	Pass / Fail
0	2402	-15.60	2.27	-13.33	8	Pass
19	2440	-13.44	2.27	-11.17	8	Pass
39	2480	-14.30	2.27	-12.03	8	Pass

Note: Refer to section 3.3 for duty cycle spectrum plot.



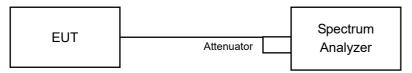


#### 4.6 Conducted Out of Band Emission Measurement

### 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  $\geq$  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 EBW.

#### Measurement Procedure OOBE

- a. Set RBW = 100 kHz.
- b. Set VBW  $\geq$  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.

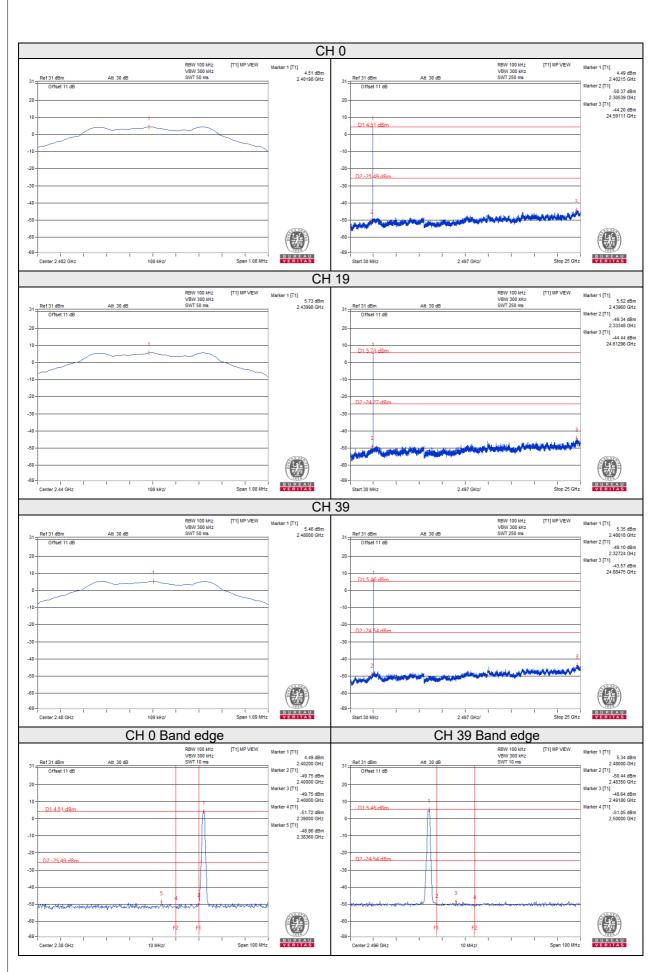
#### 4.6.6 EUT Operating Condition

Same as item 4.3.6

#### 4.6.7 Test Results

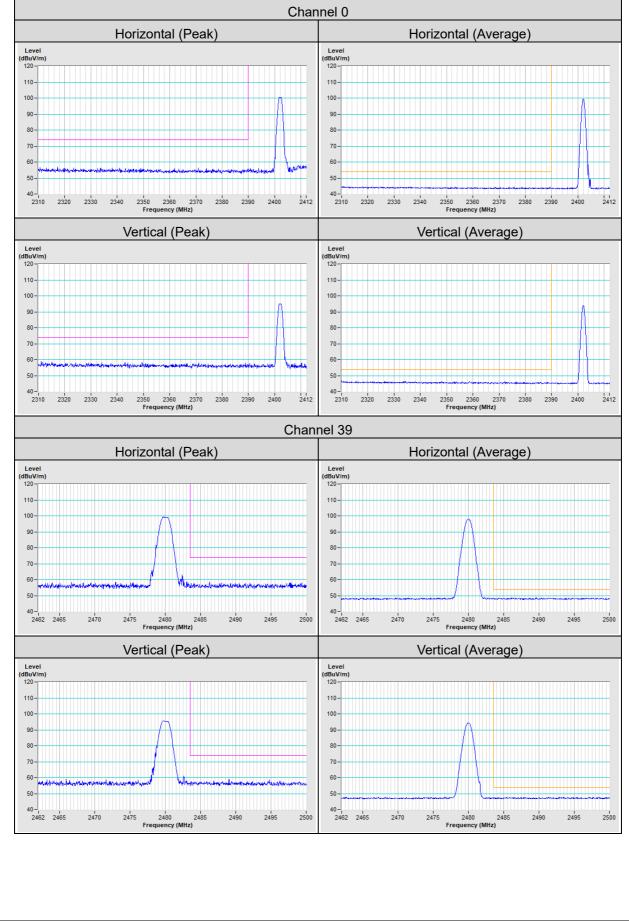
The spectrum plots are attached on the following pages. D1 line indicates the highest level, and D2 line indicates the 30dB offset below D1. It shows compliance with the requirement.













## 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 and approved according to ISO/IEC 17025.

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

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Email: <u>service.adt@tw.bureauveritas.com</u> Web Site: <u>www.bureauveritas-adt.com</u>

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

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