

FCC Test Report

Report No.: RFBCKS-WTW-P23010439-3

FCC ID: 2AAAS-CP07

Test Model: CP07

Received Date: 2023/1/29

Test Date: 2023/2/24 ~ 2023/4/24

Issued Date: 2023/4/26

Applicant: Vivint, Inc.

Address: 4931 N. 300 W., Provo, UT 84604 USA

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

Lab Address: E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300,
Taiwan

Test Location: E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300,
Taiwan

**FCC Registration /
Designation Number:** 723255 / TW2022



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Release Control Record

Issue No.	Description	Date Issued
RFBCKS-WTW-P23010439-3	Original release.	2023/4/26

1 Certificate of Conformity

Product: Vivint Smart Hub Pro

Brand: Vivint

Test Model: CP07

Sample Status: Engineering sample

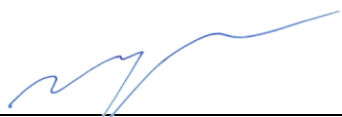
Applicant: Vivint, Inc.

Test Date: 2023/2/24 ~ 2023/4/24

Standards: 47 CFR FCC Part 15, Subpart C (Section 15.249)
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 EMC characteristics under the conditions specified in this report.

Prepared by :  , **Date:** 2023/4/26
Claire Kuan / Specialist

Approved by :  , **Date:** 2023/4/26
May Chen / Manager

2 Summary of Test Results

47 CFR FCC Part 15, Subpart C (SECTION 15.249)			
FCC Clause	Test Item	Result	Remarks
15.207	AC Power Conducted Emission	Pass	Meet the requirement of limit. Minimum passing margin is -10.46 dB at 0.43129 MHz.
15.209 15.249 15.249 (d)	Radiated Emission Test Band Edge Measurement Limit: 50dB less than the peak value of fundamental frequency or meet radiated emission limit in section 15.209	Pass	Meet the requirement of limit. Minimum passing margin is -1.0 dB at 908.40 MHz.
15.215 (c)	20dB Bandwidth	Pass	Meet the requirement of limit
15.203	Antenna Requirement	Pass	No antenna connector is used.

Note:

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

2.1 Measurement Uncertainty

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

Measurement	Frequency	Expanded Uncertainty (k=2) ($\pm$)
Radiated Emissions up to 1 GHz	9 kHz ~ 30 MHz	3.1 dB
	30 MHz ~ 1 GHz	5.5 dB
Radiated Emissions above 1 GHz	1 GHz ~ 18 GHz	5.1 dB
	18 GHz ~ 40 GHz	5.3 dB
	40 GHz ~ 100 GHz	3.1 dB

2.2 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	Vivint Smart Hub Pro
Brand	Vivint
Test Model	CP07
Status of EUT	Engineering sample
Power Supply Rating	12Vdc from power adapter
Modulation Type	FSK
Transfer Rate	9.6/40/100 kbit/s
Operating Frequency	908.4 ~ 916MHz
Number of Channel	3
Antenna Type	Refer to Note
Antenna Connector	Refer to Note
Accessory Device	Refer to Note
Cable Supplied	NA

Note:

1. The EUT uses following accessories.

Battery 1		
Brand	Model	Specification
EVE	HB1021	Power Rating : 3.6V
AC Adapter 1		
Brand	Model	Specification
ZB-Power	ZB-H120020A-88	AC Input : 100-240V, 50/60Hz, 0.6A DC Output : 12V, 2.0A DC Output Cable : 1.51m Plug : US
AC Adapter 2		
Brand	Model	Specification
Honor	ADS-24FUD-12 12024EPCU	AC Input : 100-240V, 50/60Hz, 0.6A DC Output : 12V, 2.0A DC Output Cable : 1.51m Plug : US

Note: From the above adapters, the radiated emissions & conducted emissions worse case was found in **AC Adapter 2**. Therefore only the test data of the mode was recorded in this report.

SIM Card	
	Brand
	VZW
SIM Card	
	Brand
	AT&T

2. There are Bluetooth, WLAN (2.4 GHz & 5 GHz), WWAN(LTE), Z-wave and DECT technology used for the EUT.

3. Simultaneously transmission condition.

Condition	Technology			
1	Bluetooth	WWAN	Z-wave	DECT
2	WLAN (2.4 GHz)	Bluetooth	Z-wave	DECT
3	WLAN (5 GHz)	Bluetooth	Z-wave	DECT

Note: The emission of the simultaneous operation has been evaluated and no non-compliance was found.

4. The antenna information is listed as below.

RF Chain NO.	Brand	Model	Antenna Net Gain(dBi)	Frequency range	Antenna Type	Connector Type
WLAN (chain 0)	WNC	95XKAB15.GA4	2.76	2.4~2.4835GHz	Dipole	ipex(MHF)
			2.65	5.15~5.85GHz		
WLAN (chain 1)	WNC	95XKAB15.GA5	2.90	2.4~2.4835GHz	Dipole	ipex(MHF)
			2.06	5.15~5.85GHz		
BT 2.4G	WNC	On board	0.15	2.4~2.4835GHz	PIFA	none
Z-Wave	WNC	48XKAB2C.0GAFHYE	0.77	908-916MHz	PIFA	none
345MHz (Rx Only)	WNC	3S.004KJ.111	1.02	345 MHz	Dipole	none
LTE Main	WNC	48XKAB20.0GAFHYE	1.23	1850 -1910MHz	PIFA	none
			0.21	1710-1755MHz		
			0.41	824-849 MHz		
			0.00	698-716MHz		
			0.22	777-787MHz		
LTE AUX	WNC	95XKAB15.GA3	1.12	1850 -1910MHz	PIFA	ipex(MHF)
			0.80	1710-1755MHz		
			-1.14	824-849 MHz		
			-3.42	698-716MHz		
			-2.04	777-787MHz		
DECT (ANT0)	WNC	95XKAB15.0GA	3.40	1920MHz-1930MHz	Dipole	none
DECT (ANT1)	WNC	95XKAB15.0GA	3.60	1920MHz-1930MHz	Dipole	none

5. The EUT contains certified WWAN module which FCC ID: XMR201909EG91NAX (Brand: QUECTEL; Model: EG91-NAX).

6. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

7. Detail antenna specification please refer to antenna datasheet and/or antenna measurement report.

3.2 Description of Test Modes

3 channels are provided to this EUT:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	908.4 (40kbit/s)	3	916 (100kbit/s)
2	908.42 (9.6kbit/s)		

3.2.1 Test Mode Applicability and Tested Channel Detail

EUT CONFIGURE MODE	APPLICABLE TO				DESCRIPTION
	RE≥1G	RE<1G	PLC	BW	
-	√	√	√	√	-

Where **RE≥1G**: Radiated Emission above 1GHz & Bandedge Measurement **RE<1G**: Radiated Emission below 1GHz

PLC: Power Line Conducted Emission

BW: 20dB Bandwidth Measurement

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

AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TYPE
1 to 3	1, 2, 3	FSK

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.

AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TYPE
1 to 3	1, 2, 3	FSK

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.

AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TYPE
1 to 3	2	FSK

20dB Bandwidth 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.

AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TYPE
1 to 3	1, 2, 3	FSK

Test Condition:

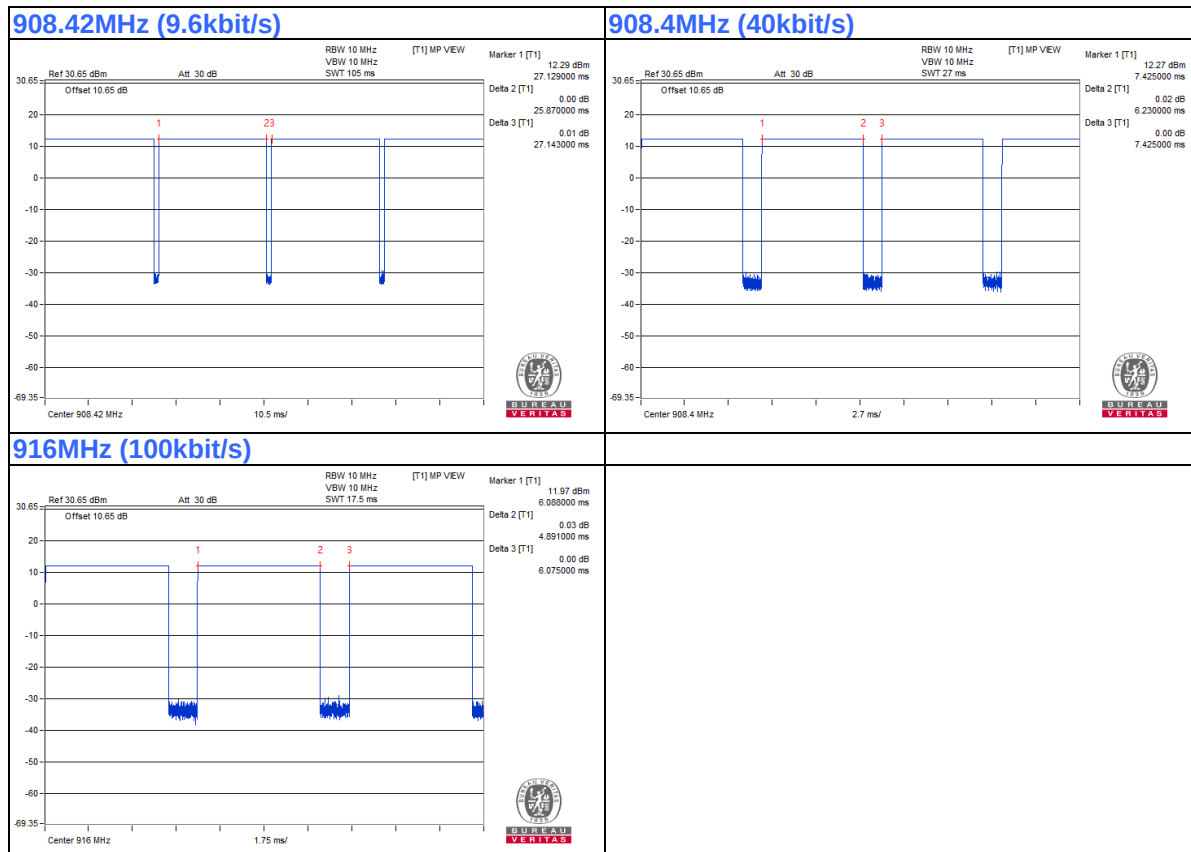
APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
RE≥1G	24deg. C, 68%RH	120Vac, 60Hz	Tom Yang
RE<1G	26deg. C, 68%RH	120Vac, 60Hz	Tom Yang
PLC	25deg. C, 75%RH	120Vac, 60Hz	Carter Lin
BW	25deg. C, 60%RH	120Vac, 60Hz	John Peng

3.3 Duty Cycle of Test Signal

908.42MHz (9.6kbit/s): Duty cycle = 25.87 ms / 27.143 ms x 100% = 95.3%, duty factor = 10 * log (1/Duty cycle) = 0.21 dB

908.4MHz (40kbit/s): Duty cycle = 6.23 ms / 7.425 ms x 100% = 83.9%, duty factor = 10 * log (1/Duty cycle) = 0.76 dB

916MHz (100kbit/s): Duty cycle = 4.891 ms / 6.075 ms x 100% = 80.5%, duty factor = 10 * log (1/Duty cycle) = 0.94 dB



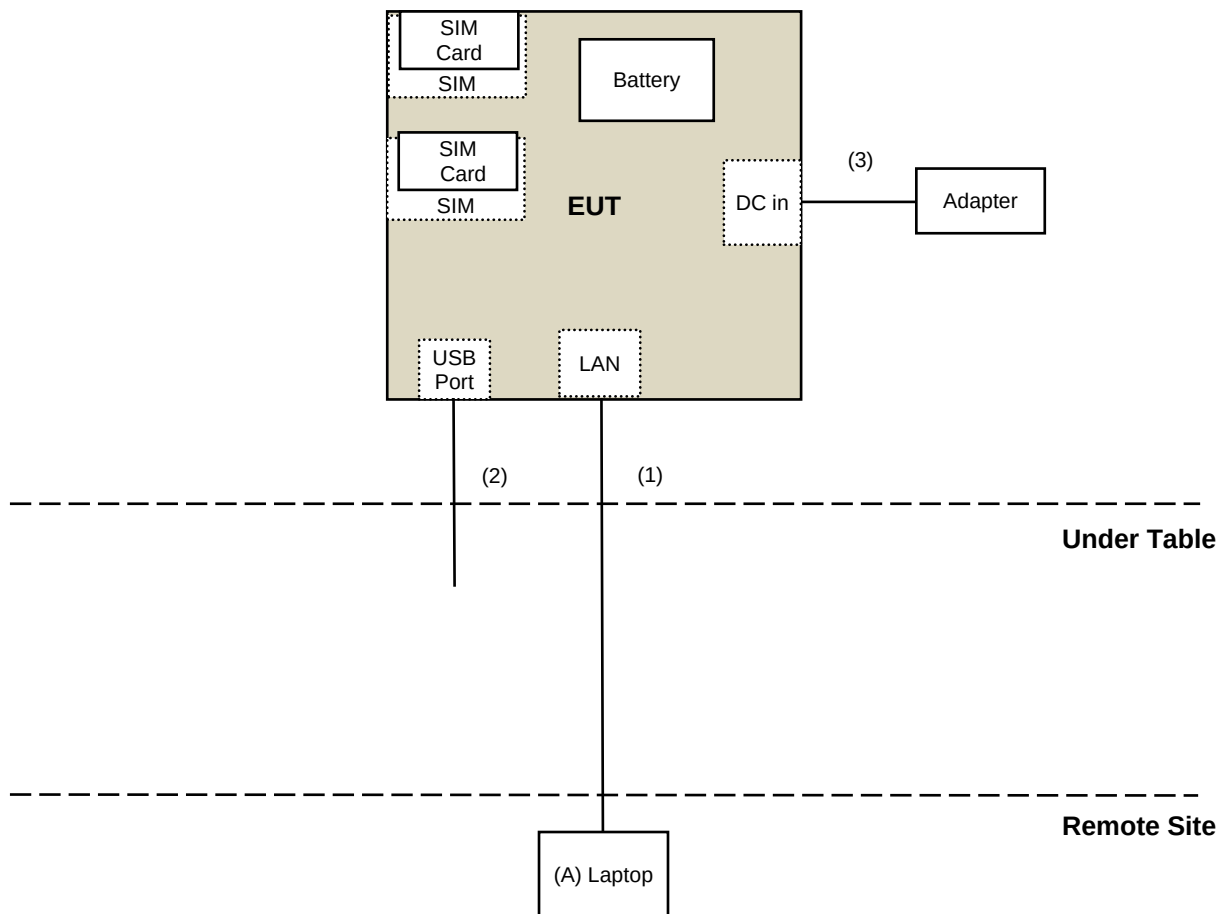
3.4 Description of Support Units

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	Laptop	Lenovo	20U5S01X00 L14	PF-1ANPYA	N/A	Provided by Lab

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	RJ 45	1	10	No	0	Provided by Lab
2	Micro USB Cable	1	1	No	0	Provided by Lab
3	DC Cable	1	1.51	No	0	Supplied by applicant

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 (15.249)

ANSI C63.10-2013

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

4 Test Types and Results

4.1 Radiated Emission and Bandedge Measurement

4.1.1 Limits of Radiated Emission and Bandedge Measurement

The field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following

Fundamental Frequency	Field Strength of Fundamental (millivolts/meter)	Field Strength of Harmonics (microvolts/meter)
902 ~ 928 MHz	50	500
2400 ~ 2483.5 MHz	50	500
5725 ~ 5875 MHz	50	500
24 ~ 24.25 GHz	250	2500

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits as below table, whichever is the lesser attenuation

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 ~ 0.490	$2400/F(\text{kHz})$	300
0.490 ~ 1.705	$24000/F(\text{kHz})$	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

For radiated emission test:

Description & Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Spectrum Analyzer KEYSIGHT	N9030B	MY57142938	2022/4/26	2023/4/25
Software	ADT_Radiated_V8.7.08	NA	NA	NA
Boresight Antenna Tower & Turn Table Max-Full	MF-7802BS	MF780208530	NA	NA
Pre_Amplifier Agilent	8447D	2944A10636	2023/3/12	2024/3/11
LOOP ANTENNA Electro-Metrics	EM-6879	264	2023/2/21	2024/2/20
RF Coaxial Cable JYEBO	5D-FB	LOOPCAB-001	2022/12/19	2023/12/18
RF Coaxial Cable JYEBO	5D-FB	LOOPCAB-002	2022/12/19	2023/12/18
Pre_Amplifier EMCI	EMC330N	980701	2023/2/18	2024/2/17
Trilog Broadband Antenna Schwarzbeck	VULB 9168	9168-406	2022/10/21	2023/10/20
RF Coaxial Cable COMMATE/PEWC	8D	966-4-1	2023/2/18	2024/2/17
RF Coaxial Cable COMMATE/PEWC	8D	966-4-2	2023/2/18	2024/2/17
RF Coaxial Cable COMMATE/PEWC	8D	966-4-3	2023/2/18	2024/2/17
Fixed attenuator Mini-Circuits	UNAT-5+	PAD-ATT5-03	2022/12/28	2023/12/27
Horn Antenna Schwarzbeck	BBHA 9120D	9120D-783	2022/11/13	2023/11/12
Pre_Amplifier EMCI	EMC12630SE	980688	2022/10/4	2023/10/3
RF Cable-Frequency Range : 1-26.5GHz EMCI	EMC104-SM-SM-1200	160922	2022/12/15	2023/12/14
RF Coaxial Cable EMCI	EMC104-SM-SM-2000	180502	2022/4/25	2023/4/24
RF Coaxial Cable EMCI	EMC104-SM-SM-6000	210704	2022/11/4	2023/11/3
Pre_Amplifier EMCI	EMC184045SE	980387	2022/12/28	2023/12/27
Horn Antenna Schwarzbeck	BBHA 9170	9170-739	2022/11/13	2023/11/12
RF Cable-Frequency range: 1-40GHz EMCI	EMC102-KM-KM-1200	160924	2022/12/28	2023/12/27
RF Coaxial Cable EMCI	EMC-KM-KM-4000	200214	2023/2/20	2024/2/19

Note: 1. The test was performed in 966 Chamber No. 4.

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

3. Tested Date: 2023/4/24

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 30MHz to 10GHz

- 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:

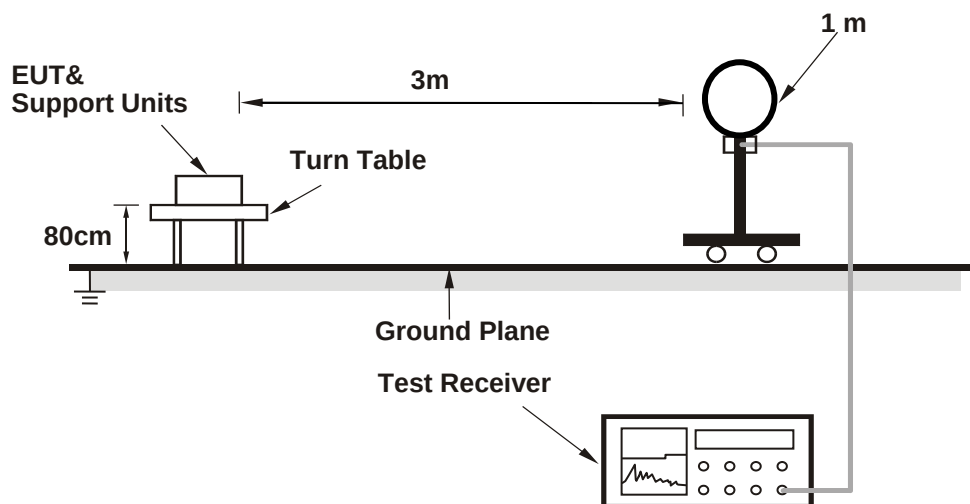
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. All modes of operation were investigated and the worst-case emissions are reported.

4.1.4 Deviation from Test Standard

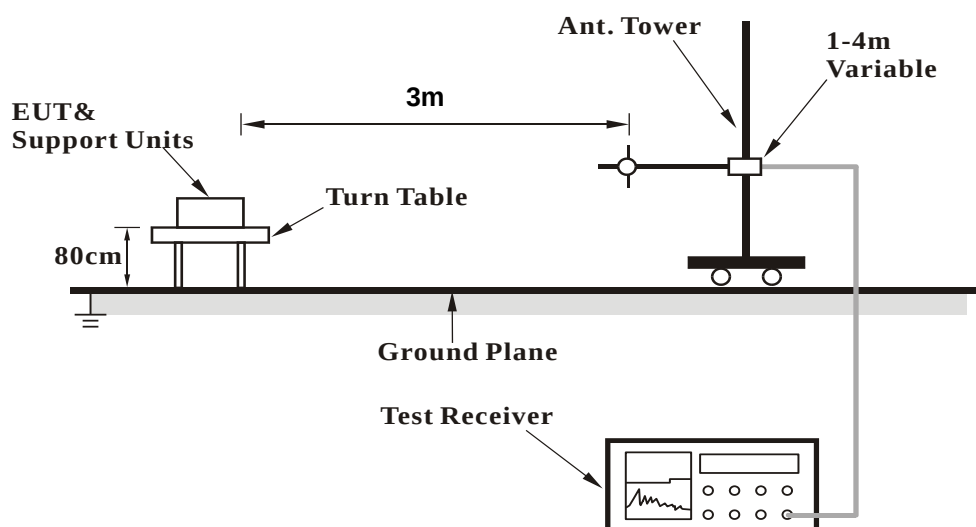
No deviation.

4.1.5 Test Setup

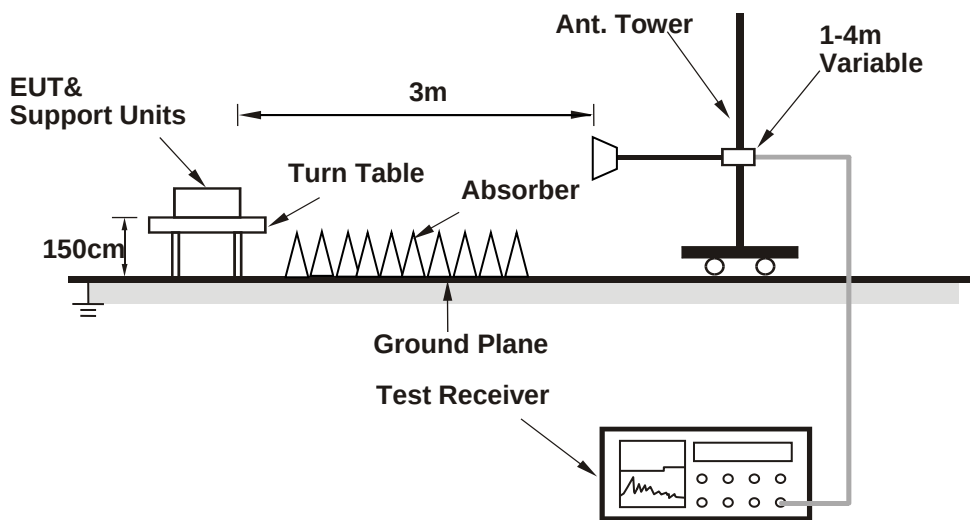
For Radiated emission below 30MHz



For Radiated emission 30MHz to 1GHz



For Radiated emission 1GHz to 10GHz



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

4.1.6 EUT Operating Conditions

- Placed the EUT on the testing table.
- Controlling software (Putty.exe paste zwave_command.txt) has been activated to set the EUT under transmission condition continuously at specific channel frequency.

4.1.7 Test Results

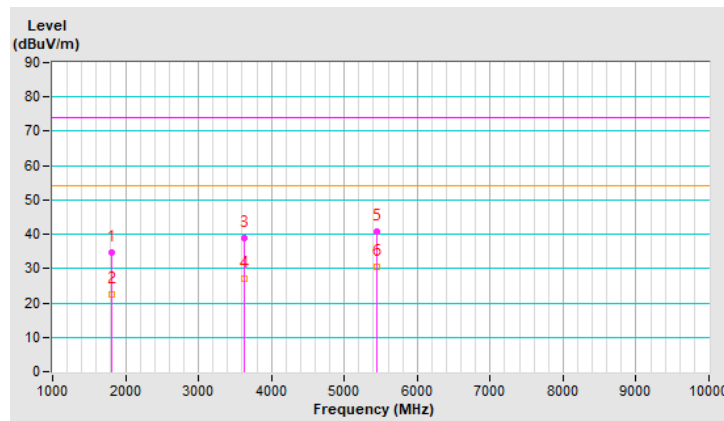
Above 1GHz Data :

RF Mode	Zwave	Channel	CH 1 : 908.4 MHz
Frequency Range	1 GHz ~ 10 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 200 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 72% RH
Tested By	Tom Yang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1816.80	34.7 PK	74.0	-39.3	1.86 H	42	38.3	-3.6
2	1816.80	22.6 AV	54.0	-31.4	1.86 H	42	26.2	-3.6
3	3633.60	38.9 PK	74.0	-35.1	1.63 H	202	37.9	1.0
4	3633.60	27.2 AV	54.0	-26.8	1.63 H	202	26.2	1.0
5	5450.40	40.8 PK	74.0	-33.2	1.54 H	301	36.4	4.4
6	5450.40	30.4 AV	54.0	-23.6	1.54 H	301	26.0	4.4

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.

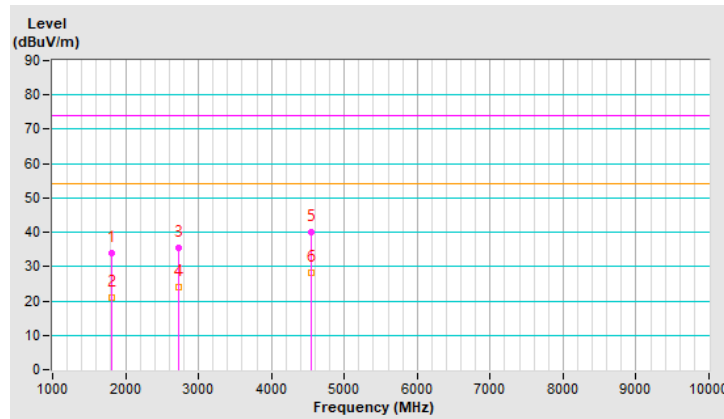


RF Mode	Zwave	Channel	CH 1 : 908.4 MHz
Frequency Range	1 GHz ~ 10 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 200 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 72% RH
Tested By	Tom Yang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1816.80	33.9 PK	74.0	-40.1	1.42 V	168	37.5	-3.6
2	1816.80	21.1 AV	54.0	-32.9	1.42 V	168	24.7	-3.6
3	2725.20	35.3 PK	74.0	-38.7	1.63 V	243	35.9	-0.6
4	2725.20	24.0 AV	54.0	-30.0	1.63 V	243	24.6	-0.6
5	4542.00	40.1 PK	74.0	-33.9	2.00 V	106	37.4	2.7
6	4542.00	28.2 AV	54.0	-25.8	2.00 V	106	25.5	2.7

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.

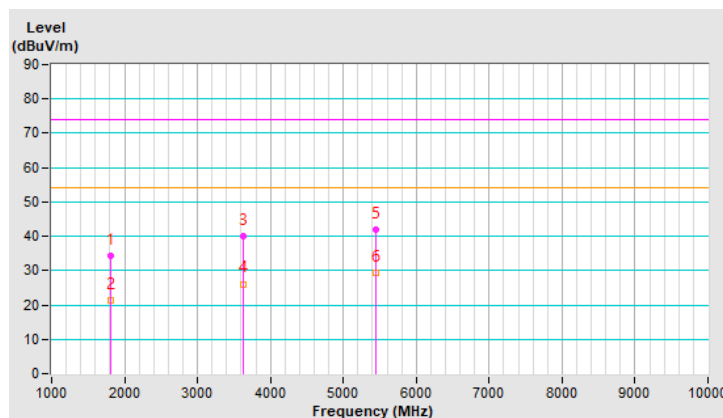


RF Mode	Zwave	Channel	CH 2 : 908.42 MHz
Frequency Range	1 GHz ~ 10 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 200 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 72% RH
Tested By	Tom Yang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1816.84	34.1 PK	74.0	-39.9	1.82 H	61	37.7	-3.6
2	1816.84	21.4 AV	54.0	-32.6	1.82 H	61	25.0	-3.6
3	3633.68	40.1 PK	74.0	-33.9	1.70 H	231	39.1	1.0
4	3633.68	26.1 AV	54.0	-27.9	1.70 H	231	25.1	1.0
5	5450.52	41.9 PK	74.0	-32.1	1.65 H	288	37.5	4.4
6	5450.52	29.3 AV	54.0	-24.7	1.65 H	288	24.9	4.4

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.

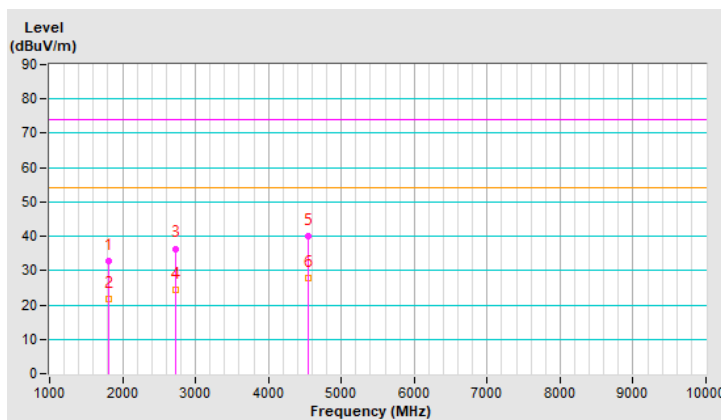


RF Mode	Zwave	Channel	CH 2 : 908.42 MHz
Frequency Range	1 GHz ~ 10 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 200 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 72% RH
Tested By	Tom Yang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1816.84	32.9 PK	74.0	-41.1	1.40 V	147	36.5	-3.6
2	1816.84	21.7 AV	54.0	-32.3	1.40 V	147	25.3	-3.6
3	2725.26	36.4 PK	74.0	-37.6	1.59 V	223	37.0	-0.6
4	2725.26	24.4 AV	54.0	-29.6	1.59 V	223	25.0	-0.6
5	4542.10	39.9 PK	74.0	-34.1	1.81 V	122	37.2	2.7
6	4542.10	27.9 AV	54.0	-26.1	1.81 V	122	25.2	2.7

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.

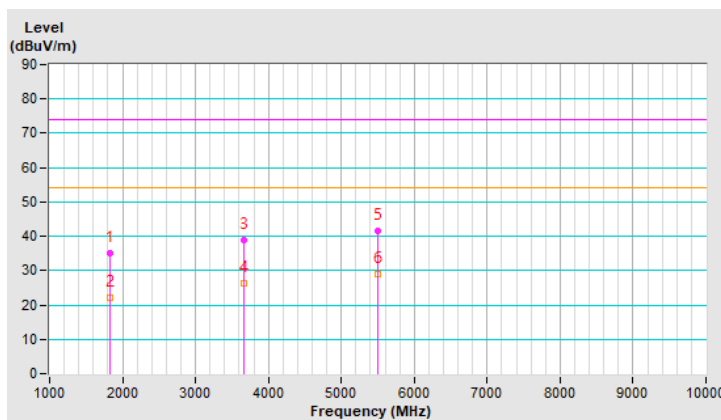


RF Mode	Zwave	Channel	CH 3 : 916 MHz
Frequency Range	1 GHz ~ 10 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 200 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 72% RH
Tested By	Tom Yang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1832.00	35.1 PK	74.0	-38.9	1.35 H	219	38.6	-3.5
2	1832.00	22.0 AV	54.0	-32.0	1.35 H	219	25.5	-3.5
3	3664.00	38.8 PK	74.0	-35.2	1.44 H	157	37.7	1.1
4	3664.00	26.2 AV	54.0	-27.8	1.44 H	157	25.1	1.1
5	5496.00	41.6 PK	74.0	-32.4	1.78 H	257	37.1	4.5
6	5496.00	29.0 AV	54.0	-25.0	1.78 H	257	24.5	4.5

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. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.

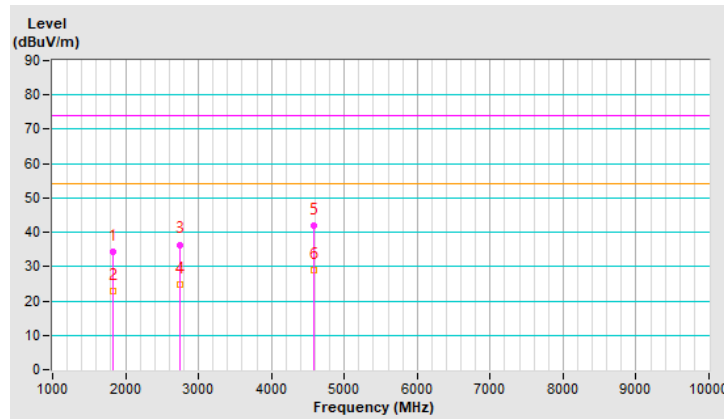


RF Mode	Zwave	Channel	CH 3 : 916 MHz
Frequency Range	1 GHz ~ 10 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 200 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 72% RH
Tested By	Tom Yang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1832.00	34.4 PK	74.0	-39.6	1.59 V	183	37.9	-3.5
2	1832.00	22.7 AV	54.0	-31.3	1.59 V	183	26.2	-3.5
3	2748.00	36.4 PK	74.0	-37.6	1.81 V	235	36.9	-0.5
4	2748.00	24.8 AV	54.0	-29.2	1.81 V	235	25.3	-0.5
5	4580.00	42.0 PK	74.0	-32.0	2.09 V	77	39.2	2.8
6	4580.00	28.9 AV	54.0	-25.1	2.09 V	77	26.1	2.8

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.



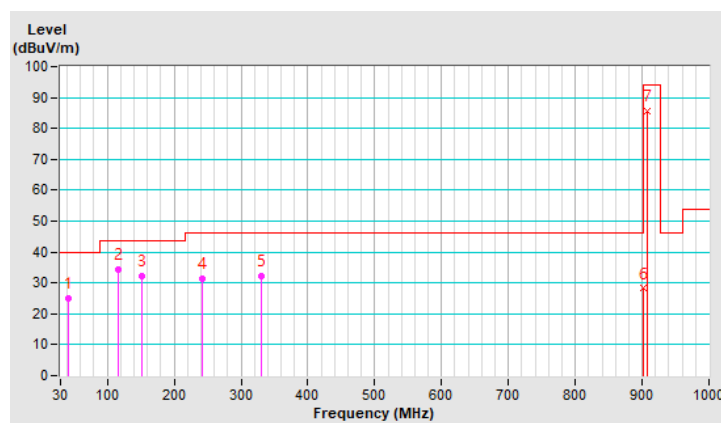
Below 1GHz Data:

RF Mode	Zwave	Channel	CH 1 : 908.4 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	(QP) RB = 120kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	26°C, 68% RH
Tested By	Tom Yang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	42.12	25.2 QP	40.0	-14.8	2.00 H	231	38.0	-12.8
2	115.93	34.5 QP	43.5	-9.0	3.00 H	299	49.0	-14.5
3	150.82	32.3 QP	43.5	-11.2	2.00 H	237	44.2	-11.9
4	242.94	31.3 QP	46.0	-14.7	1.50 H	257	44.4	-13.1
5	330.24	32.1 QP	46.0	-13.9	1.00 H	285	42.0	-9.9
6	902.00	28.2 QP	46.0	-17.8	1.58 H	175	24.9	3.3
7	*908.40	85.5 QP	94.0	-8.5	1.58 H	175	82.1	3.4

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 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.
5. " * ": Fundamental frequency.

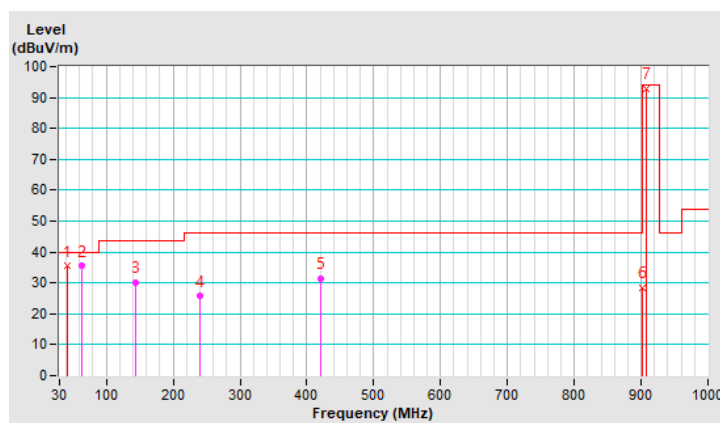


RF Mode	Zwave	Channel	CH 1 : 908.4 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	(QP) RB = 120kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	26°C, 68% RH
Tested By	Tom Yang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	42.12	35.4 QP	40.0	-4.6	1.00 V	284	48.2	-12.8
2	63.40	35.4 QP	40.0	-4.6	1.50 V	137	48.9	-13.5
3	143.00	30.2 QP	43.5	-13.3	1.00 V	299	42.3	-12.1
4	240.61	25.7 QP	46.0	-20.3	1.50 V	339	38.9	-13.2
5	420.46	31.5 QP	46.0	-14.5	1.50 V	358	38.6	-7.1
6	902.00	28.6 QP	46.0	-17.4	1.22 V	244	25.3	3.3
7	*908.40	93.0 QP	94.0	-1.0	1.22 V	244	89.6	3.4

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 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.
5. " * ": Fundamental frequency.

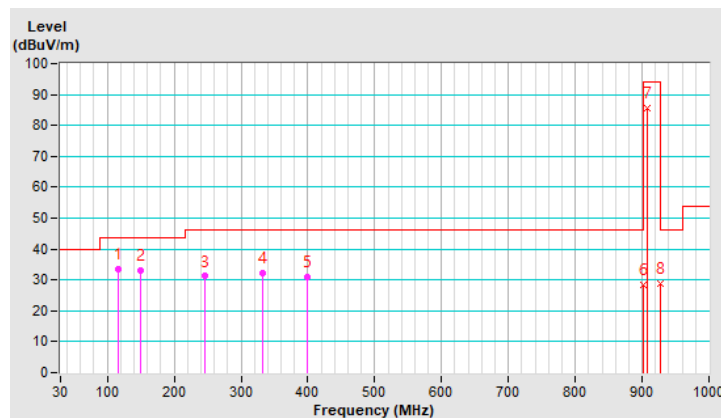


RF Mode	Zwave	Channel	CH 2 : 908.42 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	(QP) RB = 120kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	26°C, 68% RH
Tested By	Tom Yang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	116.80	33.5 QP	43.5	-10.0	1.50 H	294	47.9	-14.4
2	149.17	33.2 QP	43.5	-10.3	1.50 H	254	45.1	-11.9
3	246.65	31.2 QP	46.0	-14.8	1.00 H	333	44.1	-12.9
4	332.22	32.4 QP	46.0	-13.6	1.00 H	333	42.2	-9.8
5	398.94	31.0 QP	46.0	-15.0	1.50 H	55	38.9	-7.9
6	902.00	28.5 QP	46.0	-17.5	1.67 H	175	25.2	3.3
7	*908.42	85.6 QP	94.0	-8.4	1.67 H	175	82.2	3.4
8	928.00	28.9 QP	46.0	-17.1	1.67 H	175	25.1	3.8

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 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.
5. " * ": Fundamental frequency.

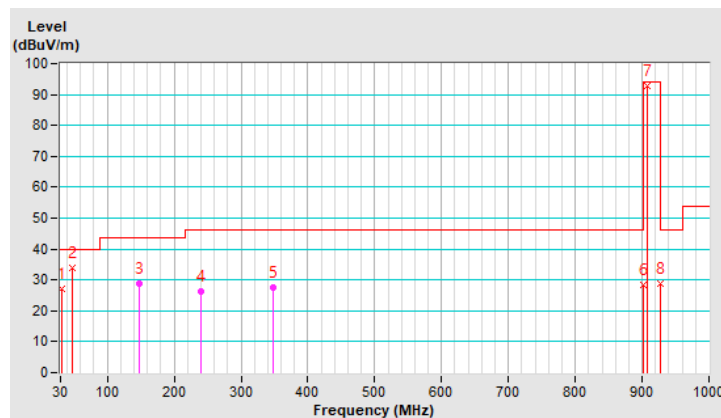


RF Mode	Zwave	Channel	CH 2 : 908.42 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	(QP) RB = 120kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	26°C, 68% RH
Tested By	Tom Yang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	31.45	27.2 QP	40.0	-12.8	1.00 V	194	41.0	-13.8
2	48.11	33.8 QP	40.0	-6.2	2.00 V	135	46.3	-12.5
3	147.69	28.7 QP	43.5	-14.8	1.00 V	299	40.7	-12.0
4	241.02	26.3 QP	46.0	-19.7	1.50 V	333	39.5	-13.2
5	347.44	27.6 QP	46.0	-18.4	2.00 V	5	37.2	-9.6
6	902.00	28.5 QP	46.0	-17.5	1.29 V	235	25.2	3.3
7	*908.42	92.9 QP	94.0	-1.1	1.29 V	235	89.5	3.4
8	928.00	28.9 QP	46.0	-17.1	1.29 V	235	25.1	3.8

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 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.
5. " * ": Fundamental frequency.

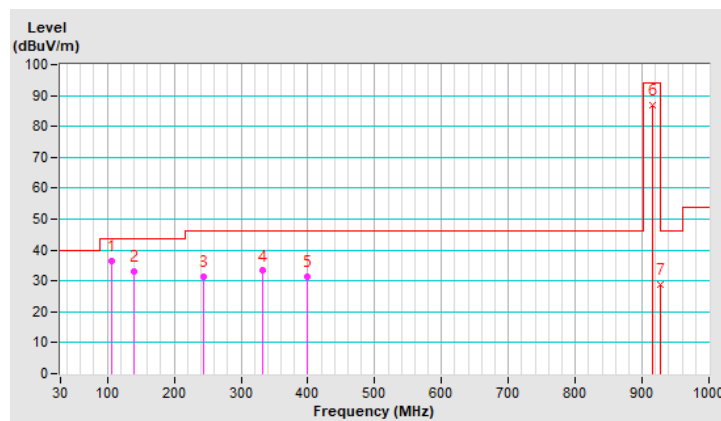


RF Mode	Zwave	Channel	CH 3 : 916 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	(QP) RB = 120kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	26°C, 68% RH
Tested By	Tom Yang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	107.04	36.5 QP	43.5	-7.0	3.00 H	294	51.8	-15.3
2	140.31	33.1 QP	43.5	-10.4	1.50 H	255	45.4	-12.3
3	244.50	31.3 QP	46.0	-14.7	1.50 H	284	44.4	-13.1
4	332.50	33.3 QP	46.0	-12.7	1.00 H	309	43.1	-9.8
5	400.07	31.5 QP	46.0	-14.5	1.00 H	58	39.4	-7.9
6	*916.00	86.9 QP	94.0	-7.1	1.55 H	164	83.3	3.6
7	928.00	28.9 QP	46.0	-17.1	1.55 H	164	25.1	3.8

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 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.
5. " * ": Fundamental frequency.

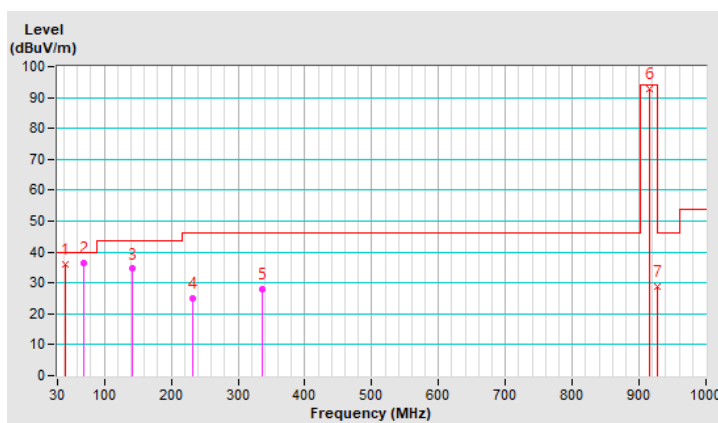


RF Mode	Zwave	Channel	CH 3 : 916 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	(QP) RB = 120kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	26°C, 68% RH
Tested By	Tom Yang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	42.16	36.1 QP	40.0	-3.9	1.00 V	133	48.9	-12.8
2	68.81	36.4 QP	40.0	-3.6	1.00 V	95	51.0	-14.6
3	142.17	34.6 QP	43.5	-8.9	1.50 V	294	46.8	-12.2
4	232.02	25.2 QP	46.0	-20.8	1.00 V	239	39.3	-14.1
5	337.00	27.9 QP	46.0	-18.1	1.00 V	10	37.7	-9.8
6	*916.00	92.9 QP	94.0	-1.1	1.19 V	220	89.3	3.6
7	928.00	28.9 QP	46.0	-17.1	1.19 V	230	25.1	3.8

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 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.
5. " * ": Fundamental frequency.



4.2 Conducted Emission Measurement

4.2.1 Limits of Conducted Emission Measurement

Frequency (MHz)	Conducted Limit (dBuV)	
	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

Description & Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
TEST RECEIVER R&S	ESCS 30	847124/029	2022/10/14	2023/10/13
LISN R&S	ESH3-Z5	848773/004	2022/10/18	2023/10/17
50 ohm terminal resistance NA	NA	EMC-01	2022/9/27	2023/9/26
RF Coaxial Cable JYEBO	5D-FB	COCCAB-001	2022/8/24	2023/8/23
Fixed attenuator STI	STI02-2200-10	005	2022/8/24	2023/8/23
Software BVADT	BVADT_Cond_V7.3.7.4	NA	NA	NA

Note: 1. The test was performed in Conduction 1.

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

3. Tested Date: 2023/2/24

4.2.3 Test Procedures

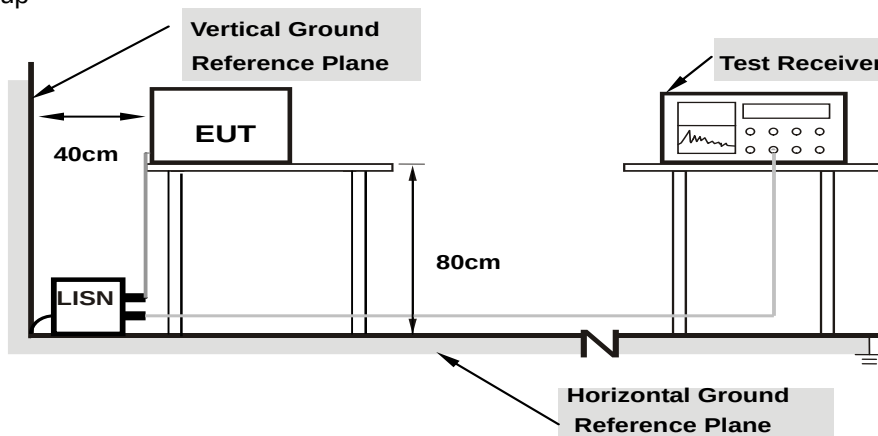
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance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

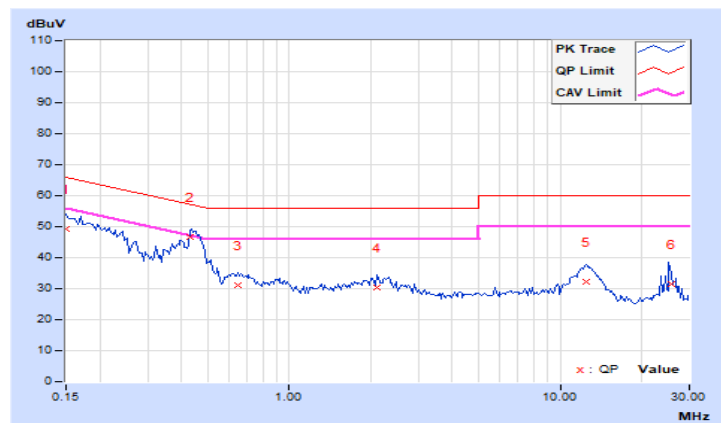
4.2.7 Test Results

RF Mode	Zwave	Channel	CH 2 : 908.42 MHz
Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Carter Lin		

Phase Of Power : Line (L)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	9.96	39.31	21.86	49.27	31.82	66.00	56.00	-16.73	-24.18
2	0.43129	9.97	36.80	24.48	46.77	34.45	57.23	47.23	-10.46	-12.78
3	0.65000	9.98	21.24	13.29	31.22	23.27	56.00	46.00	-24.78	-22.73
4	2.11712	10.06	20.19	13.51	30.25	23.57	56.00	46.00	-25.75	-22.43
5	12.40623	10.64	21.76	14.46	32.40	25.10	60.00	50.00	-27.60	-24.90
6	25.87501	11.19	20.25	13.34	31.44	24.53	60.00	50.00	-28.56	-25.47

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

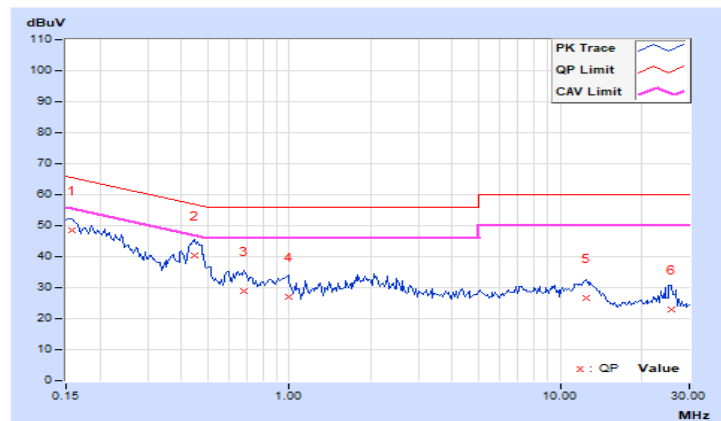


RF Mode	Zwave	Channel	CH 2 : 908.42 MHz
Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Carter Lin		

Phase Of Power : Neutral (N)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15789	9.93	38.47	22.19	48.40	32.12	65.57	55.57	-17.17	-23.45
2	0.44680	9.94	30.53	25.57	40.47	35.51	56.93	46.93	-16.46	-11.42
3	0.68123	9.95	18.81	10.85	28.76	20.80	56.00	46.00	-27.24	-25.20
4	0.98986	9.97	16.90	9.69	26.87	19.66	56.00	46.00	-29.13	-26.34
5	12.43752	10.48	16.08	11.58	26.56	22.06	60.00	50.00	-33.44	-27.94
6	25.87104	10.86	12.11	6.79	22.97	17.65	60.00	50.00	-37.03	-32.35

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 20dB Bandwidth Measurement

4.3.1 Limits of 20dB Bandwidth Measurement

The 20dB bandwidth shall be specified in operating frequency band.

4.3.2 Test Instruments

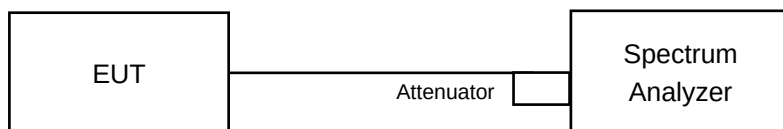
Description & Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Spectrum Analyzer R&S	FSV40	101516	2022/3/7	2023/3/6
Attenuator WOKEN	MDCS18N-10	MDCS18N-10-01	2022/4/5	2023/4/4
Software	ADT_RF Test Software V6.6.5.4	NA	NA	NA

- Note: 1. The test was performed in Oven room 2.
 2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
 3. Tested Date: 2023/3/2

4.3.3 Test Procedure

The bandwidth of the fundamental frequency was measured by spectrum analyzer with 3 MHz RBW and 10 MHz VBW. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

4.3.4 Test Setup



4.3.5 Deviation from Test Standard

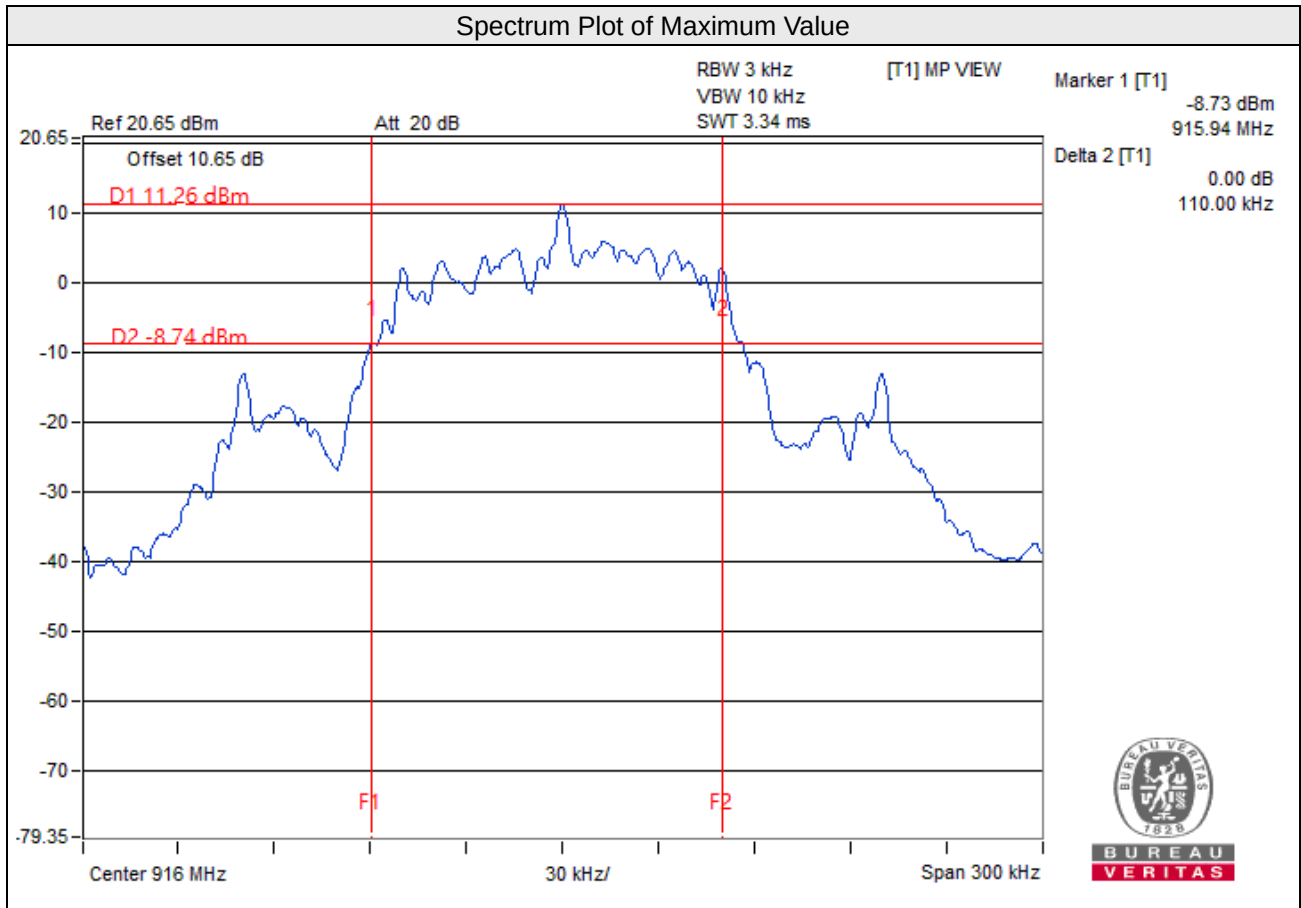
No deviation.

4.3.6 EUT Operating Condition

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

4.3.7 Test Results

Frequency (GHz)	20dB Bandwidth (MHz)
908.4	0.09
908.42	0.09
916	0.11



5 Pictures of Test Arrangements

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

Appendix – Information of the Testing Laboratories

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

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

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Web Site: www.bureauveritas-adt.com

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

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