FCC Test Report

(Co-Located)

Report No.:	RF161229C25G-2
FCC ID:	PY317400404
Test Model:	RBR40
Series Model:	RBS40
Received Date:	Dec. 22, 2016
Test Date:	Mar. 01 ~ Mar. 29, 2017
Issued Date:	Feb. 02, 2018
Applicant:	NETGEAR, INC.
Address:	350 East Plumeria Drive San Jose, CA 95134
Issued By:	Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Lab Address:	No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan, R.O.C.
Test Location:	No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City 33383, TAIWAN (R.O.C.)
FCC Registration/ Designation Number:	788550 / TW0003

Testing Laboratory
2021

Table of Contents

Release Control Record 3

1 Certificate of Conformity 4

2 Summary of Test Results 5

2.1 Measurement Uncertainty 5
2.2 Modification Record 5

3 General Information 6

3.1 General Description of EUT 6
3.2 Description of Test Modes 9
3.2.1 Test Mode Applicability and Tested Channel Detail 12
3.3 Description of Support Units 15
3.3.1 Configuration of System under Test 15
3.4 General Description of Applied Standards 15

4 Test Types and Results 16

4.1 Radiated Emission and Bandedge Measurement 16
4.1.1 Limits of Radiated Emission and Bandedge Measurement 16
4.1.2 Test Instruments 17
4.1.3 Test Procedures 18
4.1.4 Deviation from Test Standard 18
4.1.5 Test Setup 19
4.1.6 EUT Operating Conditions 20
4.1.7 Test Results 21
4.2 Conducted Emission Measurement 53
4.2.1 Limits of Conducted Emission Measurement 53
4.2.2 Test Instruments 53
4.2.3 Test Procedures 54
4.2.4 Deviation from Test Standard 54
4.2.5 Test Setup 54
4.2.6 EUT Operating Conditions 54
4.2.7 Test Results 55

5 Pictures of Test Arrangements 87

Appendix – Information on the Testing Laboratories 88

Release Control Record

Issue No.	Description	Date Issued
RF161229C25G-2	Original release	Feb. 02, 2018

1 Certificate of Conformity

Product:	Orbi Router, Orbi Satellite
Brand:	NETGEAR
Test Model:	RBR40
Series Model:	RBS40
Sample Status:	Engineering sample
Applicant:	NETGEAR, INC.
Test Date:	Mar. 01 ~ Mar. 29, 2017
Standards:	47 CFR FCC Part 15, Subpart C (Section 15.247) 47 CFR FCC Part 15, Subpart E (Section 15.407) 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:** Feb. 02, 2018

Pettie Chen / Senior Specialist

Approved by : _____ , **Date:** Feb. 02, 2018

Bruce Chen / Project Engineer

2 Summary of Test Results

Applied Standard:	47 CFR FCC Part 15, Subpart C (Section 15.247) 47 CFR FCC Part 15, Subpart E (Section 15.407)		
FCC Clause	Test Item	Result	Remarks
15.207 15.407(b)(6)	AC Power Conducted Emission	Pass	Meet the requirement of limit. Minimum passing margin is -6.81dB at 0.33750MHz.
15.205 / 15.209 / 15.247(d) 15.407(b) (1/2/3/4(i/ii)/6)	Radiated Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -0.1dB at 5150.00MHz.

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	2.44 dB
Radiated Emissions up to 1 GHz	30MHz ~ 200MHz	3.63 dB
	200MHz ~1000MHz	3.64 dB
Radiated Emissions above 1 GHz	1GHz ~ 18GHz	2.29 dB
	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	Orbi Router, Orbi Satellite
Brand	NETGEAR
Test Model	RBR40
Series Model	RBS40
Model Difference	Refer to Note for more details
Status of EUT	Engineering sample
Power Supply Rating	12Vdc from adapter
Modulation Type	CCK, DQPSK, DBPSK for DSSS 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM
Modulation Technology	DSSS, OFDM
Transfer Rate	802.11b:11/5.5/2/1Mbps 802.11a/g: 54/48/36/24/18/12/9/6Mbps 802.11n: up to 300Mbps 802.11ac: up to 866.7Mbps
Operating Frequency	2.4GHz: 2412 ~ 2462MHz 5.0GHz: 5180 ~ 5240MHz, 5260 ~ 5320MHz, 5500 ~ 5700MHz, 5745 ~ 5825MHz
Number of Channel	2412 ~ 2462MHz: 11 for 802.11b, 802.11g, 802.11n (HT20) 7 for 802.11n (HT40) 5180 ~ 5240MHz: 4 for 802.11a, 802.11n (HT20), 802.11ac (VHT20) 2 for 802.11n (HT40), 802.11ac (VHT40) 1 for 802.11ac (VHT80) 5260 ~ 5320MHz: 4 for 802.11a, 802.11n (HT20), 802.11ac (VHT20) 2 for 802.11n (HT40), 802.11ac (VHT40) 1 for 802.11ac (VHT80) 5500 ~ 5700MHz: 11 for 802.11a, 802.11n (HT20), 802.11ac (VHT20) 5 for 802.11n (HT40), 802.11ac (VHT40) 2 for 802.11ac (VHT80) 5745 ~ 5825MHz: 5 for 802.11a, 802.11n (HT20), 802.11ac (VHT20) 2 for 802.11n (HT40), 802.11ac (VHT40) 1 for 802.11ac (VHT80)

Output Power	CDD Mode: 2412 ~ 2462MHz: 967.282mW 5180 ~ 5240MHz: 873.145mW 5260 ~ 5320MHz: 233.401mW 5500 ~ 5700MHz: 232.855mW 5745 ~ 5825MHz: 881.224mW Beamforming Mode: 2412 ~ 2462MHz: 920.601mW 5180 ~ 5240MHz: 855.208mW 5260 ~ 5320MHz: 229.422mW 5500 ~ 5700MHz: 232.855mW 5745 ~ 5825MHz: 841.395mW
Antenna Type	Refer to note
Antenna Connector	Refer to note
Accessory Device	Adapter
Data Cable Supplied	1.95m non-shielded RJ45 cable

Note:

1. This report is prepared for FCC class II permissive change. The differences compared with the original report (BV ADT report no.: RF161229C25F-2) is adding 5.26GHz to 5.32GHz & 5.50GHz to 5.70GHz by software.
2. All models are electrically identical except software firmware. Model: RBR40 is the representative for final test.

Brand	Product Name	Model	Function	Band	RF Module	Difference
NETGEAR	Orbi Router	RBR40	Router	2.4G/ U-NII-2C/ UNII-3	Module 1	1. Master mode only 2. With internet function
				UNII-1/ U-NII-2A	Module 2	
	Orbi Satellite	RBS40	Satellite	2.4G/ U-NII-2C / UNII-3	Module 1	Master mode and Client mode for 2.4GHz Client mode for UNII-3
				UNII-1/ U-NII-2A	Module 2	Master mode only for UNII-1

*RBK40= RBR40 + RBS40

3. The following RF Modules are for the EUT.

RF Module	Band	Antenna No.
Module 1	2.4G	3/4
	U-NII-2C / UNII-3	1/2
Module 2	UNII-1 / U-NII-2A	3/4

4. The EUT incorporates a MIMO function. Physically, the EUT provides 2 completed transmitters and 2 receivers.

Band	Modulation Mode	Beamforming Mode	TX Function
2.4GHz	802.11b	Not Support	2TX
	802.11g	Not Support	2TX
	802.11n (HT20)	Support	2TX
	802.11n (HT40)	Support	2TX
5GHz	802.11a	Not Support	2TX
	802.11n (HT20)	Support	2TX
	802.11n (HT40)	Support	2TX
	802.11ac (VHT20)	Support	2TX
	802.11ac (VHT40)	Support	2TX
	802.11ac (VHT80)	Support	2TX

* For 802.11n, CDD mode is the worst case for final radiated emission and power line conducted emission tests after pretesting CDD mode and beamforming mode.

*The EUT was pretesting following mode and Mode A was the worst for the final tests.

Mode	Description
A	Absorber position 1
B	Absorber position 2

5. The EUT uses following antennas.

WLAN:

Antenna Type	Dipole				
Antenna Connector	I-PEX				
Antenna Gain (dBi)					
	2.4GHz Band	5GHz U-NII-1	5GHz U-NII-2A	5GHz U-NII-2C	5GHz U-NII-3
Ant. 1	-	-	-	3.49	3.80
Ant. 2	-	-	-	3.51	3.57
Ant. 3	2.58	3.72	3.56	-	-
Ant. 4	2.89	3.49	3.53	-	-

6. The EUT uses following adapters.

Adapter 1	
Brand	NETGEAR
Model	AD2067F10
P/N	332-10797-01
Input Power	100-120Vac~50/60Hz 1.0A
Output Power	12.0Vdc / 2.5A
Power Line	1.85m DC cable without core attached on adapter

Adapter 2	
Brand	NETGEAR
Model	2ABL030P1 NJ
P/N	332-10948-01
Input Power	100-120Vac~50/60Hz 1.0A
Output Power	12.0Vdc / 2.5A
Power Line	1.8m DC cable without core attached on adapter

* After pre-testing, adapter 1 was the worst case for final test.

3.2 Description of Test Modes

For 2.4GHz

11 channels are provided for 802.11b, 802.11g and 802.11n (HT20):

Channel	Frequency	Channel	Frequency
1	2412MHz	7	2442MHz
2	2417MHz	8	2447MHz
3	2422MHz	9	2452MHz
4	2427MHz	10	2457MHz
5	2432MHz	11	2462MHz
6	2437MHz		

7 channels are provided for 802.11n (HT40):

Channel	Frequency	Channel	Frequency
3	2422MHz	7	2442MHz
4	2427MHz	8	2447MHz
5	2432MHz	9	2452MHz
6	2437MHz		

For 5180 ~ 5240MHz

4 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

Channel	Frequency	Channel	Frequency
36	5180 MHz	44	5220 MHz
40	5200 MHz	48	5240 MHz

2 channels are provided for 802.11n (HT40), 802.11ac (VHT40):

Channel	Frequency	Channel	Frequency
38	5190 MHz	46	5230 MHz

1 channel is provided for 802.11ac (VHT80):

Channel	Frequency
42	5210MHz

For 5260 ~ 5320MHz

4 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

Channel	Frequency	Channel	Frequency
52	5260 MHz	60	5300 MHz
56	5280 MHz	64	5320 MHz

2 channels are provided for 802.11n (HT40), 802.11ac (VHT40):

Channel	Frequency	Channel	Frequency
54	5270 MHz	62	5310 MHz

1 channel is provided for 802.11ac (VHT80):

Channel	Frequency
58	5290 MHz

For 5500 ~ 5700MHz

11 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

Channel	Frequency	Channel	Frequency
100	5500 MHz	124	5620 MHz
104	5520 MHz	128	5640 MHz
108	5540 MHz	132	5660 MHz
112	5560 MHz	136	5680 MHz
116	5580 MHz	140	5700 MHz
120	5600 MHz		

5 channels are provided for 802.11n (HT40), 802.11ac (VHT40):

Channel	Frequency	Channel	Frequency
102	5510 MHz	126	5630 MHz
110	5550 MHz	134	5670 MHz
118	5590 MHz		

2 channels are provided for 802.11ac (VHT80):

Channel	Frequency	Channel	Frequency
106	5530MHz	122	5610 MHz

For 5745 ~ 5825MHz:

5 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

Channel	Frequency	Channel	Frequency
149	5745MHz	161	5805MHz
153	5765MHz	165	5825MHz
157	5785MHz		

2 channels are provided for 802.11n (HT40), 802.11ac (VHT40):

Channel	Frequency	Channel	Frequency
151	5755MHz	159	5795MHz

1 channel is provided for 802.11ac (VHT80):

Channel	Frequency
155	5775MHz

3.2.1 Test Mode Applicability and Tested Channel Detail

EUT CONFIGURE MODE	APPLICABLE TO			DESCRIPTION
	RE≥1G	RE<1G	PLC	
A	√	√	√	Power from adapter 1
B	-	√	√	Power from adapter 2

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

PLC: Power Line Conducted Emission

Note:

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

Radiated Emission Test (Above 1GHz):

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

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

EUT CONFIGURE MODE	MODE	FREQ. RANGE (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY
A	802.11b + 802.11ac (VHT20)	2412 ~ 2462	1 to 11	1 + 64	DBPSK
		5260 ~ 5320	52 to 64		BPSK
A	802.11b + 802.11ac (VHT20)	2412 ~ 2462	1 to 11	1 + 100	DBPSK
		5500 ~ 5700	100 to 140		BPSK
A	802.11ac (VHT20) + 802.11ac (VHT20)	5260 ~ 5320	52 to 64	64 + 100	BPSK
		5500 ~ 5700	100 to 140		BPSK
A	802.11ac (VHT20) + 802.11a	5260 ~ 5320	52 to 64	64 + 165	BPSK
		5745 ~ 5825	149 to 165		BPSK
A	802.11ac (VHT20) + 802.11ac (VHT20)	5180 ~ 5240	36 to 48	40 + 100	BPSK
		5500 ~ 5700	100 to 140		BPSK
A	802.11b + 802.11ac (VHT20) + 802.11ac (VHT20)	2412 ~ 2462	1 to 11	1 + 64 + 165	DBPSK
		5260 ~ 5320	52 to 64		BPSK
		5745 ~ 5825	149 to 165		BPSK
A	802.11b + 802.11ac (VHT20) + 802.11ac (VHT20)	2412 ~ 2462	1 to 11	1 + 40 + 100	DBPSK
		5180 ~ 5240	36 to 48		BPSK
		5500 ~ 5700	100 to 140		BPSK
A	802.11b + 802.11ac (VHT20) + 802.11ac (VHT20)	5180 ~ 5240	36 to 48	1 + 64 + 100	DBPSK
		5260 ~ 5320	52 to 64		BPSK
		5500 ~ 5700	100 to 140		BPSK

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	MODE	FREQ. RANGE (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY
A, B	802.11b + 802.11ac (VHT20)	2412 ~ 2462	1 to 11	1 + 64	DBPSK
		5260 ~ 5320	52 to 64		BPSK
A, B	802.11b + 802.11ac (VHT20)	2412 ~ 2462	1 to 11	1 + 100	DBPSK
		5500 ~ 5700	100 to 140		BPSK
		5500 ~ 5700	100 to 140		BPSK
A, B	802.11ac (VHT20) + 802.11ac (VHT20)	5260 ~ 5320	52 to 64	64 + 100	BPSK
		5500 ~ 5700	100 to 140		BPSK
A, B	802.11ac (VHT20) + 802.11a	5260 ~ 5320	52 to 64	64 + 165	BPSK
		5745 ~ 5825	149 to 165		BPSK
A, B	802.11ac (VHT20) + 802.11ac (VHT20)	5180 ~ 5240	36 to 48	40 + 100	BPSK
		5500 ~ 5700	100 to 140		BPSK
A, B	802.11b + 802.11ac (VHT20) + 802.11ac (VHT20)	2412 ~ 2462	1 to 11	1 + 64 + 165	DBPSK
		5260 ~ 5320	52 to 64		BPSK
		5745 ~ 5825	149 to 165		BPSK
A, B	802.11b + 802.11ac (VHT20) + 802.11ac (VHT20)	2412 ~ 2462	1 to 11	1 + 40 + 100	DBPSK
		5180 ~ 5240	36 to 48		BPSK
		5500 ~ 5700	100 to 140		BPSK
A, B	802.11b + 802.11ac (VHT20) + 802.11ac (VHT20)	5180 ~ 5240	36 to 48	1 + 64 + 100	DBPSK
		5260 ~ 5320	52 to 64		BPSK
		5500 ~ 5700	100 to 140		BPSK

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	MODE	FREQ. RANGE (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY
A, B	802.11b + 802.11ac (VHT20)	2412 ~ 2462	1 to 11	1 + 64	DBPSK
		5260 ~ 5320	52 to 64		BPSK
A, B	802.11b + 802.11ac (VHT20)	2412 ~ 2462	1 to 11	1 + 100	DBPSK
		5500 ~ 5700	100 to 140		BPSK
A, B	802.11ac (VHT20) + 802.11ac (VHT20)	5260 ~ 5320	52 to 64	64 + 100	BPSK
		5500 ~ 5700	100 to 140		BPSK
A, B	802.11ac (VHT20) + 802.11a	5260 ~ 5320	52 to 64	64 + 165	BPSK
		5745 ~ 5825	149 to 165		BPSK
A, B	802.11ac (VHT20) + 802.11ac (VHT20)	5180 ~ 5240	36 to 48	40 + 100	BPSK
		5500 ~ 5700	100 to 140		BPSK
A, B	802.11b + 802.11ac (VHT20) + 802.11ac (VHT20)	2412 ~ 2462	1 to 11	1 + 64 + 165	DBPSK
		5260 ~ 5320	52 to 64		BPSK
		5745 ~ 5825	149 to 165		BPSK
A, B	802.11b + 802.11ac (VHT20) + 802.11ac (VHT20)	2412 ~ 2462	1 to 11	1 + 40 + 100	DBPSK
		5180 ~ 5240	36 to 48		BPSK
		5500 ~ 5700	100 to 140		BPSK
A, B	802.11b + 802.11ac (VHT20) + 802.11ac (VHT20)	5180 ~ 5240	36 to 48	1 + 64 + 100	DBPSK
		5260 ~ 5320	52 to 64		BPSK
		5500 ~ 5700	100 to 140		BPSK

Test Condition:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
RE≥1G	22deg. C, 65%RH	120Vac, 60Hz	Matthew Yang
RE<1G	22deg. C, 65%RH	120Vac, 60Hz	Matthew Yang
PLC	25deg. C, 75%RH	120Vac, 60Hz	Chris Lin

3.3 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.

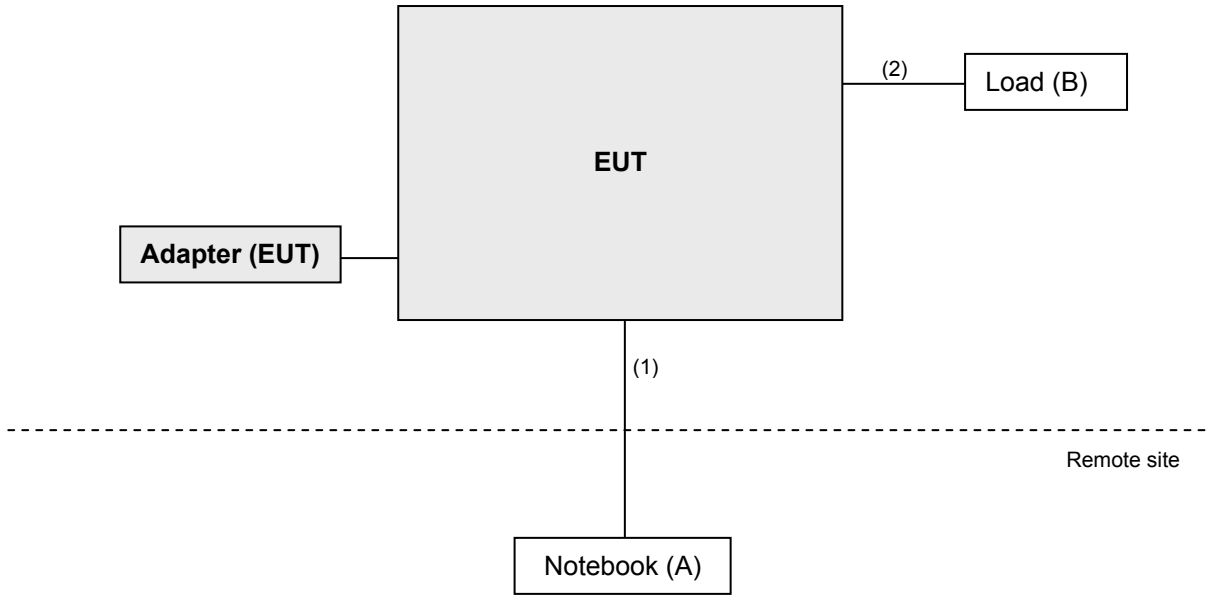
ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	Notebook	DELL	E5410	6RP2YM1	FCC DoC Approved	-
B.	Load	N/A	N/A	N/A	N/A	-

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	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	RJ45 cable	1	10	N	0	-
2.	RJ45 cable	3	1.8	N	0	-

3.3.1 Configuration of System under Test



3.4 General Description of Applied Standards

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

FCC Part 15, Subpart C (15.247)

FCC Part 15, Subpart E (15.407)

ANSI C63.10-2013

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

Note: The EUT is also considered as a kind of computer peripheral, because the connection to computer is necessary for typical use. It has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (DoC). The test report has been issued separately.

4 Test Types and Results

4.1 Radiated Emission and Bandedge Measurement

4.1.1 Limits of Radiated Emission and Bandedge Measurement

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

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

NOTE:

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

Limits of unwanted emission out of the restricted bands

<table>
<tr><td colspan="3">Applicable To</td><td colspan="2">Limit</td></tr>
<tr><td colspan="3" rowspan="2">789033 D02 General UNII Test Procedure New Rules v02r01</td><td colspan="2">Field Strength at 3m</td></tr>
<tr><td>PK:74 (dBµV/m)</td><td>AV:54 (dBµV/m)</td></tr>
<tr><td>Frequency Band</td><td colspan="2">Applicable To</td><td>EIRP Limit</td><td>Equivalent Field Strength at 3m</td></tr>
<tr><td>5150~5250 MHz</td><td colspan="2">15.407(b)(1)</td><td rowspan="3">PK:-27 (dBm/MHz)</td><td rowspan="3">PK:68.2(dBµV/m)</td></tr>
<tr><td>5250~5350 MHz</td><td colspan="2">15.407(b)(2)</td></tr>
<tr><td>5470~5725 MHz</td><td colspan="2">15.407(b)(3)</td></tr>
<tr><td rowspan="2">5725~5850 MHz</td><td>☒</td><td>15.407(b)(4)(i)</td><td>PK:-27 (dBm/MHz) *1
PK:10 (dBm/MHz) *2
PK:15.6 (dBm/MHz) *3
PK:27 (dBm/MHz) *4</td><td>PK: 68.2(dBµV/m) *1
PK:105.2 (dBµV/m) *2
PK: 110.8(dBµV/m) *3
PK:122.2 (dBµV/m) *4</td></tr>
<tr><td>☐</td><td>15.407(b)(4)(ii)</td><td colspan="2">Emission limits in section 15.247(d)</td></tr>
<tr><td colspan="5">*1 beyond 75 MHz or more above of the band edge.
*2 below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above.
*3 below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above.
*4 from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.</td></tr>
</table>

Note: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

$E = \frac{1000000\sqrt{30P}}{3}$ µV/m, where P is the eirp (Watts).

4.1.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver ROHDE & SCHWARZ	ESCI	100424	Oct. 24, 2016	Oct. 23, 2017
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100040	Aug. 16, 2016	Aug. 15, 2017
BILOG Antenna SCHWARZBECK	VULB9168	9168-155	Dec. 28, 2016	Dec. 27, 2017
HORN Antenna SCHWARZBECK	BBHA 9120D	9120D-1170	Dec. 15, 2016	Dec. 14, 2017
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170241	Dec. 14, 2016	Dec. 13, 2017
Loop Antenna	EM-6879	269	Aug. 11, 2016	Aug. 10, 2017
Preamplifier Agilent	8449B	3008A01960	Aug. 09, 2016	Aug. 08, 2017
Preamplifier Agilent	8447D	2944A10631	Aug. 09, 2016	Aug. 08, 2017
RF signal cable HUBER+SUHNER	SUCOFLEX 104	MY 13380+295012/04	Aug. 09, 2016	Aug. 08, 2017
RF signal cable HUBER+SUHNER	SUCOFLEX 104	Cable-CH4-03 (250724)	Aug. 09, 2016	Aug. 08, 2017
Software BV ADT	ADT_Radiated_ V7.6.15.9.4	NA	NA	NA
Antenna Tower inn-co GmbH	MA 4000	010303	NA	NA
Antenna Tower Controller BV ADT	AT100	AT93021703	NA	NA
Turn Table BV ADT	TT100	TT93021703	NA	NA
Turn Table Controller BV ADT	SC100	SC93021703	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 Chamber 4.
3. The horn antenna and preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
4. The FCC Site Registration No. is 460141.
5. The IC Site Registration No. is IC7450F-4.

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. Both X and Y axes 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:

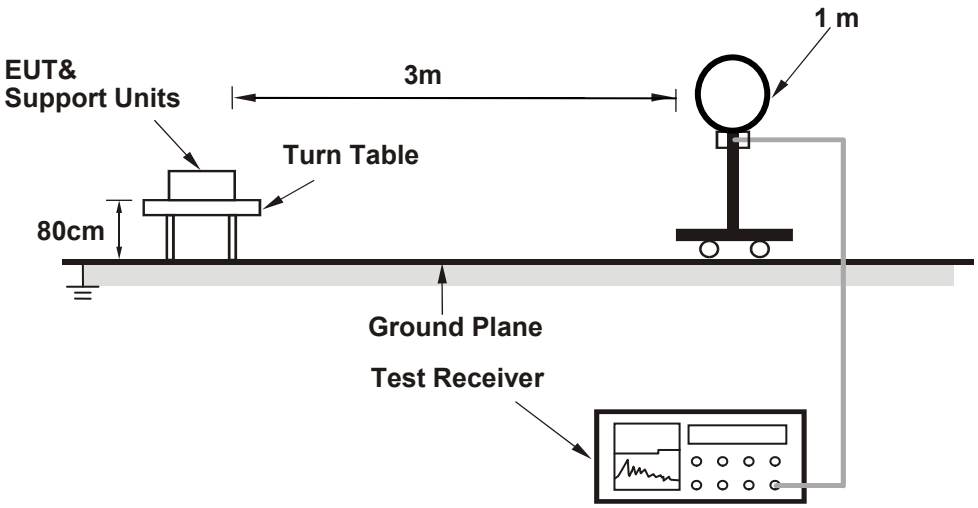
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 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

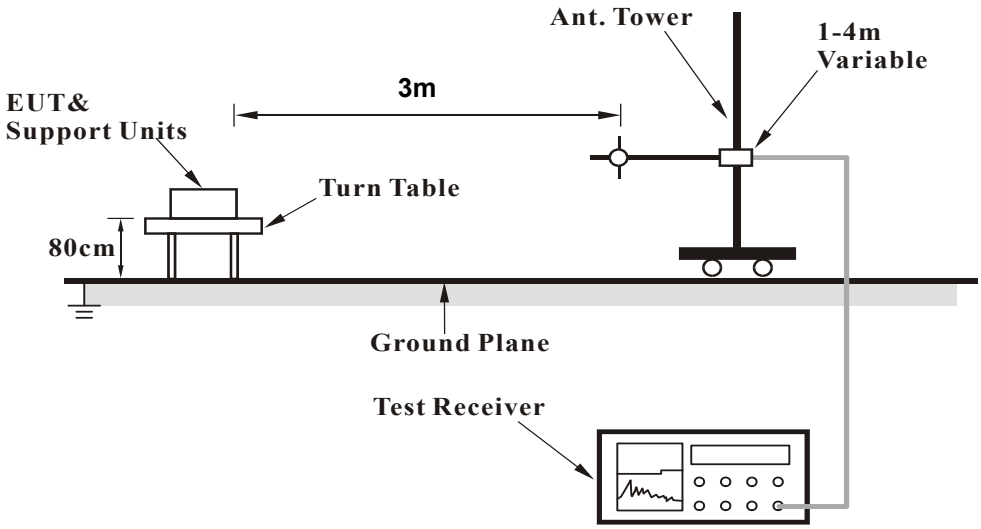
No deviation.

4.1.5 Test Setup

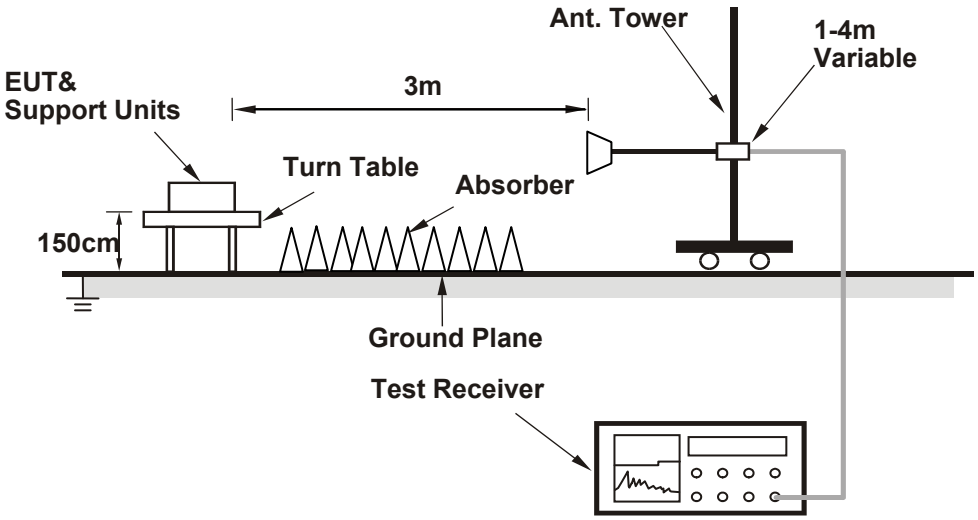
For Radiated emission below 30MHz



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. Placed the EUT on the testing table.
b. Prepared a notebook to act as a communication partner and placed it outside of testing area.
c. The communication partner connected with EUT via a RJ45 cable and ran a test program (provided by manufacturer) to enable EUT under transmission condition continuously at specific channel frequency.
d. The communication partner sent data to EUT by command "PING".
e. The necessary accessories enable the system in full functions.

4.1.7 Test Results

Above 1GHz Data:

802.11b + 802.11ac (VHT20)

CHANNEL	CH 1 + CH 64	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	2388.00	56.5 PK	74.0	-17.5	3.04 H	67	23.6	32.9
2	2388.00	47.5 AV	54.0	-6.5	3.04 H	67	14.6	32.9
3	*2412.00	112.5 PK			3.04 H	67	79.6	32.9
4	*2412.00	108.7 AV			3.04 H	67	75.8	32.9
5	4824.00	50.5 PK	74.0	-23.5	3.52 H	7	43.8	6.7
6	4824.00	43.1 AV	54.0	-10.9	3.52 H	7	36.4	6.7
7	*5320.00	106.3 PK			1.22 H	233	65.8	40.5
8	*5320.00	95.2 AV			1.22 H	233	54.7	40.5
9	5350.00	58.6 PK	74.0	-15.4	1.22 H	233	52.1	6.5
10	5350.00	47.4 AV	54.0	-6.6	1.22 H	233	40.9	6.5
11	10640.00	59.8 PK	74.0	-14.2	1.50 H	72	40.8	19.0
12	10640.00	47.7 AV	54.0	-6.3	1.50 H	72	28.7	19.0

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)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	CH 1 + CH 64	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	2388.00	62.5 PK	74.0	-11.5	1.51 V	217	29.6	32.9
2	2388.00	53.6 AV	54.0	-0.4	1.51 V	217	20.7	32.9
3	*2412.00	122.1 PK			1.51 V	217	89.2	32.9
4	*2412.00	118.3 AV			1.51 V	217	85.4	32.9
5	4824.00	53.0 PK	74.0	-21.0	1.40 V	39	46.3	6.7
6	4824.00	48.4 AV	54.0	-5.6	1.40 V	39	41.7	6.7
7	*5320.00	119.3 PK			1.17 V	186	78.8	40.5
8	*5320.00	109.0 AV			1.17 V	186	68.5	40.5
9	5350.00	66.6 PK	74.0	-7.4	1.17 V	186	60.1	6.5
10	5350.00	52.4 AV	54.0	-1.6	1.17 V	186	45.9	6.5
11	10640.00	60.5 PK	74.0	-13.5	1.11 V	94	41.5	19.0
12	10640.00	48.2 AV	54.0	-5.8	1.11 V	94	29.2	19.0

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)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

802.11b + 802.11ac (VHT20)

CHANNEL	CH 1 + CH 100	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	2388.00	56.5 PK	74.0	-17.5	3.04 H	67	23.6	32.9
2	2388.00	47.5 AV	54.0	-6.5	3.04 H	67	14.6	32.9
3	*2412.00	112.5 PK			3.04 H	67	79.6	32.9
4	*2412.00	108.7 AV			3.04 H	67	75.8	32.9
5	4824.00	50.5 PK	74.0	-23.5	3.52 H	7	43.8	6.7
6	4824.00	43.1 AV	54.0	-10.9	3.52 H	7	36.4	6.7
7	5460.00	59.8 PK	74.0	-14.2	1.44 H	140	53.1	6.7
8	5460.00	46.5 AV	54.0	-7.5	1.44 H	140	39.8	6.7
9	#5470.00	58.3 PK	74.0	-15.7	1.44 H	140	51.6	6.7
10	#5470.00	46.4 AV	54.0	-7.6	1.44 H	140	39.7	6.7
11	*5500.00	111.3 PK			1.44 H	140	70.4	40.9
12	*5500.00	100.2 AV			1.44 H	140	59.3	40.9
13	11000.00	60.7 PK	74.0	-13.3	1.32 H	211	41.4	19.3
14	11000.00	47.5 AV	54.0	-6.5	1.32 H	211	28.2	19.3

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)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	CH 1 + CH 100	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	2388.00	62.5 PK	74.0	-11.5	1.51 V	217	29.6	32.9
2	2388.00	53.6 AV	54.0	-0.4	1.51 V	217	20.7	32.9
3	*2412.00	122.1 PK			1.51 V	217	89.2	32.9
4	*2412.00	118.3 AV			1.51 V	217	85.4	32.9
5	4824.00	53.0 PK	74.0	-21.0	1.40 V	39	46.3	6.7
6	4824.00	48.4 AV	54.0	-5.6	1.40 V	39	41.7	6.7
7	5460.00	60.8 PK	74.0	-13.2	1.55 V	162	54.1	6.7
8	5460.00	47.0 AV	54.0	-7.0	1.55 V	162	40.3	6.7
9	#5470.00	64.1 PK	74.0	-9.9	1.55 V	162	57.4	6.7
10	#5470.00	49.6 AV	54.0	-4.4	1.55 V	162	42.9	6.7
11	*5500.00	119.0 PK			1.55 V	162	78.1	40.9
12	*5500.00	108.4 AV			1.55 V	162	67.5	40.9
13	11000.00	61.2 PK	74.0	-12.8	1.83 V	320	41.9	19.3
14	11000.00	48.2 AV	54.0	-5.8	1.83 V	320	28.9	19.3

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)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

802.11ac (VHT20) + 802.11ac (VHT20)

CHANNEL	CH 64 + CH 100	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5320.00	106.4 PK			1.37 H	222	65.9	40.5
2	*5320.00	95.5 AV			1.37 H	222	55.0	40.5
3	5350.00	58.7 PK	74.0	-15.3	1.37 H	222	52.2	6.5
4	5350.00	47.4 AV	54.0	-6.6	1.37 H	222	40.9	6.5
5	5460.00	60.0 PK	74.0	-14.0	1.51 H	150	53.3	6.7
6	5460.00	46.6 AV	54.0	-7.4	1.51 H	150	39.9	6.7
7	#5470.00	58.6 PK	74.0	-15.4	1.51 H	150	51.9	6.7
8	#5470.00	46.3 AV	54.0	-7.7	1.51 H	150	39.6	6.7
9	*5500.00	111.4 PK			1.51 H	150	70.5	40.9
10	*5500.00	100.1 AV			1.51 H	150	59.2	40.9
11	10640.00	59.9 PK	74.0	-14.1	1.49 H	66	40.9	19.0
12	10640.00	47.4 AV	54.0	-6.6	1.49 H	66	28.4	19.0
13	11000.00	60.6 PK	74.0	-13.4	1.42 H	215	41.3	19.3
14	11000.00	47.5 AV	54.0	-6.5	1.42 H	215	28.2	19.3

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)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	CH 64 + CH 100	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5320.00	119.5 PK			1.20 V	172	79.0	40.5
2	*5320.00	109.0 AV			1.20 V	172	68.5	40.5
3	5350.00	66.8 PK	74.0	-7.2	1.20 V	172	60.3	6.5
4	5350.00	52.5 AV	54.0	-1.5	1.20 V	172	46.0	6.5
5	5460.00	60.8 PK	74.0	-13.2	1.59 V	166	54.1	6.7
6	5460.00	47.0 AV	54.0	-7.0	1.59 V	166	40.3	6.7
7	#5470.00	64.2 PK	74.0	-9.8	1.59 V	166	57.5	6.7
8	#5470.00	49.5 AV	54.0	-4.5	1.59 V	166	42.8	6.7
9	*5500.00	119.1 PK			1.59 V	166	78.2	40.9
10	*5500.00	108.1 AV			1.59 V	166	67.2	40.9
11	10640.00	60.8 PK	74.0	-13.2	1.15 V	96	41.8	19.0
12	10640.00	48.2 AV	54.0	-5.8	1.15 V	96	29.2	19.0
13	11000.00	61.4 PK	74.0	-12.6	1.78 V	342	42.1	19.3
14	11000.00	48.1 AV	54.0	-5.9	1.78 V	342	28.8	19.3

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)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

802.11ac (VHT20) + 802.11a

CHANNEL	CH 64 + CH 165	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5320.00	106.8 PK			1.33 H	229	66.6	40.2
2	*5320.00	95.4 AV			1.33 H	229	55.2	40.2
3	5350.00	58.8 PK	74.0	-15.2	1.33 H	229	52.6	6.2
4	5350.00	47.3 AV	54.0	-6.7	1.33 H	229	41.1	6.2
5	#5618.40	57.8 PK	68.2	-10.4	1.17 H	142	51.4	6.4
6	*5825.00	116.4 PK			1.17 H	142	75.2	41.2
7	*5825.00	106.1 AV			1.17 H	142	64.9	41.2
8	#5969.60	58.5 PK	68.2	-9.7	1.17 H	142	51.3	7.2
9	10640.00	60.1 PK	74.0	-13.9	1.50 H	77	41.1	19.0
10	10640.00	47.6 AV	54.0	-6.4	1.50 H	77	28.6	19.0
11	11650.00	61.2 PK	74.0	-12.8	1.00 H	3	41.3	19.9
12	11650.00	47.8 AV	54.0	-6.2	1.00 H	3	27.9	19.9

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)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	CH 64 + CH 165	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5320.00	119.6 PK			1.18 V	188	79.4	40.2
2	*5320.00	109.0 AV			1.18 V	188	68.8	40.2
3	5350.00	66.4 PK	74.0	-7.6	1.18 V	188	60.2	6.2
4	5350.00	52.4 AV	54.0	-1.6	1.18 V	188	46.2	6.2
5	#5615.20	59.7 PK	68.2	-8.5	1.46 V	149	53.3	6.4
6	*5825.00	123.2 PK			1.46 V	149	82.0	41.2
7	*5825.00	112.9 AV			1.46 V	149	71.7	41.2
8	#5943.20	60.1 PK	68.2	-8.1	1.46 V	149	53.0	7.1
9	10640.00	60.5 PK	74.0	-13.5	1.18 V	188	41.5	19.0
10	10640.00	48.4 AV	54.0	-5.6	1.18 V	188	29.4	19.0
11	11650.00	60.8 PK	74.0	-13.2	1.21 V	111	40.9	19.9
12	11650.00	48.0 AV	54.0	-6.0	1.21 V	111	28.1	19.9

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)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

802.11ac (VHT20) + 802.11ac (VHT20)

CHANNEL	CH 40 + CH 100	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	5150.00	58.8 PK	74.0	-15.2	2.15 H	340	52.7	6.1
2	5150.00	46.5 AV	54.0	-7.5	2.15 H	340	40.4	6.1
3	*5200.00	113.0 PK			2.15 H	340	72.8	40.2
4	*5200.00	102.5 AV			2.15 H	340	62.3	40.2
5	5460.00	60.2 PK	74.0	-13.8	1.41 H	148	53.5	6.7
6	5460.00	46.5 AV	54.0	-7.5	1.41 H	148	39.8	6.7
7	#5470.00	58.8 PK	74.0	-15.2	1.41 H	148	52.1	6.7
8	#5470.00	46.4 AV	54.0	-7.6	1.41 H	148	39.7	6.7
9	*5500.00	111.5 PK			1.41 H	148	70.6	40.9
10	*5500.00	100.4 AV			1.41 H	148	59.5	40.9
11	#10400.00	59.6 PK	74.0	-14.4	1.32 H	114	41.4	18.2
12	#10400.00	46.2 AV	54.0	-7.8	1.32 H	114	28.0	18.2
13	11000.00	60.9 PK	74.0	-13.1	1.39 H	205	41.6	19.3
14	11000.00	47.7 AV	54.0	-6.3	1.39 H	205	28.4	19.3

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)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	CH 40 + CH 100	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	5150.00	68.7 PK	74.0	-5.3	1.21 V	211	62.6	6.1
2	**5150.00**	**53.9 AV**	**54.0**	**-0.1**	**1.21 V**	**211**	**47.8**	**6.1**
3	*5200.00	122.8 PK			1.21 V	211	82.6	40.2
4	*5200.00	112.3 AV			1.21 V	211	72.1	40.2
5	5460.00	60.9 PK	74.0	-13.1	1.57 V	157	54.2	6.7
6	5460.00	47.1 AV	54.0	-6.9	1.57 V	157	40.4	6.7
7	#5470.00	64.2 PK	74.0	-9.8	1.57 V	157	57.5	6.7
8	#5470.00	49.5 AV	54.0	-4.5	1.57 V	157	42.8	6.7
9	*5500.00	119.1 PK			1.57 V	157	78.2	40.9
10	*5500.00	108.3 AV			1.57 V	157	67.4	40.9
11	#10400.00	59.8 PK	74.0	-14.2	1.20 V	74	41.6	18.2
12	#10400.00	48.2 AV	54.0	-5.8	1.20 V	74	30.0	18.2
13	11000.00	61.3 PK	74.0	-12.7	1.81 V	329	42.0	19.3
14	11000.00	48.4 AV	54.0	-5.6	1.81 V	329	29.1	19.3

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)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

802.11b + 802.11ac (VHT20) + 802.11ac (VHT20)

CHANNEL	CH 1 + CH 64 + CH 165	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	2388.00	56.5 PK	74.0	-17.5	3.04 H	67	23.6	32.9
2	2388.00	47.5 AV	54.0	-6.5	3.04 H	67	14.6	32.9
3	*2412.00	112.5 PK			3.04 H	67	79.6	32.9
4	*2412.00	108.7 AV			3.04 H	67	75.8	32.9
5	4824.00	50.5 PK	74.0	-23.5	3.52 H	7	43.8	6.7
6	4824.00	43.1 AV	54.0	-10.9	3.52 H	7	36.4	6.7
7	*5320.00	106.7 PK			1.30 H	219	66.5	40.2
8	*5320.00	95.4 AV			1.30 H	219	55.2	40.2
9	5350.00	58.8 PK	74.0	-15.2	1.30 H	219	52.6	6.2
10	5350.00	47.7 AV	54.0	-6.3	1.30 H	219	41.5	6.2
11	#5618.40	57.8 PK	68.2	-10.4	1.17 H	142	51.4	6.4
12	*5825.00	116.4 PK			1.17 H	142	74.6	41.8
13	*5825.00	106.1 AV			1.17 H	142	64.3	41.8
14	#5969.60	58.5 PK	68.2	-9.7	1.17 H	142	51.3	7.2
15	10640.00	60.0 PK	74.0	-14.0	1.55 H	68	41.0	19.0
16	10640.00	47.6 AV	54.0	-6.4	1.55 H	68	28.6	19.0
17	11650.00	61.2 PK	74.0	-12.8	1.00 H	3	41.4	19.8
18	11650.00	47.8 AV	54.0	-6.2	1.00 H	3	28.0	19.8

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)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	CH 1 + CH 64 + CH 165	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	2388.00	62.5 PK	74.0	-11.5	1.51 V	217	29.6	32.9
2	2388.00	53.6 AV	54.0	-0.4	1.51 V	217	20.7	32.9
3	*2412.00	122.1 PK			1.51 V	217	89.2	32.9
4	*2412.00	118.3 AV			1.51 V	217	85.4	32.9
5	4824.00	53.0 PK	74.0	-21.0	1.40 V	39	46.3	6.7
6	4824.00	48.4 AV	54.0	-5.6	1.40 V	39	41.7	6.7
7	*5320.00	119.6 PK			1.16 V	186	79.4	40.2
8	*5320.00	108.9 AV			1.16 V	186	68.7	40.2
9	5350.00	66.7 PK	74.0	-7.3	1.16 V	186	60.5	6.2
10	5350.00	52.4 AV	54.0	-1.6	1.16 V	186	46.2	6.2
11	#5615.20	59.7 PK	68.2	-8.5	1.46 V	149	53.3	6.4
12	*5825.00	123.2 PK			1.46 V	149	82.0	41.2
13	*5825.00	112.9 AV			1.46 V	149	71.7	41.2
14	#5943.20	60.1 PK	68.2	-8.1	1.46 V	149	53.0	7.1
15	10640.00	60.9 PK	74.0	-13.1	1.09 V	90	41.9	19.0
16	10640.00	48.5 AV	54.0	-5.5	1.09 V	90	29.5	19.0
17	11650.00	60.8 PK	74.0	-13.2	1.21 V	111	40.9	19.9
18	11650.00	48.0 AV	54.0	-6.0	1.21 V	111	28.1	19.9

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)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

802.11b + 802.11ac (VHT20) + 802.11ac (VHT20)

CHANNEL	CH 1 + CH 40 + CH 100	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	2388.00	56.5 PK	74.0	-17.5	3.04 H	67	23.6	32.9
2	2388.00	47.5 AV	54.0	-6.5	3.04 H	67	14.6	32.9
3	*2412.00	112.5 PK			3.04 H	67	79.6	32.9
4	*2412.00	108.7 AV			3.04 H	67	75.8	32.9
5	4824.00	50.5 PK	74.0	-23.5	3.52 H	7	43.8	6.7
6	4824.00	43.1 AV	54.0	-10.9	3.52 H	7	36.4	6.7
7	5150.00	58.8 PK	74.0	-15.2	2.15 H	340	52.7	6.1
8	5150.00	46.5 AV	54.0	-7.5	2.15 H	340	40.4	6.1
9	*5200.00	113.0 PK			2.15 H	340	72.8	40.2
10	*5200.00	102.5 AV			2.15 H	340	62.3	40.2
11	5460.00	60.0 PK	74.0	-14.0	1.52 H	139	53.3	6.7
12	5460.00	46.7 AV	54.0	-7.3	1.52 H	139	40.0	6.7
13	#5470.00	58.6 PK	74.0	-15.4	1.52 H	139	51.9	6.7
14	#5470.00	46.5 AV	54.0	-7.5	1.52 H	139	39.8	6.7
15	*5500.00	111.4 PK			1.52 H	139	70.5	40.9
16	*5500.00	100.6 AV			1.52 H	139	59.7	40.9
17	#10400.00	59.6 PK	74.0	-14.4	1.32 H	114	41.4	18.2
18	#10400.00	46.2 AV	54.0	-7.8	1.32 H	114	28.0	18.2
19	11000.00	60.9 PK	74.0	-13.1	1.40 H	194	41.6	19.3
20	11000.00	47.7 AV	54.0	-6.3	1.40 H	194	28.4	19.3

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)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	CH 1 + CH 40 + CH 100	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	2388.00	62.5 PK	74.0	-11.5	1.51 V	217	29.6	32.9
2	2388.00	53.6 AV	54.0	-0.4	1.51 V	217	20.7	32.9
3	*2412.00	122.1 PK			1.51 V	217	89.2	32.9
4	*2412.00	118.3 AV			1.51 V	217	85.4	32.9
5	4824.00	53.0 PK	74.0	-21.0	1.40 V	39	46.3	6.7
6	4824.00	48.4 AV	54.0	-5.6	1.40 V	39	41.7	6.7
7	5150.00	68.7 PK	74.0	-5.3	1.21 V	211	62.6	6.1
8	**5150.00**	**53.9 AV**	**54.0**	**-0.1**	**1.21 V**	**211**	**47.8**	**6.1**
9	*5200.00	122.8 PK			1.21 V	211	82.6	40.2
10	*5200.00	112.3 AV			1.21 V	211	72.1	40.2
11	5460.00	60.9 PK	74.0	-13.1	1.62 V	160	54.2	6.7
12	5460.00	47.0 AV	54.0	-7.0	1.62 V	160	40.3	6.7
13	#5470.00	64.4 PK	74.0	-9.6	1.62 V	160	57.7	6.7
14	#5470.00	49.6 AV	54.0	-4.4	1.62 V	160	42.9	6.7
15	*5500.00	119.2 PK			1.62 V	160	78.3	40.9
16	*5500.00	108.5 AV			1.62 V	160	67.6	40.9
17	#10400.00	59.8 PK	74.0	-14.2	1.20 V	74	41.6	18.2
18	#10400.00	48.2 AV	54.0	-5.8	1.20 V	74	30.0	18.2
19	11000.00	61.6 PK	74.0	-12.4	1.91 V	331	42.3	19.3
20	11000.00	48.2 AV	54.0	-5.8	1.91 V	331	28.9	19.3

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)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

802.11b + 802.11ac (VHT20) + 802.11ac (VHT20)

CHANNEL	CH 1 + CH 64 + CH 100	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	2388.00	56.5 PK	74.0	-17.5	3.04 H	67	23.6	32.9
2	2388.00	47.5 AV	54.0	-6.5	3.04 H	67	14.6	32.9
3	*2412.00	112.5 PK			3.04 H	67	79.6	32.9
4	*2412.00	108.7 AV			3.04 H	67	75.8	32.9
5	4824.00	50.5 PK	74.0	-23.5	3.52 H	7	43.8	6.7
6	4824.00	43.1 AV	54.0	-10.9	3.52 H	7	36.4	6.7
7	*5320.00	106.7 PK			1.38 H	229	66.2	40.5
8	*5320.00	95.4 AV			1.38 H	229	54.9	40.5
9	5350.00	58.9 PK	74.0	-15.1	1.38 H	229	52.4	6.5
10	5350.00	47.5 AV	54.0	-6.5	1.38 H	229	41.0	6.5
11	5460.00	60.0 PK	74.0	-14.0	1.59 H	131	53.3	6.7
12	5460.00	46.8 AV	54.0	-7.2	1.59 H	131	40.1	6.7
13	#5470.00	58.6 PK	74.0	-15.4	1.59 H	131	51.9	6.7
14	#5470.00	46.6 AV	54.0	-7.4	1.59 H	131	39.9	6.7
15	*5500.00	111.7 PK			1.59 H	131	70.8	40.9
16	*5500.00	100.5 AV			1.59 H	131	59.6	40.9
17	10640.00	59.9 PK	74.0	-14.1	1.58 H	52	40.9	19.0
18	10640.00	47.5 AV	54.0	-6.5	1.58 H	52	28.5	19.0
19	11000.00	61.1 PK	74.0	-12.9	1.29 H	200	41.8	19.3
20	11000.00	47.8 AV	54.0	-6.2	1.29 H	200	28.5	19.3

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)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	CH 1 + CH 64 + CH 100	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	2388.00	62.5 PK	74.0	-11.5	1.51 V	217	29.6	32.9
2	2388.00	53.6 AV	54.0	-0.4	1.51 V	217	20.7	32.9
3	*2412.00	122.1 PK			1.51 V	217	89.2	32.9
4	*2412.00	118.3 AV			1.51 V	217	85.4	32.9
5	4824.00	53.0 PK	74.0	-21.0	1.40 V	39	46.3	6.7
6	4824.00	48.4 AV	54.0	-5.6	1.40 V	39	41.7	6.7
7	*5320.00	119.5 PK			1.23 V	179	79.0	40.5
8	*5320.00	109.0 AV			1.23 V	179	68.5	40.5
9	5350.00	66.9 PK	74.0	-7.1	1.23 V	179	60.4	6.5
10	5350.00	52.5 AV	54.0	-1.5	1.23 V	179	46.0	6.5
11	5460.00	61.2 PK	74.0	-12.8	1.48 V	160	54.5	6.7
12	5460.00	47.0 AV	54.0	-7.0	1.48 V	160	40.3	6.7
13	#5470.00	64.4 PK	74.0	-9.6	1.48 V	160	57.7	6.7
14	#5470.00	49.6 AV	54.0	-4.4	1.48 V	160	42.9	6.7
15	*5500.00	119.3 PK			1.48 V	160	78.4	40.9
16	*5500.00	108.4 AV			1.48 V	160	67.5	40.9
17	10640.00	60.8 PK	74.0	-13.2	1.11 V	99	41.8	19.0
18	10640.00	48.2 AV	54.0	-5.8	1.11 V	99	29.2	19.0
19	11000.00	61.4 PK	74.0	-12.6	1.92 V	325	42.1	19.3
20	11000.00	48.6 AV	54.0	-5.4	1.92 V	325	29.3	19.3

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)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

Below 1GHz data

802.11b + 802.11ac (VHT20)

CHANNEL	CH 1 + CH 64	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz	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	55.13	21.0 QP	40.0	-19.0	1.24 H	117	35.3	-14.3
2	144.38	26.3 QP	43.5	-17.2	1.24 H	98	40.2	-13.9
3	222.00	26.8 QP	46.0	-19.2	1.00 H	184	43.0	-16.2
4	363.65	31.2 QP	46.0	-14.8	1.00 H	139	42.2	-11.0
5	792.48	35.9 QP	46.0	-10.1	2.00 H	215	38.2	-2.3
6	939.95	34.7 QP	46.0	-11.3	1.00 H	345	34.8	-0.1
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	37.66	30.5 QP	40.0	-9.5	1.50 V	11	45.6	-15.1
2	144.38	21.7 QP	43.5	-21.8	1.00 V	33	35.6	-13.9
3	377.23	27.9 QP	46.0	-18.1	1.24 V	204	38.6	-10.7
4	575.15	32.7 QP	46.0	-13.3	1.00 V	90	39.7	-7.0
5	817.70	30.9 QP	46.0	-15.1	1.24 V	163	32.9	-2.0
6	938.01	35.5 QP	46.0	-10.5	1.00 V	11	35.7	-0.2

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

802.11b + 802.11ac (VHT20)

CHANNEL	CH 1 + CH 100	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz	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	138.56	26.7 QP	43.5	-16.8	1.00 H	103	41.0	-14.3
2	262.75	25.3 QP	46.0	-20.7	1.50 H	262	38.9	-13.6
3	361.71	30.8 QP	46.0	-15.2	1.00 H	146	41.8	-11.0
4	577.09	27.4 QP	46.0	-18.6	2.00 H	7	34.4	-7.0
5	796.36	34.9 QP	46.0	-11.1	1.00 H	225	37.2	-2.3
6	938.01	33.4 QP	46.0	-12.6	1.24 H	261	33.6	-0.2
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	55.13	31.7 QP	40.0	-8.3	1.00 V	273	46.0	-14.3
2	299.62	23.4 QP	46.0	-22.6	2.00 V	188	35.7	-12.3
3	365.59	30.4 QP	46.0	-15.6	1.00 V	192	41.4	-11.0
4	580.97	33.8 QP	46.0	-12.2	1.50 V	75	40.6	-6.8
5	778.89	30.2 QP	46.0	-15.8	1.00 V	199	32.6	-2.4
6	939.95	35.0 QP	46.0	-11.0	1.24 V	171	35.1	-0.1

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

802.11ac (VHT20) + 802.11ac (VHT20)

CHANNEL	CH 64 + CH 100	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz	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	136.62	25.4 QP	43.5	-18.1	1.00 H	95	39.9	-14.5
2	223.94	26.5 QP	46.0	-19.5	1.24 H	185	42.7	-16.2
3	375.29	32.2 QP	46.0	-13.8	1.00 H	129	43.0	-10.8
4	575.15	27.0 QP	46.0	-19.0	1.50 H	7	34.0	-7.0
5	794.42	33.9 QP	46.0	-12.1	1.24 H	232	36.2	-2.3
6	938.01	36.5 QP	46.0	-9.5	1.00 H	125	36.7	-0.2
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	37.66	30.9 QP	40.0	-9.1	1.00 V	6	46.0	-15.1
2	373.35	30.3 QP	46.0	-15.7	1.00 V	213	41.2	-10.9
3	520.82	29.0 QP	46.0	-17.0	1.50 V	95	37.1	-8.1
4	575.15	31.2 QP	46.0	-14.8	1.50 V	72	38.2	-7.0
5	788.60	29.8 QP	46.0	-16.2	1.00 V	292	32.2	-2.4
6	938.01	35.1 QP	46.0	-10.9	2.00 V	6	35.3	-0.2

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

802.11ac (VHT20) + 802.11a

CHANNEL	CH 64 + CH 165	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz	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	119.16	25.8 QP	43.5	-17.7	1.00 H	297	41.9	-16.1
2	270.51	26.6 QP	46.0	-19.4	1.00 H	269	39.6	-13.0
3	365.59	32.4 QP	46.0	-13.6	2.00 H	128	43.4	-11.0
4	575.15	27.4 QP	46.0	-18.6	2.00 H	6	34.4	-7.0
5	784.72	34.2 QP	46.0	-11.8	1.00 H	211	36.6	-2.4
6	939.95	34.5 QP	46.0	-11.5	1.50 H	327	34.6	-0.1
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	37.66	31.0 QP	40.0	-9.0	1.00 V	130	46.1	-15.1
2	134.68	22.0 QP	43.5	-21.5	1.50 V	108	36.7	-14.7
3	373.35	30.2 QP	46.0	-15.8	1.00 V	196	41.1	-10.9
4	575.15	32.7 QP	46.0	-13.3	1.24 V	87	39.7	-7.0
5	621.72	31.9 QP	46.0	-14.1	1.24 V	97	37.5	-5.6
6	938.01	33.5 QP	46.0	-12.5	1.00 V	163	33.7	-0.2

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

802.11ac (VHT20) + 802.11ac (VHT20)

CHANNEL	CH 40 + CH 100	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz	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	119.16	25.3 QP	43.5	-18.2	2.00 H	268	41.4	-16.1
2	282.15	27.0 QP	46.0	-19.0	1.00 H	165	39.6	-12.6
3	367.53	32.7 QP	46.0	-13.3	1.50 H	121	43.6	-10.9
4	575.15	26.9 QP	46.0	-19.1	1.00 H	161	33.9	-7.0
5	798.30	35.1 QP	46.0	-10.9	1.50 H	226	37.4	-2.3
6	905.02	30.8 QP	46.0	-15.2	1.00 H	22	31.3	-0.5
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	37.66	38.2 QP	40.0	-1.8	1.00 V	233	53.3	-15.1
2	134.68	22.6 QP	43.5	-20.9	1.24 V	83	37.3	-14.7
3	379.17	30.4 QP	46.0	-15.6	1.50 V	184	41.1	-10.7
4	588.74	32.0 QP	46.0	-14.0	1.00 V	94	38.5	-6.5
5	819.64	30.8 QP	46.0	-15.2	1.24 V	178	32.7	-1.9
6	939.95	36.4 QP	46.0	-9.6	2.00 V	88	36.5	-0.1

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

802.11b + 802.11ac (VHT20) + 802.11ac (VHT20)

CHANNEL	CH 1 + CH 64 + CH 165	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz	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	119.16	26.1 QP	43.5	-17.4	1.00 H	283	42.2	-16.1
2	223.94	25.3 QP	46.0	-20.7	1.00 H	187	41.5	-16.2
3	365.59	31.8 QP	46.0	-14.2	1.24 H	130	42.8	-11.0
4	617.84	27.8 QP	46.0	-18.2	1.00 H	143	33.5	-5.7
5	790.54	35.8 QP	46.0	-10.2	1.50 H	221	38.2	-2.4
6	939.95	34.1 QP	46.0	-11.9	1.50 H	238	34.2	-0.1
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	37.66	31.1 QP	40.0	-8.9	1.24 V	63	46.2	-15.1
2	301.56	24.3 QP	46.0	-21.7	1.00 V	183	36.5	-12.2
3	365.59	29.9 QP	46.0	-16.1	1.50 V	173	40.9	-11.0
4	575.15	32.7 QP	46.0	-13.3	1.50 V	79	39.7	-7.0
5	829.34	30.1 QP	46.0	-15.9	2.00 V	151	31.9	-1.8
6	947.71	33.2 QP	46.0	-12.8	1.00 V	9	33.2	0.0

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

802.11b + 802.11ac (VHT20) + 802.11ac (VHT20)

CHANNEL	CH 1 + CH 40 + CH 100	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz	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	119.16	24.5 QP	43.5	-19.0	1.00 H	322	40.6	-16.1
2	291.85	27.9 QP	46.0	-18.1	2.00 H	245	40.3	-12.4
3	363.65	31.9 QP	46.0	-14.1	1.00 H	138	42.9	-11.0
4	575.15	26.9 QP	46.0	-19.1	1.50 H	344	33.9	-7.0
5	778.89	34.0 QP	46.0	-12.0	1.50 H	214	36.4	-2.4
6	939.95	34.1 QP	46.0	-11.9	1.00 H	12	34.2	-0.1
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	35.72	32.2 QP	40.0	-7.8	1.50 V	321	47.7	-15.5
2	156.03	21.6 QP	43.5	-21.9	1.00 V	7	35.3	-13.7
3	369.47	31.1 QP	46.0	-14.9	1.00 V	200	42.0	-10.9
4	577.09	31.8 QP	46.0	-14.2	1.00 V	91	38.8	-7.0
5	815.76	29.8 QP	46.0	-16.2	1.24 V	195	31.8	-2.0
6	939.95	35.4 QP	46.0	-10.6	1.24 V	189	35.5	-0.1

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

802.11b + 802.11ac (VHT20) + 802.11ac (VHT20)

CHANNEL	CH 1 + CH 64 + CH 100	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz	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	119.16	25.1 QP	43.5	-18.4	1.00 H	302	41.2	-16.1
2	223.94	26.1 QP	46.0	-19.9	2.00 H	215	42.3	-16.2
3	365.59	30.9 QP	46.0	-15.1	1.24 H	144	41.9	-11.0
4	575.15	27.2 QP	46.0	-18.8	1.00 H	219	34.2	-7.0
5	794.42	34.3 QP	46.0	-11.7	1.24 H	219	36.6	-2.3
6	939.95	33.0 QP	46.0	-13.0	1.50 H	185	33.1	-0.1
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	37.66	30.6 QP	40.0	-9.4	1.00 V	131	45.7	-15.1
2	303.50	23.8 QP	46.0	-22.2	1.24 V	190	35.9	-12.1
3	363.65	30.9 QP	46.0	-15.1	1.00 V	190	41.9	-11.0
4	586.79	31.6 QP	46.0	-14.4	1.00 V	77	38.1	-6.5
5	767.25	28.3 QP	46.0	-17.7	1.24 V	193	31.1	-2.8
6	939.95	34.4 QP	46.0	-11.6	1.50 V	126	34.5	-0.1

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

802.11b + 802.11ac (VHT20)

CHANNEL	CH 1 + CH 64	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz	TEST MODE	B

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	117.22	23.0 QP	43.5	-20.5	1.00 H	272	39.2	-16.2
2	256.93	28.1 QP	46.0	-17.9	1.24 H	250	42.0	-13.9
3	381.11	33.0 QP	46.0	-13.0	2.00 H	244	43.6	-10.6
4	577.09	28.0 QP	46.0	-18.0	1.00 H	2	35.0	-7.0
5	806.06	30.3 QP	46.0	-15.7	1.00 H	7	32.4	-2.1
6	939.95	34.0 QP	46.0	-12.0	2.00 H	216	34.1	-0.1
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	53.18	24.3 QP	40.0	-15.7	2.00 V	27	38.5	-14.2
2	241.40	25.9 QP	46.0	-20.1	1.00 V	195	40.4	-14.5
3	381.11	29.0 QP	46.0	-17.0	1.24 V	214	39.6	-10.6
4	577.09	31.5 QP	46.0	-14.5	1.00 V	138	38.5	-7.0
5	811.88	32.5 QP	46.0	-13.5	1.24 V	153	34.6	-2.1
6	941.89	32.3 QP	46.0	-13.7	1.00 V	296	32.3	0.0

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

802.11b + 802.11ac (VHT20)

CHANNEL	CH 1 + CH 100	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz	TEST MODE	B

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	117.22	22.7 QP	43.5	-20.8	1.50 H	300	38.9	-16.2
2	256.93	28.1 QP	46.0	-17.9	1.00 H	264	42.0	-13.9
3	379.17	33.7 QP	46.0	-12.3	1.00 H	226	44.4	-10.7
4	577.09	28.1 QP	46.0	-17.9	1.50 H	151	35.1	-7.0
5	778.89	30.5 QP	46.0	-15.5	1.00 H	174	32.9	-2.4
6	939.95	32.8 QP	46.0	-13.2	1.24 H	215	32.9	-0.1
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	66.77	22.0 QP	40.0	-18.0	1.00 V	56	37.7	-15.7
2	247.22	25.7 QP	46.0	-20.3	1.50 V	212	39.9	-14.2
3	381.11	30.4 QP	46.0	-15.6	1.00 V	197	41.0	-10.6
4	582.91	33.0 QP	46.0	-13.0	1.24 V	126	39.8	-6.8
5	792.48	32.2 QP	46.0	-13.8	2.00 V	152	34.5	-2.3
6	939.95	34.6 QP	46.0	-11.4	2.00 V	318	34.7	-0.1

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

802.11ac (VHT20) + 802.11ac (VHT20)

CHANNEL	CH 64 + CH 100	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz	TEST MODE	B

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	117.22	22.7 QP	43.5	-20.8	1.24 H	284	38.9	-16.2
2	251.11	27.6 QP	46.0	-18.4	1.00 H	246	41.7	-14.1
3	381.11	33.3 QP	46.0	-12.7	1.50 H	230	43.9	-10.6
4	577.09	28.1 QP	46.0	-17.9	2.00 H	182	35.1	-7.0
5	773.07	31.9 QP	46.0	-14.1	1.50 H	176	35.0	-3.1
6	939.95	32.7 QP	46.0	-13.3	1.00 H	280	32.8	-0.1
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	45.42	25.2 QP	40.0	-14.8	1.00 V	208	39.8	-14.6
2	247.22	25.8 QP	46.0	-20.2	1.50 V	191	40.0	-14.2
3	381.11	28.4 QP	46.0	-17.6	1.50 V	210	39.0	-10.6
4	586.79	32.2 QP	46.0	-13.8	1.00 V	126	38.7	-6.5
5	800.24	32.2 QP	46.0	-13.8	1.00 V	160	34.4	-2.2
6	939.95	33.6 QP	46.0	-12.4	1.00 V	198	33.7	-0.1

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

802.11ac (VHT20) + 802.11a

CHANNEL	CH 64 + CH 165	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz	TEST MODE	B

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	117.22	22.8 QP	43.5	-20.7	1.24 H	275	39.0	-16.2
2	256.93	28.2 QP	46.0	-17.8	1.00 H	262	42.1	-13.9
3	381.11	33.0 QP	46.0	-13.0	1.00 H	214	43.6	-10.6
4	577.09	27.7 QP	46.0	-18.3	1.24 H	187	34.7	-7.0
5	780.83	31.7 QP	46.0	-14.3	1.00 H	183	34.1	-2.4
6	947.71	33.9 QP	46.0	-12.1	2.00 H	265	33.9	0.0
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	29.90	23.5 QP	40.0	-16.5	1.00 V	302	39.2	-15.7
2	377.23	27.9 QP	46.0	-18.1	1.50 V	204	38.6	-10.7
3	480.07	31.1 QP	46.0	-14.9	1.50 V	178	40.1	-9.0
4	590.68	31.7 QP	46.0	-14.3	1.00 V	133	38.2	-6.5
5	809.94	33.5 QP	46.0	-12.5	1.50 V	163	35.6	-2.1
6	932.19	33.2 QP	46.0	-12.8	1.00 V	345	33.5	-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)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

802.11ac (VHT20) + 802.11ac (VHT20)

CHANNEL	CH 40 + CH 100	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz	TEST MODE	B

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	117.22	23.1 QP	43.5	-20.4	1.50 H	276	39.3	-16.2
2	251.11	28.1 QP	46.0	-17.9	1.00 H	246	42.2	-14.1
3	381.11	33.6 QP	46.0	-12.4	1.24 H	238	44.2	-10.6
4	577.09	28.9 QP	46.0	-17.1	1.00 H	186	35.9	-7.0
5	776.95	31.1 QP	46.0	-14.9	2.00 H	171	33.6	-2.5
6	939.95	32.7 QP	46.0	-13.3	1.24 H	212	32.8	-0.1
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	49.30	26.5 QP	40.0	-13.5	1.00 V	244	40.7	-14.2
2	241.40	25.4 QP	46.0	-20.6	2.00 V	193	39.9	-14.5
3	377.23	29.3 QP	46.0	-16.7	1.00 V	190	40.0	-10.7
4	480.07	31.0 QP	46.0	-15.0	1.24 V	180	40.0	-9.0
5	577.09	32.2 QP	46.0	-13.8	1.24 V	126	39.2	-7.0
6	939.95	33.1 QP	46.0	-12.9	1.00 V	344	33.2	-0.1

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

802.11b + 802.11ac (VHT20) + 802.11ac (VHT20)

CHANNEL	CH 1 + CH 64 + CH 165	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz	TEST MODE	B

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	117.22	22.7 QP	43.5	-20.8	1.50 H	291	38.9	-16.2
2	251.11	28.1 QP	46.0	-17.9	1.00 H	255	42.2	-14.1
3	381.11	33.1 QP	46.0	-12.9	1.50 H	232	43.7	-10.6
4	577.09	28.4 QP	46.0	-17.6	1.00 H	21	35.4	-7.0
5	759.49	30.6 QP	46.0	-15.4	1.24 H	167	33.2	-2.6
6	939.95	33.2 QP	46.0	-12.8	1.24 H	44	33.3	-0.1
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	37.66	25.4 QP	40.0	-14.6	1.00 V	240	40.5	-15.1
2	251.11	26.8 QP	46.0	-19.2	1.24 V	192	40.9	-14.1
3	381.11	29.9 QP	46.0	-16.1	1.24 V	210	40.5	-10.6
4	577.09	32.7 QP	46.0	-13.3	1.00 V	130	39.7	-7.0
5	802.18	32.4 QP	46.0	-13.6	1.00 V	159	34.6	-2.2
6	939.95	37.1 QP	46.0	-8.9	2.00 V	7	37.2	-0.1

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

802.11b + 802.11ac (VHT20) + 802.11ac (VHT20)

CHANNEL	CH 1 + CH 40 + CH 100	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz	TEST MODE	B

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	117.22	22.2 QP	43.5	-21.3	2.00 H	281	38.4	-16.2
2	251.11	29.6 QP	46.0	-16.4	1.00 H	250	43.7	-14.1
3	377.23	33.9 QP	46.0	-12.1	2.00 H	240	44.6	-10.7
4	577.09	29.1 QP	46.0	-16.9	1.00 H	202	36.1	-7.0
5	806.06	32.3 QP	46.0	-13.7	1.24 H	230	34.4	-2.1
6	939.95	34.3 QP	46.0	-11.7	1.24 H	208	34.4	-0.1
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	62.89	22.8 QP	40.0	-17.2	1.24 V	243	38.0	-15.2
2	251.11	27.0 QP	46.0	-19.0	1.00 V	194	41.1	-14.1
3	377.23	29.8 QP	46.0	-16.2	1.24 V	192	40.5	-10.7
4	577.09	32.0 QP	46.0	-14.0	1.00 V	134	39.0	-7.0
5	813.82	32.6 QP	46.0	-13.4	2.00 V	157	34.7	-2.1
6	939.95	32.9 QP	46.0	-13.1	1.50 V	13	33.0	-0.1

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

802.11b + 802.11ac (VHT20) + 802.11ac (VHT20)

CHANNEL	CH 1 + CH 64 + CH 100	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz	TEST MODE	B

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	121.10	22.6 QP	43.5	-20.9	1.00 H	277	38.5	-15.9
2	256.93	28.6 QP	46.0	-17.4	1.50 H	264	42.5	-13.9
3	381.11	33.3 QP	46.0	-12.7	1.50 H	228	43.9	-10.6
4	577.09	27.8 QP	46.0	-18.2	1.00 H	17	34.8	-7.0
5	773.07	32.4 QP	46.0	-13.6	2.00 H	163	35.5	-3.1
6	938.01	37.2 QP	46.0	-8.8	1.24 H	238	37.4	-0.2
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	37.66	25.7 QP	40.0	-14.3	1.00 V	321	40.8	-15.1
2	251.11	26.8 QP	46.0	-19.2	2.00 V	205	40.9	-14.1
3	468.43	30.5 QP	46.0	-15.5	1.00 V	182	39.6	-9.1
4	577.09	34.0 QP	46.0	-12.0	1.00 V	131	41.0	-7.0
5	792.48	32.4 QP	46.0	-13.6	1.24 V	180	34.7	-2.3
6	939.95	35.7 QP	46.0	-10.3	1.24 V	339	35.8	-0.1

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

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.	Cal. Date	Cal. Due
Test Receiver ROHDE & SCHWARZ	ESCS 30	100424	Oct. 24, 2016	Oct. 23, 2017
RF signal cable (with 10dB PAD) Woken	5D-FB	Cable-cond1-01	Dec. 22, 2016	Dec. 21, 2017
LISN ROHDE & SCHWARZ (EUT)	ESH2-Z5	100100	Jan. 17, 2017	Jan. 16, 2018
LISN ROHDE & SCHWARZ (Peripheral)	ESH3-Z5	100311	Jul. 28, 2016	Jul. 27, 2017
Software ADT	BV ADT_Cond_ V7.3.7.3	NA	NA	NA

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in HwaYa Shielded Room 1.
3. The VCCI Site Registration No. is C-2040.

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.

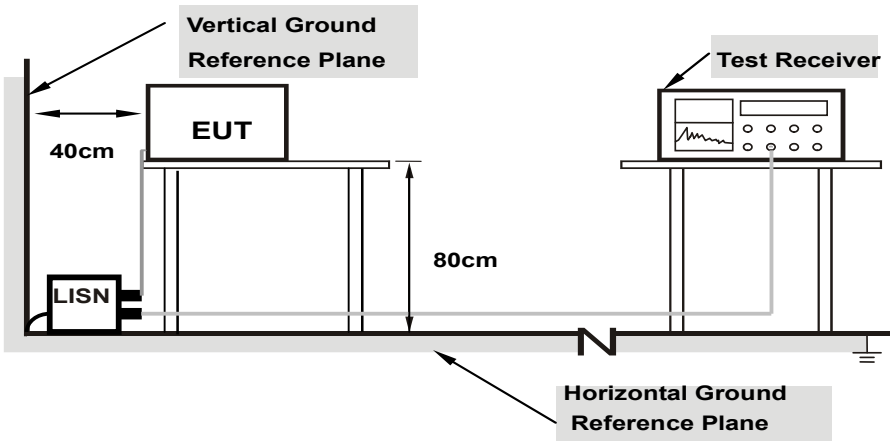
c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) were not recorded.

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

Test Mode A

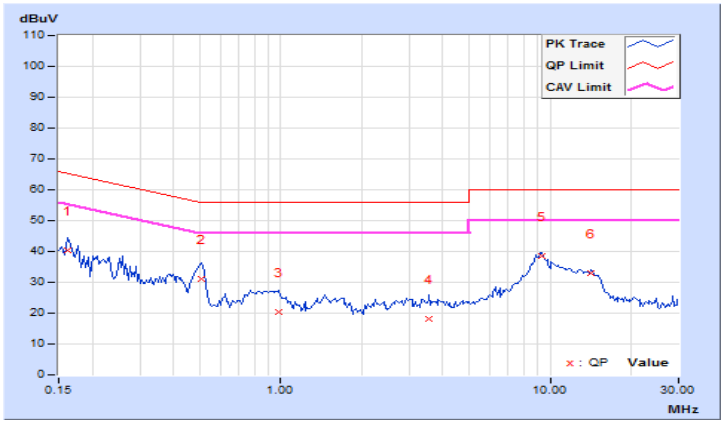
802.11b + 802.11ac (VHT20)

Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Channel	CH 1 + CH 64		

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16172	10.21	30.27	17.06	40.48	27.27	65.38	55.38	-24.90	-28.11
2	0.50547	10.29	20.78	17.85	31.07	28.14	56.00	46.00	-24.93	-17.86
3	0.98594	10.26	10.22	1.36	20.48	11.62	56.00	46.00	-35.52	-34.38
4	3.56641	10.38	7.70	0.26	18.08	10.64	56.00	46.00	-37.92	-35.36
5	9.31250	10.63	27.82	21.06	38.45	31.69	60.00	50.00	-21.55	-18.31
6	14.22656	10.87	22.07	16.42	32.94	27.29	60.00	50.00	-27.06	-22.71

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

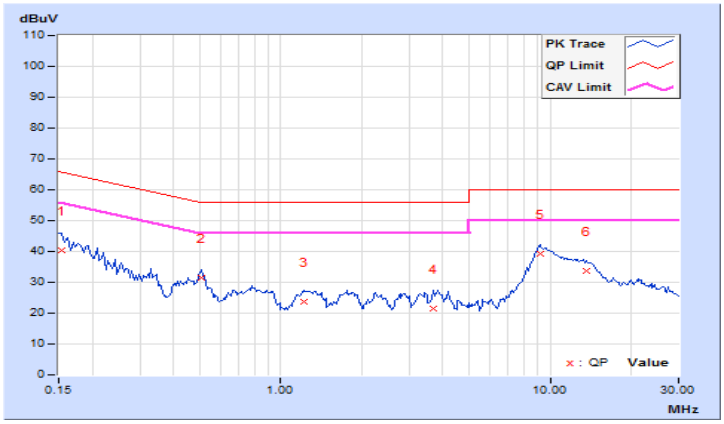


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Channel	CH 1 + CH 64		

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15391	9.96	30.56	14.35	40.52	24.31	65.79	55.79	-25.27	-31.48
2	0.50938	10.02	21.58	17.16	31.60	27.18	56.00	46.00	-24.40	-18.82
3	1.21484	10.05	13.73	9.92	23.78	19.97	56.00	46.00	-32.22	-26.03
4	3.69922	10.16	11.14	5.21	21.30	15.37	56.00	46.00	-34.70	-30.63
5	9.20703	10.37	28.96	23.52	39.33	33.89	60.00	50.00	-20.67	-16.11
6	13.61328	10.54	23.26	18.29	33.80	28.83	60.00	50.00	-26.20	-21.17

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



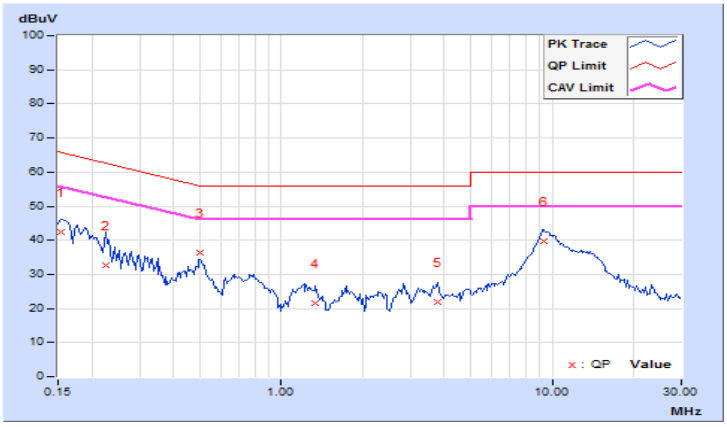
802.11b + 802.11ac (VHT20)

Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Channel	CH 1 + CH 100		

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15391	10.21	32.17	15.57	42.38	25.78	65.79	55.79	-23.41	-30.01
2	0.22422	10.22	22.51	10.47	32.73	20.69	62.66	52.66	-29.93	-31.97
3	0.50156	10.29	26.00	21.42	36.29	31.71	56.00	46.00	-19.71	-14.29
4	1.33984	10.27	11.21	4.94	21.48	15.21	56.00	46.00	-34.52	-30.79
5	3.76172	10.40	11.55	10.30	21.95	20.70	56.00	46.00	-34.05	-25.30
6	9.35547	10.63	29.12	23.08	39.75	33.71	60.00	50.00	-20.25	-16.29

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

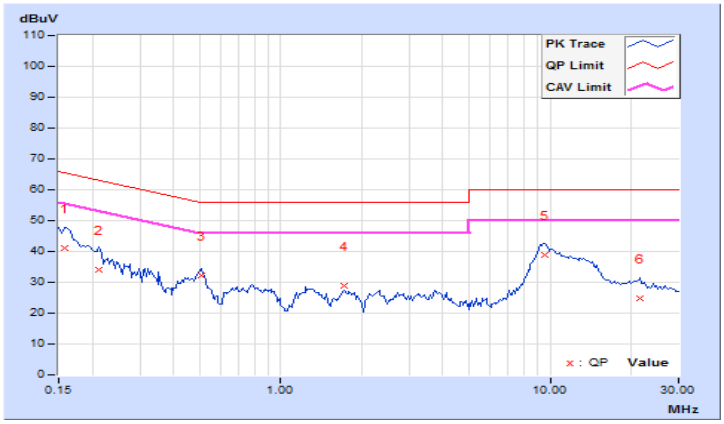


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Channel	CH 1 + CH 100		

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15781	9.96	31.18	15.67	41.14	25.63	65.58	55.58	-24.44	-29.95
2	0.21250	9.98	24.13	11.57	34.11	21.55	63.11	53.11	-29.00	-31.56
3	0.50547	10.02	22.32	19.23	32.34	29.25	56.00	46.00	-23.66	-16.75
4	1.72266	10.07	18.93	13.94	29.00	24.01	56.00	46.00	-27.00	-21.99
5	9.50781	10.38	28.37	23.10	38.75	33.48	60.00	50.00	-21.25	-16.52
6	21.55078	10.85	14.05	8.26	24.90	19.11	60.00	50.00	-35.10	-30.89

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



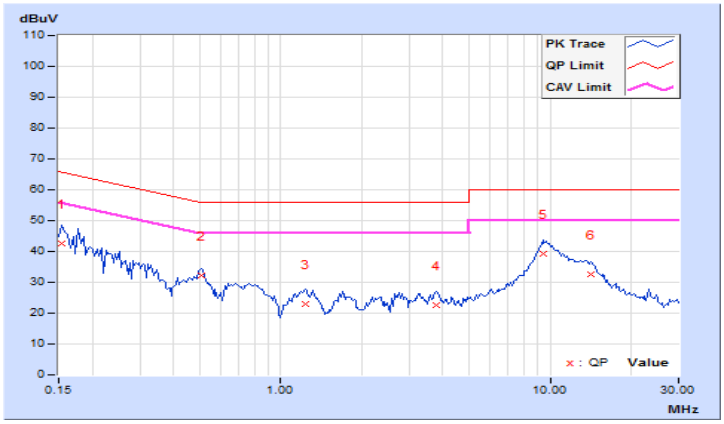
802.11ac (VHT20) + 802.11ac (VHT20)

Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Channel	CH 64 + CH 100		

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15391	10.21	32.46	16.38	42.67	26.59	65.79	55.79	-23.12	-29.20
2	0.50547	10.29	22.04	18.97	32.33	29.26	56.00	46.00	-23.67	-16.74
3	1.23047	10.27	12.63	8.63	22.90	18.90	56.00	46.00	-33.10	-27.10
4	3.76953	10.40	12.21	3.90	22.61	14.30	56.00	46.00	-33.39	-31.70
5	9.43750	10.64	28.65	21.47	39.29	32.11	60.00	50.00	-20.71	-17.89
6	14.15625	10.86	21.82	16.05	32.68	26.91	60.00	50.00	-27.32	-23.09

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

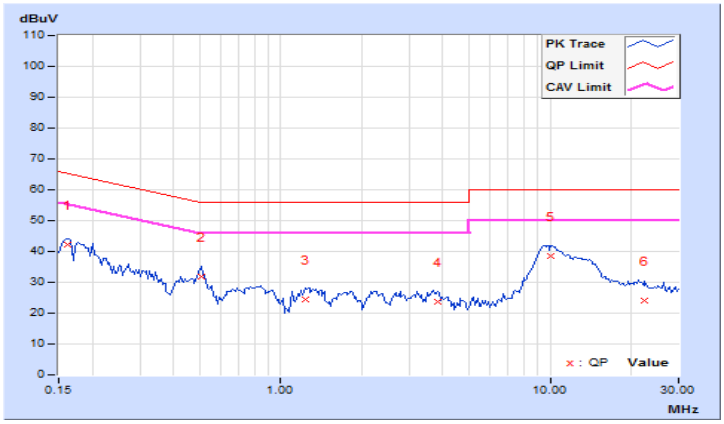


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Channel	CH 64 + CH 100		

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16172	9.96	32.09	15.57	42.05	25.53	65.38	55.38	-23.33	-29.85
2	0.50938	10.02	21.84	18.09	31.86	28.11	56.00	46.00	-24.14	-17.89
3	1.24219	10.05	14.37	10.84	24.42	20.89	56.00	46.00	-31.58	-25.11
4	3.83984	10.16	13.65	5.23	23.81	15.39	56.00	46.00	-32.19	-30.61
5	10.05078	10.40	28.09	21.53	38.49	31.93	60.00	50.00	-21.51	-18.07
6	22.43750	10.87	13.05	7.14	23.92	18.01	60.00	50.00	-36.08	-31.99

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



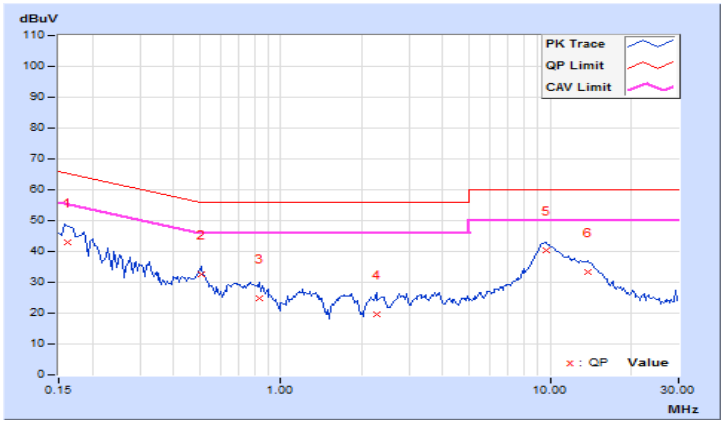
802.11ac (VHT20) + 802.11a

Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Channel	CH 64 + CH 165		

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16172	10.21	32.80	18.27	43.01	28.48	65.38	55.38	-22.37	-26.90
2	0.50547	10.29	22.12	18.93	32.41	29.22	56.00	46.00	-23.59	-16.78
3	0.82969	10.27	14.44	10.66	24.71	20.93	56.00	46.00	-31.29	-25.07
4	2.26172	10.31	9.48	3.56	19.79	13.87	56.00	46.00	-36.21	-32.13
5	9.63281	10.64	29.89	24.71	40.53	35.35	60.00	50.00	-19.47	-14.65
6	13.77344	10.84	22.48	17.17	33.32	28.01	60.00	50.00	-26.68	-21.99

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

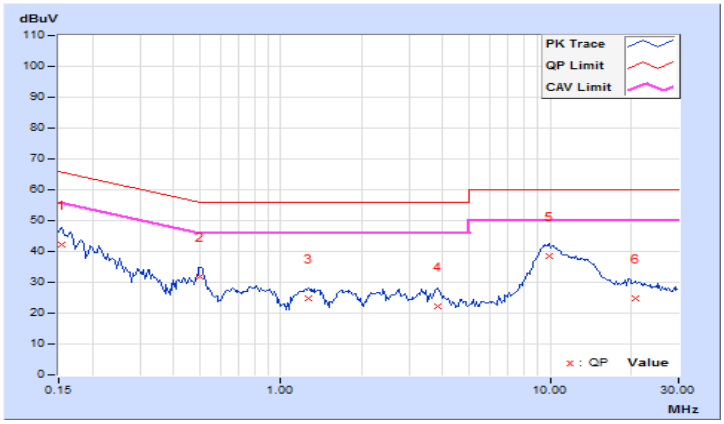


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Channel	CH 64 + CH 165		

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15391	9.96	32.23	15.14	42.19	25.10	65.79	55.79	-23.60	-30.69
2	0.50156	10.02	21.71	17.15	31.73	27.17	56.00	46.00	-24.27	-18.83
3	1.26563	10.05	14.61	11.12	24.66	21.17	56.00	46.00	-31.34	-24.83
4	3.80859	10.16	11.96	3.69	22.12	13.85	56.00	46.00	-33.88	-32.15
5	9.90234	10.40	27.95	21.02	38.35	31.42	60.00	50.00	-21.65	-18.58
6	20.65625	10.83	13.95	7.68	24.78	18.51	60.00	50.00	-35.22	-31.49

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



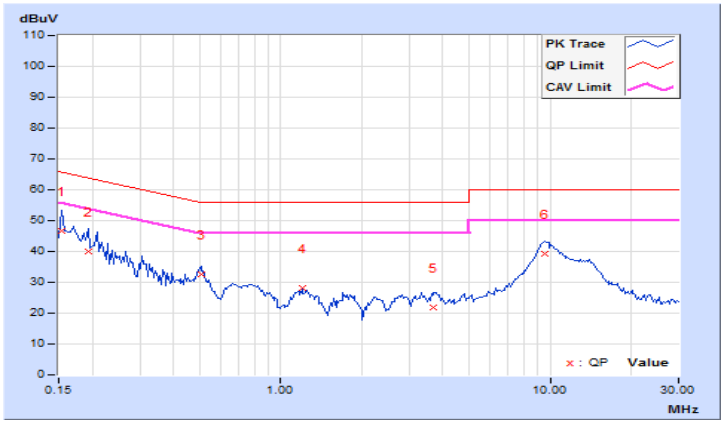
802.11ac (VHT20) + 802.11ac (VHT20)

Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Channel	CH 40 + CH 100		

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15391	10.21	36.32	17.44	46.53	27.65	65.79	55.79	-19.26	-28.14
2	0.19297	10.21	29.67	14.05	39.88	24.26	63.91	53.91	-24.03	-29.65
3	0.50547	10.29	22.38	19.17	32.67	29.46	56.00	46.00	-23.33	-16.54
4	1.19922	10.27	18.05	13.01	28.32	23.28	56.00	46.00	-27.68	-22.72
5	3.70313	10.39	11.32	4.22	21.71	14.61	56.00	46.00	-34.29	-31.39
6	9.53516	10.64	28.68	22.66	39.32	33.30	60.00	50.00	-20.68	-16.70

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

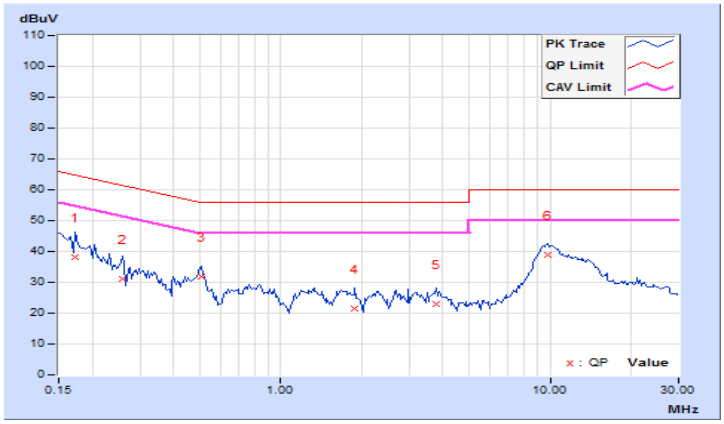


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Channel	CH 40 + CH 100		

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.17344	9.97	28.17	11.59	38.14	21.56	64.79	54.79	-26.65	-33.23
2	0.25938	9.99	20.95	15.65	30.94	25.64	61.45	51.45	-30.51	-25.81
3	0.50938	10.02	21.82	18.33	31.84	28.35	56.00	46.00	-24.16	-17.65
4	1.89063	10.08	11.28	6.34	21.36	16.42	56.00	46.00	-34.64	-29.58
5	3.76953	10.16	12.98	5.39	23.14	15.55	56.00	46.00	-32.86	-30.45
6	9.79297	10.39	28.64	22.81	39.03	33.20	60.00	50.00	-20.97	-16.80

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



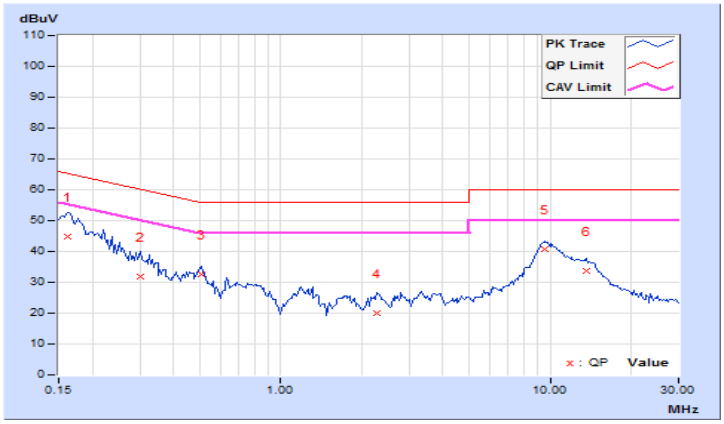
802.11b + 802.11ac (VHT20) + 802.11ac (VHT20)

Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Channel	CH 1 + CH 64 + CH 165		

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16172	10.21	34.52	19.33	44.73	29.54	65.38	55.38	-20.65	-25.84
2	0.30234	10.26	21.75	13.39	32.01	23.65	60.18	50.18	-28.17	-26.53
3	0.50547	10.29	22.26	19.15	32.55	29.44	56.00	46.00	-23.45	-16.56
4	2.28125	10.31	9.60	6.82	19.91	17.13	56.00	46.00	-36.09	-28.87
5	9.58594	10.64	30.04	24.97	40.68	35.61	60.00	50.00	-19.32	-14.39
6	13.70313	10.84	22.90	17.61	33.74	28.45	60.00	50.00	-26.26	-21.55

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

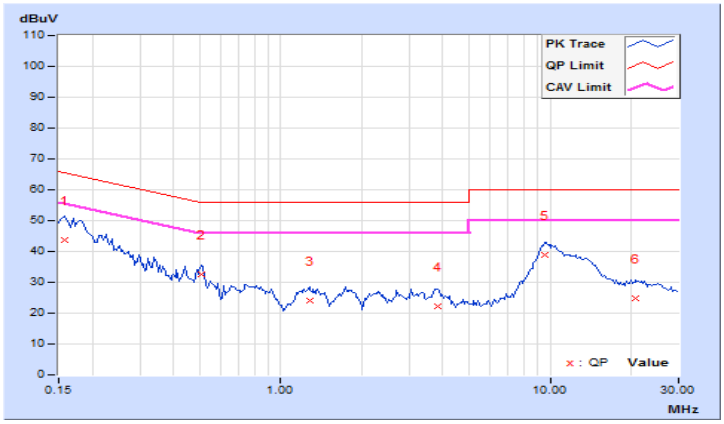


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Channel	CH 1 + CH 64 + CH 165		

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15781	9.96	33.69	17.76	43.65	27.72	65.58	55.58	-21.93	-27.86
2	0.50547	10.02	22.67	19.55	32.69	29.57	56.00	46.00	-23.31	-16.43
3	1.28125	10.05	13.84	10.64	23.89	20.69	56.00	46.00	-32.11	-25.31
4	3.84766	10.16	11.95	3.10	22.11	13.26	56.00	46.00	-33.89	-32.74
5	9.58984	10.38	28.46	23.42	38.84	33.80	60.00	50.00	-21.16	-16.20
6	20.78906	10.83	14.08	8.02	24.91	18.85	60.00	50.00	-35.09	-31.15

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



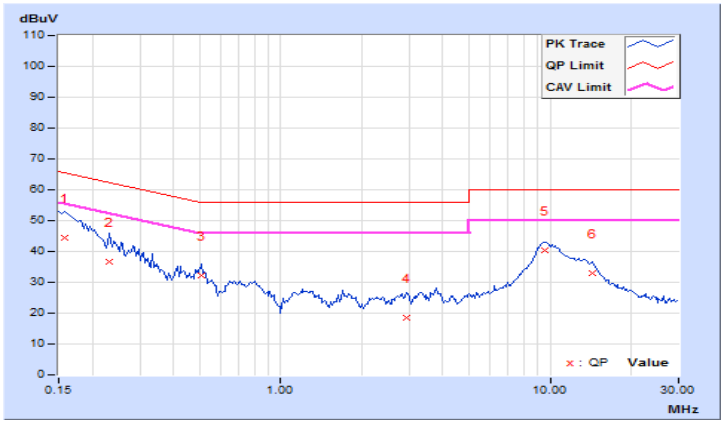
802.11b + 802.11ac (VHT20) + 802.11ac (VHT20)

Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Channel	CH 1 + CH 40 + CH 100		

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15781	10.21	34.19	19.83	44.40	30.04	65.58	55.58	-21.18	-25.54
2	0.23203	10.22	26.54	15.16	36.76	25.38	62.38	52.38	-25.62	-27.00
3	0.50938	10.29	21.80	17.86	32.09	28.15	56.00	46.00	-23.91	-17.85
4	2.92188	10.35	8.32	3.21	18.67	13.56	56.00	46.00	-37.33	-32.44
5	9.58984	10.64	29.83	24.61	40.47	35.25	60.00	50.00	-19.53	-14.75
6	14.29688	10.87	22.17	17.03	33.04	27.90	60.00	50.00	-26.96	-22.10

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

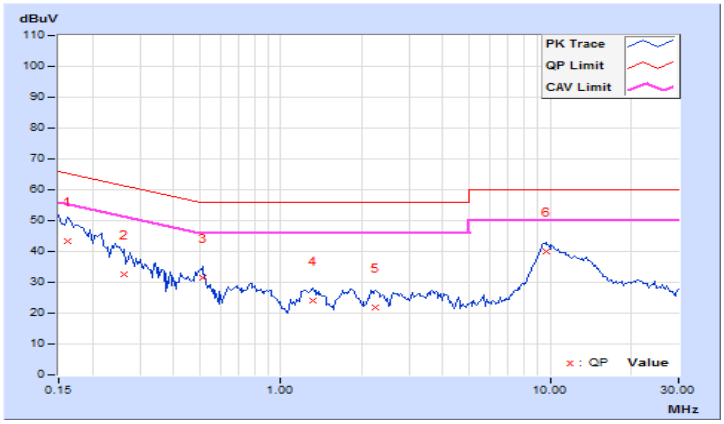


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Channel	CH 1 + CH 40 + CH 100		

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16172	9.96	33.52	17.06	43.48	27.02	65.38	55.38	-21.90	-28.36
2	0.26328	9.99	22.73	14.17	32.72	24.16	61.33	51.33	-28.61	-27.17
3	0.51328	10.02	21.34	14.22	31.36	24.24	56.00	46.00	-24.64	-21.76
4	1.31250	10.05	14.20	10.95	24.25	21.00	56.00	46.00	-31.75	-25.00
5	2.24609	10.09	11.91	6.17	22.00	16.26	56.00	46.00	-34.00	-29.74
6	9.67969	10.39	29.45	24.27	39.84	34.66	60.00	50.00	-20.16	-15.34

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



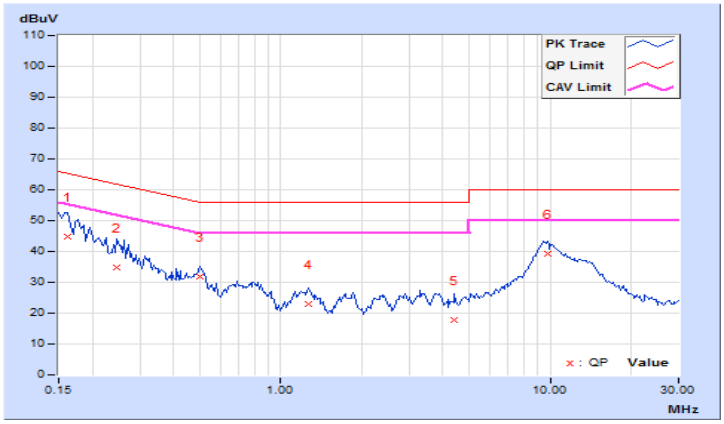
802.11b + 802.11ac (VHT20) + 802.11ac (VHT20)

Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Channel	CH 1 + CH 64 + CH 100		

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16172	10.21	34.46	19.43	44.67	29.64	65.38	55.38	-20.71	-25.74
2	0.24766	10.23	24.56	13.20	34.79	23.43	61.84	51.84	-27.05	-28.41
3	0.50156	10.29	21.58	16.88	31.87	27.17	56.00	46.00	-24.13	-18.83
4	1.26563	10.27	12.76	9.34	23.03	19.61	56.00	46.00	-32.97	-26.39
5	4.41016	10.43	7.44	1.31	17.87	11.74	56.00	46.00	-38.13	-34.26
6	9.78125	10.65	28.46	19.97	39.11	30.62	60.00	50.00	-20.89	-19.38

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

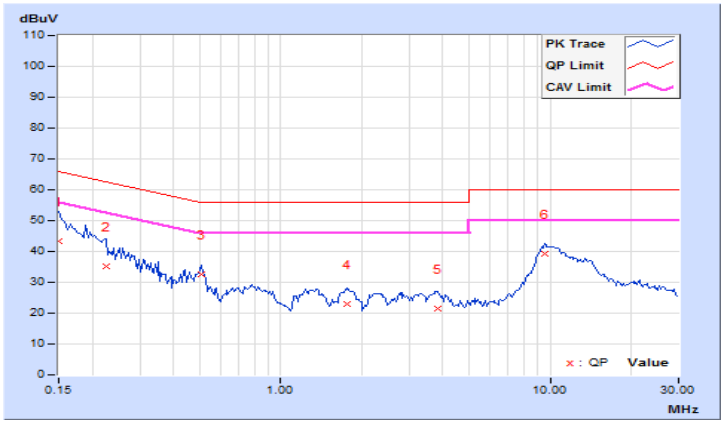


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Channel	CH 1 + CH 64 + CH 100		

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	9.96	33.37	12.86	43.33	22.82	66.00	56.00	-22.67	-33.18
2	0.22422	9.98	25.32	13.11	35.30	23.09	62.66	52.66	-27.36	-29.57
3	0.50547	10.02	22.55	19.42	32.57	29.44	56.00	46.00	-23.43	-16.56
4	1.75391	10.07	12.99	7.58	23.06	17.65	56.00	46.00	-32.94	-28.35
5	3.82422	10.16	11.18	3.27	21.34	13.43	56.00	46.00	-34.66	-32.57
6	9.51953	10.38	28.94	23.31	39.32	33.69	60.00	50.00	-20.68	-16.31

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



Test Mode B

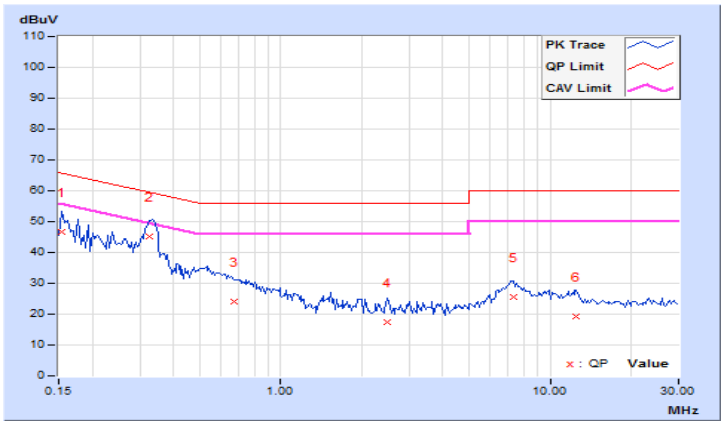
802.11b + 802.11ac (VHT20)

Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Channel	CH 1 + CH 64		

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15391	10.21	36.58	22.20	46.79	32.41	65.79	55.79	-19.00	-23.38
2	0.32578	10.27	34.93	24.90	45.20	35.17	59.56	49.56	-14.36	-14.39
3	0.66953	10.28	13.71	8.41	23.99	18.69	56.00	46.00	-32.01	-27.31
4	2.50000	10.32	6.94	-3.12	17.26	7.20	56.00	46.00	-38.74	-38.80
5	7.29297	10.55	15.19	7.65	25.74	18.20	60.00	50.00	-34.26	-31.80
6	12.55469	10.79	8.37	4.25	19.16	15.04	60.00	50.00	-40.84	-34.96

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

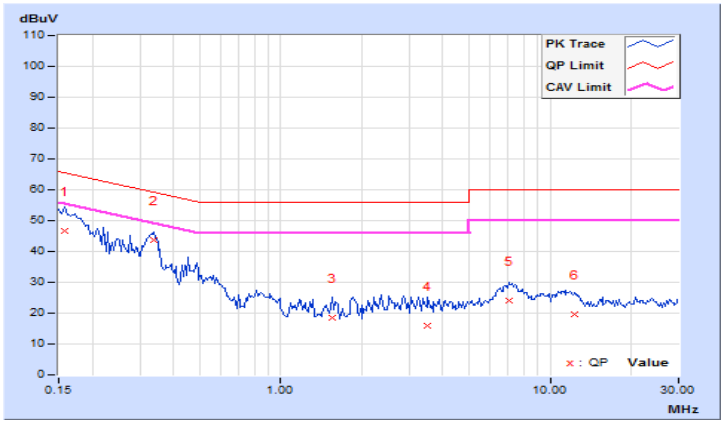


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Channel	CH 1 + CH 64		

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15781	9.96	36.58	21.99	46.54	31.95	65.58	55.58	-19.04	-23.63
2	0.33750	10.01	33.70	28.97	43.71	38.98	59.26	49.26	-15.55	-10.28
3	1.55859	10.06	8.31	-1.69	18.37	8.37	56.00	46.00	-37.63	-37.63
4	3.52344	10.15	5.76	-6.93	15.91	3.22	56.00	46.00	-40.09	-42.78
5	7.06641	10.29	13.77	6.38	24.06	16.67	60.00	50.00	-35.94	-33.33
6	12.37109	10.49	9.29	5.31	19.78	15.80	60.00	50.00	-40.22	-34.20

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



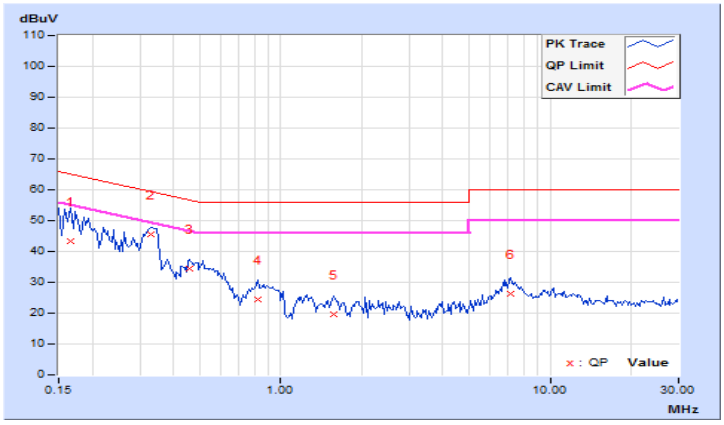
802.11b + 802.11ac (VHT20)

Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Channel	CH 1 + CH 100		

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16562	10.21	33.30	19.10	43.51	29.31	65.18	55.18	-21.67	-25.87
2	0.32969	10.27	35.16	27.04	45.43	37.31	59.46	49.46	-14.03	-12.15
3	0.45859	10.30	24.08	18.69	34.38	28.99	56.72	46.72	-22.34	-17.73
4	0.82188	10.27	14.00	10.72	24.27	20.99	56.00	46.00	-31.73	-25.01
5	1.56641	10.28	9.44	5.61	19.72	15.89	56.00	46.00	-36.28	-30.11
6	7.14063	10.54	15.59	8.43	26.13	18.97	60.00	50.00	-33.87	-31.03

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

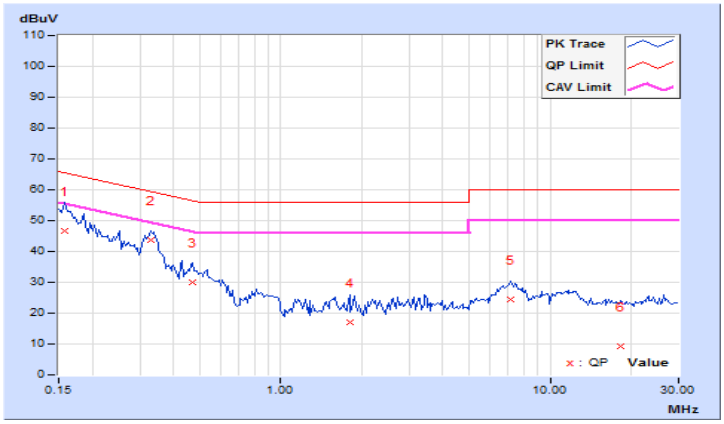


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Channel	CH 1 + CH 100		

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15781	9.96	36.64	21.99	46.60	31.95	65.58	55.58	-18.98	-23.63
2	0.32969	10.01	33.69	25.38	43.70	35.39	59.46	49.46	-15.76	-14.07
3	0.47031	10.02	20.07	14.07	30.09	24.09	56.51	46.51	-26.42	-22.42
4	1.80859	10.07	7.12	-1.68	17.19	8.39	56.00	46.00	-38.81	-37.61
5	7.15625	10.29	13.97	6.66	24.26	16.95	60.00	50.00	-35.74	-33.05
6	18.30469	10.74	-1.60	-5.46	9.14	5.28	60.00	50.00	-50.86	-44.72

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



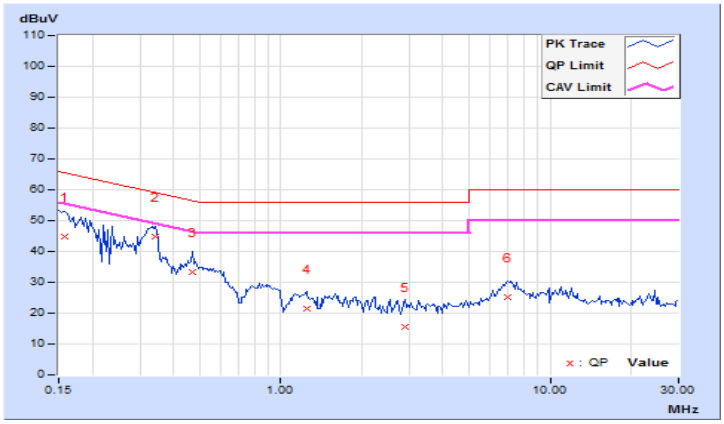
802.11ac (VHT20) + 802.11ac (VHT20)

Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Channel	CH 64 + CH 100		

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15781	10.21	34.74	20.38	44.95	30.59	65.58	55.58	-20.63	-24.99
2	0.34141	10.27	34.54	29.91	44.81	40.18	59.17	49.17	-14.36	-8.99
3	0.47031	10.30	22.85	17.10	33.15	27.40	56.51	46.51	-23.36	-19.11
4	1.24609	10.27	11.24	10.52	21.51	20.79	56.00	46.00	-34.49	-25.21
5	2.88281	10.34	5.21	-3.79	15.55	6.55	56.00	46.00	-40.45	-39.45
6	6.92969	10.53	14.68	7.43	25.21	17.96	60.00	50.00	-34.79	-32.04

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

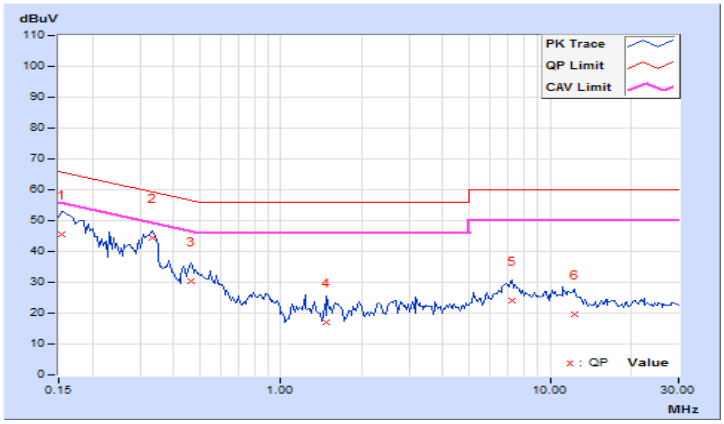


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Channel	CH 64 + CH 100		

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15391	9.96	35.67	23.14	45.63	33.10	65.79	55.79	-20.16	-22.69
2	0.33359	10.01	34.29	28.71	44.30	38.72	59.36	49.36	-15.06	-10.64
3	0.46641	10.02	20.37	13.95	30.39	23.97	56.58	46.58	-26.19	-22.61
4	1.48438	10.06	6.87	-2.02	16.93	8.04	56.00	46.00	-39.07	-37.96
5	7.19141	10.29	13.86	6.38	24.15	16.67	60.00	50.00	-35.85	-33.33
6	12.31641	10.49	9.11	7.30	19.60	17.79	60.00	50.00	-40.40	-32.21

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



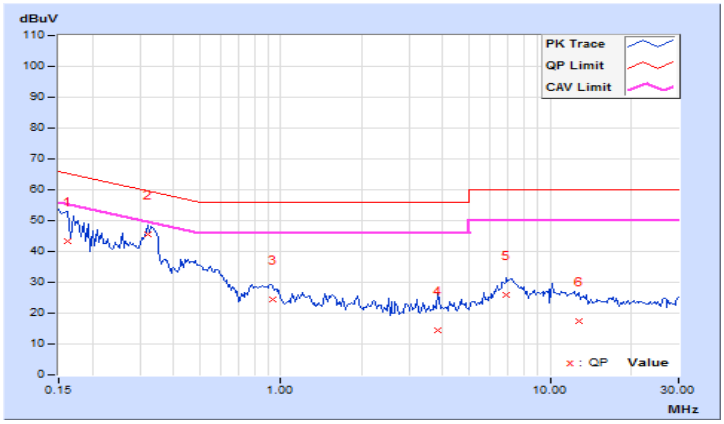
802.11ac (VHT20) + 802.11a

Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Channel	CH 64 + CH 165		

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16172	10.21	32.98	18.31	43.19	28.52	65.38	55.38	-22.19	-26.86
2	0.32188	10.26	35.21	28.06	45.47	38.32	59.66	49.66	-14.19	-11.34
3	0.93125	10.26	14.21	12.76	24.47	23.02	56.00	46.00	-31.53	-22.98
4	3.82813	10.40	3.93	-7.31	14.33	3.09	56.00	46.00	-41.67	-42.91
5	6.91406	10.53	15.22	7.90	25.75	18.43	60.00	50.00	-34.25	-31.57
6	12.75781	10.80	6.61	2.58	17.41	13.38	60.00	50.00	-42.59	-36.62

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

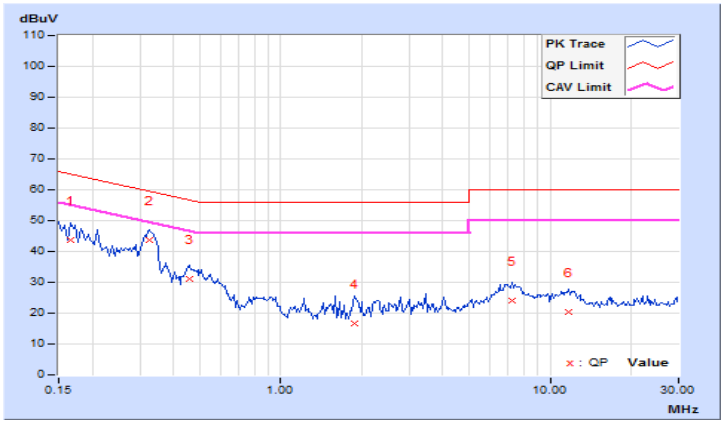


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Channel	CH 64 + CH 165		

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16562	9.96	33.58	20.17	43.54	30.13	65.18	55.18	-21.64	-25.05
2	0.32578	10.01	33.65	24.07	43.66	34.08	59.56	49.56	-15.90	-15.48
3	0.45859	10.02	20.92	17.90	30.94	27.92	56.72	46.72	-25.78	-18.80
4	1.88672	10.08	6.77	-3.43	16.85	6.65	56.00	46.00	-39.15	-39.35
5	7.18359	10.29	13.81	6.33	24.10	16.62	60.00	50.00	-35.90	-33.38
6	11.75000	10.47	9.85	5.68	20.32	16.15	60.00	50.00	-39.68	-33.85

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



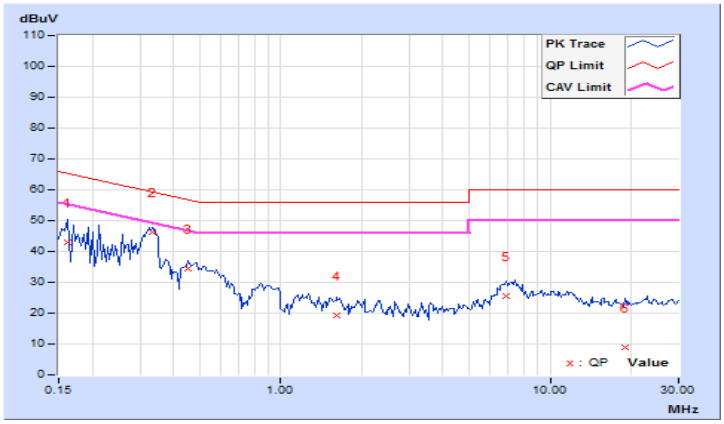
802.11ac (VHT20) + 802.11ac (VHT20)

Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Channel	CH 40 + CH 100		

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16172	10.21	32.58	18.37	42.79	28.58	65.38	55.38	-22.59	-26.80
2	0.33359	10.27	35.92	30.38	46.19	40.65	59.36	49.36	-13.17	-8.71
3	0.45469	10.30	24.01	18.76	34.31	29.06	56.79	46.79	-22.48	-17.73
4	1.61719	10.28	9.05	5.45	19.33	15.73	56.00	46.00	-36.67	-30.27
5	6.89453	10.53	15.04	7.32	25.57	17.85	60.00	50.00	-34.43	-32.15
6	18.94141	11.12	-2.12	-5.97	9.00	5.15	60.00	50.00	-51.00	-44.85

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

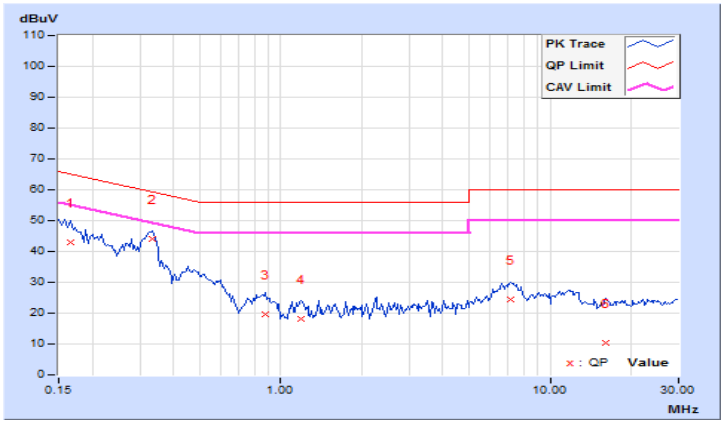


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Channel	CH 40 + CH 100		

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16562	9.96	33.08	20.18	43.04	30.14	65.18	55.18	-22.14	-25.04
2	0.33359	10.01	34.10	28.24	44.11	38.25	59.36	49.36	-15.25	-11.11
3	0.87656	10.04	9.49	5.43	19.53	15.47	56.00	46.00	-36.47	-30.53
4	1.19141	10.05	7.97	1.01	18.02	11.06	56.00	46.00	-37.98	-34.94
5	7.14844	10.29	14.05	6.58	24.34	16.87	60.00	50.00	-35.66	-33.13
6	16.10156	10.64	-0.22	-4.41	10.42	6.23	60.00	50.00	-49.58	-43.77

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



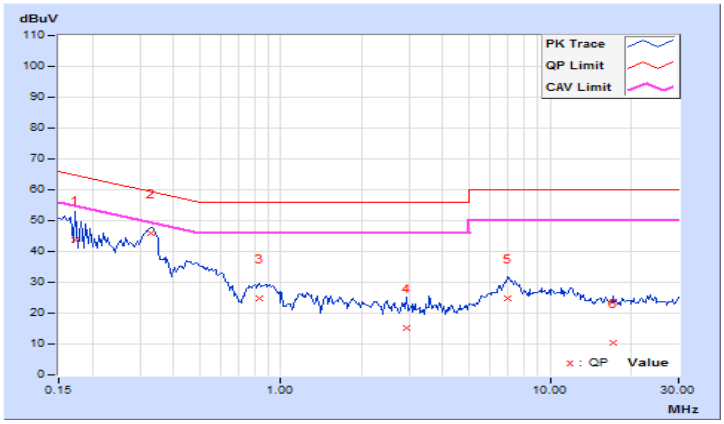
802.11b + 802.11ac (VHT20) + 802.11ac (VHT20)

Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Channel	CH 1 + CH 64 + CH 165		

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.17344	10.21	33.41	22.10	43.62	32.31	64.79	54.79	-21.17	-22.48
2	0.32969	10.27	35.61	27.83	45.88	38.10	59.46	49.46	-13.58	-11.36
3	0.82969	10.27	14.48	10.01	24.75	20.28	56.00	46.00	-31.25	-25.72
4	2.92188	10.35	4.77	-4.06	15.12	6.29	56.00	46.00	-40.88	-39.71
5	6.96484	10.53	14.42	7.58	24.95	18.11	60.00	50.00	-35.05	-31.89
6	17.19922	11.03	-0.55	-4.47	10.48	6.56	60.00	50.00	-49.52	-43.44

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

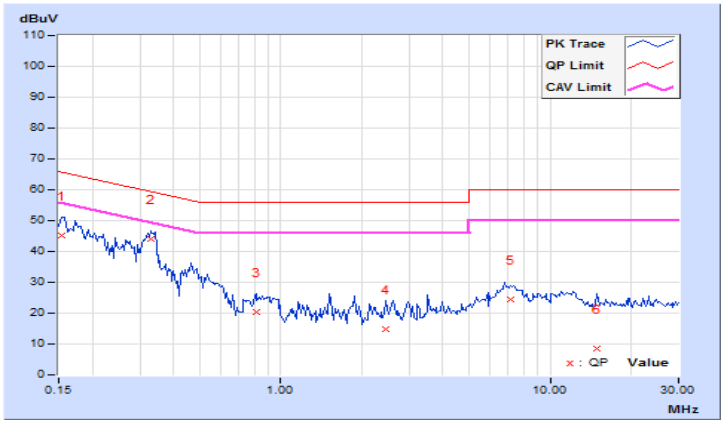


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Channel	CH 1 + CH 64 + CH 165		

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15391	9.96	35.23	22.90	45.19	32.86	65.79	55.79	-20.60	-22.93
2	0.32969	10.01	34.19	26.34	44.20	36.35	59.46	49.46	-15.26	-13.11
3	0.81406	10.03	10.35	7.06	20.38	17.09	56.00	46.00	-35.62	-28.91
4	2.46094	10.10	4.80	-6.42	14.90	3.68	56.00	46.00	-41.10	-42.32
5	7.10156	10.29	14.28	6.55	24.57	16.84	60.00	50.00	-35.43	-33.16
6	14.89063	10.59	-1.89	-5.67	8.70	4.92	60.00	50.00	-51.30	-45.08

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



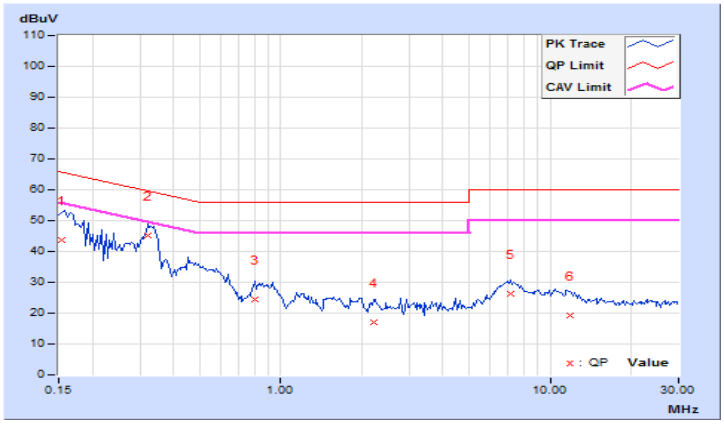
802.11b + 802.11ac (VHT20) + 802.11ac (VHT20)

Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Channel	CH 1 + CH 40 + CH 100		

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15391	10.21	33.56	21.77	43.77	31.98	65.79	55.79	-22.02	-23.81
2	0.32188	10.26	35.09	28.38	45.35	38.64	59.66	49.66	-14.31	-11.02
3	0.79844	10.27	14.32	9.40	24.59	19.67	56.00	46.00	-31.41	-26.33
4	2.23047	10.30	6.87	0.86	17.17	11.16	56.00	46.00	-38.83	-34.84
5	7.12500	10.54	15.77	8.22	26.31	18.76	60.00	50.00	-33.69	-31.24
6	11.81641	10.75	8.68	4.99	19.43	15.74	60.00	50.00	-40.57	-34.26

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

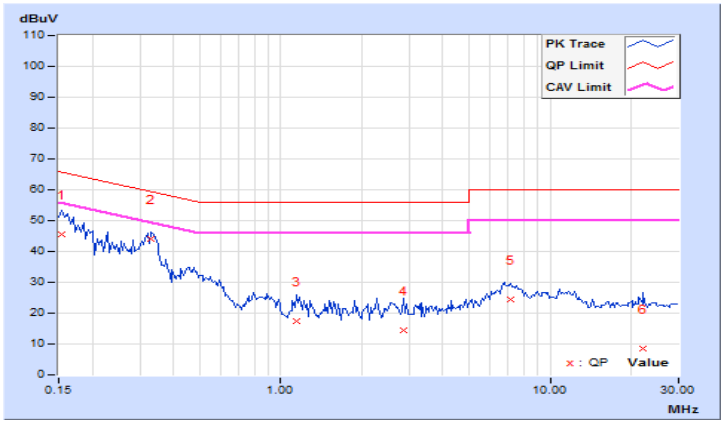


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Channel	CH 1 + CH 40 + CH 100		

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15391	9.96	35.49	22.34	45.45	32.30	65.79	55.79	-20.34	-23.49
2	0.32969	10.01	34.11	25.56	44.12	35.57	59.46	49.46	-15.34	-13.89
3	1.14453	10.05	7.28	4.20	17.33	14.25	56.00	46.00	-38.67	-31.75
4	2.84766	10.12	4.36	-7.37	14.48	2.75	56.00	46.00	-41.52	-43.25
5	7.10156	10.29	14.25	6.55	24.54	16.84	60.00	50.00	-35.46	-33.16
6	22.25391	10.87	-2.35	-6.29	8.52	4.58	60.00	50.00	-51.48	-45.42

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



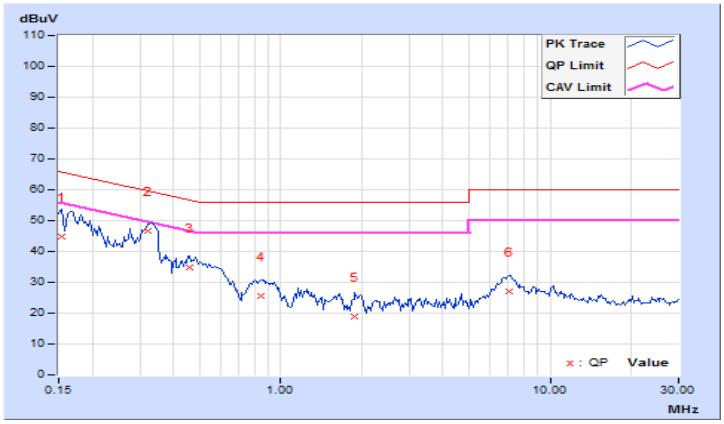
802.11b + 802.11ac (VHT20) + 802.11ac (VHT20)

Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Channel	CH 1 + CH 64 + CH 100		

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15391	10.21	34.74	21.51	44.95	31.72	65.79	55.79	-20.84	-24.07
2	0.32188	10.26	36.26	29.55	46.52	39.81	59.66	49.66	-13.14	-9.85
3	0.45859	10.30	24.57	19.82	34.87	30.12	56.72	46.72	-21.85	-16.60
4	0.84531	10.27	15.45	11.84	25.72	22.11	56.00	46.00	-30.28	-23.89
5	1.89063	10.29	8.72	4.58	19.01	14.87	56.00	46.00	-36.99	-31.13
6	7.07422	10.54	16.51	9.21	27.05	19.75	60.00	50.00	-32.95	-30.25

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

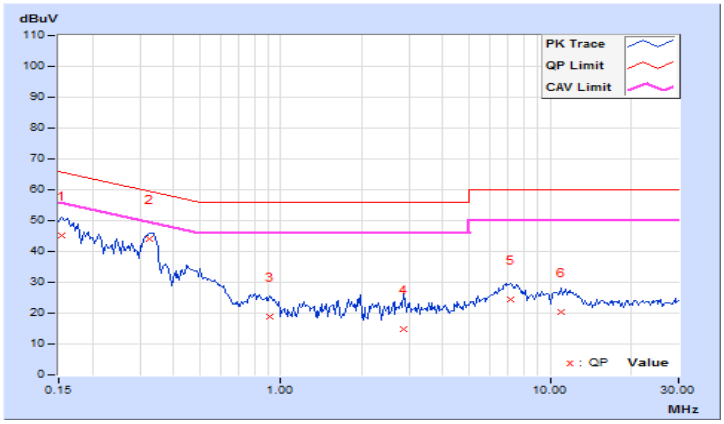


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Channel	CH 1 + CH 64 + CH 100		

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15391	9.96	35.09	22.48	45.05	32.44	65.79	55.79	-20.74	-23.35
2	0.32578	10.01	33.93	24.94	43.94	34.95	59.56	49.56	-15.62	-14.61
3	0.91172	10.04	9.02	6.07	19.06	16.11	56.00	46.00	-36.94	-29.89
4	2.84375	10.12	4.68	-0.43	14.80	9.69	56.00	46.00	-41.20	-36.31
5	7.12891	10.29	14.07	6.52	24.36	16.81	60.00	50.00	-35.64	-33.19
6	11.01563	10.44	9.91	5.26	20.35	15.70	60.00	50.00	-39.65	-34.30

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



5 Pictures of Test Arrangements

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

Appendix – Information on 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 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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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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