

FCC Test Report

Report No.: RF150821C10G-1

FCC ID: ZQ6-AP6356SDXX

Test Model: AP6356SD

Series Model: AP6356SDPB_I (Refer to item 3.1 for more details)

Received Date: Aug. 21, 2015

Test Date: Nov. 26, 2015 ~ Aug. 26, 2016 (For test mode A all tests except radiated emission above 1GHz 5745 ~ 5825MHz band)

Jul. 07 ~ Jul. 14, 2017 (For test mode A radiated emission above 1GHz 5745 ~ 5825MHz band)

Jul. 08 ~ Sep. 21, 2017 (For test mode B)

Issued Date: Oct. 02, 2017

Applicant: AMPAK Technology Inc.

Address: 3F, No. 1, Jen AI Road, Hsinchu Industrial Park, Hsinchu, Taiwan, 30352

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.)



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Table of Contents

Release Control Record	4
1 Certificate of Conformity	5
2 Summary of Test Results	6
2.1 Measurement Uncertainty	6
2.2 Modification Record	6
3 General Information	7
3.1 General Description of EUT	7
3.2 Description of Test Modes	9
3.2.1 Test Mode Applicability and Tested Channel Detail	11
3.3 Duty Cycle of Test Signal	14
3.4 Description of Support Units	16
3.4.1 Configuration of System under Test	16
3.5 General Description of Applied Standards	16
4 Test Types and Results	17
4.1 Radiated Emission and Bandedge Measurement.....	17
4.1.1 Limits of Radiated Emission and Bandedge Measurement	17
4.1.2 Test Instruments	18
4.1.3 Test Procedures.....	20
4.1.4 Deviation from Test Standard	20
4.1.5 Test Set Up	21
4.1.6 EUT Operating Conditions.....	22
4.1.7 Test Results	23
4.2 Conducted Emission Measurement	99
4.2.1 Limits of Conducted Emission Measurement	99
4.2.2 Test Instruments	99
4.2.3 Test Procedures.....	100
4.2.4 Deviation from Test Standard	100
4.2.5 Test Setup.....	100
4.2.6 EUT Operating Conditions.....	100
4.2.7 Test Results	101
4.3 Transmit Power Measurement	103
4.3.1 Limits of Transmit Power Measurement	103
4.3.2 Test Setup.....	103
4.3.3 Test Instruments	104
4.3.4 Test Procedure	104
4.3.5 Deviation from Test Standard	104
4.3.6 EUT Operating Conditions.....	104
4.3.7 Test Result.....	105
4.4 Occupied Bandwidth Measurement	110
4.4.1 Test Setup.....	110
4.4.2 Test Instruments	110
4.4.3 Test Procedure	110
4.4.4 Test Result.....	111
4.5 Peak Power Spectral Density Measurement	115
4.5.1 Limits of Peak Power Spectral Density Measurement	115
4.5.2 Test Setup.....	115
4.5.3 Test Instruments	115
4.5.4 Test Procedures.....	115
4.5.5 Deviation from Test Standard	116
4.5.6 EUT Operating Conditions.....	116
4.5.7 Test Results	117
4.6 Frequency Stability.....	122
4.6.1 Limits of Frequency Stability Measurement	122

4.6.2	Test Setup	122
4.6.3	Test Instruments	122
4.6.4	Test Procedure	122
4.6.5	Deviation from Test Standard	122
4.6.6	EUT Operating Condition	122
4.6.7	Test Results	123
4.7	6dB Bandwidth Measurement	124
4.7.1	Limits of 6dB Bandwidth Measurement	124
4.7.2	Test Setup	124
4.7.3	Test Instruments	124
4.7.4	Test Procedure	124
4.7.5	Deviation from Test Standard	124
4.7.6	EUT Operating Condition	124
4.7.7	Test Results	125
5	Pictures of Test Arrangements	127
	Annex A- Radiated Out of Band Emission (OOBE) Measurement (For U-NII-3 band)	128
	Appendix – Information on the Testing Laboratories	134

Release Control Record

Issue No.	Description	Date Issued
RF150821C10G-1	Original release	Oct. 02, 2017

1 Certificate of Conformity

Product: WLAN module for 802.11abgn(2x2) + 11ac + BT4.1

Brand: Ampak

Test Model: AP6356SD

Series Model: AP6356SDPB_I (Refer to item 3.1 for more details)

Sample Status: Engineering Sample

Applicant: AMPAK Technology Inc.

Test Date: Nov. 26, 2015 ~ Aug. 26, 2016 (For test mode A all tests except radiated emission above 1GHz 5745 ~ 5825MHz band)

Jul. 07 ~ Jul. 14, 2017 (For test mode A radiated emission above 1GHz 5745 ~ 5825MHz band)

Jul. 08 ~ Sep. 21, 2017 (For test mode B)

Standards: 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 : Celine Chou , **Date:** Oct. 02, 2017
Celine Chou / Specialist

Approved by : Ken Liu , **Date:** Oct. 02, 2017
Ken Liu / Senior Manager

2 Summary of Test Results

47 CFR FCC Part 15, Subpart E (Section 15.407)			
FCC Clause	Test Item	Result	Remarks
15.407(b)(6)	AC Power Conducted Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -9.62dB at 1.06103MHz.
15.407(b)(1/2/3/4(i/ii)/6)	Radiated Emissions & Band Edge Measurement	Pass	Meet the requirement of limit. Minimum passing margin is -1.4dB at 769.14MHz.
15.407(a)(1/2/3)	Max Average Transmit Power	Pass	Meet the requirement of limit.
---	Occupied Bandwidth Measurement	-	Reference only.
15.407(a)(1/2/3)	Peak Power Spectral Density	Pass	Meet the requirement of limit.
15.407(e)	6dB bandwidth	Pass	Meet the requirement of limit. (U-NII-3 Band only)
15.407(g)	Frequency Stability	Pass	Meet the requirement of limit.
15.203	Antenna Requirement	Pass	Antenna connector is IPEX not a standard connector.

*For U-NII-3 band compliance with rule part 15.407(b)(4)(i), the OOB test plots were recorded in Annex A.

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	3.59 dB
	200MHz ~ 1000MHz	3.60 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	WLAN module for 802.11abgn(2x2) + 11ac + BT4.1
Brand	Ampak
Test Model	AP6356SD
Series Model	AP6356SDPB_I
Model Difference	Refer to note
Status of EUT	Engineering Sample
Power Supply Rating	5Vdc (host equipment)
Modulation Type	256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM
Modulation Technology	OFDM
Transfer Rate	802.11a: 54.0/ 48.0/ 36.0/ 24.0/ 18.0/ 12.0/ 9.0/ 6.0Mbps 802.11n: up to 150Mbps 802.11ac: up to 866.7Mbps
Operating Frequency	5180 ~ 5240MHz, 5260 ~ 5320MHz, 5500 ~ 5700MHz, 5745 ~ 5825MHz
Number of Channel	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: 802.11a, 802.11n (HT20), 802.11ac (VHT20): 4 802.11n (HT40), 802.11ac (VHT40): 2 802.11ac (VHT80): 1 5500 ~ 5700MHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20): 11, 802.11n (HT40), 802.11ac (VHT40): 5, 802.11ac (VHT80): 2 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	5180 ~ 5240MHz: 17.490mW 5260 ~ 5320MHz: 19.232mW 5500 ~ 5700MHz: 18.774mW 5745 ~ 5825MHz: 18.394mW
Antenna Type	PIFA antenna with 5.5dBi gain
Antenna Connector	IPEX
Accessory Device	NA
Data Cable Supplied	NA

Note:

1. This report is prepared for FCC class II permissive change, the difference compared with the original report (BV ADT report no.: RF150821C10-1 and RF150821C10C) are adding model name and updating U-NII-3 band to the new rule. After evaluation, only the radiated emission of new model: AP6356SDPB_I test item and 5745 ~ 5825MHz band of original model: AP6356SD all test items had been an addendum test and the other data was kept in this report.
2. The following models are provided to this EUT. (New model name is marked in boldface)

Brand	Model	Description	
		Fixture	Crystal Temperature Operating Range
Ampak	AP6356SD	-	-10~65°C
	AP6356SDPB_I	AP12356_I	-40~85°C

* The model of the AP6356SD and AP6356SDPB_I was chosen for final test.

3. The EUT incorporates a MIMO function. Physically, the EUT provides two completed transmitters and two receivers.

Modulation Mode	TX Function
802.11a	2TX
802.11n (HT20)	2TX
802.11n (HT40)	2TX
802.11ac (VHT80)	2TX

* The modulation and bandwidth are similar for 802.11n mode for 20MHz/40MHz and 802.11ac mode for 20MHz/40MHz, therefore investigated worst case to representative mode in test report. (Final test mode refer section 3.2.1)

3.2 Description of Test Modes

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	5530 MHz	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 \geq 1G	RE<1G	PLC	APCM	
A	√	√	√	√	Model: AP6356SD
B	√	√	-	-	Model: AP6356SDPB_I with AP12356_I Platform

Where **RE \geq 1G**: Radiated Emission above 1GHz & Bandedge Measurement
RE<1G: Radiated Emission below 1GHz
PLC: Power Line Conducted Emission
APCM: Antenna Port Conducted Measurement

Note:

1. The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on **Y-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. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
A, B	802.11a	5180-5240	36 to 48	36, 40, 48	OFDM	BPSK	6.0
A, B	802.11n (HT20)		36 to 48	36, 40, 48	OFDM	BPSK	7.2
A, B	802.11n (HT40)		38 to 46	38, 46	OFDM	BPSK	15.0
A, B	802.11ac (VHT80)		42	42	OFDM	BPSK	32.5
A, B	802.11a	5260-5320	52 to 64	52, 60, 64	OFDM	BPSK	6.0
A, B	802.11n (HT20)		52 to 64	52, 60, 64	OFDM	BPSK	7.2
A, B	802.11n (HT40)		54 to 62	54, 62	OFDM	BPSK	15.0
A, B	802.11ac (VHT80)		58	58	OFDM	BPSK	32.5
A, B	802.11a	5500-5700	100 to 140	100, 116, 140	OFDM	BPSK	6.0
A, B	802.11n (HT20)		100 to 140	100, 116, 140	OFDM	BPSK	7.2
A, B	802.11n (HT40)		102 to 134	102, 110, 134	OFDM	BPSK	15.0
A, B	802.11ac (VHT80)		106	106	OFDM	BPSK	32.5
A, B	802.11a	5745-5825	149 to 165	149, 157, 165	OFDM	BPSK	6.0
A, B	802.11n (HT20)		149 to 165	149, 157, 165	OFDM	BPSK	7.2
A, B	802.11n (HT40)		151 to 159	151, 159	OFDM	BPSK	15.0
A, B	802.11ac (VHT80)		155	155	OFDM	BPSK	32.5

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. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
A, B	802.11a	5180-5240	36 to 48	36	OFDM	BPSK	6.0
	802.11a	5260-5320	52 to 64		OFDM	BPSK	6.0
	802.11a	5745-5825	149 to 165		OFDM	BPSK	6.0
	802.11a	5500-5700	100 to 140		OFDM	BPSK	6.0

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. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
A	802.11a	5180-5240	36 to 48	36	OFDM	BPSK	6.0
	802.11a	5260-5320	52 to 64		OFDM	BPSK	6.0
	802.11a	5745-5825	149 to 165		OFDM	BPSK	6.0
	802.11a	5500-5700	100 to 140		OFDM	BPSK	6.0

Antenna Port Conducted Measurement:

- ☒ This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
A	802.11a	5180-5240	36 to 48	36, 40, 48	OFDM	BPSK	6.0
A	802.11n (HT20)		36 to 48	36, 40, 48	OFDM	BPSK	7.2
A	802.11n (HT40)		38 to 46	38, 46	OFDM	BPSK	15.0
A	802.11ac (VHT80)		42	42	OFDM	BPSK	32.5
A	802.11a	5260-5320	52 to 64	52, 60, 64	OFDM	BPSK	6.0
A	802.11n (HT20)		52 to 64	52, 60, 64	OFDM	BPSK	7.2
A	802.11n (HT40)		54 to 62	54, 62	OFDM	BPSK	15.0
A	802.11ac (VHT80)		58	58	OFDM	BPSK	32.5
A	802.11a	5500-5700	100 to 140	100, 116, 140	OFDM	BPSK	6.0
A	802.11n (HT20)		100 to 140	100, 116, 140	OFDM	BPSK	7.2
A	802.11n (HT40)		102 to 134	102, 110, 134	OFDM	BPSK	15.0
A	802.11ac (VHT80)		106	106	OFDM	BPSK	32.5
A	802.11a	5745-5825	149 to 165	149, 157, 165	OFDM	BPSK	6.0
A	802.11n (HT20)		149 to 165	149, 157, 165	OFDM	BPSK	7.2
A	802.11n (HT40)		151 to 159	151, 159	OFDM	BPSK	15.0
A	802.11ac (VHT80)		155	155	OFDM	BPSK	32.5

Test Condition:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER (SYSTEM)	TESTED BY
RE \geq 1G	25deg. C, 65%RH	120Vac, 60Hz	Chris Lin
	25deg. C, 66%RH		James Yang
RE<1G	25deg. C, 65%RH	120Vac, 60Hz	Chris Lin
	25deg. C, 66%RH		James Yang
PLC	25deg. C, 65%RH	120Vac, 60Hz	Chris Lin
APCM	25deg. C, 60%RH	120Vac, 60Hz	Frank Liu

3.3 Duty Cycle of Test Signal

For 5180 ~ 5240MHz, 5260 ~ 5320MHz, 5500 ~ 5700MHz

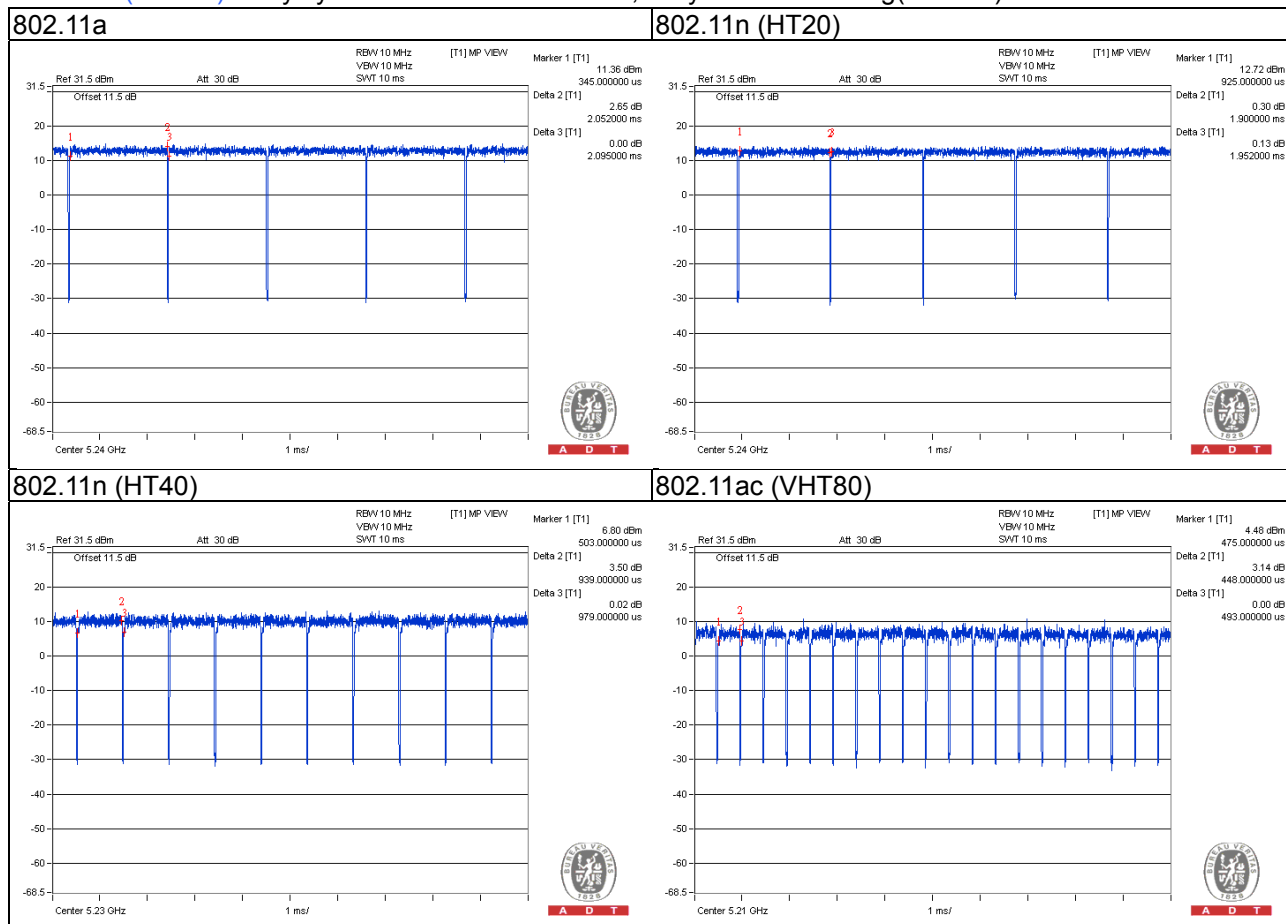
802.11a: Duty cycle of test signal is > 98%, duty factor is not required.

802.11n (HT20), 802.11n (HT40), 802.11ac (VHT80): Duty cycle of test signal is < 98 %, duty factor is required.

802.11n (HT20): Duty cycle = $1.900/1.952 = 0.973$, Duty factor = $10 * \log(1/0.973) = 0.12$

802.11n (HT40): Duty cycle = $0.939/0.979 = 0.959$, Duty factor = $10 * \log(1/0.959) = 0.18$

802.11ac (VHT80): Duty cycle = $0.448/0.493 = 0.909$, Duty factor = $10 * \log(1/0.909) = 0.42$



For 5745 ~ 5825MHz

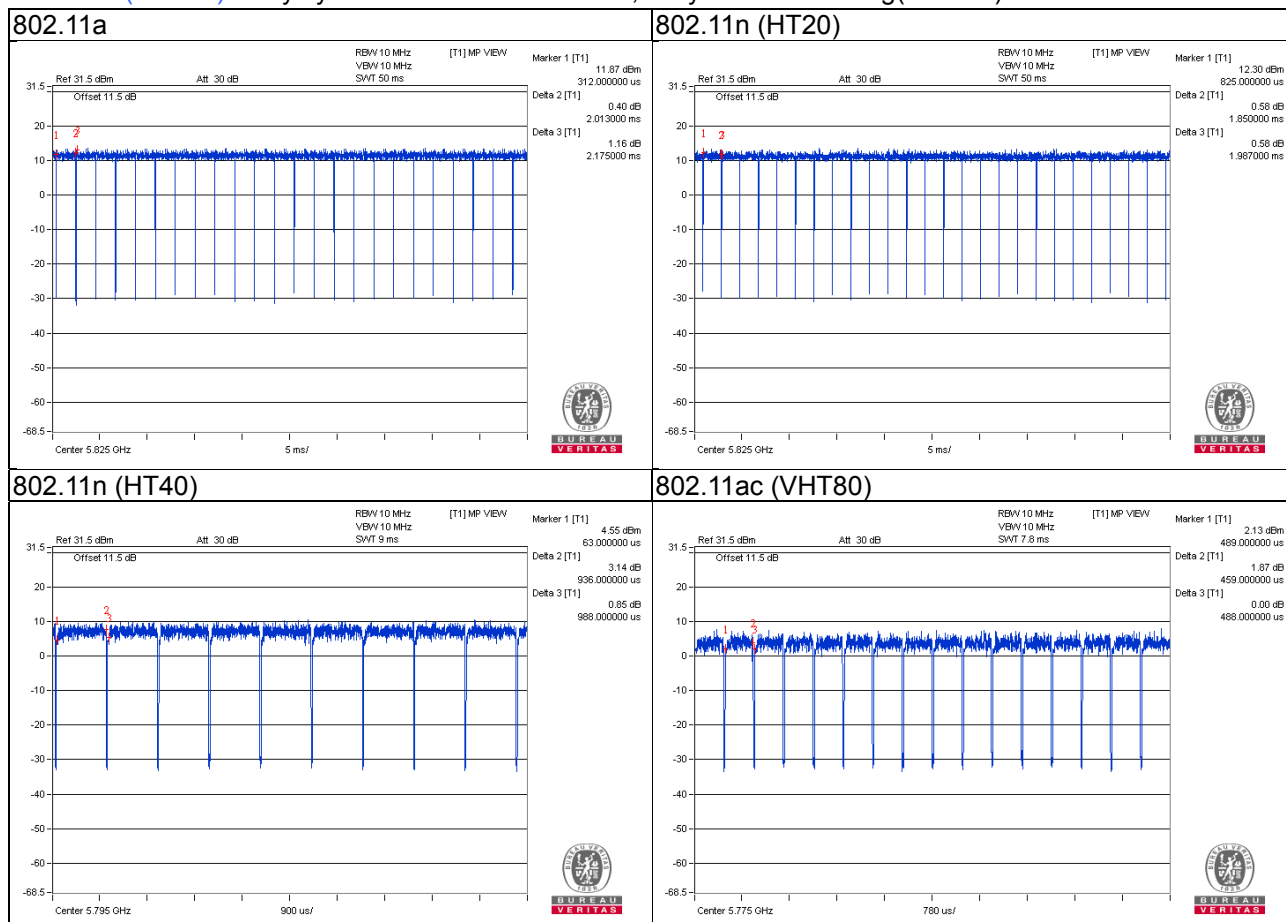
Duty cycle of test signal is < 98 %, duty factor is required.

802.11a: Duty cycle = $2.013/2.175 = 0.926$, Duty factor = $10 * \log(1/0.926) = 0.34$

802.11n (HT20): Duty cycle = $1.850/1.987 = 0.931$, Duty factor = $10 * \log(1/0.931) = 0.31$

802.11n (HT40): Duty cycle = $0.936/0.988 = 0.947$, Duty factor = $10 * \log(1/0.947) = 0.23$

802.11ac (VHT80): Duty cycle = $0.459/0.488 = 0.941$, Duty factor = $10 * \log(1/0.941) = 0.27$



3.4 Description of Support Units

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

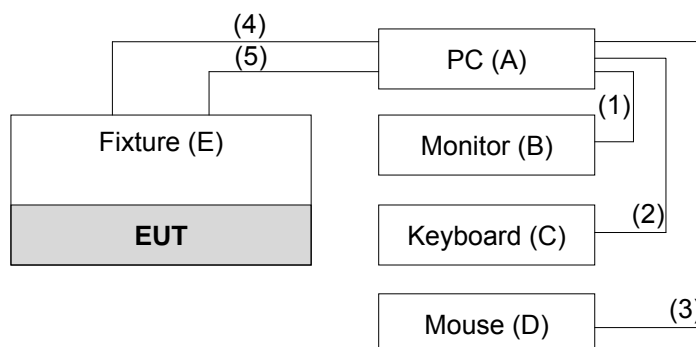
ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	PC	Ampak	AC00301	NA	NA	Provided by manufacturer
B.	Monitor	Samsung	173v	NA	NA	-
C.	Keyboard	DELL	KB4021	CN-05V23T-71581-1A K-00IX-A01	FCC DoC Approved	-
D.	Mouse	DELL	MS111-P	CN-011D3V-71581-1C J-092J	FCC DoC Approved	-
E.	Fixture	NA	NA	NA	NA	Provided by manufacturer

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

ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	D-sub cable	1	1.8	Y	2	-
2.	USB cable	1	1.8	Y	0	-
3.	USB cable	1	1.8	Y	0	-
4.	Mini USB cable	2	1	Y	0	Provided by manufacturer
5.	Convertible cable	1	0.5	N	0	Provided by manufacturer

Note: The core(s) is(are) originally attached to the cable(s).

3.4.1 Configuration of System under Test



3.5 General Description of Applied Standards

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

FCC Part 15, Subpart E (15.407)

KDB 789033 D02 General UNII Test Procedure New Rules v01r04

KDB 662911 D01 Multiple Transmitter Output v02r01

ANSI C63.10:2013

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

4 Test Types and Results

4.1 Radiated Emission and Bandedge Measurement

4.1.1 Limits of Radiated Emission and Bandedge Measurement

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table.

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

Applicable To			Limit	
789033 D02 General UNII Test Procedure New Rules v01r04			Field Strength at 3m	
			PK: 74 (dBµV/m)	AV: 54 (dBµV/m)
Frequency Band	Applicable To		EIRP Limit	Equivalent Field Strength at 3m
5150~5250 MHz	15.407(b)(1)		PK: -27 (dBm/MHz)	PK: 68.2(dBµV/m)
5250~5350 MHz	15.407(b)(2)			
5470~5725 MHz	15.407(b)(3)			
5725~5850 MHz	<input checked="" type="checkbox"/>	15.407(b)(4)(i)	PK: -27 (dBm/MHz) ^{*1} PK: 10 (dBm/MHz) ^{*2} PK: 15.6 (dBm/MHz) ^{*3} PK: 27 (dBm/MHz) ^{*4}	PK: 68.2(dBµV/m) ^{*1} PK: 105.2 (dBµV/m) ^{*2} PK: 110.8(dBµV/m) ^{*3} PK: 122.2 (dBµV/m) ^{*4}
	<input type="checkbox"/>	15.407(b)(4)(ii)	Emission limits in section 15.247(d)	
^{*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.	

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

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

4.1.2 Test Instruments

Test Date: Nov. 26, 2015 ~ Aug. 26, 2016

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver ROHDE & SCHWARZ	ESCI	100424	Oct. 12, 2015	Oct. 11, 2016
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100040	Jul. 08, 2015	Jul. 07, 2016
			Jul. 08, 2016	Jul. 07, 2017
BILOG Antenna SCHWARZBECK	VULB9168	9168-155	Jan. 07, 2015	Jan. 06, 2016
			Jan. 07, 2016	Jan. 06, 2017
HORN Antenna SCHWARZBECK	BBHA 9120D	9120D-1170	Jan. 08, 2015	Jan. 07, 2016
			Jan. 08, 2016	Jan. 07, 2017
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170241	Jan. 18, 2015	Jan. 17, 2016
			Jan. 18, 2016	Jan. 17, 2017
Loop Antenna	EM-6879	269	Aug. 11, 2015	Aug. 10, 2016
			Aug. 11, 2016	Aug. 10, 2017
Preamplifier Agilent	8449B	3008A01960	Aug. 09, 2015	Aug. 08, 2016
			Aug. 09, 2016	Aug. 08, 2017
Preamplifier Agilent	8447D	2944A10631	Aug. 09, 2015	Aug. 08, 2016
			Aug. 09, 2016	Aug. 08, 2017
RF signal cable HUBER+SUHNER	SUCOFLEX 104	Cable-CH4-02(295012+309220)	Aug. 09, 2015	Aug. 08, 2016
			Aug. 09, 2016	Aug. 08, 2017
RF signal cable HUBER+SUHNER	SUCOFLEX 104	Cable-CH4-03(250724)	Aug. 09, 2015	Aug. 08, 2016
			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
26GHz ~ 40GHz Amplifier	EM26400	815221	Oct. 18, 2015	Oct. 17, 2016
High Speed Peak Power Meter	ML2495A	0824011	Jul. 09, 2015	Jul. 08, 2016
			Jul. 09, 2016	Jul. 08, 2017
Power Sensor	MA2411B	0738171	Jul. 09, 2015	Jul. 08, 2016
			Jul. 09, 2016	Jul. 08, 2017
WIT Standard Temperature And Humidity Chamber	TH-4S-C	W981030	Jun. 08, 2015	Jun. 07, 2016
			Jun. 08, 2016	Jun. 07, 2017

- 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 Designation Number is TW0003. The number will be varied with the Lab location and scope as attached.
5. The IC Site Registration No. is IC7450F-4.

Test Date: Jul. 07 ~ Sep. 21, 2017

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver KEYSIGHT	N9038A	MY55420137	Mar. 27, 2017	Mar. 26, 2018
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100269	May 11, 2017	May 10, 2018
BILOG Antenna SCHWARZBECK	VULB9168	9168-148	Dec. 28, 2016	Dec. 27, 2017
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-1169	Dec. 27, 2016	Dec. 26, 2017
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170241	Dec. 14, 2016	Dec. 13, 2017
Loop Antenna EMCI	EM-6879	269	Aug. 11, 2016	Aug. 10, 2017
			Aug. 11, 2017	Aug. 10, 2018
Preamplifier Agilent	8449B	3008A01638	Feb. 22, 2017	Feb. 21, 2018
Preamplifier Agilent	8447D	2944A10638	Aug. 08, 2016	Aug. 07, 2017
			Aug. 08, 2017	Aug. 07, 2018
RF signal cable HUBER+SUHNER	SUCOFLEX 104	CABLE-CH9-02 (248780+MY13377)	Aug. 08, 2016	Aug. 07, 2017
			Aug. 08, 2017	Aug. 07, 2018
RF signal cable HUBER+SUHNER	SUCOFLEX 104	CABLE-CH9-(250795/4)	Aug. 08, 2016	Aug. 07, 2017
			Aug. 08, 2017	Aug. 07, 2018
RF signal cable Woken	8D-FB	Cable-CH9-01	Aug. 01, 2016	Jul. 31, 2017
			Aug. 01, 2017	Jul. 31, 2018
Software BV ADT	ADT_Radiated_ V7.6.15.9.4	NA	NA	NA
Antenna Tower EMCO	2070/2080	512.835.4684	NA	NA
Turn Table EMCO	2087-2.03	NA	NA	NA
Antenna Tower & Turn BV ADT	AT100	AT93021705	NA	NA
Turn Table BV ADT	TT100	TT93021705	NA	NA
Turn Table Controller BV ADT	SC100	SC93021705	NA	NA
26GHz ~ 40GHz Amplifier	EM26400	815221	Oct. 17, 2016	Oct. 16, 2017

- Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in HwaYa Chamber 9.
3. The horn antenna and preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
4. The FCC Designation Number is TW0003. The number will be varied with the Lab location and scope as attached.
5. The IC Site Registration No. is IC 7450F-9.

4.1.3 Test Procedures

For Radiated emission below 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. 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:

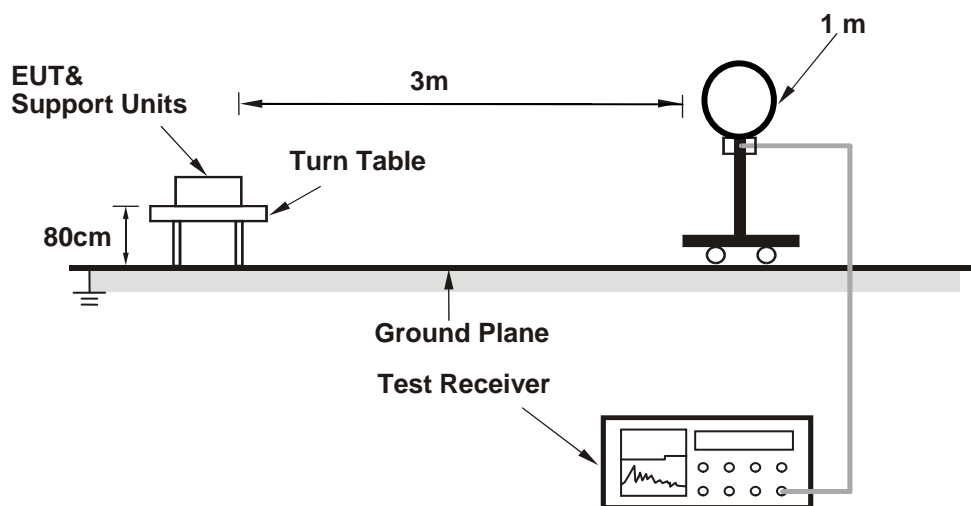
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle < 98%) or 10Hz (Duty cycle $\geq 98\%$) 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

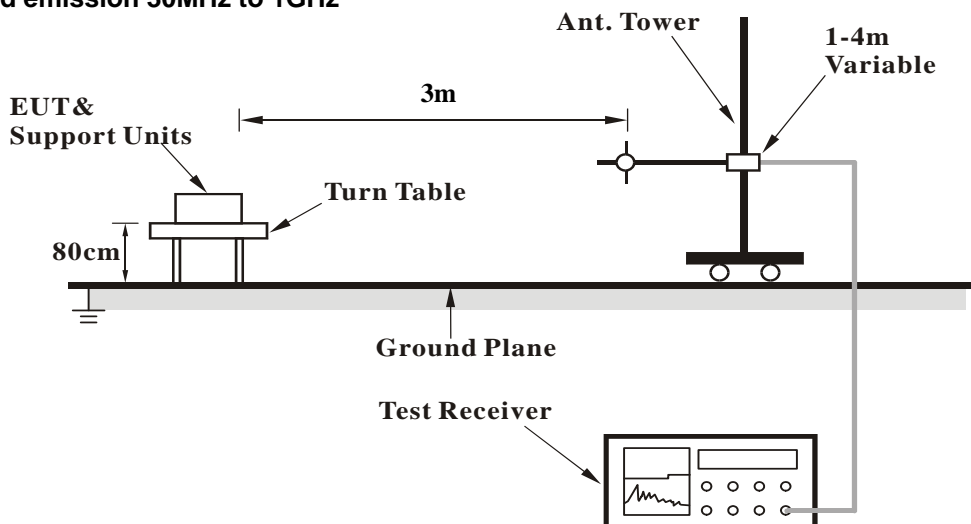
No deviation.

4.1.5 Test Set Up

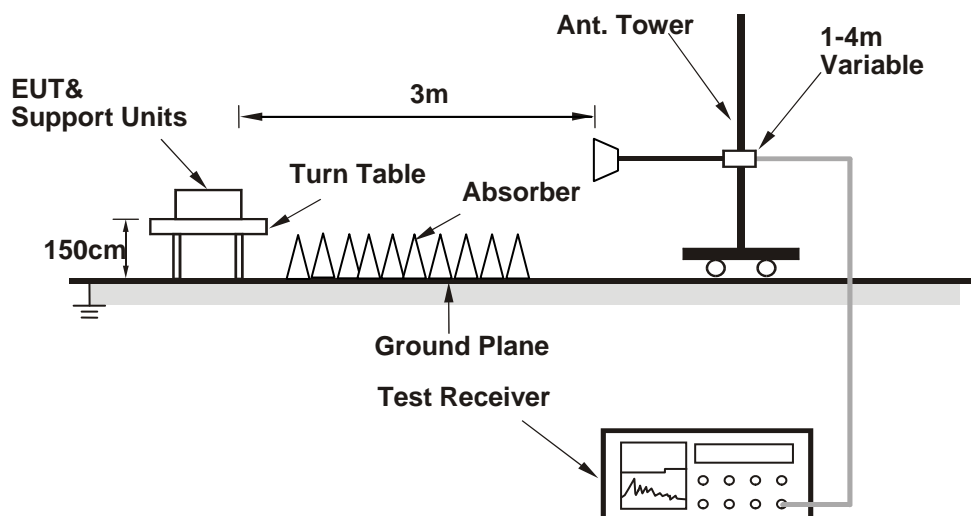
For Radiated emission below 30MHz



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

- Connected EUT with PC via Convertible Board through mini USB cable.
- Set the EUT under transmission condition continuously at specific channel frequency.

4.1.7 Test Results

Above 1GHz Worst-case Data:

Test Mode A

802.11a

CHANNEL	TX Channel 36	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	56.2 PK	74.0	-17.8	1.10 H	68	51.20	5.00
2	5150.00	43.7 AV	54.0	-10.3	1.10 H	68	38.70	5.00
3	*5180.00	95.3 PK			1.00 H	53	56.20	39.10
4	*5180.00	85.9 AV			1.00 H	53	46.80	39.10
5	#10360.00	58.1 PK	74.0	-15.9	1.39 H	87	41.00	17.10
6	#10360.00	45.2 AV	54.0	-8.8	1.39 H	87	28.10	17.10
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	55.7 PK	74.0	-18.3	2.30 V	314	50.70	5.00
2	5150.00	45.1 AV	54.0	-8.9	2.30 V	314	40.10	5.00
3	*5180.00	104.3 PK			2.21 V	294	65.20	39.10
4	*5180.00	94.6 AV			2.21 V	294	55.50	39.10
5	#10360.00	59.7 PK	74.0	-14.3	1.17 V	41	42.60	17.10
6	#10360.00	46.8 AV	54.0	-7.2	1.17 V	41	29.70	17.10

Remarks:

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

CHANNEL	TX Channel 40	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5200.00	95.8 PK			1.00 H	54	56.60	39.20
2	*5200.00	86.2 AV			1.00 H	54	47.00	39.20
3	#10400.00	58.8 PK	74.0	-15.2	1.07 H	44	41.50	17.30
4	#10400.00	45.4 AV	54.0	-8.6	1.07 H	44	28.10	17.30
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	*5200.00	104.0 PK			1.19 V	295	64.80	39.20
2	*5200.00	94.2 AV			1.19 V	295	55.00	39.20
3	#10400.00	59.9 PK	74.0	-14.1	1.74 V	85	42.60	17.30
4	#10400.00	46.7 AV	54.0	-7.3	1.74 V	85	29.40	17.30

Remarks:

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

CHANNEL	TX Channel 48	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	95.5 PK			1.00 H	48	56.30	39.20
2	*5240.00	86.2 AV			1.00 H	48	47.00	39.20
3	5350.00	56.6 PK	74.0	-17.4	1.15 H	56	51.20	5.40
4	5350.00	44.1 AV	54.0	-9.9	1.15 H	56	38.70	5.40
5	#10480.00	58.9 PK	74.0	-15.1	1.25 H	74	41.60	17.30
6	#10480.00	45.7 AV	54.0	-8.3	1.25 H	74	28.40	17.30
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	*5240.00	104.1 PK			1.19 V	296	64.90	39.20
2	*5240.00	94.1 AV			1.19 V	296	54.90	39.20
3	5350.00	58.4 PK	74.0	-15.6	1.26 V	315	53.00	5.40
4	5350.00	45.6 AV	54.0	-8.4	1.26 V	315	40.20	5.40
5	#10480.00	59.8 PK	74.0	-14.2	1.56 V	41	42.50	17.30
6	#10480.00	46.8 AV	54.0	-7.2	1.56 V	41	29.50	17.30

Remarks:

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

CHANNEL	TX Channel 52	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	56.2 PK	74.0	-17.8	1.62 H	62	51.2	5.0
2	5150.00	43.4 AV	54.0	-10.6	1.62 H	62	38.4	5.0
3	*5260.00	95.4 PK			1.51 H	54	56.2	39.2
4	*5260.00	85.3 AV			1.51 H	54	46.1	39.2
5	#10520.00	58.8 PK	74.0	-15.2	1.25 H	74	41.5	17.3
6	#10520.00	45.7 AV	54.0	-8.3	1.25 H	74	28.4	17.3
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	57.6 PK	74.0	-16.4	2.10 V	68	52.6	5.0
2	5150.00	45.5 AV	54.0	-8.5	2.10 V	68	40.5	5.0
3	*5260.00	103.4 PK			1.89 V	55	64.2	39.2
4	*5260.00	93.8 AV			1.89 V	55	54.6	39.2
5	#10520.00	59.9 PK	74.0	-14.1	1.17 V	41	42.6	17.3
6	#10520.00	47.3 AV	54.0	-6.7	1.17 V	41	30.0	17.3

Remarks:

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

CHANNEL	TX Channel 60	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5300.00	96.2 PK			1.35 H	49	56.9	39.3
2	*5300.00	86.2 AV			1.35 H	49	46.9	39.3
3	10600.00	59.4 PK	74.0	-14.6	1.28 H	74	41.6	17.8
4	10600.00	46.2 AV	54.0	-7.8	1.28 H	74	28.4	17.8
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	*5300.00	103.8 PK			1.70 V	54	64.5	39.3
2	*5300.00	93.6 AV			1.70 V	54	54.3	39.3
3	10600.00	60.4 PK	74.0	-13.6	1.07 V	41	42.6	17.8
4	10600.00	47.2 AV	54.0	-6.8	1.07 V	41	29.4	17.8

Remarks:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	96.1 PK			1.00 H	352	56.7	39.4
2	*5320.00	86.2 AV			1.00 H	352	46.8	39.4
3	5350.00	56.6 PK	74.0	-17.4	1.23 H	341	51.2	5.4
4	5350.00	43.8 AV	54.0	-10.2	1.23 H	341	38.4	5.4
5	#10520.00	59.2 PK	74.0	-14.8	1.07 H	41	41.9	17.3
6	#10520.00	45.7 AV	54.0	-8.3	1.07 H	41	28.4	17.3
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	104.2 PK			1.86 V	55	64.8	39.4
2	*5320.00	93.8 AV			1.86 V	55	54.4	39.4
3	5350.00	57.8 PK	74.0	-16.2	1.80 V	63	52.4	5.4
4	5350.00	45.5 AV	54.0	-8.5	1.80 V	63	40.1	5.4
5	10640.00	60.1 PK	74.0	-13.9	1.07 V	85	42.6	17.5
6	10640.00	47.4 AV	54.0	-6.6	1.07 V	85	29.9	17.5

Remarks:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	56.0 PK	74.0	-18.0	2.41 H	260	50.4	5.6
2	5460.00	43.0 AV	54.0	-11.0	2.41 H	260	37.4	5.6
3	#5470.00	57.3 PK	74.0	-16.7	2.41 H	260	51.6	5.7
4	#5470.00	44.1 AV	54.0	-9.9	2.41 H	260	38.4	5.7
5	*5500.00	96.2 PK			2.28 H	233	56.5	39.7
6	*5500.00	86.5 AV			2.28 H	233	46.8	39.7
7	11000.00	59.8 PK	74.0	-14.2	1.08 H	96	41.3	18.5
8	11000.00	46.9 AV	54.0	-7.1	1.08 H	96	28.4	18.5
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	5460.00	58.2 PK	74.0	-15.8	2.40 V	310	52.6	5.6
2	5460.00	44.3 AV	54.0	-9.7	2.40 V	310	38.7	5.6
3	#5470.00	58.3 PK	74.0	-15.7	2.40 V	310	52.6	5.7
4	#5470.00	45.8 AV	54.0	-8.2	2.40 V	310	40.1	5.7
5	*5500.00	105.2 PK			2.37 V	305	65.5	39.7
6	*5500.00	95.2 AV			2.37 V	305	55.5	39.7
7	11000.00	61.1 PK	74.0	-12.9	1.07 V	84	42.6	18.5
8	11000.00	47.9 AV	54.0	-6.1	1.07 V	84	29.4	18.5

Remarks:

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

CHANNEL	TX Channel 116	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5580.00	97.7 PK			2.40 H	231	58.0	39.7
2	*5580.00	86.4 AV			2.40 H	231	46.7	39.7
3	11160.00	60.6 PK	74.0	-13.4	1.08 H	52	42.6	18.0
4	11160.00	47.5 AV	54.0	-6.5	1.08 H	52	29.5	18.0
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	*5580.00	104.4 PK			2.24 V	307	64.7	39.7
2	*5580.00	94.6 AV			2.24 V	307	54.9	39.7
3	11160.00	59.6 PK	74.0	-14.4	1.08 V	55	41.6	18.0
4	11160.00	46.4 AV	54.0	-7.6	1.08 V	55	28.4	18.0

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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 140	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	97.0 PK			2.35 H	233	56.9	40.1
2	*5700.00	87.2 AV			2.35 H	233	47.1	40.1
3	#5725.00	57.3 PK	74.0	-16.7	2.40 H	228	51.2	6.1
4	#5725.00	44.5 AV	54.0	-9.5	2.40 H	228	38.4	6.1
5	11400.00	59.7 PK	74.0	-14.3	1.07 H	41	41.5	18.2
6	11400.00	46.3 AV	54.0	-7.7	1.07 H	41	28.1	18.2
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	*5700.00	105.0 PK			2.05 V	298	64.9	40.1
2	*5700.00	95.0 AV			2.05 V	298	54.9	40.1
3	#5725.00	58.7 PK	74.0	-15.3	2.15 V	314	52.6	6.1
4	#5725.00	47.0 AV	54.0	-7.0	2.15 V	314	40.9	6.1
5	11400.00	60.8 PK	74.0	-13.2	1.08 V	55	42.6	18.2
6	11400.00	47.9 AV	54.0	-6.1	1.08 V	55	29.7	18.2

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

CHANNEL	TX Channel 149	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5651.20	55.5 PK	69.1	-13.6	1.00 H	214	52.6	2.9
2	*5745.00	93.7 PK			1.00 H	214	53.8	39.9
3	*5745.00	84.1 AV			1.00 H	214	44.2	39.9
4	#5974.40	55.6 PK	68.2	-12.6	1.00 H	214	52.3	3.3
5	11490.00	54.2 PK	74.0	-19.8	1.02 H	47	39.6	14.6
6	11490.00	43.3 AV	54.0	-10.7	1.02 H	47	28.7	14.6
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	#5640.80	56.1 PK	68.2	-12.1	1.21 V	155	53.2	2.9
2	*5745.00	104.6 PK			1.19 V	152	64.7	39.9
3	*5745.00	95.9 AV			1.19 V	152	56.0	39.9
4	#5952.00	55.8 PK	68.2	-12.4	1.21 V	155	52.5	3.3
5	11490.00	55.1 PK	74.0	-18.9	1.04 V	74	40.5	14.6
6	11490.00	43.9 AV	54.0	-10.1	1.04 V	74	29.3	14.6

Remarks:

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

CHANNEL	TX Channel 157	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5640.80	55.5 PK	68.2	-12.7	1.01 H	216	52.6	2.9
2	*5785.00	94.8 PK			1.00 H	214	54.9	39.9
3	*5785.00	84.4 AV			1.00 H	214	44.5	39.9
4	#5975.20	55.6 PK	68.2	-12.6	1.06 H	219	52.3	3.3
5	11570.00	54.4 PK	74.0	-19.6	1.05 H	87	39.9	14.5
6	11570.00	43.9 AV	54.0	-10.1	1.05 H	87	29.4	14.5
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	#5640.80	56.5 PK	68.2	-11.7	1.28 V	154	53.6	2.9
2	*5785.00	109.3 PK			1.28 V	154	69.4	39.9
3	*5785.00	100.2 AV			1.28 V	154	60.3	39.9
4	#5972.80	55.7 PK	68.2	-12.5	1.28 V	154	52.4	3.3
5	11570.00	56.8 PK	74.0	-17.2	1.04 V	77	42.3	14.5
6	11570.00	44.6 AV	54.0	-9.4	1.04 V	77	30.1	14.5

Remarks:

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

CHANNEL	TX Channel 165	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5636.80	56.9 PK	68.2	-11.3	1.00 H	312	54.0	2.9
2	*5825.00	99.8 PK			1.00 H	312	59.8	40.0
3	*5825.00	90.2 AV			1.00 H	312	50.2	40.0
4	#5966.40	57.2 PK	68.2	-11.0	1.00 H	312	53.9	3.3
5	11650.00	55.8 PK	74.0	-18.2	1.79 H	104	41.1	14.7
6	11650.00	43.3 AV	54.0	-10.7	1.79 H	104	28.6	14.7
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	#5627.20	56.9 PK	68.2	-11.3	1.50 V	238	54.0	2.9
2	*5825.00	103.8 PK			1.50 V	238	63.8	40.0
3	*5825.00	94.9 AV			1.50 V	238	54.9	40.0
4	#5980.00	57.1 PK	68.2	-11.1	1.50 V	238	53.8	3.3
5	11650.00	55.9 PK	74.0	-18.1	1.76 V	125	41.2	14.7
6	11650.00	42.9 AV	54.0	-11.1	1.76 V	125	28.2	14.7

Remarks:

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

802.11n (HT20)

CHANNEL	TX Channel 36	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	56.8 PK	74.0	-17.2	1.00 H	76	51.80	5.00
2	5150.00	44.5 AV	54.0	-9.5	1.00 H	76	39.50	5.00
3	*5180.00	96.5 PK			1.00 H	73	57.40	39.10
4	*5180.00	86.2 AV			1.00 H	73	47.10	39.10
5	#10360.00	58.9 PK	74.0	-15.1	1.00 H	86	41.80	17.10
6	#10360.00	45.8 AV	54.0	-8.2	1.00 H	86	28.70	17.10
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	57.6 PK	74.0	-16.4	1.02 V	128	52.60	5.00
2	5150.00	45.6 AV	54.0	-8.4	1.02 V	128	40.60	5.00
3	*5180.00	105.4 PK			1.02 V	123	66.30	39.10
4	*5180.00	95.3 AV			1.02 V	123	56.20	39.10
5	#10360.00	59.9 PK	74.0	-14.1	1.10 V	46	42.80	17.10
6	#10360.00	47.5 AV	54.0	-6.5	1.10 V	46	30.40	17.10

Remarks:

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

CHANNEL	TX Channel 40	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5200.00	96.0 PK			1.00 H	74	56.80	39.20
2	*5200.00	85.6 AV			1.00 H	74	46.40	39.20
3	#10400.00	59.6 PK	74.0	-14.4	1.00 H	48	42.30	17.30
4	#10400.00	46.1 AV	54.0	-7.9	1.00 H	48	28.80	17.30
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	*5200.00	104.9 PK			1.02 V	122	65.70	39.20
2	*5200.00	94.4 AV			1.02 V	122	55.20	39.20
3	#10400.00	60.6 PK	74.0	-13.4	1.71 V	89	43.30	17.30
4	#10400.00	47.6 AV	54.0	-6.4	1.71 V	89	30.30	17.30

Remarks:

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

CHANNEL	TX Channel 48	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	96.2 PK			1.00 H	20	57.00	39.20
2	*5240.00	85.7 AV			1.00 H	20	46.50	39.20
3	5350.00	56.8 PK	74.0	-17.2	1.00 H	24	51.40	5.40
4	5350.00	44.5 AV	54.0	-9.5	1.00 H	24	39.10	5.40
5	#10480.00	59.2 PK	74.0	-14.8	1.00 H	72	41.90	17.30
6	#10480.00	46.2 AV	54.0	-7.8	1.00 H	72	28.90	17.30
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	*5240.00	104.6 PK			1.00 V	109	65.40	39.20
2	*5240.00	94.6 AV			1.00 V	109	55.40	39.20
3	5350.00	59.2 PK	74.0	-14.8	1.00 V	109	53.80	5.40
4	5350.00	45.8 AV	54.0	-8.2	1.00 V	109	40.40	5.40
5	#10480.00	60.0 PK	74.0	-14.0	1.59 V	49	42.70	17.30
6	#10480.00	47.0 AV	54.0	-7.0	1.59 V	49	29.70	17.30

Remarks:

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

CHANNEL	TX Channel 52	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	56.8 PK	74.0	-17.2	1.00 H	76	51.8	5.0
2	5150.00	43.8 AV	54.0	-10.2	1.00 H	76	38.8	5.0
3	*5260.00	95.7 PK			1.00 H	73	56.5	39.2
4	*5260.00	84.8 AV			1.00 H	73	45.6	39.2
5	#10520.00	58.2 PK	74.0	-15.8	1.00 H	76	40.9	17.3
6	#10520.00	45.4 AV	54.0	-8.6	1.00 H	76	28.1	17.3
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	57.8 PK	74.0	-16.2	1.00 V	87	52.8	5.0
2	5150.00	46.0 AV	54.0	-8.0	1.00 V	87	41.0	5.0
3	*5260.00	104.4 PK			1.00 V	84	65.2	39.2
4	*5260.00	93.8 AV			1.00 V	84	54.6	39.2
5	#10520.00	59.8 PK	74.0	-14.2	1.17 V	47	42.5	17.3
6	#10520.00	47.1 AV	54.0	-6.9	1.17 V	47	29.8	17.3

Remarks:

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

CHANNEL	TX Channel 60	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5300.00	95.4 PK			1.03 H	45	56.1	39.3
2	*5300.00	84.9 AV			1.03 H	45	45.6	39.3
3	10600.00	58.9 PK	74.0	-15.1	1.00 H	72	41.1	17.8
4	10600.00	46.1 AV	54.0	-7.9	1.00 H	72	28.3	17.8
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	*5300.00	105.6 PK			1.15 V	83	66.3	39.3
2	*5300.00	94.8 AV			1.15 V	83	55.5	39.3
3	10600.00	60.1 PK	74.0	-13.9	1.02 V	40	42.3	17.8
4	10600.00	47.0 AV	54.0	-7.0	1.02 V	40	29.2	17.8

Remarks:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	95.3 PK			1.00 H	60	55.9	39.4
2	*5320.00	84.9 AV			1.00 H	60	45.5	39.4
3	5350.00	56.8 PK	74.0	-17.2	1.00 H	55	51.4	5.4
4	5350.00	44.7 AV	54.0	-9.3	1.00 H	55	39.3	5.4
5	10640.00	58.8 PK	74.0	-15.2	1.00 H	44	41.3	17.5
6	10640.00	45.4 AV	54.0	-8.6	1.00 H	44	27.9	17.5
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	*5320.00	104.0 PK			1.00 V	90	64.6	39.4
2	*5320.00	93.7 AV			1.00 V	90	54.3	39.4
3	5350.00	58.6 PK	74.0	-15.4	1.00 V	88	53.2	5.4
4	5350.00	46.1 AV	54.0	-7.9	1.00 V	88	40.7	5.4
5	10640.00	60.0 PK	74.0	-14.0	1.01 V	87	42.5	17.5
6	10640.00	47.0 AV	54.0	-7.0	1.01 V	87	29.5	17.5

Remarks:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	56.8 PK	74.0	-17.2	1.00 H	85	51.2	5.6
2	5460.00	43.2 AV	54.0	-10.8	1.00 H	85	37.6	5.6
3	#5470.00	57.5 PK	74.0	-16.5	1.00 H	85	51.8	5.7
4	#5470.00	44.7 AV	54.0	-9.3	1.00 H	85	39.0	5.7
5	*5500.00	96.8 PK			1.00 H	81	57.1	39.7
6	*5500.00	86.1 AV			1.00 H	81	46.4	39.7
7	11000.00	59.4 PK	74.0	-14.6	1.00 H	95	40.9	18.5
8	11000.00	46.7 AV	54.0	-7.3	1.00 H	95	28.2	18.5
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	5460.00	58.0 PK	74.0	-16.0	1.70 V	52	52.4	5.6
2	5460.00	43.9 AV	54.0	-10.1	1.70 V	52	38.3	5.6
3	#5470.00	58.9 PK	74.0	-15.1	1.70 V	52	53.2	5.7
4	#5470.00	45.7 AV	54.0	-8.3	1.70 V	52	40.0	5.7
5	*5500.00	104.7 PK			1.77 V	52	65.0	39.7
6	*5500.00	94.4 AV			1.77 V	52	54.7	39.7
7	11000.00	60.7 PK	74.0	-13.3	1.02 V	82	42.2	18.5
8	11000.00	47.1 AV	54.0	-6.9	1.02 V	82	28.6	18.5

Remarks:

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

CHANNEL	TX Channel 116	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5580.00	97.2 PK			1.74 H	182	57.5	39.7
2	*5580.00	86.8 AV			1.74 H	182	47.1	39.7
3	11160.00	59.2 PK	74.0	-14.8	1.00 H	57	41.2	18.0
4	11160.00	45.9 AV	54.0	-8.1	1.00 H	57	27.9	18.0
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	*5580.00	103.8 PK			1.00 V	111	64.1	39.7
2	*5580.00	93.7 AV			1.00 V	111	54.0	39.7
3	11160.00	59.5 PK	74.0	-14.5	1.05 V	55	41.5	18.0
4	11160.00	46.0 AV	54.0	-8.0	1.05 V	55	28.0	18.0

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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 140	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	98.5 PK			1.62 H	183	58.4	40.1
2	*5700.00	88.2 AV			1.62 H	183	48.1	40.1
3	#5725.00	57.7 PK	74.0	-16.3	1.63 H	184	51.6	6.1
4	#5725.00	45.1 AV	54.0	-8.9	1.63 H	184	39.0	6.1
5	11400.00	59.3 PK	74.0	-14.7	1.00 H	47	41.1	18.2
6	11400.00	46.0 AV	54.0	-8.0	1.00 H	47	27.8	18.2
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	*5700.00	104.5 PK			1.00 V	88	64.4	40.1
2	*5700.00	93.6 AV			1.00 V	88	53.5	40.1
3	#5725.00	58.6 PK	74.0	-15.4	1.00 V	80	52.5	6.1
4	#5725.00	46.1 AV	54.0	-7.9	1.00 V	80	40.0	6.1
5	11400.00	59.9 PK	74.0	-14.1	1.00 V	50	41.7	18.2
6	11400.00	47.1 AV	54.0	-6.9	1.00 V	50	28.9	18.2

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

CHANNEL	TX Channel 149	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5623.20	57.0 PK	68.2	-11.2	1.60 H	213	54.1	2.9
2	*5745.00	98.1 PK			1.60 H	213	58.2	39.9
3	*5745.00	87.7 AV			1.60 H	213	47.8	39.9
4	#5994.40	57.1 PK	68.2	-11.1	1.60 H	213	53.8	3.3
5	11490.00	57.2 PK	74.0	-16.8	2.73 H	292	42.6	14.6
6	11490.00	43.1 AV	54.0	-10.9	2.73 H	292	28.5	14.6
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	#5613.60	57.6 PK	68.2	-10.6	1.57 V	330	54.7	2.9
2	*5745.00	104.5 PK			1.57 V	330	64.6	39.9
3	*5745.00	93.9 AV			1.57 V	330	54.0	39.9
4	#5986.40	58.3 PK	68.2	-9.9	1.57 V	330	55.0	3.3
5	11490.00	56.5 PK	74.0	-17.5	2.53 V	138	41.9	14.6
6	11490.00	42.9 AV	54.0	-11.1	2.53 V	138	28.3	14.6

Remarks:

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

CHANNEL	TX Channel 157	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5601.60	56.6 PK	68.2	-11.6	2.56 H	220	53.7	2.9
2	*5785.00	98.1 PK			2.56 H	220	58.2	39.9
3	*5785.00	88.0 AV			2.56 H	220	48.1	39.9
4	#5944.80	57.2 PK	68.2	-11.0	2.56 H	220	54.0	3.2
5	11570.00	57.7 PK	74.0	-16.3	1.77 H	345	43.2	14.5
6	11570.00	43.9 AV	54.0	-10.1	1.77 H	345	29.4	14.5
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	#5644.00	57.2 PK	68.2	-11.0	1.49 V	239	54.3	2.9
2	*5785.00	104.2 PK			1.49 V	239	64.3	39.9
3	*5785.00	93.2 AV			1.49 V	239	53.3	39.9
4	#5980.00	57.0 PK	68.2	-11.2	1.49 V	239	53.7	3.3
5	11570.00	56.9 PK	74.0	-17.1	1.26 V	294	42.4	14.5
6	11570.00	43.5 AV	54.0	-10.5	1.26 V	294	29.0	14.5

Remarks:

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

CHANNEL	TX Channel 165	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5619.20	57.2 PK	68.2	-11.0	2.56 H	220	54.3	2.9
2	*5825.00	97.6 PK			2.56 H	220	57.6	40.0
3	*5825.00	87.6 AV			2.56 H	220	47.6	40.0
4	#5984.80	57.3 PK	68.2	-10.9	2.56 H	220	54.0	3.3
5	11650.00	56.5 PK	74.0	-17.5	2.70 H	264	41.8	14.7
6	11650.00	43.6 AV	54.0	-10.4	2.70 H	264	28.9	14.7
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	#5640.80	56.7 PK	68.2	-11.5	1.47 V	239	53.8	2.9
2	*5825.00	103.9 PK			1.47 V	239	63.9	40.0
3	*5825.00	92.9 AV			1.47 V	239	52.9	40.0
4	#5924.80	57.0 PK	68.3	-11.3	1.47 V	239	53.8	3.2
5	11650.00	56.6 PK	74.0	-17.4	3.42 V	300	41.9	14.7
6	11650.00	43.1 AV	54.0	-10.9	3.42 V	300	28.4	14.7

Remarks:

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

802.11n (HT40)

CHANNEL	TX Channel 38	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	57.0 PK	74.0	-17.0	1.00 H	78	52.00	5.00
2	5150.00	45.2 AV	54.0	-8.8	1.00 H	78	40.20	5.00
3	*5190.00	93.5 PK			1.00 H	72	54.40	39.10
4	*5190.00	83.0 AV			1.00 H	72	43.90	39.10
5	#10380.00	57.9 PK	74.0	-16.1	1.00 H	88	40.70	17.20
6	#10380.00	44.9 AV	54.0	-9.1	1.00 H	88	27.70	17.20
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	58.1 PK	74.0	-15.9	1.04 V	123	53.10	5.00
2	5150.00	46.6 AV	54.0	-7.4	1.04 V	123	41.60	5.00
3	*5190.00	101.3 PK			1.01 V	121	62.20	39.10
4	*5190.00	91.2 AV			1.01 V	121	52.10	39.10
5	#10380.00	59.5 PK	74.0	-14.5	1.11 V	47	42.30	17.20
6	#10380.00	46.3 AV	54.0	-7.7	1.11 V	47	29.10	17.20

Remarks:

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

CHANNEL	TX Channel 46	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5230.00	92.5 PK			1.00 H	20	53.30	39.20
2	*5230.00	82.0 AV			1.00 H	20	42.80	39.20
3	5350.00	57.4 PK	74.0	-16.6	1.00 H	20	52.00	5.40
4	5350.00	44.8 AV	54.0	-9.2	1.00 H	20	39.40	5.40
5	#10460.00	58.8 PK	74.0	-15.2	1.00 H	77	41.60	17.20
6	#10460.00	45.2 AV	54.0	-8.8	1.00 H	77	28.00	17.20
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	*5230.00	101.0 PK			1.00 V	123	61.80	39.20
2	*5230.00	90.8 AV			1.00 V	123	51.60	39.20
3	5350.00	59.6 PK	74.0	-14.4	1.00 V	121	54.20	5.40
4	5350.00	46.4 AV	54.0	-7.6	1.00 V	121	41.00	5.40
5	#10460.00	59.1 PK	74.0	-14.9	1.51 V	41	41.90	17.20
6	#10460.00	46.7 AV	54.0	-7.3	1.51 V	41	29.50	17.20

Remarks:

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

CHANNEL	TX Channel 54	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	57.4 PK	74.0	-16.6	1.17 H	74	52.4	5.0
2	5150.00	44.6 AV	54.0	-9.4	1.17 H	74	39.6	5.0
3	*5270.00	92.6 PK			1.12 H	72	53.4	39.2
4	*5270.00	82.0 AV			1.12 H	72	42.8	39.2
5	#10540.00	57.8 PK	74.0	-16.2	1.00 H	71	40.3	17.5
6	#10540.00	45.2 AV	54.0	-8.8	1.00 H	71	27.7	17.5
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	5150.00	58.0 PK	74.0	-16.0	1.00 V	83	53.0	5.0
2	5150.00	46.1 AV	54.0	-7.9	1.00 V	83	41.1	5.0
3	*5270.00	101.7 PK			1.00 V	84	62.5	39.2
4	*5270.00	91.1 AV			1.00 V	84	51.9	39.2
5	#10540.00	59.2 PK	74.0	-14.8	1.12 V	46	41.7	17.5
6	#10540.00	47.0 AV	54.0	-7.0	1.12 V	46	29.5	17.5

Remarks:

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

CHANNEL	TX Channel 62	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5310.00	91.9 PK			1.01 H	45	52.6	39.3
2	*5310.00	81.1 AV			1.01 H	45	41.8	39.3
3	5350.00	57.1 PK	74.0	-16.9	1.04 H	41	51.7	5.4
4	5350.00	45.4 AV	54.0	-8.6	1.04 H	41	40.0	5.4
5	10620.00	58.5 PK	74.0	-15.5	1.00 H	45	40.8	17.7
6	10620.00	45.2 AV	54.0	-8.8	1.00 H	45	27.5	17.7
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	*5310.00	101.3 PK			1.00 V	84	62.0	39.3
2	*5310.00	91.0 AV			1.00 V	84	51.7	39.3
3	5350.00	59.2 PK	74.0	-14.8	1.00 V	87	53.8	5.4
4	5350.00	46.4 AV	54.0	-7.6	1.00 V	87	41.0	5.4
5	10620.00	59.4 PK	74.0	-14.6	1.05 V	81	41.7	17.7
6	10620.00	46.8 AV	54.0	-7.2	1.05 V	81	29.1	17.7

Remarks:

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

CHANNEL	TX Channel 102	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	56.0 PK	74.0	-18.0	1.05 H	298	50.3	5.7
2	5460.00	43.9 AV	54.0	-10.1	1.05 H	298	38.2	5.7
3	#5470.00	56.6 PK	74.0	-17.4	1.05 H	298	50.9	5.7
4	#5470.00	44.7 AV	54.0	-9.3	1.05 H	298	39.0	5.7
5	*5510.00	93.9 PK			1.00 H	322	54.2	39.7
6	*5510.00	83.4 AV			1.00 H	322	43.7	39.7
7	11020.00	59.5 PK	74.0	-14.5	1.00 H	195	41.1	18.4
8	11020.00	46.9 AV	54.0	-7.1	1.00 H	195	28.5	18.4
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	5460.00	57.4 PK	74.0	-16.6	1.19 V	57	51.7	5.7
2	5460.00	45.2 AV	54.0	-8.8	1.19 V	57	39.5	5.7
3	#5470.00	57.1 PK	74.0	-16.9	1.19 V	57	51.4	5.7
4	#5470.00	46.0 AV	54.0	-8.0	1.19 V	57	40.3	5.7
5	*5510.00	99.0 PK			1.00 V	52	59.3	39.7
6	*5510.00	88.7 AV			1.00 V	52	49.0	39.7
7	11020.00	59.7 PK	74.0	-14.3	1.00 V	160	41.3	18.4
8	11020.00	47.2 AV	54.0	-6.8	1.00 V	160	28.8	18.4

Remarks:

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

CHANNEL	TX Channel 110	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5550.00	93.8 PK			1.00 H	218	54.0	39.8
2	*5550.00	83.8 AV			1.00 H	218	44.0	39.8
3	11100.00	60.0 PK	74.0	-14.0	1.10 H	188	41.1	18.9
4	11100.00	47.3 AV	54.0	-6.7	1.10 H	188	28.4	18.9
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	*5550.00	99.6 PK			1.00 V	53	59.8	39.8
2	*5550.00	89.3 AV			1.00 V	53	49.5	39.8
3	11100.00	60.2 PK	74.0	-13.8	1.08 V	113	41.3	18.9
4	11100.00	47.6 AV	54.0	-6.4	1.08 V	113	28.7	18.9

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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 134	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5670.00	92.4 PK			1.17 H	215	52.6	39.8
2	*5670.00	83.0 AV			1.17 H	215	43.2	39.8
3	#5725.00	57.1 PK	74.0	-16.9	1.20 H	223	51.3	5.8
4	#5725.00	43.9 AV	54.0	-10.1	1.20 H	223	38.1	5.8
5	11340.00	60.1 PK	74.0	-13.9	1.00 H	168	41.0	19.1
6	11340.00	47.0 AV	54.0	-7.0	1.00 H	168	27.9	19.1
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	*5670.00	100.8 PK			1.44 V	43	61.0	39.8
2	*5670.00	90.8 AV			1.44 V	43	51.0	39.8
3	#5725.00	55.8 PK	74.0	-18.2	1.38 V	55	50.0	5.8
4	#5725.00	44.1 AV	54.0	-9.9	1.38 V	55	38.3	5.8
5	11340.00	60.3 PK	74.0	-13.7	1.00 V	90	41.2	19.1
6	11340.00	47.3 AV	54.0	-6.7	1.00 V	90	28.2	19.1

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

CHANNEL	TX Channel 151	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5607.20	56.8 PK	68.2	-11.4	1.65 H	214	53.9	2.9
2	*5755.00	94.4 PK			1.65 H	214	54.5	39.9
3	*5755.00	84.1 AV			1.65 H	214	44.2	39.9
4	#5948.80	56.8 PK	68.2	-11.4	1.65 H	214	53.6	3.2
5	11510.00	56.2 PK	74.0	-17.8	2.24 H	352	41.7	14.5
6	11510.00	43.4 AV	54.0	-10.6	2.24 H	352	28.9	14.5
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	#5612.80	57.0 PK	68.2	-11.2	1.35 V	240	54.1	2.9
2	*5755.00	100.8 PK			1.35 V	240	60.9	39.9
3	*5755.00	90.2 AV			1.35 V	240	50.3	39.9
4	#5976.00	58.4 PK	68.2	-9.8	1.35 V	240	55.1	3.3
5	11510.00	56.9 PK	74.0	-17.1	2.38 V	128	42.4	14.5
6	11510.00	43.4 AV	54.0	-10.6	2.38 V	128	28.9	14.5

Remarks:

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

CHANNEL	TX Channel 159	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5621.60	56.8 PK	68.2	-11.4	2.67 H	222	53.9	2.9
2	*5795.00	95.4 PK			2.67 H	222	55.5	39.9
3	*5795.00	84.2 AV			2.67 H	222	44.3	39.9
4	#5975.20	56.8 PK	68.2	-11.4	2.67 H	222	53.5	3.3
5	11590.00	56.1 PK	74.0	-17.9	2.67 H	54	41.7	14.4
6	11590.00	43.3 AV	54.0	-10.7	2.67 H	54	28.9	14.4
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	#5612.00	57.4 PK	68.2	-10.8	1.48 V	236	54.5	2.9
2	*5795.00	99.6 PK			1.48 V	236	59.7	39.9
3	*5795.00	89.5 AV			1.48 V	236	49.6	39.9
4	#5965.60	57.5 PK	68.2	-10.7	1.48 V	236	54.2	3.3
5	11590.00	56.2 PK	74.0	-17.8	2.85 V	97	41.8	14.4
6	11590.00	43.4 AV	54.0	-10.6	2.85 V	97	29.0	14.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. 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 (VHT80)

CHANNEL	TX Channel 42	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	57.7 PK	74.0	-16.3	1.00 H	70	52.70	5.00
2	5150.00	45.7 AV	54.0	-8.3	1.00 H	70	40.70	5.00
3	*5210.00	87.5 PK			1.00 H	73	48.30	39.20
4	*5210.00	77.0 AV			1.00 H	73	37.80	39.20
5	#10420.00	57.8 PK	74.0	-16.2	1.00 H	80	40.50	17.30
6	#10420.00	44.7 AV	54.0	-9.3	1.00 H	80	27.40	17.30
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	58.9 PK	74.0	-15.1	1.00 V	128	53.90	5.00
2	5150.00	47.3 AV	54.0	-6.7	1.00 V	128	42.30	5.00
3	*5210.00	96.7 PK			1.00 V	122	57.50	39.20
4	*5210.00	86.0 AV			1.00 V	122	46.80	39.20
5	#10420.00	59.3 PK	74.0	-14.7	1.17 V	41	42.00	17.30
6	#10420.00	45.8 AV	54.0	-8.2	1.17 V	41	28.50	17.30

Remarks:

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

CHANNEL	TX Channel 58	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5290.00	87.5 PK			1.00 H	72	48.3	39.2
2	*5290.00	76.7 AV			1.00 H	72	37.5	39.2
3	5350.00	57.8 PK	74.0	-16.2	1.01 H	75	52.4	5.4
4	5350.00	45.9 AV	54.0	-8.1	1.01 H	75	40.5	5.4
5	#10580.00	58.2 PK	74.0	-15.8	1.00 H	44	40.6	17.6
6	#10580.00	44.3 AV	54.0	-9.7	1.00 H	44	26.7	17.6
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	*5290.00	97.8 PK			1.00 V	83	58.6	39.2
2	*5290.00	86.9 AV			1.00 V	83	47.7	39.2
3	5350.00	59.5 PK	74.0	-14.5	1.01 V	89	54.1	5.4
4	5350.00	46.9 AV	54.0	-7.1	1.01 V	89	41.5	5.4
5	#10580.00	58.5 PK	74.0	-15.5	1.08 V	80	40.9	17.6
6	#10580.00	46.6 AV	54.0	-7.4	1.08 V	80	29.0	17.6

Remarks:

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

CHANNEL	TX Channel 106	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	55.0 PK	74.0	-19.0	1.12 H	246	49.3	5.7
2	5460.00	44.7 AV	54.0	-9.3	1.12 H	246	39.0	5.7
3	#5470.00	56.0 PK	74.0	-18.0	1.12 H	246	50.3	5.7
4	#5470.00	44.6 AV	54.0	-9.4	1.12 H	246	38.9	5.7
5	*5530.00	91.7 PK			1.00 H	239	52.0	39.7
6	*5530.00	81.6 AV			1.00 H	239	41.9	39.7
7	11060.00	60.5 PK	74.0	-13.5	1.00 H	88	41.9	18.6
8	11060.00	47.4 AV	54.0	-6.6	1.00 H	88	28.8	18.6
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	5460.00	56.1 PK	74.0	-17.9	1.06 V	32	50.4	5.7
2	5460.00	45.4 AV	54.0	-8.6	1.06 V	32	39.7	5.7
3	#5470.00	56.7 PK	74.0	-17.3	1.06 V	32	51.0	5.7
4	#5470.00	45.6 AV	54.0	-8.4	1.06 V	32	39.9	5.7
5	*5530.00	97.3 PK			1.00 V	49	57.6	39.7
6	*5530.00	87.1 AV			1.00 V	49	47.4	39.7
7	11060.00	60.7 PK	74.0	-13.3	1.00 V	193	42.1	18.6
8	11060.00	47.6 AV	54.0	-6.4	1.00 V	193	29.0	18.6

Remarks:

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

CHANNEL	TX Channel 155	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5632.00	56.6 PK	68.2	-11.6	1.09 H	244	53.7	2.9
2	*5775.00	91.9 PK			1.09 H	244	52.0	39.9
3	*5775.00	81.5 AV			1.09 H	244	41.6	39.9
4	#5991.20	57.1 PK	68.2	-11.1	1.09 H	244	53.8	3.3
5	11550.00	56.6 PK	74.0	-17.4	1.62 H	187	42.1	14.5
6	11550.00	44.0 AV	54.0	-10.0	1.62 H	187	29.5	14.5
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	#5616.00	57.5 PK	68.2	-10.7	1.45 V	238	54.6	2.9
2	*5775.00	97.1 PK			1.45 V	238	57.2	39.9
3	*5775.00	86.4 AV			1.45 V	238	46.5	39.9
4	#5933.60	57.9 PK	68.2	-10.3	1.45 V	238	54.7	3.2
5	11550.00	56.2 PK	74.0	-17.8	2.73 V	16	41.7	14.5
6	11550.00	43.1 AV	54.0	-10.9	2.73 V	16	28.6	14.5

Remarks:

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

Test Mode B

802.11a

CHANNEL	TX Channel 36	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	56.0 PK	74.0	-18.0	2.36 H	282	52.1	3.9
2	5150.00	43.4 AV	54.0	-10.6	2.36 H	282	39.5	3.9
3	*5180.00	102.6 PK			2.48 H	237	61.9	40.7
4	*5180.00	91.6 AV			2.48 H	237	50.9	40.7
5	#10360.00	55.9 PK	74.0	-18.1	2.41 H	143	40.4	15.5
6	#10360.00	45.4 AV	54.0	-8.6	2.41 H	143	29.9	15.5
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	5150.00	57.2 PK	74.0	-16.8	1.03 V	112	53.3	3.9
2	5150.00	46.8 AV	54.0	-7.2	1.03 V	112	42.9	3.9
3	*5180.00	104.1 PK			1.01 V	113	63.4	40.7
4	*5180.00	94.3 AV			1.01 V	113	53.6	40.7
5	#10360.00	57.9 PK	74.0	-16.1	3.42 V	217	42.4	15.5
6	#10360.00	46.4 AV	54.0	-7.6	3.42 V	217	30.9	15.5

Remarks:

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

CHANNEL	TX Channel 40	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5200.00	103.6 PK			2.89 H	232	62.8	40.8
2	*5200.00	93.6 AV			2.89 H	232	52.8	40.8
3	#10400.00	55.9 PK	74.0	-18.1	2.86 H	214	40.4	15.5
4	#10400.00	45.3 AV	54.0	-8.7	2.86 H	214	29.8	15.5
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	*5200.00	107.3 PK			2.20 V	145	66.5	40.8
2	*5200.00	97.5 AV			2.20 V	145	56.7	40.8
3	#10400.00	57.7 PK	74.0	-16.3	2.92 V	135	42.2	15.5
4	#10400.00	46.3 AV	54.0	-7.7	2.92 V	135	30.8	15.5

Remarks:

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

CHANNEL	TX Channel 48	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	105.2 PK			3.60 H	229	64.4	40.8
2	*5240.00	94.7 AV			3.60 H	229	53.9	40.8
3	5350.00	56.9 PK	74.0	-17.1	3.50 H	245	52.5	4.4
4	5350.00	44.7 AV	54.0	-9.3	3.50 H	245	40.3	4.4
5	#10480.00	55.5 PK	74.0	-18.5	2.81 H	213	40.4	15.1
6	#10480.00	44.9 AV	54.0	-9.1	2.81 H	213	29.8	15.1
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	*5240.00	107.4 PK			1.38 V	148	66.6	40.8
2	*5240.00	97.0 AV			1.38 V	148	56.2	40.8
3	5350.00	57.7 PK	74.0	-16.3	1.44 V	156	53.3	4.4
4	5350.00	45.8 AV	54.0	-8.2	1.44 V	156	41.4	4.4
5	#10480.00	57.5 PK	74.0	-16.5	3.15 V	124	42.4	15.1
6	#10480.00	45.9 AV	54.0	-8.1	3.15 V	124	30.8	15.1

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

CHANNEL	TX Channel 52	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	55.3 PK	74.0	-18.7	2.48 H	357	51.4	3.9
2	5150.00	43.0 AV	54.0	-11.0	2.48 H	357	39.1	3.9
3	*5260.00	96.8 PK			2.89 H	235	55.9	40.9
4	*5260.00	86.7 AV			2.89 H	235	45.8	40.9
5	#10520.00	56.5 PK	74.0	-17.5	2.23 H	147	41.3	15.2
6	#10520.00	45.0 AV	54.0	-9.0	2.23 H	147	29.8	15.2
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	5150.00	55.2 PK	74.0	-18.8	1.13 V	147	51.3	3.9
2	5150.00	42.9 AV	54.0	-11.1	1.13 V	147	39.0	3.9
3	*5260.00	100.4 PK			1.02 V	115	59.5	40.9
4	*5260.00	90.0 AV			1.02 V	115	49.1	40.9
5	#10520.00	58.1 PK	74.0	-15.9	2.47 V	135	42.9	15.2
6	#10520.00	46.4 AV	54.0	-7.6	2.47 V	135	31.2	15.2

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

CHANNEL	TX Channel 60	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5300.00	99.8 PK			3.61 H	309	58.8	41.0
2	*5300.00	89.6 AV			3.61 H	309	48.6	41.0
3	10600.00	56.5 PK	74.0	-17.5	2.41 H	178	40.4	16.1
4	10600.00	45.9 AV	54.0	-8.1	2.41 H	178	29.8	16.1
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	*5300.00	101.9 PK			3.61 V	286	60.9	41.0
2	*5300.00	91.5 AV			3.61 V	286	50.5	41.0
3	10600.00	58.4 PK	74.0	-15.6	1.38 V	53	42.3	16.1
4	10600.00	47.0 AV	54.0	-7.0	1.38 V	53	30.9	16.1

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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	97.3 PK			3.13 H	238	56.3	41.0
2	*5320.00	87.3 AV			3.13 H	238	46.3	41.0
3	5350.00	56.1 PK	74.0	-17.9	3.47 H	271	51.7	4.4
4	5350.00	43.5 AV	54.0	-10.5	3.47 H	271	39.1	4.4
5	10640.00	56.8 PK	74.0	-17.2	2.76 H	89	40.8	16.0
6	10640.00	45.5 AV	54.0	-8.5	2.76 H	89	29.5	16.0
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	*5320.00	101.6 PK			3.58 V	294	60.6	41.0
2	*5320.00	91.3 AV			3.58 V	294	50.3	41.0
3	5350.00	57.0 PK	74.0	-17.0	3.27 V	314	52.6	4.4
4	5350.00	43.6 AV	54.0	-10.4	3.27 V	314	39.2	4.4
5	10640.00	58.6 PK	74.0	-15.4	3.27 V	118	42.6	16.0
6	10640.00	47.2 AV	54.0	-6.8	3.27 V	118	31.2	16.0

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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	56.2 PK	74.0	-17.8	2.81 H	216	51.8	4.4
2	5460.00	43.5 AV	54.0	-10.5	2.81 H	216	39.1	4.4
3	#5470.00	55.4 PK	74.0	-18.6	3.36 H	113	50.9	4.5
4	#5470.00	43.7 AV	54.0	-10.3	3.36 H	113	39.2	4.5
5	*5500.00	101.2 PK			3.40 H	236	59.9	41.3
6	*5500.00	91.1 AV			3.40 H	236	49.8	41.3
7	11000.00	58.8 PK	74.0	-15.2	2.83 H	214	41.3	17.5
8	11000.00	47.3 AV	54.0	-6.7	2.83 H	214	29.8	17.5
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	5460.00	56.2 PK	74.0	-17.8	1.54 V	246	51.8	4.4
2	5460.00	43.7 AV	54.0	-10.3	1.54 V	246	39.3	4.4
3	#5470.00	56.0 PK	74.0	-18.0	1.90 V	299	51.5	4.5
4	#5470.00	44.2 AV	54.0	-9.8	1.90 V	299	39.7	4.5
5	*5500.00	103.5 PK			1.35 V	61	62.2	41.3
6	*5500.00	93.8 AV			1.35 V	61	52.5	41.3
7	11000.00	61.3 PK	74.0	-12.7	2.63 V	127	43.8	17.5
8	11000.00	50.2 AV	54.0	-3.8	2.63 V	127	32.7	17.5

Remarks:

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

CHANNEL	TX Channel 116	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5580.00	99.7 PK			2.75 H	238	58.2	41.5
2	*5580.00	89.5 AV			2.75 H	238	48.0	41.5
3	11160.00	57.7 PK	74.0	-16.3	3.37 H	119	41.3	16.4
4	11160.00	46.2 AV	54.0	-7.8	3.37 H	119	29.8	16.4
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	*5580.00	105.2 PK			1.27 V	62	63.7	41.5
2	*5580.00	95.0 AV			1.27 V	62	53.5	41.5
3	11160.00	59.7 PK	74.0	-14.3	2.91 V	213	43.3	16.4
4	11160.00	47.8 AV	54.0	-6.2	2.91 V	213	31.4	16.4

Remarks:

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

CHANNEL	TX Channel 140	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	100.4 PK			1.01 H	215	58.8	41.6
2	*5700.00	89.7 AV			1.01 H	215	48.1	41.6
3	#5725.00	56.5 PK	74.0	-17.5	1.36 H	237	51.7	4.8
4	#5725.00	45.5 AV	54.0	-8.5	1.36 H	237	40.7	4.8
5	11400.00	57.6 PK	74.0	-16.4	2.69 H	162	41.4	16.2
6	11400.00	46.0 AV	54.0	-8.0	2.69 H	162	29.8	16.2
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	*5700.00	105.2 PK			1.13 V	295	63.6	41.6
2	*5700.00	94.9 AV			1.13 V	295	53.3	41.6
3	#5725.00	56.6 PK	74.0	-17.4	1.14 V	239	51.8	4.8
4	#5725.00	45.0 AV	54.0	-9.0	1.14 V	239	40.2	4.8
5	11400.00	60.0 PK	74.0	-14.0	2.84 V	117	43.8	16.2
6	11400.00	48.9 AV	54.0	-5.1	2.84 V	117	32.7	16.2

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

CHANNEL	TX Channel 149	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5633.60	57.3 PK	68.2	-10.9	1.01 H	236	52.6	4.7
2	*5745.00	101.7 PK			1.01 H	236	60.2	41.5
3	*5745.00	91.7 AV			1.01 H	236	50.2	41.5
4	#5987.20	58.1 PK	68.2	-10.1	1.01 H	236	53.3	4.8
5	11490.00	56.8 PK	74.0	-17.2	1.27 H	294	40.8	16.0
6	11490.00	45.8 AV	54.0	-8.2	1.27 H	294	29.8	16.0
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	#5644.80	57.4 PK	68.2	-10.8	1.01 V	229	52.7	4.7
2	*5745.00	107.1 PK			1.01 V	229	65.6	41.5
3	*5745.00	96.7 AV			1.01 V	229	55.2	41.5
4	#5956.00	58.5 PK	68.2	-9.7	1.01 V	229	53.7	4.8
5	11490.00	59.0 PK	74.0	-15.0	2.06 V	141	43.0	16.0
6	11490.00	46.9 AV	54.0	-7.1	2.06 V	141	30.9	16.0

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

CHANNEL	TX Channel 157	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5616.80	57.5 PK	68.2	-10.7	3.20 H	234	52.7	4.8
2	*5785.00	103.6 PK			3.20 H	234	62.1	41.5
3	*5785.00	92.6 AV			3.20 H	234	51.1	41.5
4	#5991.20	57.6 PK	68.2	-10.6	3.20 H	234	52.8	4.8
5	11570.00	56.1 PK	74.0	-17.9	2.97 H	215	40.4	15.7
6	11570.00	45.6 AV	54.0	-8.4	2.97 H	215	29.9	15.7
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	#5618.40	58.0 PK	68.2	-10.2	1.05 V	320	53.2	4.8
2	*5785.00	106.0 PK			1.05 V	320	64.5	41.5
3	*5785.00	95.7 AV			1.05 V	320	54.2	41.5
4	#5947.20	57.7 PK	68.2	-10.5	1.05 V	320	52.9	4.8
5	11570.00	58.1 PK	74.0	-15.9	2.37 V	154	42.4	15.7
6	11570.00	46.5 AV	54.0	-7.5	2.37 V	154	30.8	15.7

Remarks:

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

CHANNEL	TX Channel 165	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5628.80	57.6 PK	68.2	-10.6	2.97 H	236	52.9	4.7
2	*5825.00	101.4 PK			2.97 H	236	59.8	41.6
3	*5825.00	90.8 AV			2.97 H	236	49.2	41.6
4	#5947.20	56.7 PK	68.2	-11.5	2.97 H	236	51.9	4.8
5	11650.00	55.9 PK	74.0	-18.1	2.91 H	124	40.3	15.6
6	11650.00	45.4 AV	54.0	-8.6	2.91 H	124	29.8	15.6
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	#5632.00	58.0 PK	68.2	-10.2	1.23 V	319	53.3	4.7
2	*5825.00	106.3 PK			1.23 V	319	64.7	41.6
3	*5825.00	96.2 AV			1.23 V	319	54.6	41.6
4	#5995.20	57.6 PK	68.2	-10.6	1.23 V	319	52.8	4.8
5	11650.00	58.2 PK	74.0	-15.8	3.34 V	138	42.6	15.6
6	11650.00	46.4 AV	54.0	-7.6	3.34 V	138	30.8	15.6

Remarks:

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

802.11n (HT20)

CHANNEL	TX Channel 36	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	57.3 PK	74.0	-16.7	3.67 H	185	53.4	3.9
2	5150.00	43.5 AV	54.0	-10.5	3.67 H	185	39.6	3.9
3	*5180.00	104.2 PK			4.00 H	172	63.5	40.7
4	*5180.00	93.7 AV			4.00 H	172	53.0	40.7
5	#10360.00	55.8 PK	74.0	-18.2	3.29 H	214	40.3	15.5
6	#10360.00	45.1 AV	54.0	-8.9	3.29 H	214	29.6	15.5
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	5150.00	56.0 PK	74.0	-18.0	2.22 V	145	52.1	3.9
2	5150.00	44.1 AV	54.0	-9.9	2.22 V	145	40.2	3.9
3	*5180.00	104.7 PK			1.93 V	149	64.0	40.7
4	*5180.00	94.6 AV			1.93 V	149	53.9	40.7
5	#10360.00	57.8 PK	74.0	-16.2	3.17 V	224	42.3	15.5
6	#10360.00	46.3 AV	54.0	-7.7	3.17 V	224	30.8	15.5

Remarks:

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

CHANNEL	TX Channel 40	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5200.00	104.9 PK			3.01 H	223	64.1	40.8
2	*5200.00	93.3 AV			3.01 H	223	52.5	40.8
3	#10400.00	58.3 PK	74.0	-15.7	1.34 H	188	42.8	15.5
4	#10400.00	47.2 AV	54.0	-6.8	1.34 H	188	31.7	15.5
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	*5200.00	105.6 PK			1.53 V	148	64.8	40.8
2	*5200.00	95.4 AV			1.53 V	148	54.6	40.8
3	#10400.00	62.3 PK	74.0	-11.7	1.02 V	114	46.8	15.5
4	#10400.00	50.5 AV	54.0	-3.5	1.02 V	114	35.0	15.5

Remarks:

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

CHANNEL	TX Channel 48	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	104.2 PK			3.63 H	229	63.4	40.8
2	*5240.00	93.1 AV			3.63 H	229	52.3	40.8
3	5350.00	56.2 PK	74.0	-17.8	3.75 H	266	51.8	4.4
4	5350.00	43.7 AV	54.0	-10.3	3.75 H	266	39.3	4.4
5	#10480.00	55.7 PK	74.0	-18.3	2.56 H	172	40.6	15.1
6	#10480.00	44.9 AV	54.0	-9.1	2.56 H	172	29.8	15.1
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	*5240.00	106.2 PK			1.36 V	147	65.4	40.8
2	*5240.00	96.1 AV			1.36 V	147	55.3	40.8
3	5350.00	56.1 PK	74.0	-17.9	1.54 V	156	51.7	4.4
4	5350.00	43.9 AV	54.0	-10.1	1.54 V	156	39.5	4.4
5	#10480.00	57.2 PK	74.0	-16.8	2.87 V	174	42.1	15.1
6	#10480.00	45.4 AV	54.0	-8.6	2.87 V	174	30.3	15.1

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

CHANNEL	TX Channel 52	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	56.3 PK	74.0	-17.7	3.05 H	264	52.4	3.9
2	5150.00	43.0 AV	54.0	-11.0	3.05 H	264	39.1	3.9
3	*5260.00	99.1 PK			3.34 H	300	58.2	40.9
4	*5260.00	88.9 AV			3.34 H	300	48.0	40.9
5	#10520.00	56.5 PK	74.0	-17.5	2.73 H	96	41.3	15.2
6	#10520.00	45.0 AV	54.0	-9.0	2.73 H	96	29.8	15.2
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	5150.00	56.3 PK	74.0	-17.7	1.44 V	74	52.4	3.9
2	5150.00	43.4 AV	54.0	-10.6	1.44 V	74	39.5	3.9
3	*5260.00	102.7 PK			1.15 V	54	61.8	40.9
4	*5260.00	91.2 AV			1.15 V	54	50.3	40.9
5	#10520.00	58.7 PK	74.0	-15.3	2.47 V	124	43.5	15.2
6	#10520.00	47.0 AV	54.0	-7.0	2.47 V	124	31.8	15.2

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

CHANNEL	TX Channel 60	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5300.00	99.6 PK			3.74 H	147	58.6	41.0
2	*5300.00	89.0 AV			3.74 H	147	48.0	41.0
3	10600.00	57.4 PK	74.0	-16.6	3.41 H	86	41.3	16.1
4	10600.00	46.0 AV	54.0	-8.0	3.41 H	86	29.9	16.1
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	*5300.00	102.8 PK			2.53 V	59	61.8	41.0
2	*5300.00	92.5 AV			2.53 V	59	51.5	41.0
3	10600.00	59.7 PK	74.0	-14.3	2.76 V	97	43.6	16.1
4	10600.00	48.0 AV	54.0	-6.0	2.76 V	97	31.9	16.1

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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	99.6 PK			3.06 H	317	58.6	41.0
2	*5320.00	88.9 AV			3.06 H	317	47.9	41.0
3	5350.00	55.0 PK	74.0	-19.0	3.30 H	324	50.6	4.4
4	5350.00	43.4 AV	54.0	-10.6	3.30 H	324	39.0	4.4
5	10640.00	57.3 PK	74.0	-16.7	3.17 H	94	41.3	16.0
6	10640.00	45.9 AV	54.0	-8.1	3.17 H	94	29.9	16.0
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	*5320.00	102.5 PK			2.19 V	57	61.5	41.0
2	*5320.00	92.2 AV			2.19 V	57	51.2	41.0
3	5350.00	56.2 PK	74.0	-17.8	1.62 V	321	51.8	4.4
4	5350.00	43.7 AV	54.0	-10.3	1.62 V	321	39.3	4.4
5	10640.00	59.3 PK	74.0	-14.7	2.46 V	121	43.3	16.0
6	10640.00	47.5 AV	54.0	-6.5	2.46 V	121	31.5	16.0

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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	55.8 PK	74.0	-18.2	3.22 H	284	51.4	4.4
2	5460.00	43.4 AV	54.0	-10.6	3.22 H	284	39.0	4.4
3	#5470.00	56.6 PK	74.0	-17.4	2.65 H	183	52.1	4.5
4	#5470.00	43.5 AV	54.0	-10.5	2.65 H	183	39.0	4.5
5	*5500.00	102.2 PK			3.36 H	231	60.9	41.3
6	*5500.00	91.8 AV			3.36 H	231	50.5	41.3
7	11000.00	59.2 PK	74.0	-14.8	2.16 H	113	41.7	17.5
8	11000.00	47.3 AV	54.0	-6.7	2.16 H	113	29.8	17.5
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	5460.00	56.3 PK	74.0	-17.7	1.60 V	141	51.9	4.4
2	5460.00	43.5 AV	54.0	-10.5	1.60 V	141	39.1	4.4
3	#5470.00	56.9 PK	74.0	-17.1	1.78 V	155	52.4	4.5
4	#5470.00	43.7 AV	54.0	-10.3	1.78 V	155	39.2	4.5
5	*5500.00	103.0 PK			1.08 V	326	61.7	41.3
6	*5500.00	92.8 AV			1.08 V	326	51.5	41.3
7	11000.00	61.2 PK	74.0	-12.8	2.64 V	97	43.7	17.5
8	11000.00	49.3 AV	54.0	-4.7	2.64 V	97	31.8	17.5

Remarks:

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

CHANNEL	TX Channel 116	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5580.00	98.3 PK			2.77 H	243	56.8	41.5
2	*5580.00	88.1 AV			2.77 H	243	46.6	41.5
3	11160.00	57.6 PK	74.0	-16.4	3.82 H	248	41.2	16.4
4	11160.00	46.3 AV	54.0	-7.7	3.82 H	248	29.9	16.4
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	*5580.00	104.4 PK			1.12 V	63	62.9	41.5
2	*5580.00	94.2 AV			1.12 V	63	52.7	41.5
3	11160.00	59.8 PK	74.0	-14.2	3.23 V	169	43.4	16.4
4	11160.00	48.0 AV	54.0	-6.0	3.23 V	169	31.6	16.4

Remarks:

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

CHANNEL	TX Channel 140	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	103.7 PK			3.04 H	235	62.1	41.6
2	*5700.00	93.1 AV			3.04 H	235	51.5	41.6
3	#5725.00	56.9 PK	74.0	-17.1	2.31 H	283	52.1	4.8
4	#5725.00	45.8 AV	54.0	-8.2	2.31 H	283	41.0	4.8
5	11400.00	57.4 PK	74.0	-16.6	2.89 H	228	41.2	16.2
6	11400.00	46.0 AV	54.0	-8.0	2.89 H	228	29.8	16.2
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	*5700.00	105.4 PK			2.26 V	295	63.8	41.6
2	*5700.00	95.1 AV			2.26 V	295	53.5	41.6
3	#5725.00	57.1 PK	74.0	-16.9	2.47 V	315	52.3	4.8
4	#5725.00	45.3 AV	54.0	-8.7	2.47 V	315	40.5	4.8
5	11400.00	59.4 PK	74.0	-14.6	3.42 V	165	43.2	16.2
6	11400.00	47.8 AV	54.0	-6.2	3.42 V	165	31.6	16.2

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

CHANNEL	TX Channel 149	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5610.40	57.8 PK	68.2	-10.4	1.01 H	236	53.0	4.8
2	*5745.00	101.2 PK			1.01 H	236	59.7	41.5
3	*5745.00	90.8 AV			1.01 H	236	49.3	41.5
4	#5994.40	57.7 PK	68.2	-10.5	1.01 H	236	52.9	4.8
5	11490.00	56.3 PK	74.0	-17.7	3.14 H	143	40.3	16.0
6	11490.00	45.7 AV	54.0	-8.3	3.14 H	143	29.7	16.0
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	#5620.00	57.4 PK	68.2	-10.8	1.05 V	230	52.6	4.8
2	*5745.00	106.6 PK			1.05 V	230	65.1	41.5
3	*5745.00	96.2 AV			1.05 V	230	54.7	41.5
4	#5965.60	57.4 PK	68.2	-10.8	1.05 V	230	52.6	4.8
5	11490.00	58.3 PK	74.0	-15.7	3.42 V	143	42.3	16.0
6	11490.00	46.9 AV	54.0	-7.1	3.42 V	143	30.9	16.0

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

CHANNEL	TX Channel 157	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5648.80	56.5 PK	68.2	-11.7	3.33 H	235	51.8	4.7
2	*5785.00	101.8 PK			3.33 H	235	60.3	41.5
3	*5785.00	91.5 AV			3.33 H	235	50.0	41.5
4	#5950.40	57.6 PK	68.2	-10.6	3.33 H	235	52.8	4.8
5	11570.00	56.2 PK	74.0	-17.8	3.66 H	148	40.5	15.7
6	11570.00	45.2 AV	54.0	-8.8	3.66 H	148	29.5	15.7
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	#5614.40	57.8 PK	68.2	-10.4	1.03 V	321	53.0	4.8
2	*5785.00	105.7 PK			1.03 V	321	64.2	41.5
3	*5785.00	95.6 AV			1.03 V	321	54.1	41.5
4	#5987.20	57.5 PK	68.2	-10.7	1.03 V	321	52.7	4.8
5	11570.00	58.3 PK	74.0	-15.7	2.74 V	219	42.6	15.7
6	11570.00	46.5 AV	54.0	-7.5	2.74 V	219	30.8	15.7

Remarks:

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

CHANNEL	TX Channel 165	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5639.20	57.9 PK	68.2	-10.3	2.99 H	236	53.2	4.7
2	*5825.00	101.3 PK			2.99 H	236	59.7	41.6
3	*5825.00	91.2 AV			2.99 H	236	49.6	41.6
4	#5955.20	57.6 PK	68.2	-10.6	2.99 H	236	52.8	4.8
5	11650.00	56.2 PK	74.0	-17.8	2.79 H	130	40.6	15.6
6	11650.00	45.3 AV	54.0	-8.7	2.79 H	130	29.7	15.6
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	#5637.60	58.1 PK	68.2	-10.1	1.17 V	321	53.4	4.7
2	*5825.00	105.4 PK			1.17 V	321	63.8	41.6
3	*5825.00	95.3 AV			1.17 V	321	53.7	41.6
4	#5964.00	56.5 PK	68.2	-11.7	1.17 V	321	51.7	4.8
5	11650.00	58.2 PK	74.0	-15.8	3.23 V	232	42.6	15.6
6	11650.00	46.4 AV	54.0	-7.6	3.23 V	232	30.8	15.6

Remarks:

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

802.11n (HT40)

CHANNEL	TX Channel 38	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	57.0 PK	74.0	-17.0	2.34 H	290	53.1	3.9
2	5150.00	45.6 AV	54.0	-8.4	2.34 H	290	41.7	3.9
3	*5190.00	97.7 PK			3.98 H	242	56.9	40.8
4	*5190.00	87.2 AV			3.98 H	242	46.4	40.8
5	#10380.00	56.2 PK	74.0	-17.8	3.19 H	118	40.6	15.6
6	#10380.00	45.4 AV	54.0	-8.6	3.19 H	118	29.8	15.6
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	59.2 PK	74.0	-14.8	1.41 V	147	55.3	3.9
2	5150.00	46.6 AV	54.0	-7.4	1.41 V	147	42.7	3.9
3	*5190.00	102.2 PK			1.53 V	148	61.4	40.8
4	*5190.00	92.2 AV			1.53 V	148	51.4	40.8
5	#10380.00	58.5 PK	74.0	-15.5	2.77 V	145	42.9	15.6
6	#10380.00	46.2 AV	54.0	-7.8	2.77 V	145	30.6	15.6

Remarks:

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

CHANNEL	TX Channel 46	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5230.00	101.7 PK			3.63 H	227	60.9	40.8
2	*5230.00	90.6 AV			3.63 H	227	49.8	40.8
3	5350.00	56.0 PK	74.0	-18.0	3.40 H	250	51.6	4.4
4	5350.00	43.8 AV	54.0	-10.2	3.40 H	250	39.4	4.4
5	#10460.00	55.9 PK	74.0	-18.1	3.82 H	215	40.7	15.2
6	#10460.00	45.0 AV	54.0	-9.0	3.82 H	215	29.8	15.2
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	*5230.00	102.7 PK			1.01 V	114	61.9	40.8
2	*5230.00	92.7 AV			1.01 V	114	51.9	40.8
3	5350.00	57.0 PK	74.0	-17.0	1.07 V	136	52.6	4.4
4	5350.00	43.7 AV	54.0	-10.3	1.07 V	136	39.3	4.4
5	#10460.00	57.6 PK	74.0	-16.4	2.55 V	149	42.4	15.2
6	#10460.00	46.1 AV	54.0	-7.9	2.55 V	149	30.9	15.2

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

CHANNEL	TX Channel 54	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	55.4 PK	74.0	-18.6	3.61 H	250	51.5	3.9
2	5150.00	43.1 AV	54.0	-10.9	3.61 H	250	39.2	3.9
3	*5270.00	102.3 PK			3.33 H	228	61.3	41.0
4	*5270.00	90.8 AV			3.33 H	228	49.8	41.0
5	#10540.00	56.7 PK	74.0	-17.3	2.73 H	86	41.3	15.4
6	#10540.00	45.1 AV	54.0	-8.9	2.73 H	86	29.7	15.4
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	56.7 PK	74.0	-17.3	1.42 V	13	52.8	3.9
2	5150.00	43.2 AV	54.0	-10.8	1.42 V	13	39.3	3.9
3	*5270.00	101.9 PK			2.50 V	57	60.9	41.0
4	*5270.00	91.8 AV			2.50 V	57	50.8	41.0
5	#10540.00	59.0 PK	74.0	-15.0	2.73 V	127	43.6	15.4
6	#10540.00	46.7 AV	54.0	-7.3	2.73 V	127	31.3	15.4

Remarks:

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

CHANNEL	TX Channel 62	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5310.00	98.1 PK			3.08 H	319	57.1	41.0
2	*5310.00	87.9 AV			3.08 H	319	46.9	41.0
3	5350.00	56.1 PK	74.0	-17.9	3.48 H	302	51.7	4.4
4	5350.00	44.1 AV	54.0	-9.9	3.48 H	302	39.7	4.4
5	10620.00	57.7 PK	74.0	-16.3	2.66 H	114	41.7	16.0
6	10620.00	45.7 AV	54.0	-8.3	2.66 H	114	29.7	16.0
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	*5310.00	101.1 PK			3.11 V	59	60.1	41.0
2	*5310.00	90.9 AV			3.11 V	59	49.9	41.0
3	5350.00	56.8 PK	74.0	-17.2	3.46 V	208	52.4	4.4
4	5350.00	44.4 AV	54.0	-9.6	3.46 V	208	40.0	4.4
5	10620.00	59.2 PK	74.0	-14.8	2.74 V	121	43.2	16.0
6	10620.00	47.3 AV	54.0	-6.7	2.74 V	121	31.3	16.0

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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 102	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	55.7 PK	74.0	-18.3	2.52 H	321	51.3	4.4
2	5460.00	43.9 AV	54.0	-10.1	2.52 H	321	39.5	4.4
3	#5470.00	59.8 PK	74.0	-14.2	3.65 H	225	55.3	4.5
4	#5470.00	45.6 AV	54.0	-8.4	3.65 H	225	41.1	4.5
5	*5510.00	97.8 PK			3.39 H	236	56.5	41.3
6	*5510.00	86.1 AV			3.39 H	236	44.8	41.3
7	11020.00	58.5 PK	74.0	-15.5	3.18 H	211	41.3	17.2
8	11020.00	46.8 AV	54.0	-7.2	3.18 H	211	29.6	17.2
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	5460.00	56.3 PK	74.0	-17.7	1.36 V	138	51.9	4.4
2	5460.00	44.2 AV	54.0	-9.8	1.36 V	138	39.8	4.4
3	#5470.00	58.6 PK	74.0	-15.4	1.37 V	244	54.1	4.5
4	#5470.00	46.9 AV	54.0	-7.1	1.37 V	244	42.4	4.5
5	*5510.00	99.7 PK			1.31 V	60	58.4	41.3
6	*5510.00	89.6 AV			1.31 V	60	48.3	41.3
7	11020.00	60.5 PK	74.0	-13.5	2.68 V	114	43.3	17.2
8	11020.00	48.5 AV	54.0	-5.5	2.68 V	114	31.3	17.2

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

CHANNEL	TX Channel 110	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5550.00	99.3 PK			3.77 H	321	57.8	41.5
2	*5550.00	88.7 AV			3.77 H	321	47.2	41.5
3	11100.00	57.6 PK	74.0	-16.4	2.28 H	277	41.2	16.4
4	11100.00	46.3 AV	54.0	-7.7	2.28 H	277	29.9	16.4
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	*5550.00	100.2 PK			1.06 V	63	58.7	41.5
2	*5550.00	90.2 AV			1.06 V	63	48.7	41.5
3	11100.00	59.3 PK	74.0	-14.7	3.37 V	148	42.9	16.4
4	11100.00	48.1 AV	54.0	-5.9	3.37 V	148	31.7	16.4

Remarks:

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

CHANNEL	TX Channel 134	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5670.00	96.5 PK			1.01 H	215	55.0	41.5
2	*5670.00	86.1 AV			1.01 H	215	44.6	41.5
3	#5725.00	56.2 PK	74.0	-17.8	1.13 H	230	51.4	4.8
4	#5725.00	45.9 AV	54.0	-8.1	1.13 H	230	41.1	4.8
5	11340.00	58.2 PK	74.0	-15.8	2.44 H	294	41.6	16.6
6	11340.00	46.5 AV	54.0	-7.5	2.44 H	294	29.9	16.6
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	*5670.00	101.4 PK			1.10 V	59	59.9	41.5
2	*5670.00	91.1 AV			1.10 V	59	49.6	41.5
3	#5725.00	56.5 PK	74.0	-17.5	1.41 V	74	51.7	4.8
4	#5725.00	44.3 AV	54.0	-9.7	1.41 V	74	39.5	4.8
5	11340.00	59.3 PK	74.0	-14.7	3.38 V	127	42.7	16.6
6	11340.00	48.1 AV	54.0	-5.9	3.38 V	127	31.5	16.6

Remarks:

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

CHANNEL	TX Channel 151	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5616.80	57.0 PK	68.2	-11.2	1.01 H	236	52.2	4.8
2	*5755.00	98.3 PK			1.01 H	236	56.8	41.5
3	*5755.00	87.7 AV			1.01 H	236	46.2	41.5
4	#5998.40	57.1 PK	68.2	-11.1	1.01 H	236	52.3	4.8
5	11510.00	56.1 PK	74.0	-17.9	2.49 H	76	40.2	15.9
6	11510.00	45.8 AV	54.0	-8.2	2.49 H	76	29.9	15.9
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	#5648.00	57.8 PK	68.2	-10.4	1.24 V	244	53.1	4.7
2	*5755.00	102.7 PK			1.24 V	244	61.2	41.5
3	*5755.00	92.7 AV			1.24 V	244	51.2	41.5
4	#5967.20	57.8 PK	68.2	-10.4	1.24 V	244	53.0	4.8
5	11510.00	58.0 PK	74.0	-16.0	3.16 V	117	42.1	15.9
6	11510.00	46.5 AV	54.0	-7.5	3.16 V	117	30.6	15.9

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

CHANNEL	TX Channel 159	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5638.40	57.4 PK	68.2	-10.8	3.86 H	180	52.7	4.7
2	*5795.00	100.5 PK			3.86 H	180	59.0	41.5
3	*5795.00	90.2 AV			3.86 H	180	48.7	41.5
4	#6000.00	57.1 PK	68.2	-11.1	3.86 H	180	52.3	4.8
5	11590.00	56.2 PK	74.0	-17.8	2.38 H	178	40.7	15.5
6	11590.00	45.1 AV	54.0	-8.9	2.38 H	178	29.6	15.5
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	#5607.20	57.9 PK	68.2	-10.3	1.27 V	320	53.1	4.8
2	*5795.00	102.4 PK			1.27 V	320	60.9	41.5
3	*5795.00	92.2 AV			1.27 V	320	50.7	41.5
4	#5998.40	57.8 PK	68.2	-10.4	1.27 V	320	53.0	4.8
5	11590.00	57.8 PK	74.0	-16.2	1.76 V	113	42.3	15.5
6	11590.00	46.1 AV	54.0	-7.9	1.76 V	113	30.6	15.5

Remarks:

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

802.11ac (VHT80)

CHANNEL	TX Channel 42	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	58.1 PK	74.0	-15.9	3.13 H	229	54.2	3.9
2	5150.00	45.3 AV	54.0	-8.7	3.13 H	229	41.4	3.9
3	*5210.00	98.1 PK			2.64 H	227	57.3	40.8
4	*5210.00	86.6 AV			2.64 H	227	45.8	40.8
5	#10420.00	55.9 PK	74.0	-18.1	2.94 H	210	40.6	15.3
6	#10420.00	45.0 AV	54.0	-9.0	2.94 H	210	29.7	15.3
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	57.9 PK	74.0	-16.1	1.69 V	153	54.0	3.9
2	5150.00	46.6 AV	54.0	-7.4	1.69 V	153	42.7	3.9
3	*5210.00	99.2 PK			1.56 V	149	58.4	40.8
4	*5210.00	89.1 AV			1.56 V	149	48.3	40.8
5	#10420.00	57.8 PK	74.0	-16.2	2.67 V	158	42.5	15.3
6	#10420.00	46.1 AV	54.0	-7.9	2.67 V	158	30.8	15.3

Remarks:

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

CHANNEL	TX Channel 58	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5290.00	95.6 PK			3.94 H	316	54.6	41.0
2	*5290.00	85.1 AV			3.94 H	316	44.1	41.0
3	5350.00	55.6 PK	74.0	-18.4	3.67 H	10	51.2	4.4
4	5350.00	43.6 AV	54.0	-10.4	3.67 H	10	39.2	4.4
5	#10580.00	57.0 PK	74.0	-17.0	3.16 H	93	41.1	15.9
6	#10580.00	45.6 AV	54.0	-8.4	3.16 H	93	29.7	15.9
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	*5290.00	98.3 PK			2.81 V	59	57.3	41.0
2	*5290.00	87.9 AV			2.81 V	59	46.9	41.0
3	5350.00	57.2 PK	74.0	-16.8	2.30 V	207	52.8	4.4
4	5350.00	44.1 AV	54.0	-9.9	2.30 V	207	39.7	4.4
5	#10580.00	59.5 PK	74.0	-14.5	2.74 V	124	43.6	15.9
6	#10580.00	48.3 AV	54.0	-5.7	2.74 V	124	32.4	15.9

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

CHANNEL	TX Channel 106	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	58.4 PK	74.0	-15.6	3.12 H	329	54.0	4.4
2	5460.00	45.9 AV	54.0	-8.1	3.12 H	329	41.5	4.4
3	#5470.00	59.2 PK	74.0	-14.8	3.02 H	327	54.7	4.5
4	#5470.00	46.5 AV	54.0	-7.5	3.02 H	327	42.0	4.5
5	*5530.00	95.0 PK			3.33 H	235	53.7	41.3
6	*5530.00	84.2 AV			3.33 H	235	42.9	41.3
7	#5725.00	57.0 PK	74.0	-17.0	2.84 H	280	52.2	4.8
8	#5725.00	45.6 AV	54.0	-8.4	2.84 H	280	40.8	4.8
9	11060.00	57.8 PK	74.0	-16.2	3.11 H	148	40.9	16.9
10	11060.00	46.7 AV	54.0	-7.3	3.11 H	148	29.8	16.9
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	5460.00	58.9 PK	74.0	-15.1	1.27 V	242	54.5	4.4
2	5460.00	47.3 AV	54.0	-6.7	1.27 V	242	42.9	4.4
3	#5470.00	61.2 PK	74.0	-12.8	1.19 V	246	56.7	4.5
4	#5470.00	48.1 AV	54.0	-5.9	1.19 V	246	43.6	4.5
5	*5530.00	97.2 PK			1.01 V	64	55.9	41.3
6	*5530.00	86.9 AV			1.01 V	64	45.6	41.3
7	#5725.00	56.4 PK	74.0	-17.6	1.15 V	240	51.6	4.8
8	#5725.00	45.6 AV	54.0	-8.4	1.15 V	240	40.8	4.8
9	11060.00	60.2 PK	74.0	-13.8	3.15 V	233	43.3	16.9
10	11060.00	48.2 AV	54.0	-5.8	3.15 V	233	31.3	16.9

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

CHANNEL	TX Channel 155	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5605.60	57.0 PK	68.2	-11.2	3.36 H	226	52.2	4.8
2	*5775.00	97.5 PK			3.36 H	226	56.0	41.5
3	*5775.00	86.6 AV			3.36 H	226	45.1	41.5
4	#5986.40	57.3 PK	68.2	-10.9	3.36 H	226	52.5	4.8
5	11550.00	56.1 PK	74.0	-17.9	3.22 H	216	40.3	15.8
6	11550.00	45.7 AV	54.0	-8.3	3.22 H	216	29.9	15.8
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	#5624.00	57.4 PK	68.2	-10.8	1.06 V	321	52.6	4.8
2	*5775.00	98.6 PK			1.06 V	321	57.1	41.5
3	*5775.00	88.4 AV			1.06 V	321	46.9	41.5
4	#5978.40	57.3 PK	68.2	-10.9	1.06 V	321	52.5	4.8
5	11550.00	58.5 PK	74.0	-15.5	2.91 V	165	42.7	15.8
6	11550.00	46.5 AV	54.0	-7.5	2.91 V	165	30.7	15.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. 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 worst-case data: 802.11a

CHANNEL	TX Channel 36	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 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	38.4 QP	43.5	-5.1	1.25 H	11	54.70	-16.30
2	239.46	38.2 QP	46.0	-7.8	1.00 H	148	53.30	-15.10
3	367.53	41.9 QP	46.0	-4.1	1.50 H	179	53.50	-11.60
4	617.84	37.8 QP	46.0	-8.2	1.00 H	333	44.40	-6.60
5	794.42	40.0 QP	46.0	-6.0	1.25 H	80	43.10	-3.10
6	873.97	37.1 QP	46.0	-8.9	1.50 H	277	39.20	-2.10
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	165.73	39.1 QP	43.5	-4.4	1.25 V	186	53.10	-14.00
2	367.53	41.1 QP	46.0	-4.9	1.00 V	258	52.70	-11.60
3	431.56	39.5 QP	46.0	-6.5	1.50 V	181	49.80	-10.30
4	501.42	40.1 QP	46.0	-5.9	1.00 V	206	49.40	-9.30
5	796.36	41.2 QP	46.0	-4.8	1.25 V	135	44.20	-3.00
6	872.03	36.1 QP	46.0	-9.9	1.00 V	331	38.20	-2.10

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz.
4. Margin value = Emission Level – Limit value
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz.

CHANNEL	TX Channel 36	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 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	216.24	39.1 QP	46.0	-6.9	1.00 H	10	54.5	-15.4
2	262.80	36.4 QP	46.0	-9.6	1.00 H	260	49.0	-12.6
3	480.08	38.1 QP	46.0	-7.9	1.49 H	260	45.0	-6.9
4	596.48	40.2 QP	46.0	-5.8	1.00 H	293	44.1	-3.9
5	769.14	44.6 QP	46.0	-1.4	1.00 H	313	44.5	0.1
6	864.20	42.7 QP	46.0	-3.3	1.49 H	313	40.7	2.0
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	216.24	33.6 QP	46.0	-12.4	2.00 V	312	49.0	-15.4
2	379.20	33.0 QP	46.0	-13.0	1.01 V	213	42.3	-9.3
3	596.48	38.1 QP	46.0	-7.9	1.51 V	333	42.0	-3.9
4	743.92	39.5 QP	46.0	-6.5	1.51 V	287	40.0	-0.5
5	864.20	42.1 QP	46.0	-3.9	1.01 V	312	40.1	2.0
6	961.20	39.7 QP	54.0	-14.3	2.00 V	207	35.4	4.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz.
4. Margin value = Emission Level – Limit value
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz.

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

Test Date: Nov. 26, 2015 ~ Aug. 26, 2016

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver ROHDE & SCHWARZ	ESCI	100613	Nov. 16, 2015	Nov. 15, 2016
RF signal cable (with 10dB PAD) Woken	5D-FB	Cable-cond1-01	Dec. 26, 2014	Dec. 25, 2015
			Dec. 26, 2015	Dec. 25, 2016
LISN ROHDE & SCHWARZ (EUT)	ESH3-Z5	835239/001	Feb. 26, 2015	Feb. 25, 2016
			Feb. 26, 2016	Feb. 25, 2017
LISN ROHDE & SCHWARZ (Peripheral)	ESH3-Z5	100220	Nov. 13, 2015	Nov. 12, 2016
Software ADT	BV ADT_Conf_ 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

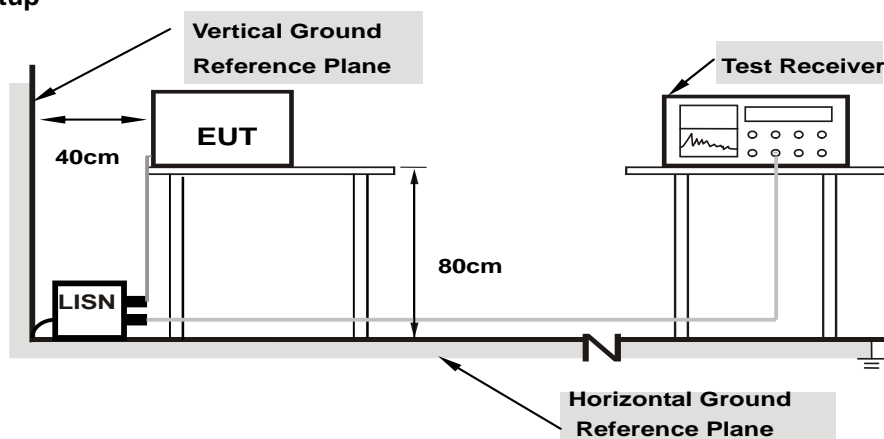
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance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

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

4.2.4 Deviation from Test Standard

No deviation.

4.2.5 Test Setup



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

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

4.2.6 EUT Operating Conditions

Same as 4.1.6.

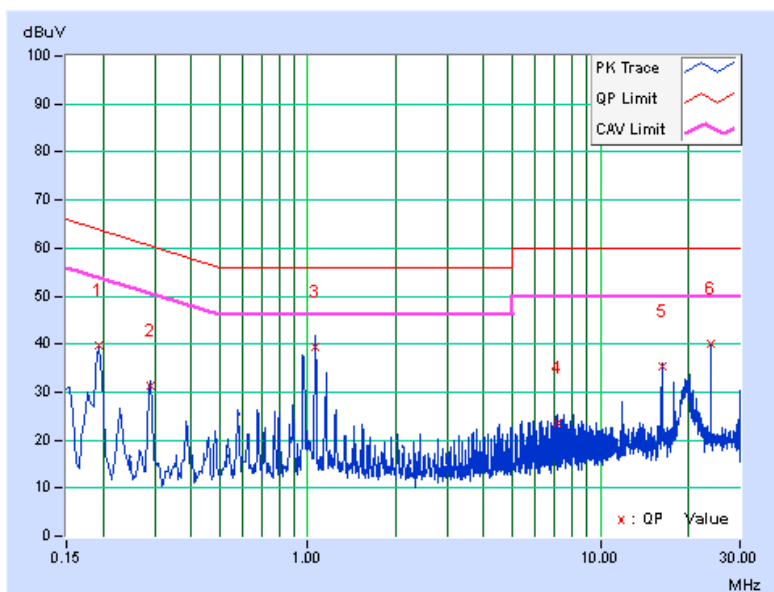
4.2.7 Test Results

Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.19305	9.84	29.77	28.96	39.61	38.80	63.90	53.90	-24.30	-15.11
2	0.29076	9.86	21.54	21.22	31.40	31.08	60.50	50.50	-29.10	-19.42
3	1.06103	9.93	29.43	26.45	39.36	36.38	56.00	46.00	-16.64	-9.62
4	7.13717	10.33	13.24	12.10	23.57	22.43	60.00	50.00	-36.43	-27.57
5	16.20055	10.87	24.61	21.02	35.48	31.89	60.00	50.00	-24.52	-18.11
6	23.85633	11.24	28.66	28.44	39.90	39.68	60.00	50.00	-20.10	-10.32

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.

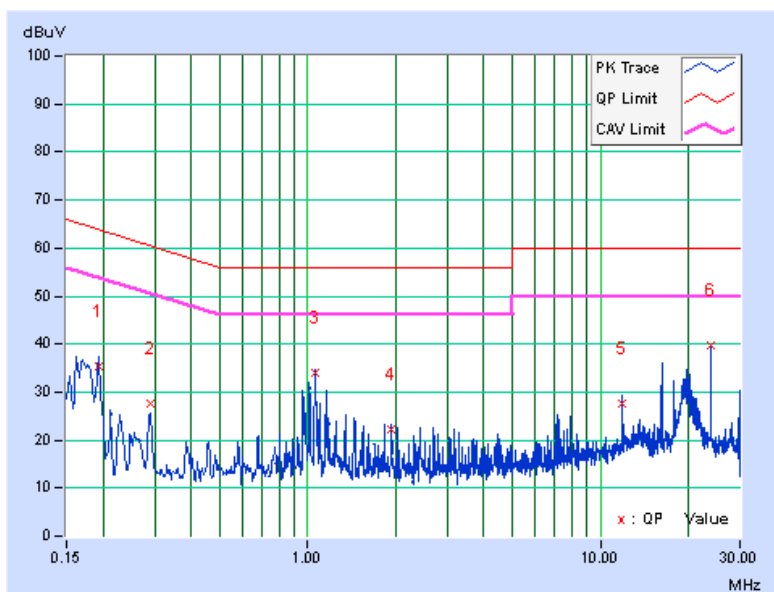


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.19305	9.83	25.51	23.01	35.34	32.84	63.90	53.90	-28.57	-21.07
2	0.28967	9.85	17.87	15.85	27.72	25.70	60.53	50.53	-32.81	-24.83
3	1.06103	9.93	23.93	21.37	33.86	31.30	56.00	46.00	-22.14	-14.70
4	1.92905	9.99	12.26	10.83	22.25	20.82	56.00	46.00	-33.75	-25.18
5	11.92718	10.57	17.08	16.91	27.65	27.48	60.00	50.00	-32.35	-22.52
6	23.85633	11.01	28.79	28.71	39.80	39.72	60.00	50.00	-20.20	-10.28

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.



4.3 Transmit Power Measurement

4.3.1 Limits of Transmit Power Measurement

Operation Band	EUT Category		Limit
U-NII-1		Outdoor Access Point	1 Watt (30 dBm) (Max. e.i.r.p \leq 125mW(21 dBm) at any elevation angle above 30 degrees as measured from the horizon)
		Fixed point-to-point Access Point	1 Watt (30 dBm)
	√	Indoor Access Point	1 Watt (30 dBm)
		Mobile and Portable client device	250mW (24 dBm)
U-NII-2A	√		250mW (24 dBm) or 11 dBm+10 log B*
U-NII-2C	√		250mW (24 dBm) or 11 dBm+10 log B*
U-NII-3	√		1 Watt (30 dBm)

*B is the 26 dB emission bandwidth in megahertz

Per KDB 662911 Method of conducted output power measurement on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$;

Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{ANT} ;

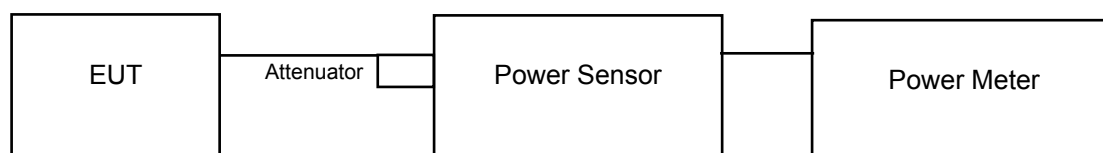
Array Gain = $5 \log(N_{ANT}/N_{SS})$ dB or 3 dB, whichever is less for 20-MHz channel widths with $N_{ANT} \geq 5$.

For power measurements on all other devices: Array Gain = $10 \log(N_{ANT}/N_{SS})$ dB.

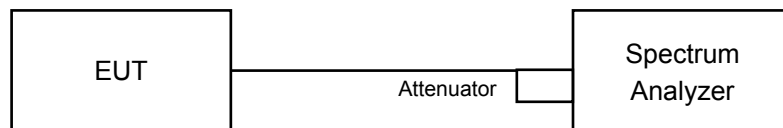
4.3.2 Test Setup

For Power Output

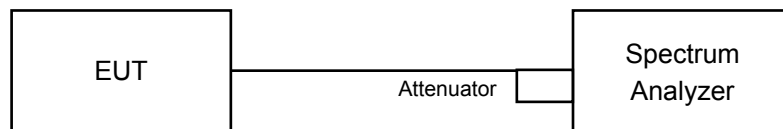
For 802.11a, 802.11n (HT20), 802.11n (HT40)



For 802.11ac (VHT80)



For 26dB Bandwidth



4.3.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.3.4 Test Procedure

For Average Power Measurement

For 802.11a, 802.11n (HT20), 802.11n (HT40)

Method PM is used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst and set the detector to average. Duty factor is not added to measured value.

For 802.11ac (VHT80)

- a. Set span to encompass the entire 26 dB EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal.
- b. Set sweep trigger to "free run".
- c. Set RBW = 1 MHz.
- d. Set VBW \geq 3 MHz
- e. Number of points in sweep \geq 2 Span / RBW.
- f. Sweep time \leq (number of points in sweep) * T
- g. Using emission bandwidth to determine the frequency span for integration the channel bandwidth.
- h. Detector = RMS.
- i. Trace mode = max hold.
- j. Allow max hold to run for at least 60 seconds, or longer as needed to allow the trace to stabilize.
- k. Compute power by integrating the spectrum across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal using the instrument's band power measurement function with band limits set equal to the EBW (or occupied bandwidth) band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at 1 MHz intervals extending across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the spectrum.

For 26dB Bandwidth

- a. Set RBW = approximately 1% of the emission bandwidth.
- b. Set the VBW > RBW.
- c. Detector = Peak.
- d. Trace mode = max hold.
- e. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

4.3.5 Deviation from Test Standard

No deviation.

4.3.6 EUT Operating Conditions

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

4.3.7 Test Result

Power Output:

802.11a

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
36	5180	9.52	9.11	17.101	12.33	30.00	Pass
40	5200	9.34	9.13	16.775	12.25	30.00	Pass
48	5240	9.67	9.15	17.490	12.43	30.00	Pass
52	5260	9.29	9.01	16.454	12.16	24.00	Pass
60	5300	9.21	9.32	16.888	12.28	24.00	Pass
64	5320	9.04	9.46	16.848	12.27	24.00	Pass
100	5500	9.02	9.50	16.893	12.28	24.00	Pass
116	5580	9.06	9.62	17.216	12.36	24.00	Pass
140	5700	9.01	9.22	16.318	12.13	24.00	Pass
149	5745	9.41	9.01	16.692	12.23	30.00	Pass
157	5785	9.59	9.05	17.134	12.34	30.00	Pass
165	5825	9.58	9.09	17.188	12.35	30.00	Pass

Note:

Chain 0

1. $11\text{dBm} + 10\log(21.78) = 24.38 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(21.78) = 24.38 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(21.79) = 24.38 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(21.77) = 24.38 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(21.84) = 24.39 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(21.84) = 24.39 > 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log(21.85) = 24.39 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(22.00) = 24.42 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(21.87) = 24.40 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(21.92) = 24.41 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(21.91) = 24.41 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(21.91) = 24.41 > 24\text{dBm}$

802.11n (HT20)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
36	5180	9.27	9.05	16.488	12.17	30.00	Pass
40	5200	9.92	7.92	16.011	12.04	30.00	Pass
48	5240	9.89	8.75	17.249	12.37	30.00	Pass
52	5260	9.77	9.68	18.774	12.74	24.00	Pass
60	5300	9.84	9.82	19.232	12.84	24.00	Pass
64	5320	9.76	9.70	18.795	12.74	24.00	Pass
100	5500	9.57	9.66	18.304	12.63	24.00	Pass
116	5580	9.67	9.78	18.774	12.74	24.00	Pass
140	5700	8.80	9.66	16.833	12.26	24.00	Pass
149	5745	9.94	9.31	18.394	12.65	30.00	Pass
157	5785	9.89	9.25	18.164	12.59	30.00	Pass
165	5825	9.59	8.93	16.915	12.28	30.00	Pass

Note:

Chain 0

1. $11\text{dBm} + 10\log (21.93) = 24.41 > 24\text{dBm}$
2. $11\text{dBm} + 10\log (21.90) = 24.40 > 24\text{dBm}$
3. $11\text{dBm} + 10\log (22.01) = 24.43 > 24\text{dBm}$
4. $11\text{dBm} + 10\log (22.07) = 24.44 > 24\text{dBm}$
5. $11\text{dBm} + 10\log (22.05) = 24.43 > 24\text{dBm}$
6. $11\text{dBm} + 10\log (22.11) = 24.45 > 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log (22.13) = 24.45 > 24\text{dBm}$
2. $11\text{dBm} + 10\log (22.05) = 24.43 > 24\text{dBm}$
3. $11\text{dBm} + 10\log (22.21) = 24.47 > 24\text{dBm}$
4. $11\text{dBm} + 10\log (22.08) = 24.44 > 24\text{dBm}$
5. $11\text{dBm} + 10\log (22.10) = 24.44 > 24\text{dBm}$
6. $11\text{dBm} + 10\log (22.09) = 24.44 > 24\text{dBm}$

802.11n (HT40)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
38	5190	9.04	9.28	16.489	12.17	30.00	Pass
46	5230	10.50	7.70	17.108	12.33	30.00	Pass
54	5270	9.47	9.45	17.661	12.47	24.00	Pass
62	5310	9.52	9.46	17.785	12.50	24.00	Pass
102	5510	7.88	9.23	14.513	11.62	24.00	Pass
110	5550	7.71	9.05	13.937	11.44	24.00	Pass
134	5670	7.73	9.08	14.020	11.47	24.00	Pass
151	5755	9.75	8.85	17.115	12.33	30.00	Pass
159	5795	9.38	8.62	15.948	12.03	30.00	Pass

Note:

Chain 0

1. $11\text{dBm} + 10\log (41.17) = 27.15 > 24\text{dBm}$
2. $11\text{dBm} + 10\log (41.01) = 27.13 > 24\text{dBm}$
3. $11\text{dBm} + 10\log (41.08) = 27.14 > 24\text{dBm}$
4. $11\text{dBm} + 10\log (41.13) = 27.14 > 24\text{dBm}$
5. $11\text{dBm} + 10\log (41.17) = 27.15 > 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log (41.35) = 27.16 > 24\text{dBm}$
2. $11\text{dBm} + 10\log (41.35) = 27.16 > 24\text{dBm}$
3. $11\text{dBm} + 10\log (41.30) = 27.16 > 24\text{dBm}$
4. $11\text{dBm} + 10\log (41.39) = 27.17 > 24\text{dBm}$
5. $11\text{dBm} + 10\log (41.38) = 27.17 > 24\text{dBm}$

802.11ac (VHT80)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
42	5210	9.66	9.02	17.227	12.36	30.00	Pass
58	5290	9.31	9.49	17.423	12.41	24.00	Pass
106	5530	9.11	9.52	17.101	12.33	24.00	Pass
155	5775	9.58	8.77	16.612	12.20	30.00	Pass

Note:

Chain 0

1. $11\text{dBm} + 10\log (82.52) = 30.17 > 24\text{dBm}$
2. $11\text{dBm} + 10\log (82.32) = 30.16 > 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log (82.84) = 30.18 > 24\text{dBm}$
2. $11\text{dBm} + 10\log (82.65) = 30.17 > 24\text{dBm}$

26dB Bandwidth:

802.11a

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	21.78	21.85
60	5300	21.78	22.00
64	5320	21.79	21.87
100	5500	21.77	21.92
116	5580	21.84	21.91
140	5700	21.84	21.91

802.11n (HT20)

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	21.93	22.13
60	5300	21.90	22.05
64	5320	22.01	22.21
100	5500	22.07	22.08
116	5580	22.05	22.10
140	5700	22.11	22.09

802.11n (HT40)

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
54	5270	41.17	41.35
62	5310	41.01	41.35
102	5510	41.08	41.30
110	5550	41.13	41.39
134	5670	41.17	41.38

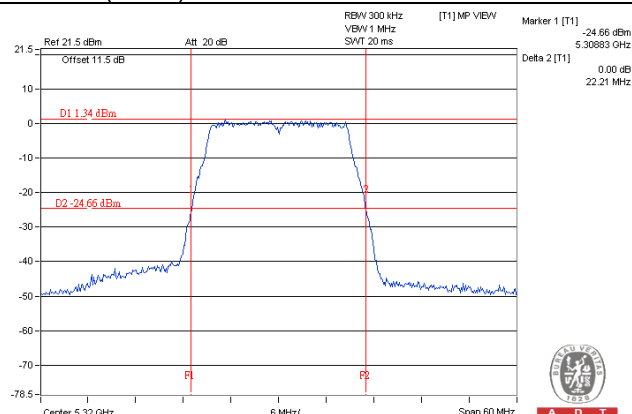
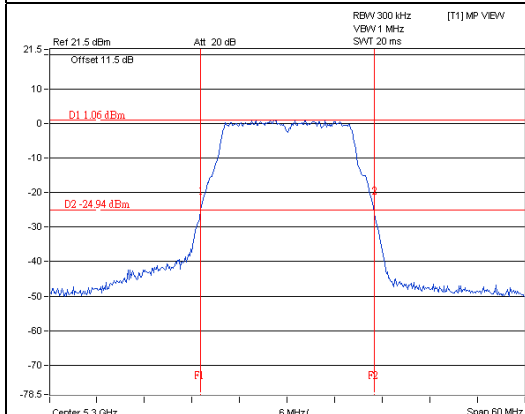
802.11ac (VHT80)

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
58	5290	82.52	82.84
106	5530	82.32	82.65

Spectrum Plot of Worst Value

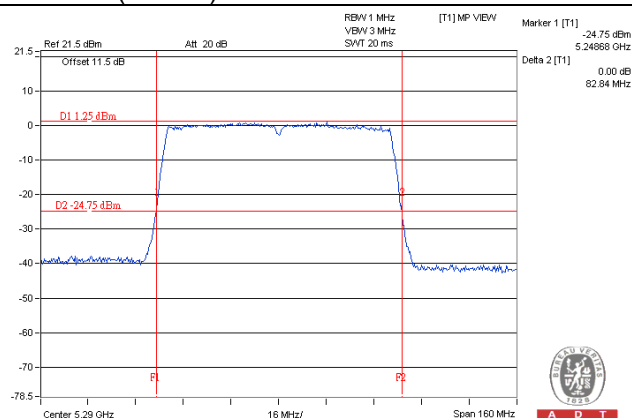
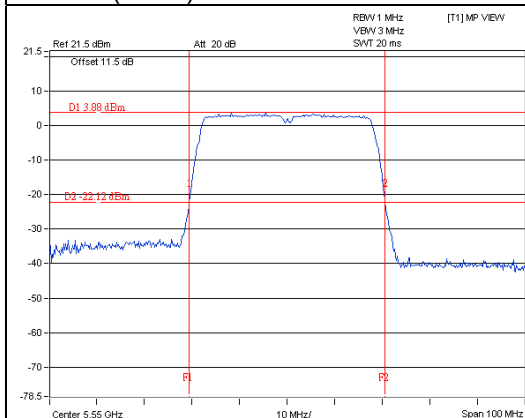
802.11a

802.11n (HT20)



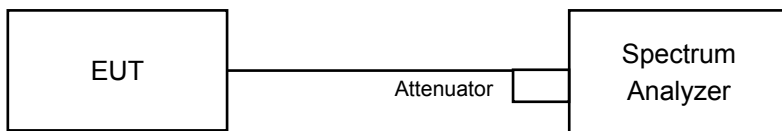
802.11n (HT40)

802.11ac (VHT80)



4.4 Occupied Bandwidth Measurement

4.4.1 Test Setup



4.4.2 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.4.3 Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with resolution bandwidth in the range of 1% to 5% of the anticipated emission bandwidth, and a video bandwidth at least 3x the resolution bandwidth and set the detector to sample. The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 %of the total mean power of a given emission.

4.4.4 Test Result

802.11a

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	16.92	18.84
40	5200	17.04	17.16
48	5240	17.16	17.16
52	5260	17.16	17.16
60	5300	17.16	17.28
64	5320	17.16	17.04
100	5500	17.04	17.16
116	5580	17.16	17.28
140	5700	17.16	17.16
149	5745	17.04	16.92
157	5785	17.04	17.04
165	5825	17.16	17.04

802.11n (HT20)

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	18.00	18.24
40	5200	18.12	18.12
48	5240	18.00	18.24
52	5260	18.00	18.24
60	5300	18.00	18.24
64	5320	18.00	18.24
100	5500	18.12	18.12
116	5580	18.00	18.24
140	5700	18.00	18.24
149	5745	18.12	18.12
157	5785	18.12	18.12
165	5825	18.12	18.12

802.11n (HT40)

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
38	5190	36.60	36.60
46	5230	36.72	36.72
54	5270	36.72	36.72
62	5310	36.60	36.72
102	5510	36.72	36.72
110	5550	36.72	36.72
134	5670	36.60	36.84
151	5755	36.72	36.60
159	5795	36.60	36.72

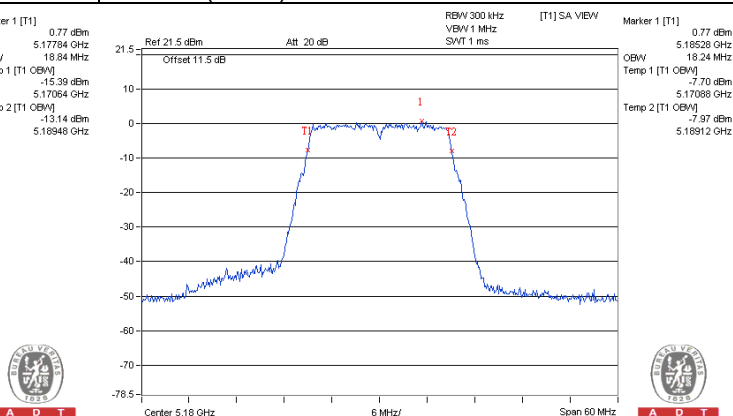
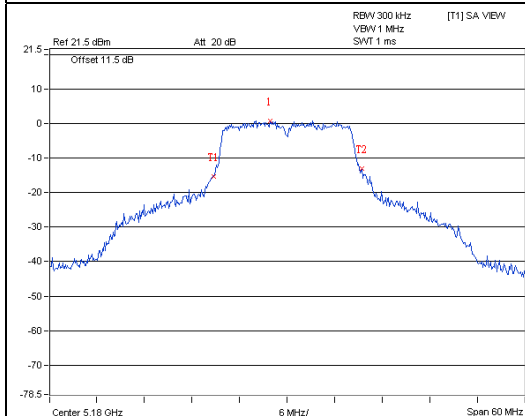
802.11ac (VHT80)

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
42	5210	75.88	75.88
58	5290	75.88	75.88
106	5530	75.88	75.88
155	5775	76.08	75.84

Spectrum Plot of Worst Value

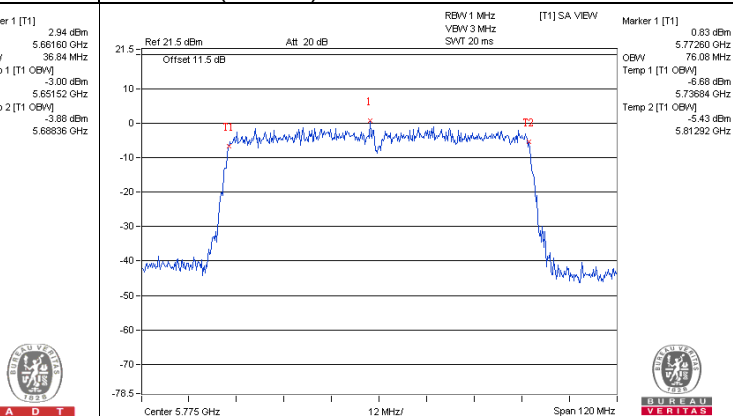
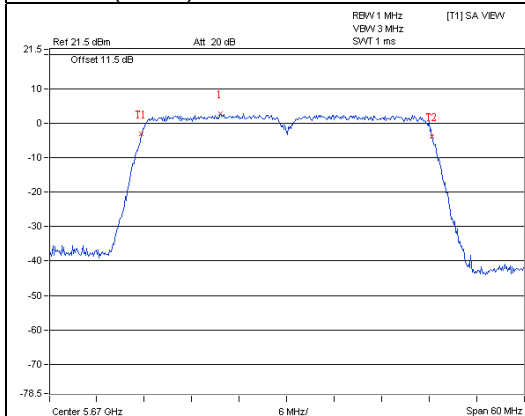
802.11a

802.11n (HT20)



802.11n (HT40)

802.11ac (VHT80)



EUT MAXIMUM CONDUCTED POWER

802.11a

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	16.888	12.28
5470~5725	17.216	12.36

802.11n (HT20)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	19.232	12.84
5470~5725	18.774	12.74

802.11n (HT40)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	17.785	12.50
5470~5725	14.513	11.62

802.11ac (VHT80)

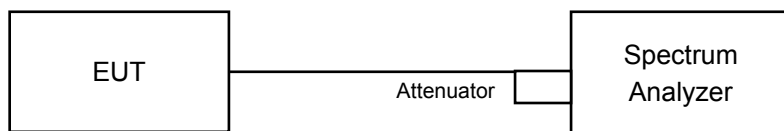
Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	17.423	12.41
5470~5725	17.101	12.33

4.5 Peak Power Spectral Density Measurement

4.5.1 Limits of Peak Power Spectral Density Measurement

Operation Band	EUT Category		LIMIT
U-NII-1	---	Outdoor Access Point	17dBm/ MHz
	---	Fixed point-to-point Access Point	
	√	Indoor Access Point	
	---	Mobile and Portable client device	11dBm/ MHz
U-NII-2A	√		11dBm/ MHz
U-NII-2C	√		11dBm/ MHz
U-NII-3	√		30dBm/ 500kHz

4.5.2 Test Setup



4.5.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.5.4 Test Procedures

For U-NII-1 band, U-NII-2A, U-NII-2C:

Using method SA-1, Duty cycle >98%:

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz, Set VBW ≥ 3 MHz, Detector = RMS
- Sweep time = auto, trigger set to “free run”.
- Trace average at least 100 traces in power averaging mode.
- Record the max value

Using method SA-2, Duty cycle <98%

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1MHz, Set VBW ≥ 3 MHz, Detector = RMS
- Set Channel power measure = 1MHz
- Sweep time = auto, trigger set to “free run”.
- Trace average at least 100 traces in power averaging mode.
- Record the max value and add 10 log (1/duty cycle)

For U-NII-3 band:

- a. Set span to encompass the entire emission bandwidth (EBW) of the signal.
- b. Set RBW = 300 kHz, Set VBW \geq 1 MHz, Detector = RMS
- c. Use the peak marker function to determine the maximum power level in any 300 kHz band segment within the fundamental EBW.
- d. Scale the observed power level to an equivalent value in 500 kHz by adjusting (reducing) the measured power by a bandwidth correction factor (BWCF) where $BWCF = 10\log(500 \text{ kHz}/300\text{kHz})$
- e. Sweep time = auto, trigger set to "free run".
- f. Trace average at least 100 traces in power averaging mode.
- g. Record the max value and add $10 \log (1/\text{duty cycle})$

4.5.5 Deviation from Test Standard

No deviation.

4.5.6 EUT Operating Conditions

Same as Item 4.3.6.

4.5.7 Test Results

For U-NII-1 band, U-NII-2A, U-NII-2C:

802.11a

Chan.	Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1			
36	5180	-7.36	-4.12	-2.43	14.49	Pass
40	5200	-5.90	-5.86	-2.87	14.49	Pass
48	5240	-5.72	-4.68	-2.16	14.49	Pass
52	5260	-5.97	-4.39	-2.10	8.49	Pass
60	5300	-4.74	-5.44	-2.06	8.49	Pass
64	5320	-4.89	-4.95	-1.91	8.49	Pass
100	5500	-3.74	-5.51	-1.52	8.49	Pass
116	5580	-3.80	-5.84	-1.69	8.49	Pass
140	5700	-4.00	-6.40	-2.02	8.49	Pass

Note:

1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. 5180~5240MHz directional gain = $5.5\text{dBi} + 10\log(2) = 8.51\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $17 - (8.51 - 6) = 14.49\text{dBm}$.
5260~5320MHz and 5500~5720MHz directional gain = $5.5\text{dBi} + 10\log(2) = 8.51\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $11 - (8.51 - 6) = 8.49\text{dBm}$.

802.11n (HT20)

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
36	5180	-7.45	-5.04	0.12	-2.95	14.49	Pass
40	5200	-5.63	-5.17	0.12	-2.27	14.49	Pass
48	5240	-5.78	-5.80	0.12	-2.66	14.49	Pass
52	5260	-7.08	-5.24	0.12	-2.93	8.49	Pass
60	5300	-5.62	-5.03	0.12	-2.19	8.49	Pass
64	5320	-4.33	-6.56	0.12	-2.17	8.49	Pass
100	5500	-4.34	-6.18	0.12	-2.03	8.49	Pass
116	5580	-4.78	-6.17	0.12	-2.29	8.49	Pass
140	5700	-5.11	-6.55	0.12	-2.64	8.49	Pass

Note:

- Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- 5180~5240MHz directional gain = $5.5\text{dBi} + 10\log(2) = 8.51\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $17-(8.51-6) = 14.49\text{dBm}$.
5260~5320MHz and 5500~5720MHz directional gain = $5.5\text{dBi} + 10\log(2) = 8.51\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $11-(8.51-6) = 8.49\text{dBm}$.
- Refer to section 3.3 for duty cycle spectrum plot.

802.11n (HT40)

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
38	5190	-6.62	-5.90	0.18	-3.05	14.49	Pass
46	5230	-6.35	-5.76	0.18	-2.85	14.49	Pass
54	5270	-5.84	-6.23	0.18	-2.84	8.49	Pass
62	5310	-5.69	-5.94	0.18	-2.62	8.49	Pass
102	5510	-4.50	-6.54	0.18	-2.21	8.49	Pass
110	5550	-5.94	-6.81	0.18	-3.16	8.49	Pass
134	5670	-6.67	-7.25	0.18	-3.76	8.49	Pass

Note:

- Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- 5180~5240MHz directional gain = $5.5\text{dBi} + 10\log(2) = 8.51\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $17-(8.51-6) = 14.49\text{dBm}$.
5260~5320MHz and 5500~5720MHz directional gain = $5.5\text{dBi} + 10\log(2) = 8.51\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $11-(8.51-6) = 8.49\text{dBm}$.
- Refer to section 3.3 for duty cycle spectrum plot.

802.11ac (VHT80)

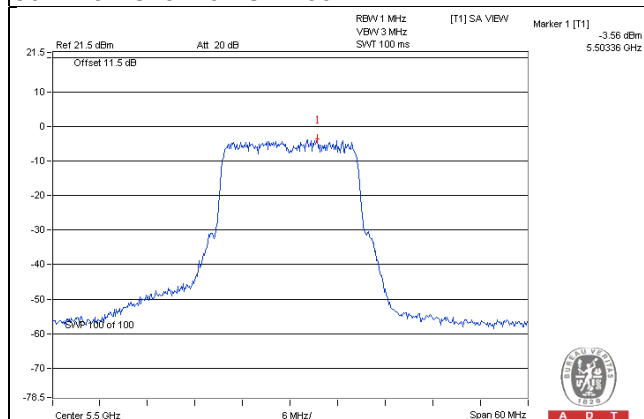
Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
42	5210	-9.95	-9.34	0.42	-6.21	14.49	Pass
58	5290	-10.65	-9.68	0.42	-6.71	8.49	Pass
106	5530	-9.36	-9.99	0.42	-6.24	8.49	Pass

Note:

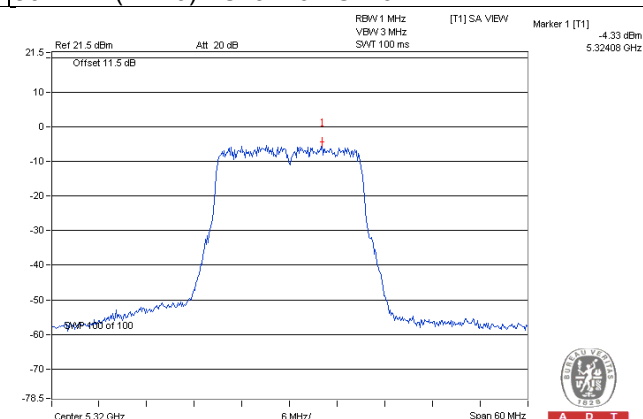
- Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- 5180~5240MHz directional gain = $5.5\text{dBi} + 10\log(2) = 8.51\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $17-(8.51-6) = 14.49\text{dBm}$.
5260~5320MHz and 5500~5720MHz directional gain = $5.5\text{dBi} + 10\log(2) = 8.51\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $11-(8.51-6) = 8.49\text{dBm}$.
- Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

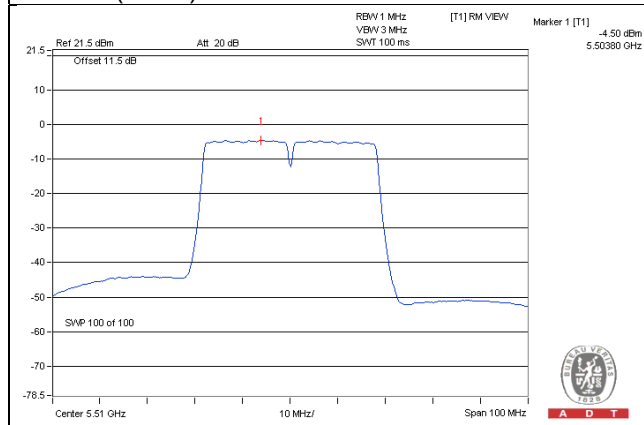
802.11a / Chain 0 / CH 100



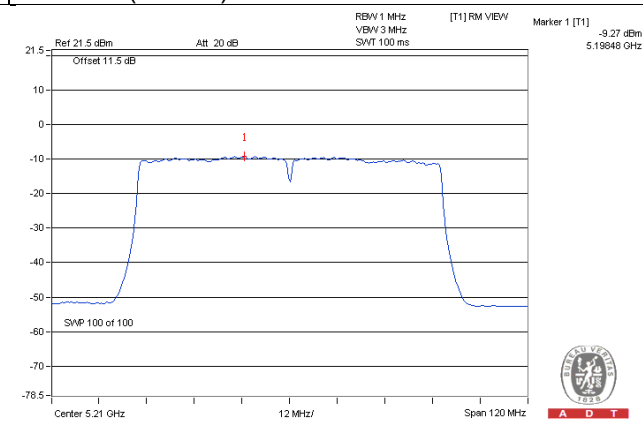
802.11n (HT20) / Chain 0 / CH 64



802.11n (HT40) / Chain 0 / CH 102



802.11ac (VHT80) / Chain 1 / CH 42



For 5745~5825MHz:

802.11a

Ch.	Freq. (MHz)	PSD (dBm/300kHz)		PSD (dBm/500kHz)		Duty factor (dB)	Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
		Chain 0	Chain 1	Chain 0	Chain 1				
149	5745	-12.76	-12.46	-10.54	-10.24	0.34	-7.04	27.49	Pass
157	5785	-12.78	-12.76	-10.56	-10.54	0.34	-7.21	27.49	Pass
165	5825	-12.99	-12.97	-10.77	-10.75	0.34	-7.42	27.49	Pass

Note:

- Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain = $5.5\text{dBi} + 10\log(2) = 8.51\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $30 - (8.51 - 6) = 27.49\text{dBm}$.

802.11n (HT20)

Ch.	Freq. (MHz)	PSD (dBm/300kHz)		PSD (dBm/500kHz)		Duty factor (dB)	Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
		Chain 0	Chain 1	Chain 0	Chain 1				
149	5745	-13.12	-13.17	-10.90	-10.95	0.31	-7.61	27.49	Pass
157	5785	-13.30	-13.43	-11.08	-11.21	0.31	-7.83	27.49	Pass
165	5825	-13.65	-13.79	-11.43	-11.57	0.31	-8.18	27.49	Pass

Note:

- Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain = $5.5\text{dBi} + 10\log(2) = 8.51\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $30 - (8.51 - 6) = 27.49\text{dBm}$.
- Refer to section 3.3 for duty cycle spectrum plot.

802.11n (HT40)

Ch.	Freq. (MHz)	PSD (dBm/300kHz)		PSD (dBm/500kHz)		Duty factor (dB)	Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
		Chain 0	Chain 1	Chain 0	Chain 1				
151	5755	-16.47	-15.75	-14.25	-13.53	0.23	-10.63	27.49	Pass
159	5795	-16.86	-16.45	-14.64	-14.23	0.23	-11.18	27.49	Pass

Note:

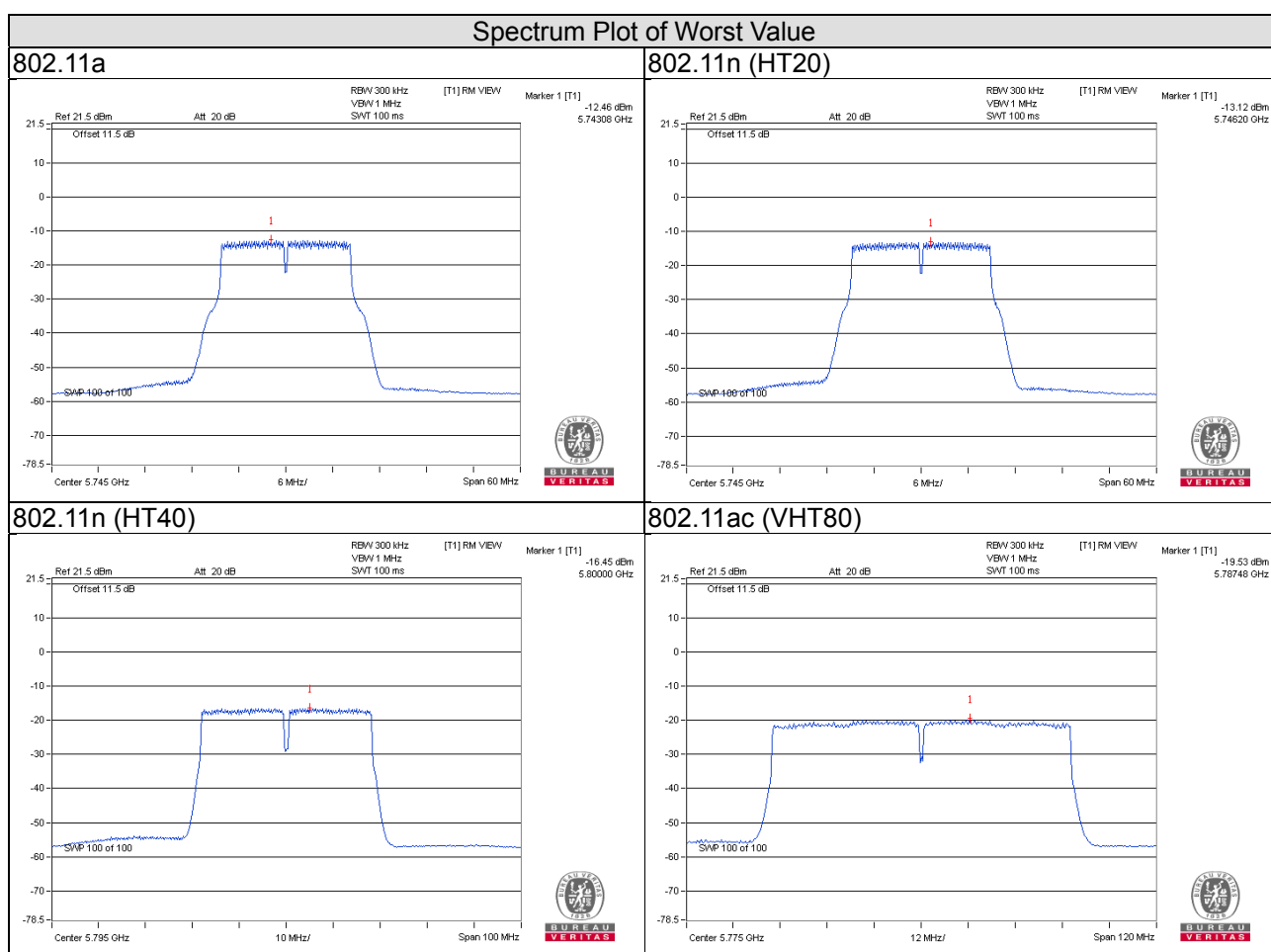
- Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain = $5.5\text{dBi} + 10\log(2) = 8.51\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $30 - (8.51 - 6) = 27.49\text{dBm}$.
- Refer to section 3.3 for duty cycle spectrum plot.

802.11ac (VHT80)

Ch.	Freq. (MHz)	PSD (dBm/300kHz)		PSD (dBm/500kHz)		Duty factor (dB)	Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
		Chain 0	Chain 1	Chain 0	Chain 1				
155	5775	-19.53	-19.67	-17.31	-17.45	0.27	-14.11	27.49	Pass

Note:

- Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain = 5.5dBi + 10log(2) = 8.51dBi > 6dBi, so the power density limit shall be reduced to 30-(8.51-6) = 27.49dBm.
- Refer to section 3.3 for duty cycle spectrum plot.

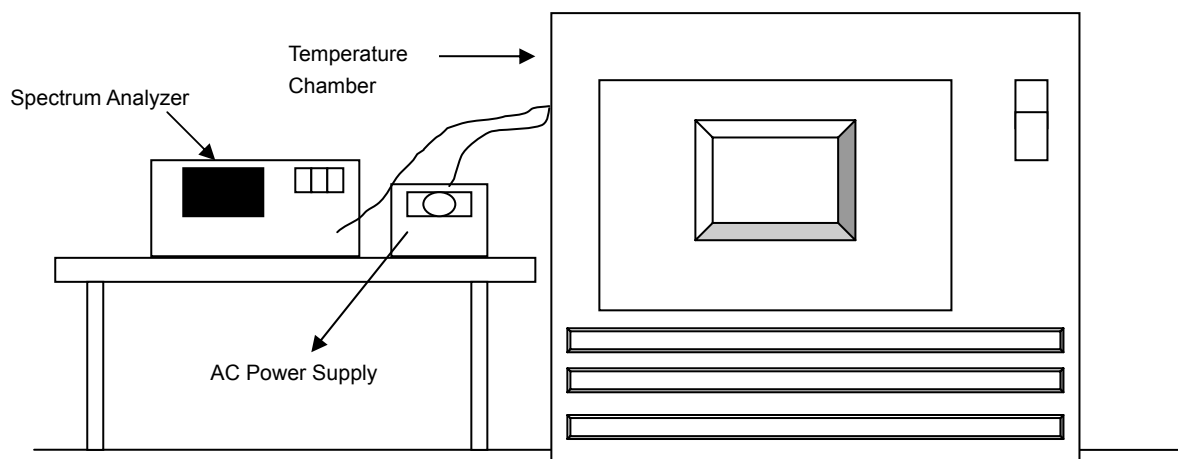


4.6 Frequency Stability

4.6.1 Limits of Frequency Stability Measurement

The frequency of the carrier signal shall be maintained within band of operation

4.6.2 Test Setup



4.6.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.6.4 Test Procedure

- The EUT was placed inside the environmental test chamber and powered by nominal AC voltage.
- Turn the EUT on and couple its output to a spectrum analyzer.
- Turn the EUT off and set the chamber to the highest temperature specified.
- Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency after 2, 5, and 10 minutes.
- Repeat step 2 and 3 with the temperature chamber set to the lowest temperature.
- The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.

4.6.5 Deviation from Test Standard

No deviation.

4.6.6 EUT Operating Condition

Set the EUT transmit at un-modulation mode to test frequency stability.

4.6.7 Test Results

Frequency Stability Versus Temp.									
Operating Frequency: 5180MHz									
Temp. (°C)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)
50	120	5180.0245	0.00047	5180.0223	0.00043	5180.0248	0.00048	5180.0224	0.00043
40	120	5180.0139	0.00027	5180.0134	0.00026	5180.0156	0.00030	5180.0164	0.00032
30	120	5179.9941	-0.00011	5179.9903	-0.00019	5179.9946	-0.00010	5179.9934	-0.00013
20	120	5179.9748	-0.00049	5179.9772	-0.00044	5179.977	-0.00044	5179.9746	-0.00049
10	120	5180.0207	0.00040	5180.0239	0.00046	5180.0235	0.00045	5180.0215	0.00042
0	120	5179.985	-0.00029	5179.9804	-0.00038	5179.9814	-0.00036	5179.985	-0.00029
-10	120	5179.989	-0.00021	5179.9903	-0.00019	5179.9919	-0.00016	5179.9923	-0.00015
-20	120	5179.9748	-0.00049	5179.973	-0.00052	5179.9732	-0.00052	5179.9751	-0.00048
-30	120	5180.0101	0.00019	5180.0096	0.00019	5180.0097	0.00019	5180.0117	0.00023

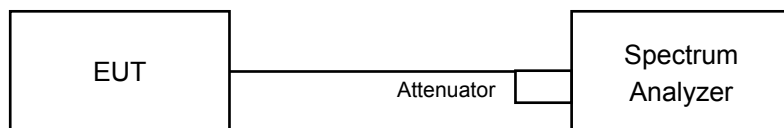
Frequency Stability Versus Voltage									
Operating Frequency: 5180MHz									
Temp. (°C)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)
20	138	5179.9757	-0.00047	5179.9781	-0.00042	5179.9767	-0.00045	5179.975	-0.00048
	120	5179.9748	-0.00049	5179.9772	-0.00044	5179.977	-0.00044	5179.9746	-0.00049
	102	5179.9758	-0.00047	5179.9773	-0.00044	5179.9766	-0.00045	5179.9748	-0.00049

4.7 6dB Bandwidth Measurement

4.7.1 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is 0.5MHz.

4.7.2 Test Setup



4.7.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.7.4 Test Procedure

MEASUREMENT PROCEDURE REF

- Set resolution bandwidth (RBW) = 100kHz
- Set the video bandwidth (VBW) $\geq 3 \times$ RBW, Detector = Peak.
- Trace mode = max hold.
- Sweep = auto couple.
- Measure the maximum width of the emission that is constrained by the frequencies associated with the two amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission

4.7.5 Deviation from Test Standard

No deviation.

4.7.6 EUT Operating Condition

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

4.7.7 Test Results

802.11a

Chan.	Freq. (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
149	5745	16.41	16.41	0.5	Pass
157	5785	16.44	16.43	0.5	Pass
165	5825	16.44	16.44	0.5	Pass

802.11n (HT20)

Chan.	Freq. (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
149	5745	17.65	17.66	0.5	Pass
157	5785	17.65	17.65	0.5	Pass
165	5825	17.65	17.64	0.5	Pass

802.11n (HT40)

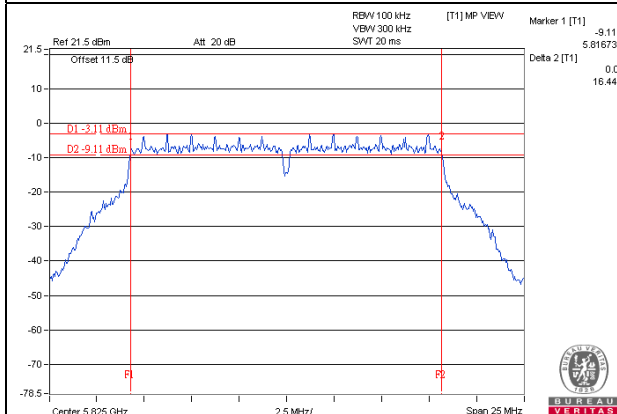
Chan.	Freq. (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
151	5755	36.42	36.44	0.5	Pass
159	5795	36.45	36.40	0.5	Pass

802.11ac (VHT80)

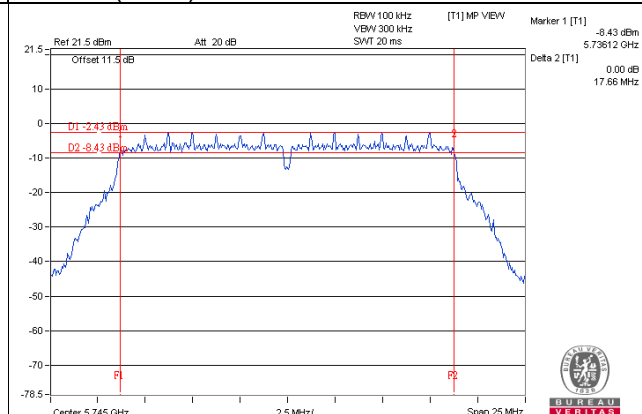
Chan.	Freq. (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
155	5775	76.30	76.05	0.5	Pass

Spectrum Plot of Worst Value

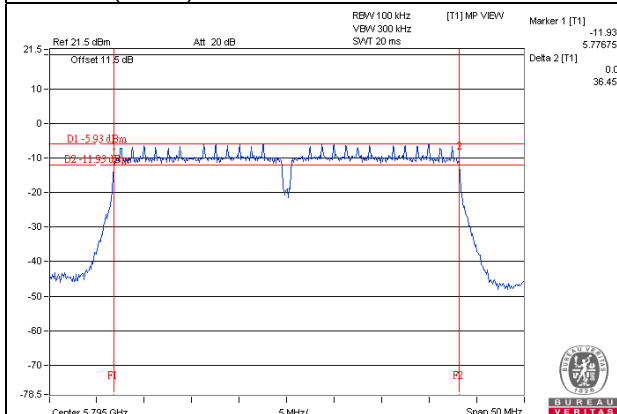
802.11a



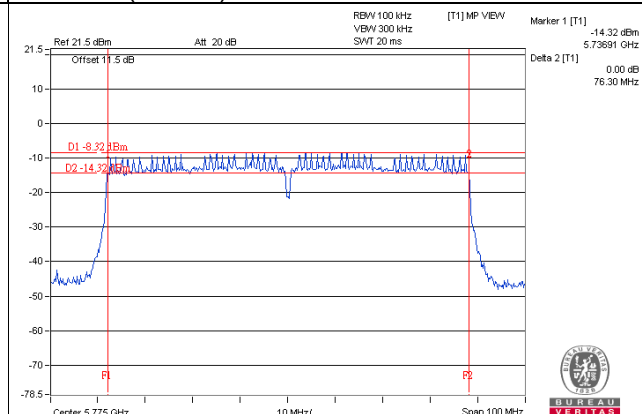
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)



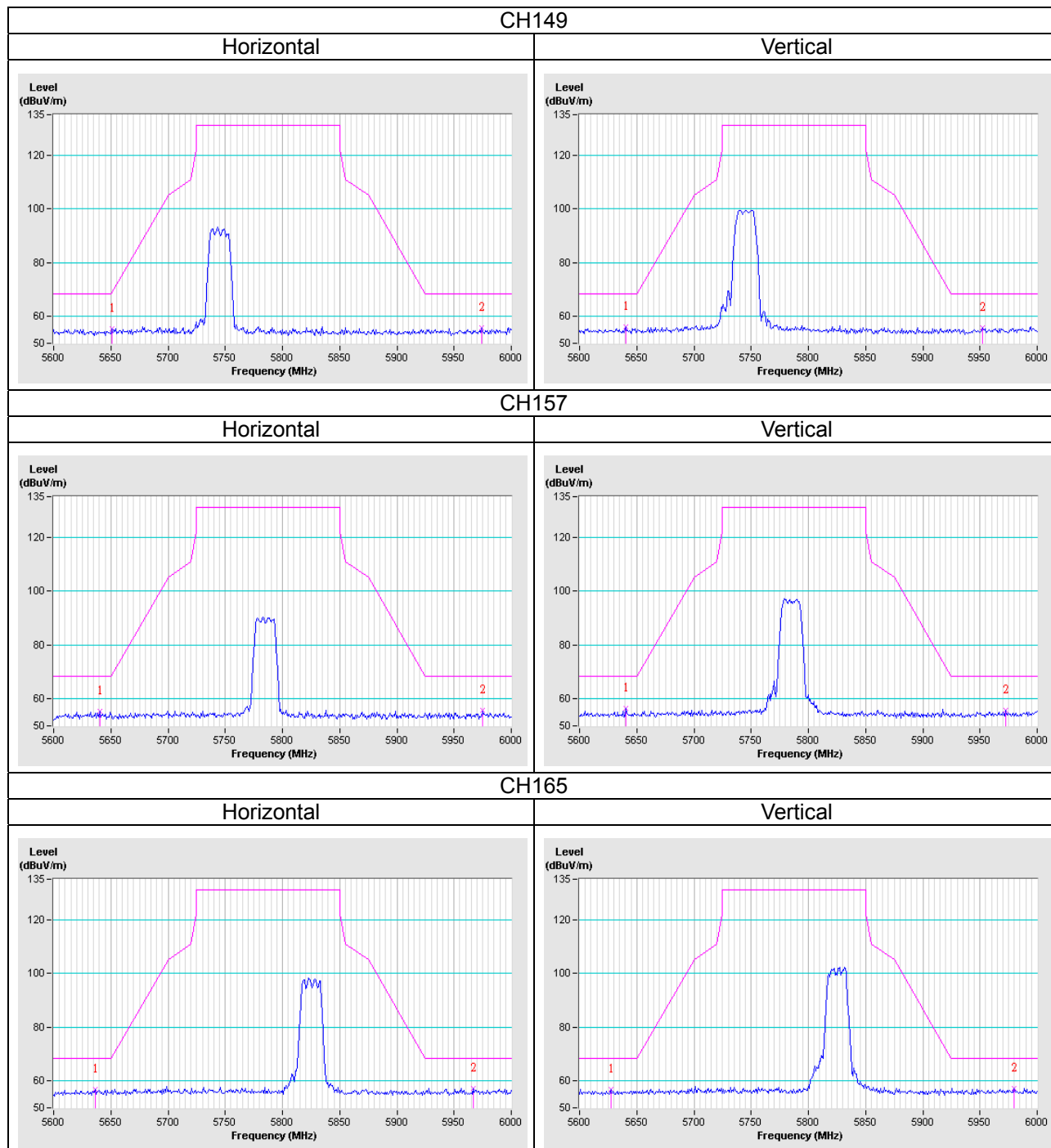
5 Pictures of Test Arrangements

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

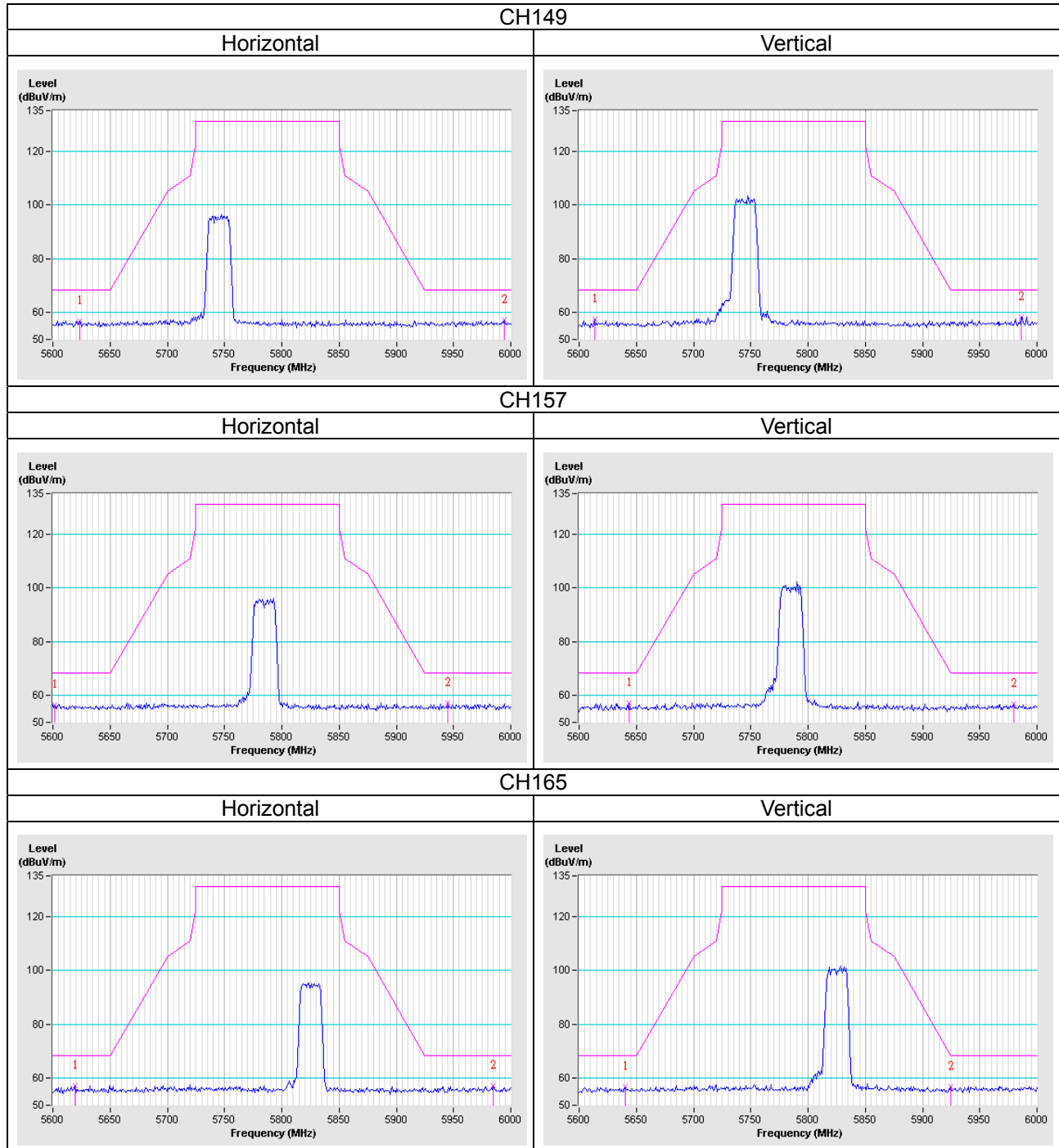
Annex A- Radiated Out of Band Emission (OOBE) Measurement (For U-NII-3 band)

Test Mode A

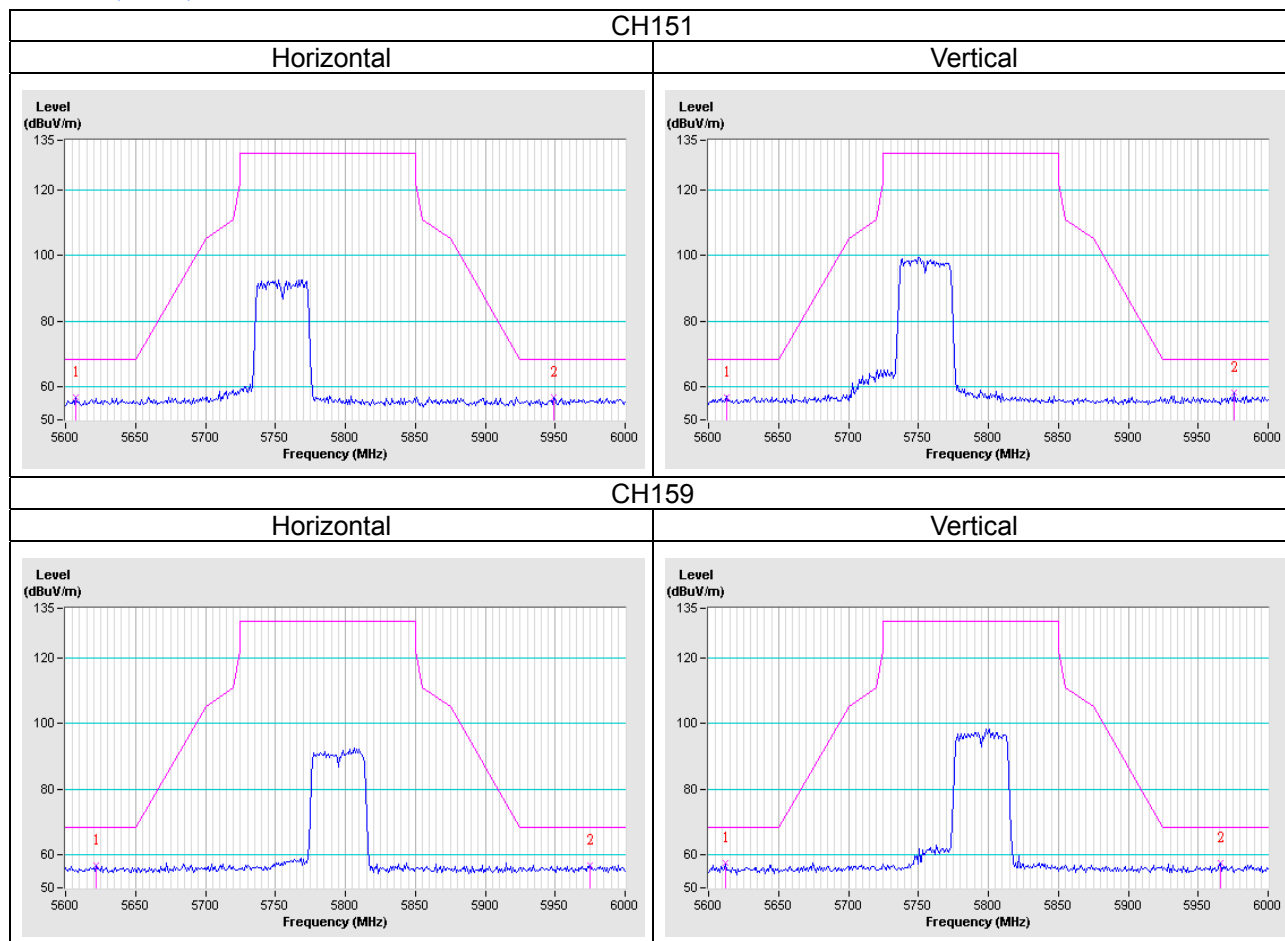
802.11a



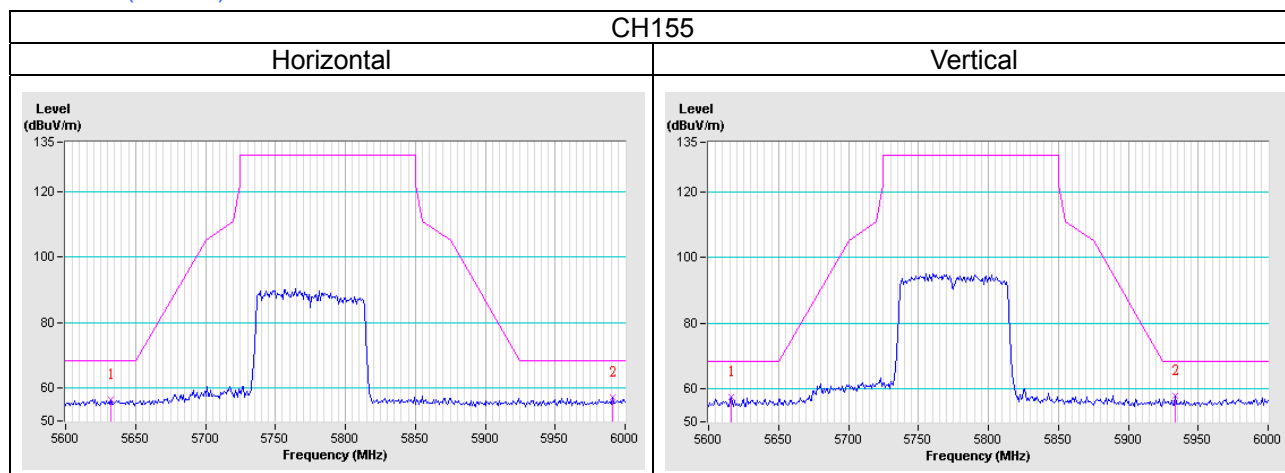
802.11n (HT20)



802.11n (HT40)

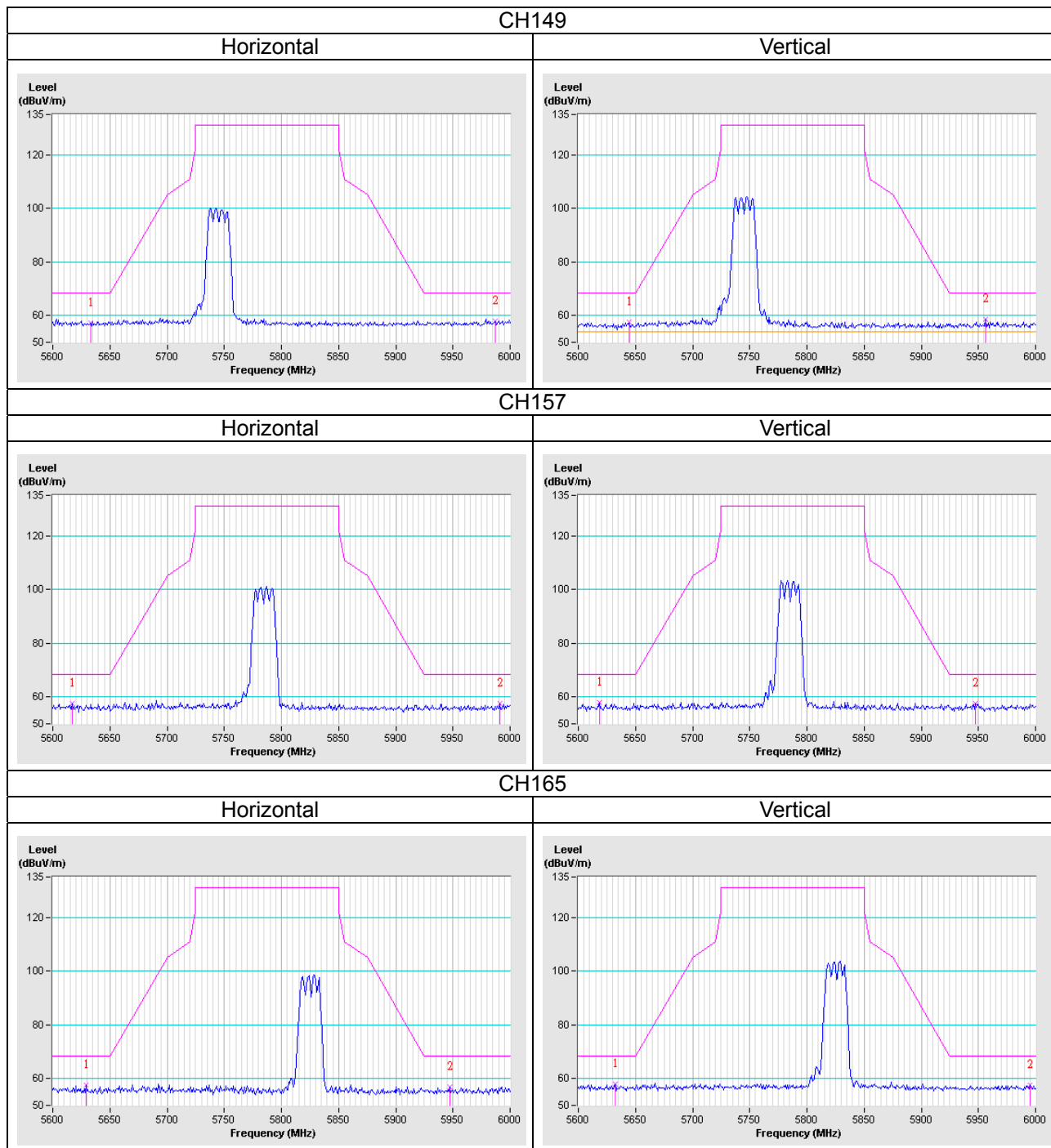


802.11ac (VHT80)

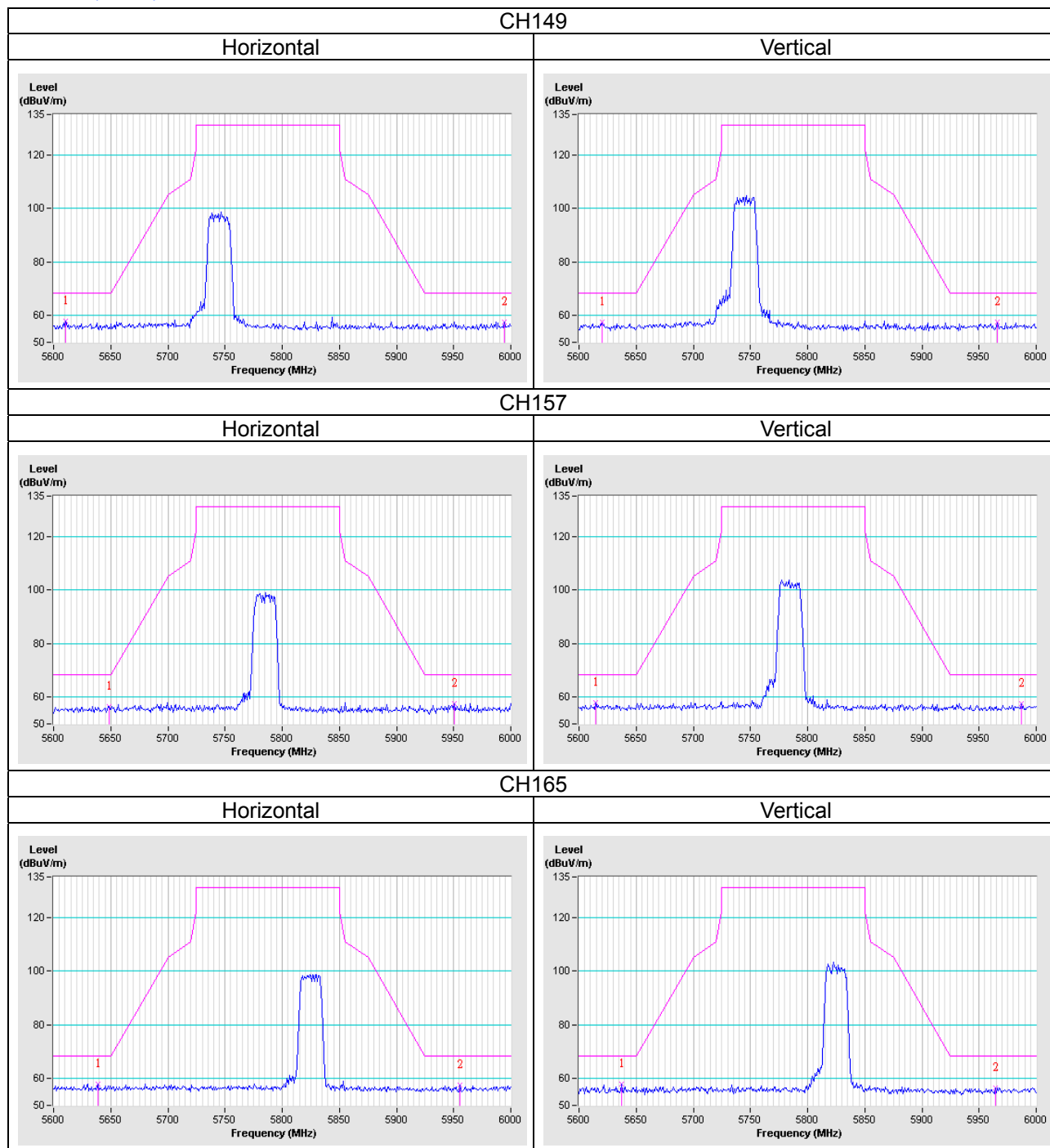


Test Mode B

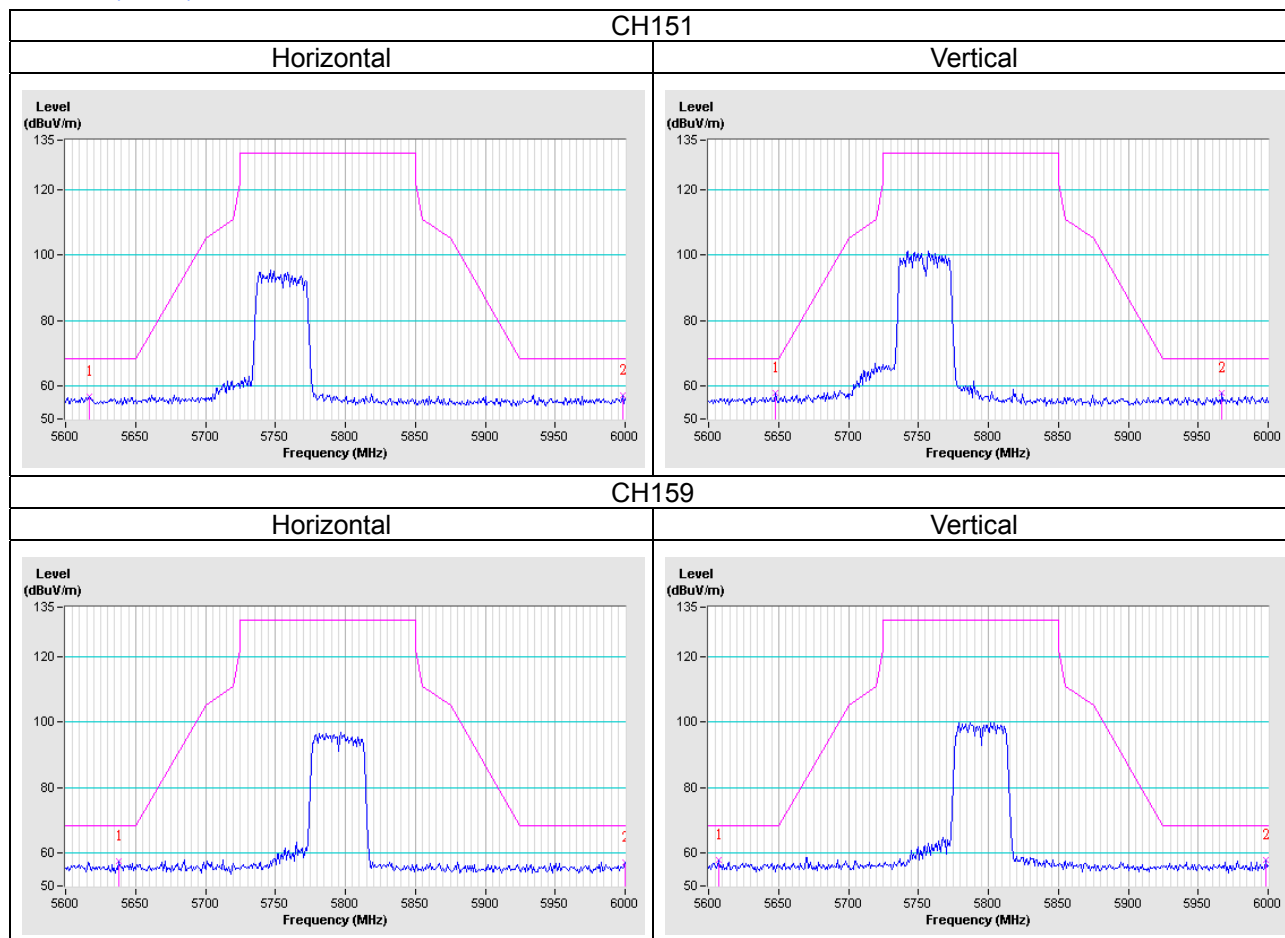
802.11a



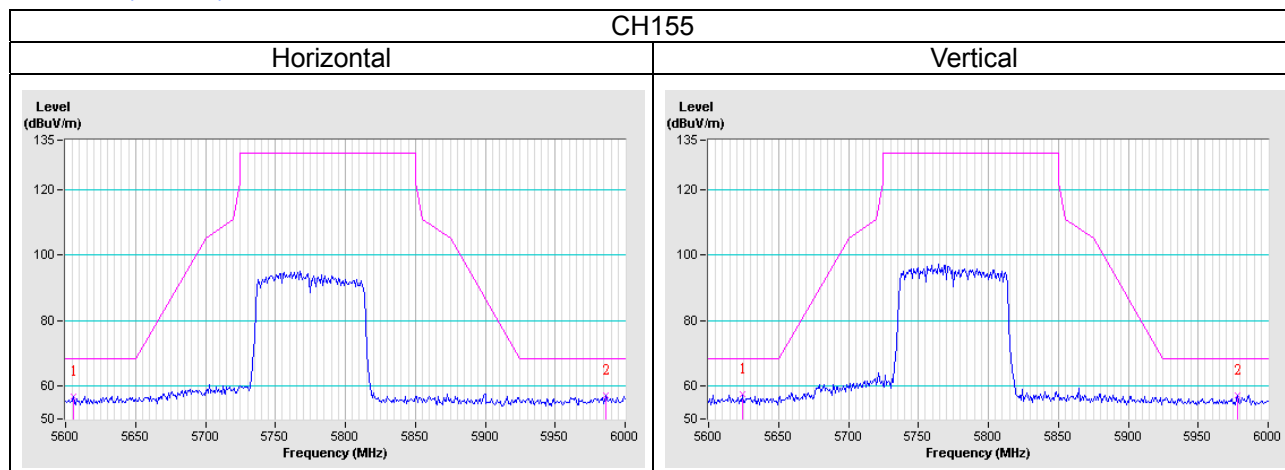
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)



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 FCC recognized accredited test firms and accredited and approved according to ISO/IEC 17025.

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

Linko EMC/RF Lab

Tel: 886-2-26052180

Fax: 886-2-26051924

Hsin Chu EMC/RF/Telecom Lab

Tel: 886-3-6668565

Fax: 886-3-6668323

Hwa Ya EMC/RF/Safety Lab

Tel: 886-3-3183232

Fax: 886-3-3270892

Email: service.adt@tw.bureauveritas.com

Web Site: www.bureauveritas-adt.com

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

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