

FCC Test Report

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FCC ID: AZ489FT7104

Test Model: LEX L11n

Received Date: Nov. 27, 2017

Test Date: Dec. 13, 2017 ~ Feb. 01, 2018

Issued Date: Mar. 02, 2018

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**FCC Registration/
Designation Number:** 788550 / TW0003



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Release Control Record

Issue No.	Description	Date Issued
RF171127C13-3	Original release.	Mar. 02, 2018

1 Certificate of Conformity

Product: LEX L11 Mission Critical LTE Device

Brand: Motorola Solutions

Test Model: LEX L11n

Sample Status: Engineering sample

Applicant: Motorola Solutions, Inc.

Test Date: Dec. 13, 2017 ~ Feb. 01, 2018

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 RF characteristics under the conditions specified in this report.

Prepared by :



Date:

Mar. 02, 2018

Pettie Chen / Senior Specialist

Approved by :



Date:

Mar. 02, 2018

Bruce Chen / Project Engineer

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 -17.00dB at 0.26730MHz.
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 -0.7dB at 5470.00MHz.
15.407(a)(1/2/3)	Max Average Transmit Power	Pass	Meet the requirement of limit.
---	Occupied Bandwidth Measurement	Pass	Meet the requirement of limit.
15.407(a)(1/2/3)	Peak Power Spectral Density	Pass	Meet the requirement of limit. (U-NII-3 Band only)
15.407(e)	6dB bandwidth	Pass	Meet the requirement of limit.
15.407(g)	Frequency Stability	Pass	Meet the requirement of limit.
15.203	Antenna Requirement	Pass	No antenna connector is used.

*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) ($\pm$)
Conducted Emissions at mains ports	150kHz ~ 30MHz	2.94 dB
Radiated Emissions	30MHz ~ 200MHz	3.63 dB
	200MHz ~ 1000MHz	3.64 dB
	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	LEX L11 Mission Critical LTE Device
Brand	Motorola Solutions
Test Model	LEX L11n
Sample Status	Engineering sample
Power Supply Rating	3.7Vdc (Battery) 5Vdc or 9Vdc or 12Vdc (adapter) 5Vdc or 9Vdc (Car Charger)
Modulation Type	256QAM, 64QAM, 16QAM, QPSK, BPSK
Modulation Technology	OFDM
Transfer Rate	802.11a: 54/48/36/24/18/12/9/6Mbps 802.11n: up to 300Mbps 802.11ac: up to 866.7Mbps
Operating Frequency	5180~5240MHz, 5260~5320MHz, 5500~5720MHz, 5745~5825MHz
Number of Channel	5180~5240MHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20): 4 802.11n (HT40), 802.11ac (VHT40): 2 802.11ac (VHT80): 1 5260~5320MHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20): 4 802.11n (HT40), 802.11ac (VHT40): 2 802.11ac (VHT80): 1 5500~5720MHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20): 12 802.11n (HT40), 802.11ac (VHT40): 6 802.11ac (VHT80): 3 5745~5825MHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20): 5 802.11n (HT40), 802.11ac (VHT40): 2 802.11ac (VHT80): 1
Output Power	5180~5240MHz: 100.379mW 5260~5320MHz: 93.917mW 5500~5720MHz: 110.314mW 5745~5825MHz: 97.123mW
Antenna Type	Main Antenna: Monopole antenna with -1.6 dBi gain Aux. Antenna: Monopole antenna with -2.7 dBi gain
Antenna Connector	Connector RF, Female(Receptacle/Socket), 8, Straight, Micro Coaxial, 2W, 50ohm, SMD, T/R
Accessory Device	Refer to Note as below
Cable Supplied	Refer to Note as below

Note:

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

Modulation Mode	TX Function
802.11a	2TX
802.11n (HT20)	2TX
802.11n (HT40)	2TX
802.11ac (VHT20)	2TX
802.11ac (VHT40)	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)

2. The EUT uses following devices and cables.

Item	Brand	Model	Specification	Remark
Charger 1	Motorola Solutions	MU27-4090300-A1 Part No: PS000278A01	Quick USB Wall Charger Input: 100-240Vac, 50/60Hz, 0.7A Output: 5V / 3A 9V / 3A 12V / 2.25A	Accessory
Charger 2	Motorola Solutions	MU08-L050150-A1 Part No: PS000150A31	Micro USB Wall Charger Input: 100-240Vac, 50/60Hz, 16-22VA, 0.25A Output: 5V / 1.5A	Accessory
Charger 3 (Car charger)	Motorola Solutions	CB18-2090200-C Part No: PMLN7779A	Vehicle Charger Input: 12/24V / 2.0A Output: 5V / 3A; 9V / 2A 0.35m DC cable without core attached	Accessory
Battery 1 (Hi-Cap)	Motorola Solutions	PMNN4546A	3.7V RECHARGEABLE LITHIUM ION BATTERY Rating: 3.7Vdc 5000mAh	Accessory
Battery 2 (Standard)	Motorola Solutions	PMNN4545A	3.7V RECHARGEABLE LITHIUM ION BATTERY Rating: 3.7Vdc 2500mAh	Accessory
Cable 1	Motorola Solutions	CB0000756A01	Type C to Type C 0.95m shielded USB cable without core	Accessory (for Charger PS000278A01 used)
Cable 2	Motorola Solutions	CB0000754A01	Type A to Type C 0.95m shielded USB cable without core	Accessory (for Charger PS000150A31 used)

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

3.2 Description of Test Modes

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	5210 MHz

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

5500~5720MHz:

12 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	144	5720 MHz

6 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	142	5710 MHz

3 channels are provided for 802.11ac (VHT80):

Channel	Frequency	Channel	Frequency
106	5530 MHz	122	5610 MHz
138	5690 MHz		

5745~5825MHz:

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

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

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

Channel	Frequency	Channel	Frequency
151	5755 MHz	159	5795 MHz

1 channel is provided for 802.11ac (VHT80):

Channel	Frequency
155	5775 MHz

3.2.1 Test Mode Applicability and Tested Channel Detail

EUT Configure Mode	Applicable to				Description
	RE $\geq$ 1G	RE<1G	PLC	APCM	
A	-	√	√	-	Power from Charger 1
B	√	√	√	√	Power from Charger 2
C	-	√	-	-	Power from Charger 3 (12Vdc)
D	-	√	-	-	Power from Charger 3 (24Vdc)

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	Frequency Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Data Rate (Mbps)
B	802.11a	5180-5240	36 to 48	36, 40, 48	OFDM	6.0
	802.11n (HT20)		36 to 48	36, 40, 48	OFDM	6.5
	802.11n (HT40)		38 to 46	38, 46	OFDM	13.5
	802.11ac (VHT80)		42	42	OFDM	29.3
B	802.11a	5260-5320	52 to 64	52, 60, 64	OFDM	6.0
	802.11n (HT20)		52 to 64	52, 60, 64	OFDM	6.5
	802.11n (HT40)		54 to 62	54, 62	OFDM	13.5
	802.11ac (VHT80)		58	58	OFDM	29.3
B	802.11a	5500-5720	100 to 144	100, 116, 120, 124, 128, 140, 144	OFDM	6.0
	802.11n (HT20)		100 to 144	100, 116, 120, 124, 128, 140, 144	OFDM	6.5
	802.11n (HT40)		102 to 142	102, 110, 118, 126, 134, 142	OFDM	13.5
	802.11ac (VHT80)		106 to 138	106, 122, 138	OFDM	29.3
B	802.11a	5745-5825	149 to 165	149, 157, 165	OFDM	6.0
	802.11n (HT20)		149 to 165	149, 157, 165	OFDM	6.5
	802.11n (HT40)		151 to 159	151, 159	OFDM	13.5
	802.11ac (VHT80)		155	155	OFDM	29.3

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	Frequency Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Data Rate (Mbps)
A, B, C, D	802.11a	5180-5240	36 to 48	149	OFDM	6.0
		5260-5320	52 to 64		OFDM	6.0
		5500-5720	100 to 144		OFDM	6.0
		5745-5825	149 to 165		OFDM	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	Frequency Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Data Rate (Mbps)
A, B	802.11a	5180-5240	36 to 48	149	OFDM	6.0
		5260-5320	52 to 64		OFDM	6.0
		5500-5720	100 to 144		OFDM	6.0
		5745-5825	149 to 165		OFDM	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	Frequency Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Data Rate (Mbps)
B	802.11a	5180-5240	36 to 48	36, 40, 48	OFDM	6.0
	802.11n (HT20)		36 to 48	36, 40, 48	OFDM	6.5
	802.11n (HT40)		38 to 46	38, 46	OFDM	13.5
	802.11ac (VHT80)		42	42	OFDM	29.3
B	802.11a	5260-5320	52 to 64	52, 60, 64	OFDM	6.0
	802.11n (HT20)		52 to 64	52, 60, 64	OFDM	6.5
	802.11n (HT40)		54 to 62	54, 62	OFDM	13.5
	802.11ac (VHT80)		58	58	OFDM	29.3
B	802.11a	5500-5720	100 to 144	100, 116, 120, 124, 128, 140, 144	OFDM	6.0
	802.11n (HT20)		100 to 144	100, 116, 120, 124, 128, 140, 144	OFDM	6.5
	802.11n (HT40)		102 to 142	102, 110, 118, 126, 134, 142	OFDM	13.5
	802.11ac (VHT80)		106 to 138	106, 122, 138	OFDM	29.3
B	802.11a	5745-5825	149 to 165	149, 157, 165	OFDM	6.0
	802.11n (HT20)		149 to 165	149, 157, 165	OFDM	6.5
	802.11n (HT40)		151 to 159	151, 159	OFDM	13.5
	802.11ac (VHT80)		155	155	OFDM	29.3

Test Condition:

Applicable to	Environmental Conditions	Input Power	Tested by
RE $\geq$ 1G	25deg. C, 66%RH	120Vac, 60Hz	Greg Lin
RE<1G	25deg. C, 65%RH	120Vac, 60Hz	Greg Lin
PLC	25deg. C, 75%RH	120Vac, 60Hz	Greg Lin
APCM	25deg. C, 60%RH	120Vac, 60Hz	Ted Chang

3.3 Duty Cycle of Test Signal

Duty cycle of test signal is $\geq 98\%$, duty factor is not required.

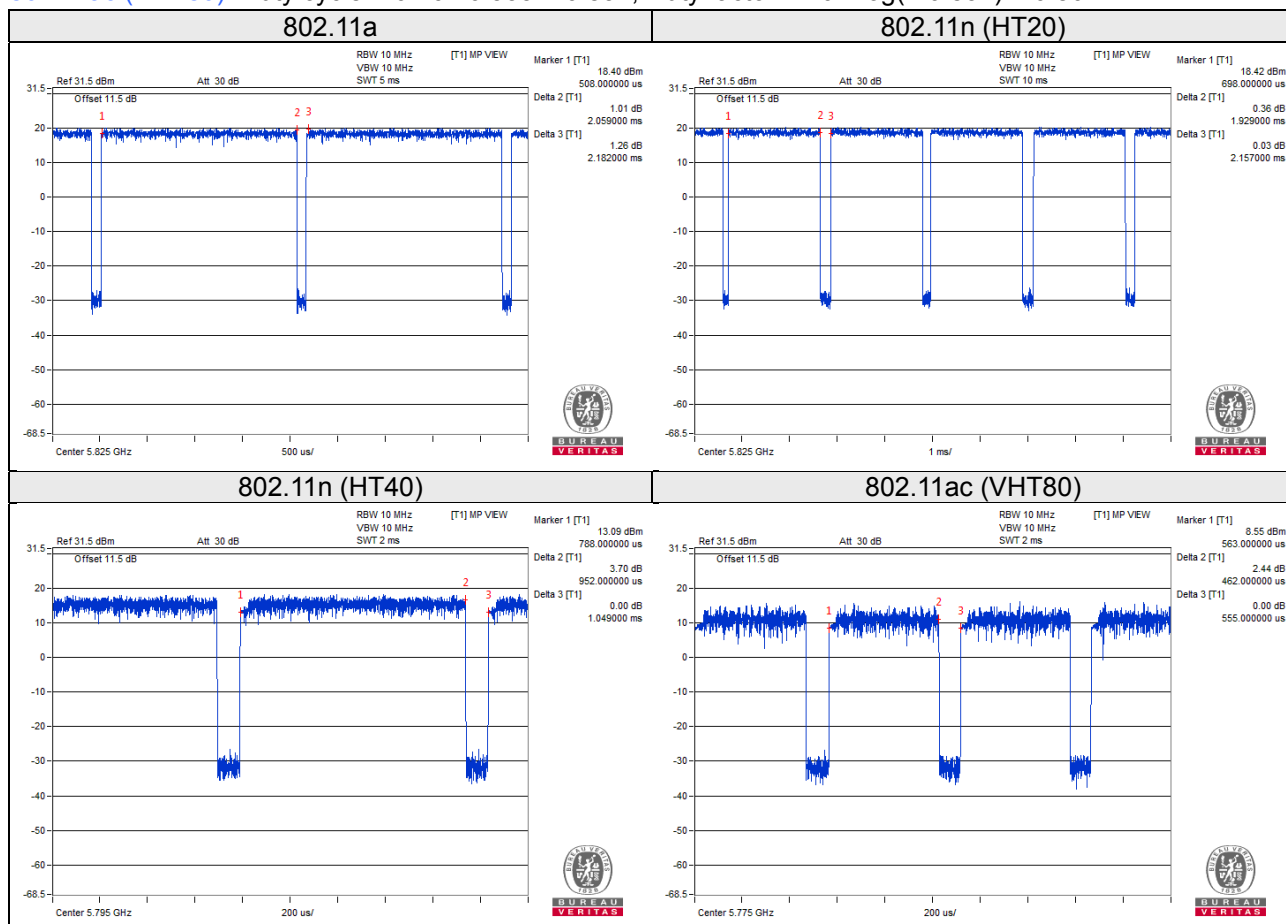
Duty cycle of test signal is $< 98\%$, duty factor shall be considered.

802.11a: Duty cycle = $2.059/2.182 = 0.944$, Duty factor = $10 * \log(1/0.944) = 0.25$

802.11n (HT20): Duty cycle = $1.929/2.157 = 0.894$, Duty factor = $10 * \log(1/0.894) = 0.49$

802.11n (HT40): Duty cycle = $0.952/1.049 = 0.908$, Duty factor = $10 * \log(1/0.908) = 0.42$

802.11ac (VHT80): Duty cycle = $0.462/0.555 = 0.832$, Duty factor = $10 * \log(1/0.832) = 0.80$



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.	Power Supply	acpower	ADC-48-20A	802001	NA	-

Note:

1. 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.	Power cable	1	1.8	N	0	-

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

3.4.1 Configuration of System under Test

Test Mode A, B



Test Mode C, D



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 v02r01

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 v02r01			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	☒	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}
	☐	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:

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

4.1.2 Test Instruments

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. 11, 2017	Dec. 10, 2018
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-1169	Dec. 12, 2017	Dec. 11, 2018
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170241	Dec. 01, 2017	Nov. 30, 2018
Loop Antenna EMCI	EM-6879	269	Aug. 11, 2017	Aug. 10, 2018
Preamplifier Agilent (Below 1GHz)	8447D	2944A10638	Aug. 08, 2017	Aug. 07, 2018
Preamplifier Agilent (Above 1GHz)	8449B	3008A01922	Sep. 15, 2017	Sep. 14, 2018
RF signal cable HUBER+SUHNER&EMCI	SUCOFLEX 104 & EMC104-SM-SM8000	CABLE-CH9-02 (248780+171006)	Jan. 15, 2018	Jan. 14, 2019
RF signal cable HUBER+SUHNER	SUCOFLEX 104	CABLE-CH9-(250795/ 4)	Aug. 08, 2017	Aug. 07, 2018
RF signal cable Woken	8D-FB	Cable-CH9-01	Aug. 01, 2017	Jul. 31, 2018
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	NA	NA	NA
Antenna Tower EMCO	2070/2080	512.835.4684	NA	NA
Turn Table EMCO	2087-2.03	NA	NA	NA
Antenna Tower & Turn BV ADT	AT100	AT93021705	NA	NA
Turn Table BV ADT	TT100	TT93021705	NA	NA
Turn Table Controller BV ADT	SC100	SC93021705	NA	NA
26GHz ~ 40GHz Amplifier Agilent	8449B	3008A1960	Aug. 08, 2017	Aug. 07, 2018
High Speed Peak Power Meter	ML2495A	0824012	Aug. 18, 2017	Aug. 17, 2018
Power Sensor	MA2411B	0738171	Aug. 18, 2017	Aug. 17, 2018
AC Power Source eecextech	6905S	1991553	NA	NA
Digital Power Meter yokogawa	WT310	C2PK22022V	Dec. 16, 2016 Dec. 15, 2017	Dec. 15, 2017 Dec. 14, 2018
Temperature & Humidity Chamber TERCHY	HRM-120RF	931022	Nov. 20, 2017	Nov. 19, 2018

- 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 FCC Designation Number is TW0003. The number will be varied with the Lab location and scope as attached.
 4. 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:

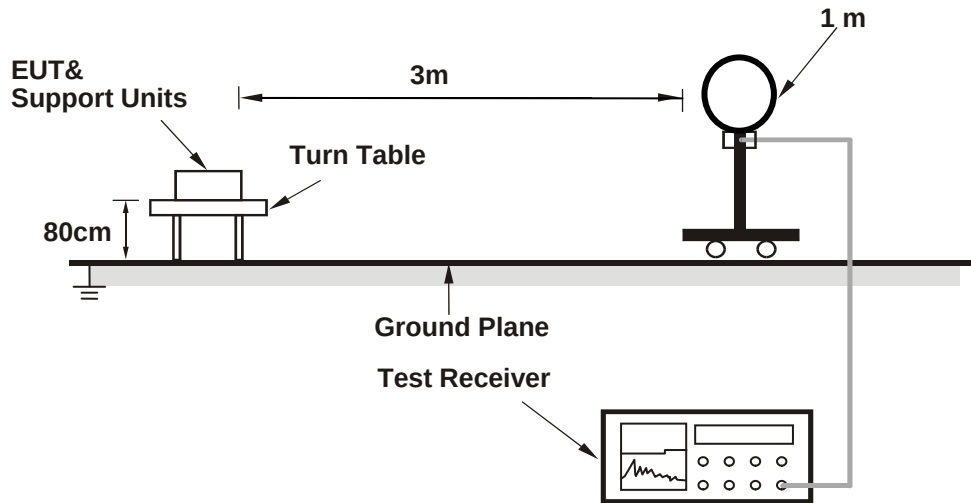
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.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

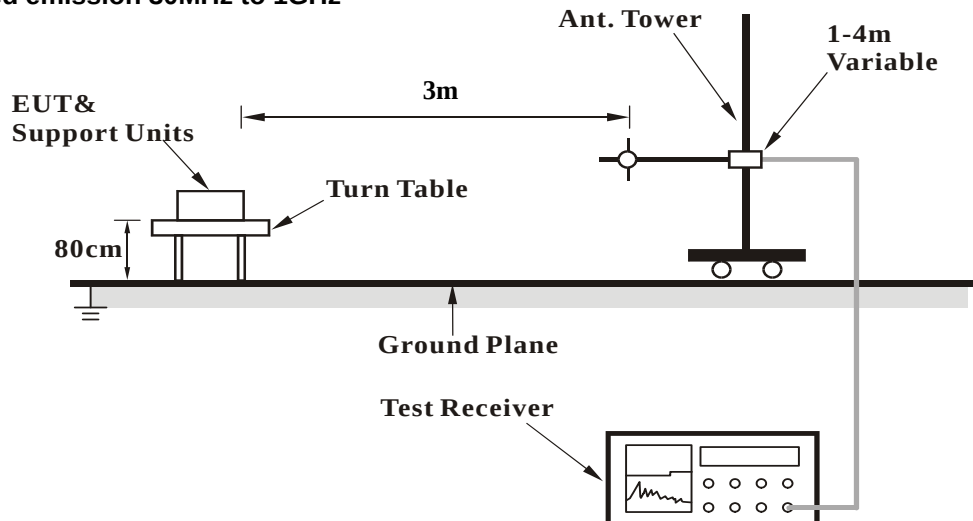
No deviation.

4.1.5 Test Set Up

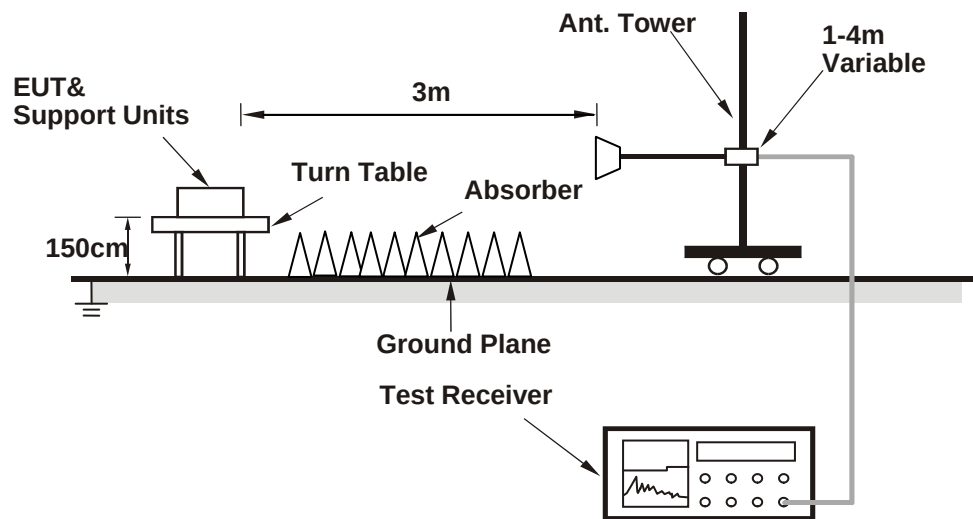
For Radiated emission below 30MHz



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

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

4.1.7 Test Results

Above 1GHz data:

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	55.7 PK	74.0	-18.3	1.70 H	185	51.8	3.9
2	5150.00	43.6 AV	54.0	-10.4	1.70 H	185	39.7	3.9
3	*5180.00	103.8 PK			1.75 H	198	63.1	40.7
4	*5180.00	93.5 AV			1.75 H	198	52.8	40.7
5	#10360.00	59.8 PK	74.0	-14.2	1.68 H	111	44.3	15.5
6	#10360.00	46.2 AV	54.0	-7.8	1.68 H	111	30.7	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	5150.00	56.4 PK	74.0	-17.6	1.94 V	197	52.5	3.9
2	5150.00	43.5 AV	54.0	-10.5	1.94 V	197	39.6	3.9
3	*5180.00	105.0 PK			1.87 V	194	64.3	40.7
4	*5180.00	95.2 AV			1.87 V	194	54.5	40.7
5	#10360.00	59.6 PK	74.0	-14.4	1.95 V	164	44.1	15.5
6	#10360.00	45.9 AV	54.0	-8.1	1.95 V	164	30.4	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			1.91 H	157	64.1	40.8
2	*5200.00	95.2 AV			1.91 H	157	54.4	40.8
3	#10400.00	58.8 PK	74.0	-15.2	1.94 H	288	43.3	15.5
4	#10400.00	45.4 AV	54.0	-8.6	1.94 H	288	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	*5200.00	106.3 PK			1.89 V	193	65.5	40.8
2	*5200.00	96.9 AV			1.89 V	193	56.1	40.8
3	#10400.00	58.8 PK	74.0	-15.2	2.46 V	293	43.3	15.5
4	#10400.00	45.3 AV	54.0	-8.7	2.46 V	293	29.8	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	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	*5240.00	105.5 PK			2.05 H	158	64.7	40.8
2	*5240.00	95.8 AV			2.05 H	158	55.0	40.8
3	5350.00	55.7 PK	74.0	-18.3	2.41 H	155	51.3	4.4
4	5350.00	42.9 AV	54.0	-11.1	2.41 H	155	38.5	4.4
5	#10480.00	57.3 PK	74.0	-16.7	2.46 H	118	42.2	15.1
6	#10480.00	44.4 AV	54.0	-9.6	2.46 H	118	29.3	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	108.3 PK			1.97 V	201	67.5	40.8
2	*5240.00	98.7 AV			1.97 V	201	57.9	40.8
3	5350.00	56.8 PK	74.0	-17.2	1.90 V	214	52.4	4.4
4	5350.00	43.2 AV	54.0	-10.8	1.90 V	214	38.8	4.4
5	#10480.00	58.0 PK	74.0	-16.0	2.21 V	341	42.9	15.1
6	#10480.00	44.2 AV	54.0	-9.8	2.21 V	341	29.1	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	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	5150.00	55.0 PK	74.0	-19.0	1.55 H	187	51.1	3.9
2	5150.00	43.3 AV	54.0	-10.7	1.55 H	187	39.4	3.9
3	*5260.00	104.3 PK			1.47 H	194	63.4	40.9
4	*5260.00	94.1 AV			1.47 H	194	53.2	40.9
5	#10520.00	57.3 PK	74.0	-16.7	2.03 H	152	42.1	15.2
6	#10520.00	45.0 AV	54.0	-9.0	2.03 H	152	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	55.6 PK	74.0	-18.4	1.21 V	154	51.7	3.9
2	5150.00	43.7 AV	54.0	-10.3	1.21 V	154	39.8	3.9
3	*5260.00	106.7 PK			1.00 V	200	65.8	40.9
4	*5260.00	96.5 AV			1.00 V	200	55.6	40.9
5	#10520.00	58.5 PK	74.0	-15.5	2.35 V	142	43.3	15.2
6	#10520.00	45.8 AV	54.0	-8.2	2.35 V	142	30.6	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	102.3 PK			1.22 H	195	61.3	41.0
2	*5300.00	92.2 AV			1.22 H	195	51.2	41.0
3	10600.00	57.8 PK	74.0	-16.2	1.21 H	358	41.7	16.1
4	10600.00	45.5 AV	54.0	-8.5	1.21 H	358	29.4	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	106.1 PK			1.58 V	208	65.1	41.0
2	*5300.00	95.8 AV			1.58 V	208	54.8	41.0
3	10600.00	59.6 PK	74.0	-14.4	1.97 V	253	43.5	16.1
4	10600.00	46.5 AV	54.0	-7.5	1.97 V	253	30.4	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.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 64	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	*5320.00	103.8 PK			1.46 H	198	62.8	41.0
2	*5320.00	93.6 AV			1.46 H	198	52.6	41.0
3	5350.00	55.8 PK	74.0	-18.2	1.57 H	211	51.4	4.4
4	5350.00	43.5 AV	54.0	-10.5	1.57 H	211	39.1	4.4
5	10640.00	58.1 PK	74.0	-15.9	3.12 H	244	42.1	16.0
6	10640.00	45.6 AV	54.0	-8.4	3.12 H	244	29.6	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	107.7 PK			1.55 V	199	66.7	41.0
2	*5320.00	97.5 AV			1.55 V	199	56.5	41.0
3	5350.00	55.5 PK	74.0	-18.5	1.40 V	179	51.1	4.4
4	5350.00	44.3 AV	54.0	-9.7	1.40 V	179	39.9	4.4
5	10640.00	59.6 PK	74.0	-14.4	1.42 V	207	43.6	16.0
6	10640.00	46.7 AV	54.0	-7.3	1.42 V	207	30.7	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 100	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	5460.00	57.1 PK	74.0	-16.9	1.80 H	161	52.7	4.4
2	5460.00	43.2 AV	54.0	-10.8	1.80 H	161	38.8	4.4
3	#5470.00	57.1 PK	74.0	-16.9	1.84 H	153	52.6	4.5
4	#5470.00	44.5 AV	54.0	-9.5	1.84 H	153	40.0	4.5
5	*5500.00	104.4 PK			1.83 H	157	63.1	41.3
6	*5500.00	94.9 AV			1.83 H	157	53.6	41.3
7	11000.00	59.4 PK	74.0	-14.6	1.98 H	136	41.9	17.5
8	11000.00	46.2 AV	54.0	-7.8	1.98 H	136	28.7	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	5460.00	58.1 PK	74.0	-15.9	1.62 V	211	53.7	4.4
2	5460.00	43.3 AV	54.0	-10.7	1.62 V	211	38.9	4.4
3	#5470.00	58.6 PK	74.0	-15.4	1.68 V	204	54.1	4.5
4	#5470.00	44.5 AV	54.0	-9.5	1.68 V	204	40.0	4.5
5	*5500.00	108.2 PK			1.65 V	208	66.9	41.3
6	*5500.00	98.4 AV			1.65 V	208	57.1	41.3
7	11000.00	59.4 PK	74.0	-14.6	2.11 V	169	41.9	17.5
8	11000.00	46.3 AV	54.0	-7.7	2.11 V	169	28.8	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	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	*5580.00	104.6 PK			1.73 H	154	63.1	41.5
2	*5580.00	95.0 AV			1.73 H	154	53.5	41.5
3	11160.00	58.3 PK	74.0	-15.7	3.32 H	160	41.9	16.4
4	11160.00	45.6 AV	54.0	-8.4	3.32 H	160	29.2	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	108.5 PK			1.61 V	208	67.0	41.5
2	*5580.00	98.6 AV			1.61 V	208	57.1	41.5
3	11160.00	59.5 PK	74.0	-14.5	2.40 V	197	43.1	16.4
4	11160.00	45.6 AV	54.0	-8.4	2.40 V	197	29.2	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.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 120	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	1.47 H	150	51.4	4.3
2	5460.00	43.1 AV	54.0	-10.9	1.47 H	150	38.8	4.3
3	#5470.00	56.6 PK	74.0	-17.4	1.44 H	155	52.2	4.4
4	#5470.00	43.0 AV	54.0	-11.0	1.44 H	155	38.6	4.4
5	*5600.00	107.4 PK			1.48 H	157	65.9	41.5
6	*5600.00	97.3 AV			1.48 H	157	55.8	41.5
7	#5725.00	56.2 PK	74.0	-17.8	1.85 H	162	51.3	4.9
8	#5725.00	43.6 AV	54.0	-10.4	1.85 H	162	38.7	4.9
9	11200.00	55.3 PK	74.0	-18.7	2.85 H	109	39.5	15.8
10	11200.00	42.8 AV	54.0	-11.2	2.85 H	109	27.0	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	5460.00	56.6 PK	74.0	-17.4	1.41 V	188	52.3	4.3
2	5460.00	43.1 AV	54.0	-10.9	1.41 V	188	38.8	4.3
3	#5470.00	56.5 PK	74.0	-17.5	1.34 V	181	52.1	4.4
4	#5470.00	43.3 AV	54.0	-10.7	1.34 V	181	38.9	4.4
5	*5600.00	109.2 PK			1.37 V	176	67.7	41.5
6	*5600.00	99.2 AV			1.37 V	176	57.7	41.5
7	#5725.00	56.4 PK	74.0	-17.6	1.45 V	168	51.5	4.9
8	#5725.00	43.6 AV	54.0	-10.4	1.45 V	168	38.7	4.9
9	11200.00	56.4 PK	74.0	-17.6	2.40 V	199	40.6	15.8
10	11200.00	43.1 AV	54.0	-10.9	2.40 V	199	27.3	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.

CHANNEL	TX Channel 124	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	57.5 PK	74.0	-16.5	1.49 H	157	53.2	4.3
2	5460.00	42.8 AV	54.0	-11.2	1.49 H	157	38.5	4.3
3	#5470.00	57.4 PK	74.0	-16.6	1.38 H	152	53.0	4.4
4	#5470.00	43.3 AV	54.0	-10.7	1.38 H	152	38.9	4.4
5	*5620.00	105.9 PK			1.42 H	156	64.4	41.5
6	*5620.00	96.7 AV			1.42 H	156	55.2	41.5
7	#5725.00	56.5 PK	74.0	-17.5	1.56 H	154	51.6	4.9
8	#5725.00	43.5 AV	54.0	-10.5	1.56 H	154	38.6	4.9
9	11240.00	57.3 PK	74.0	-16.7	1.65 H	276	41.3	16.0
10	11240.00	44.3 AV	54.0	-9.7	1.65 H	276	28.3	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	5460.00	56.2 PK	74.0	-17.8	1.40 V	178	51.9	4.3
2	5460.00	43.1 AV	54.0	-10.9	1.40 V	178	38.8	4.3
3	#5470.00	56.3 PK	74.0	-17.7	1.64 V	182	51.9	4.4
4	#5470.00	43.2 AV	54.0	-10.8	1.64 V	182	38.8	4.4
5	*5620.00	109.4 PK			1.35 V	177	67.9	41.5
6	*5620.00	99.2 AV			1.35 V	177	57.7	41.5
7	#5725.00	57.5 PK	74.0	-16.5	1.44 V	165	52.6	4.9
8	#5725.00	43.8 AV	54.0	-10.2	1.44 V	165	38.9	4.9
9	11240.00	57.6 PK	74.0	-16.4	3.02 V	50	41.6	16.0
10	11240.00	43.7 AV	54.0	-10.3	3.02 V	50	27.7	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 128	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	57.2 PK	74.0	-16.8	1.84 H	192	54.0	3.2
2	5460.00	42.5 AV	54.0	-11.5	1.84 H	192	39.3	3.2
3	#5470.00	56.8 PK	74.0	-17.2	1.79 H	188	53.6	3.2
4	#5470.00	42.6 AV	54.0	-11.4	1.79 H	188	39.4	3.2
5	*5640.00	105.8 PK			1.55 H	172	64.1	41.7
6	*5640.00	96.4 AV			1.55 H	172	54.7	41.7
7	#5725.00	55.7 PK	74.0	-18.3	1.47 H	164	52.0	3.7
8	#5725.00	42.9 AV	54.0	-11.1	1.47 H	164	39.2	3.7
9	11280.00	56.9 PK	74.0	-17.1	2.19 H	44	41.0	15.9
10	11280.00	43.8 AV	54.0	-10.2	2.19 H	44	27.9	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	5460.00	55.4 PK	74.0	-18.6	1.56 V	179	52.2	3.2
2	5460.00	42.1 AV	54.0	-11.9	1.56 V	179	38.9	3.2
3	#5470.00	55.7 PK	74.0	-18.3	1.62 V	177	52.5	3.2
4	#5470.00	42.3 AV	54.0	-11.7	1.62 V	177	39.1	3.2
5	*5640.00	108.8 PK			1.48 V	173	67.1	41.7
6	*5640.00	98.9 AV			1.48 V	173	57.2	41.7
7	#5725.00	56.6 PK	74.0	-17.4	1.39 V	168	52.9	3.7
8	#5725.00	43.2 AV	54.0	-10.8	1.39 V	168	39.5	3.7
9	11280.00	57.2 PK	74.0	-16.8	3.01 V	117	41.3	15.9
10	11280.00	43.8 AV	54.0	-10.2	3.01 V	117	27.9	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 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	104.9 PK			1.55 H	155	63.3	41.6
2	*5700.00	94.8 AV			1.55 H	155	53.2	41.6
3	#5725.00	56.9 PK	74.0	-17.1	1.50 H	143	52.1	4.8
4	#5725.00	43.7 AV	54.0	-10.3	1.50 H	143	38.9	4.8
5	11400.00	59.9 PK	74.0	-14.1	1.40 H	100	43.7	16.2
6	11400.00	46.6 AV	54.0	-7.4	1.40 H	100	30.4	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	106.6 PK			1.62 V	202	65.0	41.6
2	*5700.00	96.9 AV			1.62 V	202	55.3	41.6
3	#5725.00	57.9 PK	74.0	-16.1	1.65 V	198	53.1	4.8
4	#5725.00	44.1 AV	54.0	-9.9	1.65 V	198	39.3	4.8
5	11400.00	59.5 PK	74.0	-14.5	3.68 V	227	43.3	16.2
6	11400.00	46.6 AV	54.0	-7.4	3.68 V	227	30.4	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 144	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	55.3 PK	74.0	-18.7	1.44 H	160	51.0	4.3
2	5460.00	42.9 AV	54.0	-11.1	1.44 H	160	38.6	4.3
3	#5470.00	55.9 PK	74.0	-18.1	1.46 H	157	51.5	4.4
4	#5470.00	43.1 AV	54.0	-10.9	1.46 H	157	38.7	4.4
5	*5720.00	104.8 PK			1.40 H	156	63.2	41.6
6	*5720.00	94.7 AV			1.40 H	156	53.1	41.6
7	#5850.00	56.9 PK	74.0	-17.1	1.60 H	123	51.6	5.3
8	#5850.00	43.8 AV	54.0	-10.2	1.60 H	123	38.5	5.3
9	11440.00	56.7 PK	74.0	-17.3	1.28 H	260	40.7	16.0
10	11440.00	44.2 AV	54.0	-9.8	1.28 H	260	28.2	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	5460.00	56.7 PK	74.0	-17.3	1.44 V	184	52.4	4.3
2	5460.00	42.9 AV	54.0	-11.1	1.44 V	184	38.6	4.3
3	#5470.00	55.9 PK	74.0	-18.1	1.42 V	169	51.5	4.4
4	#5470.00	43.2 AV	54.0	-10.8	1.42 V	169	38.8	4.4
5	*5720.00	107.3 PK			1.25 V	178	65.7	41.6
6	*5720.00	97.3 AV			1.25 V	178	55.7	41.6
7	#5850.00	58.0 PK	74.0	-16.0	1.28 V	164	52.7	5.3
8	#5850.00	43.9 AV	54.0	-10.1	1.28 V	164	38.6	5.3
9	11440.00	57.8 PK	74.0	-16.2	2.87 V	129	41.8	16.0
10	11440.00	43.2 AV	54.0	-10.8	2.87 V	129	27.2	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.
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	#5608.00	56.6 PK	68.2	-11.6	1.94 H	157	51.8	4.8
2	*5745.00	103.4 PK			1.94 H	157	61.9	41.5
3	*5745.00	93.3 AV			1.94 H	157	51.8	41.5
4	#5949.60	57.3 PK	68.2	-10.9	1.94 H	157	52.4	4.9
5	11490.00	57.6 PK	74.0	-16.4	2.74 H	137	41.6	16.0
6	11490.00	45.3 AV	54.0	-8.7	2.74 H	137	29.3	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	#5604.80	57.4 PK	68.2	-10.8	1.60 V	156	52.6	4.8
2	*5745.00	106.3 PK			1.60 V	156	64.8	41.5
3	*5745.00	96.2 AV			1.60 V	156	54.7	41.5
4	#5988.00	57.3 PK	68.2	-10.9	1.60 V	156	52.5	4.8
5	11490.00	59.2 PK	74.0	-14.8	1.68 V	179	43.2	16.0
6	11490.00	46.6 AV	54.0	-7.4	1.68 V	179	30.6	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	#5620.00	56.7 PK	68.2	-11.5	1.87 H	157	51.9	4.8
2	*5785.00	103.2 PK			1.87 H	157	61.7	41.5
3	*5785.00	93.1 AV			1.87 H	157	51.6	41.5
4	#5948.80	57.8 PK	68.2	-10.4	1.87 H	157	53.0	4.8
5	11570.00	57.5 PK	74.0	-16.5	1.17 H	206	41.8	15.7
6	11570.00	45.5 AV	54.0	-8.5	1.17 H	206	29.8	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	#5620.80	56.9 PK	68.2	-11.3	1.61 V	163	52.1	4.8
2	*5785.00	105.9 PK			1.61 V	163	64.4	41.5
3	*5785.00	95.7 AV			1.61 V	163	54.2	41.5
4	#5986.40	57.6 PK	68.2	-10.6	1.61 V	163	52.8	4.8
5	11570.00	58.8 PK	74.0	-15.2	2.46 V	305	43.1	15.7
6	11570.00	46.3 AV	54.0	-7.7	2.46 V	305	30.6	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	#5604.80	57.5 PK	68.2	-10.7	1.96 H	156	52.7	4.8
2	*5825.00	102.6 PK			1.96 H	156	61.0	41.6
3	*5825.00	92.4 AV			1.96 H	156	50.8	41.6
4	#5980.00	57.3 PK	68.2	-10.9	1.96 H	156	52.5	4.8
5	11650.00	57.9 PK	74.0	-16.1	3.12 H	209	42.3	15.6
6	11650.00	45.2 AV	54.0	-8.8	3.12 H	209	29.6	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	#5633.60	58.5 PK	68.2	-9.7	1.71 V	159	53.8	4.7
2	*5825.00	105.2 PK			1.71 V	159	63.6	41.6
3	*5825.00	95.0 AV			1.71 V	159	53.4	41.6
4	#5994.40	57.4 PK	68.2	-10.8	1.71 V	159	52.6	4.8
5	11650.00	58.5 PK	74.0	-15.5	2.73 V	199	42.9	15.6
6	11650.00	45.9 AV	54.0	-8.1	2.73 V	199	30.3	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	58.5 PK	74.0	-15.5	2.20 H	168	54.6	3.9
2	5150.00	43.3 AV	54.0	-10.7	2.20 H	168	39.4	3.9
3	*5180.00	104.5 PK			2.32 H	162	63.8	40.7
4	*5180.00	94.2 AV			2.32 H	162	53.5	40.7
5	#10360.00	58.8 PK	74.0	-15.2	1.80 H	162	43.3	15.5
6	#10360.00	45.6 AV	54.0	-8.4	1.80 H	162	30.1	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	56.1 PK	74.0	-17.9	2.01 V	189	52.2	3.9
2	5150.00	43.2 AV	54.0	-10.8	2.01 V	189	39.3	3.9
3	*5180.00	104.6 PK			2.06 V	200	63.9	40.7
4	*5180.00	94.8 AV			2.06 V	200	54.1	40.7
5	#10360.00	58.1 PK	74.0	-15.9	2.40 V	176	42.6	15.5
6	#10360.00	45.1 AV	54.0	-8.9	2.40 V	176	29.6	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.

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	105.6 PK			2.31 H	161	64.8	40.8
2	*5200.00	95.1 AV			2.31 H	161	54.3	40.8
3	#10400.00	58.6 PK	74.0	-15.4	2.43 H	186	43.1	15.5
4	#10400.00	45.5 AV	54.0	-8.5	2.43 H	186	30.0	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	107.1 PK			2.19 V	202	66.3	40.8
2	*5200.00	96.7 AV			2.19 V	202	55.9	40.8
3	#10400.00	59.3 PK	74.0	-14.7	1.62 V	284	43.8	15.5
4	#10400.00	45.4 AV	54.0	-8.6	1.62 V	284	29.9	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 48	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	*5240.00	106.1 PK			2.29 H	162	65.3	40.8
2	*5240.00	96.1 AV			2.29 H	162	55.3	40.8
3	5350.00	55.8 PK	74.0	-18.2	2.34 H	165	51.4	4.4
4	5350.00	42.7 AV	54.0	-11.3	2.34 H	165	38.3	4.4
5	#10480.00	57.5 PK	74.0	-16.5	2.47 H	328	42.4	15.1
6	#10480.00	44.7 AV	54.0	-9.3	2.47 H	328	29.6	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	106.8 PK			2.28 V	204	66.0	40.8
2	*5240.00	96.5 AV			2.28 V	204	55.7	40.8
3	5350.00	55.7 PK	74.0	-18.3	2.31 V	197	51.3	4.4
4	5350.00	43.5 AV	54.0	-10.5	2.31 V	197	39.1	4.4
5	#10480.00	58.0 PK	74.0	-16.0	3.54 V	108	42.9	15.1
6	#10480.00	44.5 AV	54.0	-9.5	3.54 V	108	29.4	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	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	5150.00	55.5 PK	74.0	-18.5	1.44 H	180	51.6	3.9
2	5150.00	43.3 AV	54.0	-10.7	1.44 H	180	39.4	3.9
3	*5260.00	103.2 PK			1.31 H	195	62.3	40.9
4	*5260.00	93.1 AV			1.31 H	195	52.2	40.9
5	#10520.00	57.3 PK	74.0	-16.7	3.47 H	195	42.1	15.2
6	#10520.00	44.7 AV	54.0	-9.3	3.47 H	195	29.5	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	55.5 PK	74.0	-18.5	1.60 V	209	51.6	3.9
2	5150.00	43.7 AV	54.0	-10.3	1.60 V	209	39.8	3.9
3	*5260.00	107.3 PK			1.42 V	187	66.4	40.9
4	*5260.00	97.2 AV			1.42 V	187	56.3	40.9
5	#10520.00	58.6 PK	74.0	-15.4	2.13 V	154	43.4	15.2
6	#10520.00	45.8 AV	54.0	-8.2	2.13 V	154	30.6	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	102.2 PK			1.48 H	195	61.2	41.0
2	*5300.00	92.1 AV			1.48 H	195	51.1	41.0
3	10600.00	59.2 PK	74.0	-14.8	1.92 H	201	43.1	16.1
4	10600.00	46.5 AV	54.0	-7.5	1.92 H	201	30.4	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	106.2 PK			1.52 V	196	65.2	41.0
2	*5300.00	96.1 AV			1.52 V	196	55.1	41.0
3	10600.00	59.3 PK	74.0	-14.7	2.31 V	117	43.2	16.1
4	10600.00	46.5 AV	54.0	-7.5	2.31 V	117	30.4	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.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 64	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	*5320.00	101.6 PK			1.45 H	199	60.6	41.0
2	*5320.00	91.5 AV			1.45 H	199	50.5	41.0
3	5350.00	55.8 PK	74.0	-18.2	1.59 H	163	51.4	4.4
4	5350.00	43.6 AV	54.0	-10.4	1.59 H	163	39.2	4.4
5	10640.00	59.3 PK	74.0	-14.7	1.77 H	213	43.3	16.0
6	10640.00	46.7 AV	54.0	-7.3	1.77 H	213	30.7	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	*5320.00	105.6 PK			1.81 V	197	64.6	41.0
2	*5320.00	95.3 AV			1.81 V	197	54.3	41.0
3	5350.00	56.3 PK	74.0	-17.7	1.59 V	178	51.9	4.4
4	5350.00	44.1 AV	54.0	-9.9	1.59 V	178	39.7	4.4
5	10640.00	59.1 PK	74.0	-14.9	3.01 V	246	43.1	16.0
6	10640.00	46.6 AV	54.0	-7.4	3.01 V	246	30.6	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 100	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	5460.00	57.3 PK	74.0	-16.7	1.57 H	150	52.9	4.4
2	5460.00	43.0 AV	54.0	-11.0	1.57 H	150	38.6	4.4
3	#5470.00	57.7 PK	74.0	-16.3	1.55 H	146	53.2	4.5
4	#5470.00	43.9 AV	54.0	-10.1	1.55 H	146	39.4	4.5
5	*5500.00	104.8 PK			1.51 H	154	63.5	41.3
6	*5500.00	94.6 AV			1.51 H	154	53.3	41.3
7	11000.00	59.5 PK	74.0	-14.5	2.48 H	344	42.0	17.5
8	11000.00	46.0 AV	54.0	-8.0	2.48 H	344	28.5	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	57.5 PK	74.0	-16.5	1.77 V	206	53.1	4.4
2	5460.00	43.6 AV	54.0	-10.4	1.77 V	206	39.2	4.4
3	#5470.00	59.8 PK	74.0	-14.2	1.71 V	204	55.3	4.5
4	#5470.00	44.4 AV	54.0	-9.6	1.71 V	204	39.9	4.5
5	*5500.00	108.2 PK			1.75 V	208	66.9	41.3
6	*5500.00	97.6 AV			1.75 V	208	56.3	41.3
7	11000.00	59.1 PK	74.0	-14.9	3.00 V	163	41.6	17.5
8	11000.00	45.9 AV	54.0	-8.1	3.00 V	163	28.4	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	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	*5580.00	104.8 PK			1.66 H	155	63.3	41.5
2	*5580.00	94.7 AV			1.66 H	155	53.2	41.5
3	11160.00	58.6 PK	74.0	-15.4	2.49 H	106	42.2	16.4
4	11160.00	45.5 AV	54.0	-8.5	2.49 H	106	29.1	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	107.8 PK			1.67 V	208	66.3	41.5
2	*5580.00	98.0 AV			1.67 V	208	56.5	41.5
3	11160.00	58.6 PK	74.0	-15.4	2.80 V	104	42.2	16.4
4	11160.00	45.7 AV	54.0	-8.3	2.80 V	104	29.3	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.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 120	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	56.3 PK	74.0	-17.7	1.54 H	165	52.0	4.3
2	5460.00	42.9 AV	54.0	-11.1	1.54 H	165	38.6	4.3
3	#5470.00	56.6 PK	74.0	-17.4	1.34 H	150	52.2	4.4
4	#5470.00	42.9 AV	54.0	-11.1	1.34 H	150	38.5	4.4
5	*5600.00	106.3 PK			1.41 H	154	64.8	41.5
6	*5600.00	96.2 AV			1.41 H	154	54.7	41.5
7	#5725.00	56.7 PK	74.0	-17.3	1.40 H	162	51.8	4.9
8	#5725.00	43.5 AV	54.0	-10.5	1.40 H	162	38.6	4.9
9	11200.00	57.2 PK	74.0	-16.8	2.56 H	128	41.4	15.8
10	11200.00	43.8 AV	54.0	-10.2	2.56 H	128	28.0	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	5460.00	55.8 PK	74.0	-18.2	1.41 V	177	51.5	4.3
2	5460.00	43.1 AV	54.0	-10.9	1.41 V	177	38.8	4.3
3	#5470.00	56.4 PK	74.0	-17.6	1.30 V	165	52.0	4.4
4	#5470.00	43.2 AV	54.0	-10.8	1.30 V	165	38.8	4.4
5	*5600.00	108.1 PK			1.37 V	177	66.6	41.5
6	*5600.00	97.6 AV			1.37 V	177	56.1	41.5
7	#5725.00	57.0 PK	74.0	-17.0	1.45 V	176	52.1	4.9
8	#5725.00	43.6 AV	54.0	-10.4	1.45 V	176	38.7	4.9
9	11200.00	56.5 PK	74.0	-17.5	3.31 V	195	40.7	15.8
10	11200.00	43.4 AV	54.0	-10.6	3.31 V	195	27.6	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.

CHANNEL	TX Channel 124	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	55.9 PK	74.0	-18.1	1.40 H	158	51.6	4.3
2	5460.00	43.1 AV	54.0	-10.9	1.40 H	158	38.8	4.3
3	#5470.00	56.6 PK	74.0	-17.4	1.33 H	142	52.2	4.4
4	#5470.00	43.0 AV	54.0	-11.0	1.33 H	142	38.6	4.4
5	*5620.00	106.6 PK			1.37 H	155	65.1	41.5
6	*5620.00	96.2 AV			1.37 H	155	54.7	41.5
7	#5725.00	56.7 PK	74.0	-17.3	1.38 H	162	51.8	4.9
8	#5725.00	43.4 AV	54.0	-10.6	1.38 H	162	38.5	4.9
9	11240.00	56.9 PK	74.0	-17.1	1.58 H	243	40.9	16.0
10	11240.00	44.1 AV	54.0	-9.9	1.58 H	243	28.1	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	5460.00	56.3 PK	74.0	-17.7	2.46 V	195	52.0	4.3
2	5460.00	43.0 AV	54.0	-11.0	2.46 V	195	38.7	4.3
3	#5470.00	56.6 PK	74.0	-17.4	1.33 V	185	52.2	4.4
4	#5470.00	43.0 AV	54.0	-11.0	1.33 V	185	38.6	4.4
5	*5620.00	108.2 PK			1.36 V	175	66.7	41.5
6	*5620.00	97.9 AV			1.36 V	175	56.4	41.5
7	#5725.00	56.4 PK	74.0	-17.6	1.34 V	172	51.5	4.9
8	#5725.00	43.5 AV	54.0	-10.5	1.34 V	172	38.6	4.9
9	11240.00	57.2 PK	74.0	-16.8	2.65 V	142	41.2	16.0
10	11240.00	44.1 AV	54.0	-9.9	2.65 V	142	28.1	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 128	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	57.1 PK	74.0	-16.9	1.52 H	163	53.9	3.2
2	5460.00	42.4 AV	54.0	-11.6	1.52 H	163	39.2	3.2
3	#5470.00	56.9 PK	74.0	-17.1	1.39 H	145	53.7	3.2
4	#5470.00	42.8 AV	54.0	-11.2	1.39 H	145	39.6	3.2
5	*5640.00	105.7 PK			1.49 H	163	64.0	41.7
6	*5640.00	96.5 AV			1.49 H	163	54.8	41.7
7	#5725.00	56.1 PK	74.0	-17.9	1.48 H	159	52.4	3.7
8	#5725.00	43.1 AV	54.0	-10.9	1.48 H	159	39.4	3.7
9	11280.00	57.0 PK	74.0	-17.0	2.01 H	117	41.1	15.9
10	11280.00	44.1 AV	54.0	-9.9	2.01 H	117	28.2	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	5460.00	55.6 PK	74.0	-18.4	1.49 V	188	52.4	3.2
2	5460.00	42.4 AV	54.0	-11.6	1.49 V	188	39.2	3.2
3	#5470.00	56.0 PK	74.0	-18.0	1.55 V	175	52.8	3.2
4	#5470.00	42.8 AV	54.0	-11.2	1.55 V	175	39.6	3.2
5	*5640.00	109.2 PK			1.41 V	192	67.5	41.7
6	*5640.00	99.1 AV			1.41 V	192	57.4	41.7
7	#5725.00	56.7 PK	74.0	-17.3	1.35 V	149	53.0	3.7
8	#5725.00	43.3 AV	54.0	-10.7	1.35 V	149	39.6	3.7
9	11280.00	57.4 PK	74.0	-16.6	2.68 V	84	41.5	15.9
10	11280.00	43.6 AV	54.0	-10.4	2.68 V	84	27.7	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 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	104.7 PK			1.56 H	155	63.1	41.6
2	*5700.00	94.8 AV			1.56 H	155	53.2	41.6
3	#5725.00	56.9 PK	74.0	-17.1	1.52 H	163	52.1	4.8
4	#5725.00	44.3 AV	54.0	-9.7	1.52 H	163	39.5	4.8
5	11400.00	59.8 PK	74.0	-14.2	2.46 H	126	43.6	16.2
6	11400.00	46.5 AV	54.0	-7.5	2.46 H	126	30.3	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	107.3 PK			1.69 V	167	65.7	41.6
2	*5700.00	97.4 AV			1.69 V	167	55.8	41.6
3	#5725.00	59.9 PK	74.0	-14.1	1.61 V	180	55.1	4.8
4	#5725.00	43.6 AV	54.0	-10.4	1.61 V	180	38.8	4.8
5	11400.00	59.7 PK	74.0	-14.3	2.69 V	6	43.5	16.2
6	11400.00	46.5 AV	54.0	-7.5	2.69 V	6	30.3	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 144	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	5460.00	55.6 PK	74.0	-18.4	1.50 H	153	51.3	4.3
2	5460.00	42.7 AV	54.0	-11.3	1.50 H	153	38.4	4.3
3	#5470.00	56.0 PK	74.0	-18.0	1.44 H	157	51.6	4.4
4	#5470.00	43.1 AV	54.0	-10.9	1.44 H	157	38.7	4.4
5	*5720.00	104.2 PK			1.41 H	154	62.6	41.6
6	*5720.00	93.9 AV			1.41 H	154	52.3	41.6
7	#5850.00	56.6 PK	74.0	-17.4	1.44 H	160	51.3	5.3
8	#5850.00	44.1 AV	54.0	-9.9	1.44 H	160	38.8	5.3
9	11440.00	57.1 PK	74.0	-16.9	1.69 H	77	41.1	16.0
10	11440.00	44.0 AV	54.0	-10.0	1.69 H	77	28.0	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	5460.00	56.0 PK	74.0	-18.0	1.33 V	179	51.7	4.3
2	5460.00	42.9 AV	54.0	-11.1	1.33 V	179	38.6	4.3
3	#5470.00	55.8 PK	74.0	-18.2	1.33 V	178	51.4	4.4
4	#5470.00	43.2 AV	54.0	-10.8	1.33 V	178	38.8	4.4
5	*5720.00	107.7 PK			1.30 V	179	66.1	41.6
6	*5720.00	97.2 AV			1.30 V	179	55.6	41.6
7	#5850.00	56.9 PK	74.0	-17.1	1.34 V	181	51.6	5.3
8	#5850.00	43.9 AV	54.0	-10.1	1.34 V	181	38.6	5.3
9	11440.00	57.2 PK	74.0	-16.8	2.24 V	130	41.2	16.0
10	11440.00	44.1 AV	54.0	-9.9	2.24 V	130	28.1	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 149	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	#5640.80	57.2 PK	68.2	-11.0	2.10 H	156	52.5	4.7
2	*5745.00	102.6 PK			2.10 H	156	61.1	41.5
3	*5745.00	92.5 AV			2.10 H	156	51.0	41.5
4	#5987.20	57.1 PK	68.2	-11.1	2.10 H	156	52.3	4.8
5	11490.00	56.9 PK	74.0	-17.1	2.62 H	207	40.9	16.0
6	11490.00	45.8 AV	54.0	-8.2	2.62 H	207	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	#5608.80	57.0 PK	68.2	-11.2	1.23 V	150	52.2	4.8
2	*5745.00	105.4 PK			1.23 V	150	63.9	41.5
3	*5745.00	95.2 AV			1.23 V	150	53.7	41.5
4	#6000.00	57.3 PK	68.2	-10.9	1.23 V	150	52.5	4.8
5	11490.00	59.6 PK	74.0	-14.4	2.58 V	132	43.6	16.0
6	11490.00	46.6 AV	54.0	-7.4	2.58 V	132	30.6	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	#5617.60	56.9 PK	68.2	-11.3	2.03 H	157	52.1	4.8
2	*5785.00	103.1 PK			2.03 H	157	61.6	41.5
3	*5785.00	93.0 AV			2.03 H	157	51.5	41.5
4	#5999.20	57.6 PK	68.2	-10.6	2.03 H	157	52.8	4.8
5	11570.00	56.9 PK	74.0	-17.1	2.56 H	208	41.2	15.7
6	11570.00	45.4 AV	54.0	-8.6	2.56 H	208	29.7	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	#5600.80	56.8 PK	68.2	-11.4	1.39 V	151	52.0	4.8
2	*5785.00	105.6 PK			1.39 V	151	64.1	41.5
3	*5785.00	95.3 AV			1.39 V	151	53.8	41.5
4	#5950.40	56.9 PK	68.2	-11.3	1.39 V	151	52.1	4.8
5	11570.00	58.8 PK	74.0	-15.2	2.36 V	178	43.1	15.7
6	11570.00	46.5 AV	54.0	-7.5	2.36 V	178	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	#5616.80	57.0 PK	68.2	-11.2	2.04 H	158	52.2	4.8
2	*5825.00	65.4 PK			2.04 H	158	60.7	4.7
3	*5825.00	55.3 AV			2.04 H	158	50.6	4.7
4	#5982.40	57.5 PK	68.2	-10.7	2.04 H	158	52.7	4.8
5	11650.00	57.3 PK	74.0	-16.7	2.51 H	98	41.7	15.6
6	11650.00	45.4 AV	54.0	-8.6	2.51 H	98	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	#5646.40	57.3 PK	68.2	-10.9	1.30 V	184	52.6	4.7
2	*5825.00	104.9 PK			1.30 V	184	63.3	41.6
3	*5825.00	94.7 AV			1.30 V	184	53.1	41.6
4	#5933.60	57.4 PK	68.2	-10.8	1.30 V	184	52.6	4.8
5	11650.00	59.3 PK	74.0	-14.7	1.97 V	301	43.7	15.6
6	11650.00	46.0 AV	54.0	-8.0	1.97 V	301	30.4	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	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	5150.00	65.9 PK	74.0	-8.1	2.25 H	161	62.0	3.9
2	5150.00	52.5 AV	54.0	-1.5	2.25 H	161	48.6	3.9
3	*5190.00	102.2 PK			2.29 H	162	61.4	40.8
4	*5190.00	92.2 AV			2.29 H	162	51.4	40.8
5	#10380.00	58.1 PK	74.0	-15.9	2.33 H	136	42.5	15.6
6	#10380.00	45.4 AV	54.0	-8.6	2.33 H	136	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	67.1 PK	74.0	-6.9	2.43 V	197	63.2	3.9
2	5150.00	52.9 AV	54.0	-1.1	2.43 V	197	49.0	3.9
3	*5190.00	103.6 PK			2.40 V	201	62.8	40.8
4	*5190.00	93.8 AV			2.40 V	201	53.0	40.8
5	#10380.00	58.9 PK	74.0	-15.1	2.91 V	214	43.3	15.6
6	#10380.00	45.5 AV	54.0	-8.5	2.91 V	214	29.9	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	102.1 PK			1.83 H	200	61.3	40.8
2	*5230.00	92.2 AV			1.83 H	200	51.4	40.8
3	5350.00	55.4 PK	74.0	-18.6	1.84 H	202	51.0	4.4
4	5350.00	43.0 AV	54.0	-11.0	1.84 H	202	38.6	4.4
5	#10460.00	58.0 PK	74.0	-16.0	2.27 H	169	42.8	15.2
6	#10460.00	44.4 AV	54.0	-9.6	2.27 H	169	29.2	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	104.4 PK			2.44 V	218	63.6	40.8
2	*5230.00	94.0 AV			2.44 V	218	53.2	40.8
3	5350.00	56.3 PK	74.0	-17.7	2.40 V	195	51.9	4.4
4	5350.00	43.2 AV	54.0	-10.8	2.40 V	195	38.8	4.4
5	#10460.00	57.7 PK	74.0	-16.3	2.12 V	168	42.5	15.2
6	#10460.00	45.3 AV	54.0	-8.7	2.12 V	168	30.1	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	54.1 PK	74.0	-19.9	1.70 H	237	50.2	3.9
2	5150.00	42.8 AV	54.0	-11.2	1.70 H	237	38.9	3.9
3	*5270.00	101.1 PK			1.40 H	195	60.1	41.0
4	*5270.00	91.0 AV			1.40 H	195	50.0	41.0
5	#10540.00	57.2 PK	74.0	-16.8	1.96 H	258	41.8	15.4
6	#10540.00	45.0 AV	54.0	-9.0	1.96 H	258	29.6	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	55.1 PK	74.0	-18.9	1.73 V	216	51.2	3.9
2	5150.00	43.3 AV	54.0	-10.7	1.73 V	216	39.4	3.9
3	*5270.00	103.5 PK			1.62 V	197	62.5	41.0
4	*5270.00	93.4 AV			1.62 V	197	52.4	41.0
5	#10540.00	58.6 PK	74.0	-15.4	1.72 V	251	43.2	15.4
6	#10540.00	45.8 AV	54.0	-8.2	1.72 V	251	30.4	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	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	*5310.00	99.8 PK			1.46 H	197	58.8	41.0
2	*5310.00	89.5 AV			1.46 H	197	48.5	41.0
3	5350.00	60.1 PK	74.0	-13.9	1.28 H	193	55.7	4.4
4	5350.00	48.5 AV	54.0	-5.5	1.28 H	193	44.1	4.4
5	10620.00	58.4 PK	74.0	-15.6	3.27 H	156	42.4	16.0
6	10620.00	45.6 AV	54.0	-8.4	3.27 H	156	29.6	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	102.8 PK			1.69 V	195	61.8	41.0
2	*5310.00	92.7 AV			1.69 V	195	51.7	41.0
3	5350.00	64.3 PK	74.0	-9.7	1.80 V	210	59.9	4.4
4	5350.00	53.2 AV	54.0	-0.8	1.80 V	210	48.8	4.4
5	10620.00	59.3 PK	74.0	-14.7	3.17 V	234	43.3	16.0
6	10620.00	46.4 AV	54.0	-7.6	3.17 V	234	30.4	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 102	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	5460.00	59.1 PK	74.0	-14.9	1.68 H	155	54.7	4.4
2	5460.00	46.3 AV	54.0	-7.7	1.68 H	155	41.9	4.4
3	#5470.00	63.1 PK	74.0	-10.9	1.70 H	157	58.6	4.5
4	#5470.00	50.9 AV	54.0	-3.1	1.70 H	157	46.4	4.5
5	*5510.00	101.8 PK			1.79 H	158	60.5	41.3
6	*5510.00	92.3 AV			1.79 H	158	51.0	41.3
7	11020.00	60.4 PK	74.0	-13.6	1.11 H	347	43.2	17.2
8	11020.00	46.4 AV	54.0	-7.6	1.11 H	347	29.2	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	61.1 PK	74.0	-12.9	1.50 V	204	56.7	4.4
2	5460.00	47.6 AV	54.0	-6.4	1.50 V	204	43.2	4.4
3	#5470.00	68.3 PK	74.0	-5.7	1.48 V	205	63.8	4.5
4	#5470.00	53.3 AV	54.0	-0.7	1.48 V	205	48.8	4.5
5	*5510.00	105.4 PK			1.64 V	206	64.1	41.3
6	*5510.00	95.6 AV			1.64 V	206	54.3	41.3
7	11020.00	59.1 PK	74.0	-14.9	1.70 V	299	41.9	17.2
8	11020.00	46.3 AV	54.0	-7.7	1.70 V	299	29.1	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	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	*5550.00	102.8 PK			1.54 H	154	61.3	41.5
2	*5550.00	92.9 AV			1.54 H	154	51.4	41.5
3	11100.00	58.4 PK	74.0	-15.6	2.65 H	230	42.0	16.4
4	11100.00	45.2 AV	54.0	-8.8	2.65 H	230	28.8	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	*5550.00	105.8 PK			1.30 V	208	64.3	41.5
2	*5550.00	95.8 AV			1.30 V	208	54.3	41.5
3	11100.00	58.0 PK	74.0	-16.0	3.20 V	163	41.6	16.4
4	11100.00	45.4 AV	54.0	-8.6	3.20 V	163	29.0	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.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 118	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	5460.00	56.3 PK	74.0	-17.7	1.23 H	142	52.0	4.3
2	5460.00	43.1 AV	54.0	-10.9	1.23 H	142	38.8	4.3
3	#5470.00	55.5 PK	74.0	-18.5	1.40 H	140	51.1	4.4
4	#5470.00	43.0 AV	54.0	-11.0	1.40 H	140	38.6	4.4
5	*5590.00	105.0 PK			1.50 H	159	63.5	41.5
6	*5590.00	95.0 AV			1.50 H	159	53.5	41.5
7	#5725.00	56.7 PK	74.0	-17.3	1.46 H	155	51.8	4.9
8	#5725.00	43.8 AV	54.0	-10.2	1.46 H	155	38.9	4.9
9	11180.00	55.9 PK	74.0	-18.1	1.98 H	69	40.0	15.9
10	11180.00	43.6 AV	54.0	-10.4	1.98 H	69	27.7	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	5460.00	56.1 PK	74.0	-17.9	1.21 V	199	51.8	4.3
2	5460.00	42.7 AV	54.0	-11.3	1.21 V	199	38.4	4.3
3	#5470.00	56.4 PK	74.0	-17.6	1.36 V	175	52.0	4.4
4	#5470.00	43.1 AV	54.0	-10.9	1.36 V	175	38.7	4.4
5	*5590.00	105.0 PK			1.35 V	170	63.5	41.5
6	*5590.00	95.9 AV			1.35 V	170	54.4	41.5
7	#5725.00	56.7 PK	74.0	-17.3	1.33 V	175	51.8	4.9
8	#5725.00	43.7 AV	54.0	-10.3	1.33 V	175	38.8	4.9
9	11180.00	57.3 PK	74.0	-16.7	3.00 V	203	41.4	15.9
10	11180.00	43.9 AV	54.0	-10.1	3.00 V	203	28.0	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 126	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	56.1 PK	74.0	-17.9	1.33 H	142	51.8	4.3
2	5460.00	43.0 AV	54.0	-11.0	1.33 H	142	38.7	4.3
3	#5470.00	56.5 PK	74.0	-17.5	1.51 H	150	52.1	4.4
4	#5470.00	43.2 AV	54.0	-10.8	1.51 H	150	38.8	4.4
5	*5630.00	104.5 PK			1.49 H	157	63.0	41.5
6	*5630.00	94.5 AV			1.49 H	157	53.0	41.5
7	#5725.00	56.5 PK	74.0	-17.5	1.44 H	150	51.6	4.9
8	#5725.00	43.7 AV	54.0	-10.3	1.44 H	150	38.8	4.9
9	11260.00	57.2 PK	74.0	-16.8	1.94 H	64	41.0	16.2
10	11260.00	44.4 AV	54.0	-9.6	1.94 H	64	28.2	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	5460.00	55.8 PK	74.0	-18.2	1.21 V	194	51.5	4.3
2	5460.00	42.9 AV	54.0	-11.1	1.21 V	194	38.6	4.3
3	#5470.00	56.3 PK	74.0	-17.7	1.33 V	174	51.9	4.4
4	#5470.00	43.3 AV	54.0	-10.7	1.33 V	174	38.9	4.4
5	*5630.00	105.1 PK			1.33 V	168	63.6	41.5
6	*5630.00	95.8 AV			1.33 V	168	54.3	41.5
7	#5725.00	56.7 PK	74.0	-17.3	1.33 V	175	51.8	4.9
8	#5725.00	43.7 AV	54.0	-10.3	1.33 V	175	38.8	4.9
9	11260.00	57.4 PK	74.0	-16.6	3.05 V	193	41.2	16.2
10	11260.00	44.0 AV	54.0	-10.0	3.05 V	193	27.8	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 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	102.4 PK			1.76 H	155	60.9	41.5
2	*5670.00	92.9 AV			1.76 H	155	51.4	41.5
3	#5725.00	58.1 PK	74.0	-15.9	1.77 H	152	53.3	4.8
4	#5725.00	44.6 AV	54.0	-9.4	1.77 H	152	39.8	4.8
5	11340.00	59.9 PK	74.0	-14.1	1.84 H	260	43.3	16.6
6	11340.00	47.0 AV	54.0	-7.0	1.84 H	260	30.4	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	104.1 PK			1.52 V	183	62.6	41.5
2	*5670.00	94.4 AV			1.52 V	183	52.9	41.5
3	#5725.00	58.6 PK	74.0	-15.4	1.55 V	205	53.8	4.8
4	#5725.00	46.0 AV	54.0	-8.0	1.55 V	205	41.2	4.8
5	11340.00	59.9 PK	74.0	-14.1	2.66 V	84	43.3	16.6
6	11340.00	46.8 AV	54.0	-7.2	2.66 V	84	30.2	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 142	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	56.3 PK	74.0	-17.7	1.34 H	140	52.0	4.3
2	5460.00	42.9 AV	54.0	-11.1	1.34 H	140	38.6	4.3
3	#5470.00	56.0 PK	74.0	-18.0	1.48 H	160	51.6	4.4
4	#5470.00	43.0 AV	54.0	-11.0	1.48 H	160	38.6	4.4
5	*5710.00	103.4 PK			1.41 H	154	61.8	41.6
6	*5710.00	93.4 AV			1.41 H	154	51.8	41.6
7	#5850.00	56.8 PK	74.0	-17.2	1.45 H	144	51.5	5.3
8	#5850.00	44.1 AV	54.0	-9.9	1.45 H	144	38.8	5.3
9	11420.00	57.2 PK	74.0	-16.8	3.50 H	196	41.2	16.0
10	11420.00	44.2 AV	54.0	-9.8	3.50 H	196	28.2	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	5460.00	56.3 PK	74.0	-17.7	1.38 V	164	52.0	4.3
2	5460.00	42.9 AV	54.0	-11.1	1.38 V	164	38.6	4.3
3	#5470.00	56.6 PK	74.0	-17.4	1.34 V	172	52.2	4.4
4	#5470.00	43.1 AV	54.0	-10.9	1.34 V	172	38.7	4.4
5	*5710.00	105.9 PK			1.29 V	178	64.3	41.6
6	*5710.00	95.4 AV			1.29 V	178	53.8	41.6
7	#5850.00	56.8 PK	74.0	-17.2	1.50 V	163	51.5	5.3
8	#5850.00	44.3 AV	54.0	-9.7	1.50 V	163	39.0	5.3
9	11420.00	56.2 PK	74.0	-17.8	2.24 V	10	40.2	16.0
10	11420.00	43.3 AV	54.0	-10.7	2.24 V	10	27.3	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.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 151	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	#5611.20	57.1 PK	68.2	-11.1	1.41 H	156	52.3	4.8
2	*5755.00	100.9 PK			1.41 H	156	59.4	41.5
3	*5755.00	90.8 AV			1.41 H	156	49.3	41.5
4	#5984.80	58.8 PK	68.2	-9.4	1.41 H	156	54.0	4.8
5	11510.00	57.0 PK	74.0	-17.0	1.94 H	285	41.1	15.9
6	11510.00	45.4 AV	54.0	-8.6	1.94 H	285	29.5	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	#5621.60	57.3 PK	68.2	-10.9	1.28 V	177	52.5	4.8
2	*5755.00	104.1 PK			1.28 V	177	62.6	41.5
3	*5755.00	94.0 AV			1.28 V	177	52.5	41.5
4	#5948.80	57.2 PK	68.2	-11.0	1.28 V	177	52.4	4.8
5	11510.00	59.5 PK	74.0	-14.5	1.84 V	112	43.6	15.9
6	11510.00	46.6 AV	54.0	-7.4	1.84 V	112	30.7	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	#5611.20	57.6 PK	68.2	-10.6	1.07 H	156	52.8	4.8
2	*5795.00	100.7 PK			1.07 H	156	59.2	41.5
3	*5795.00	90.5 AV			1.07 H	156	49.0	41.5
4	#5984.00	57.6 PK	68.2	-10.6	1.07 H	156	52.8	4.8
5	11590.00	56.8 PK	74.0	-17.2	1.58 H	207	41.3	15.5
6	11590.00	45.1 AV	54.0	-8.9	1.58 H	207	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	#5612.00	57.2 PK	68.2	-11.0	1.29 V	176	52.4	4.8
2	*5795.00	103.8 PK			1.29 V	176	62.3	41.5
3	*5795.00	93.7 AV			1.29 V	176	52.2	41.5
4	#5928.00	58.0 PK	68.2	-10.2	1.29 V	176	53.2	4.8
5	11590.00	59.3 PK	74.0	-14.7	2.14 V	127	43.8	15.5
6	11590.00	46.4 AV	54.0	-7.6	2.14 V	127	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.

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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	66.2 PK	74.0	-7.8	1.87 H	191	62.3	3.9
2	5150.00	52.5 AV	54.0	-1.5	1.87 H	191	48.6	3.9
3	*5210.00	98.4 PK			1.70 H	191	57.6	40.8
4	*5210.00	87.4 AV			1.70 H	191	46.6	40.8
5	5350.00	56.8 PK	74.0	-17.2	1.64 H	202	52.4	4.4
6	5350.00	44.3 AV	54.0	-9.7	1.64 H	202	39.9	4.4
7	#10420.00	58.3 PK	74.0	-15.7	3.00 H	345	43.0	15.3
8	#10420.00	45.0 AV	54.0	-9.0	3.00 H	345	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	65.7 PK	74.0	-8.3	1.36 V	215	61.8	3.9
2	5150.00	52.8 AV	54.0	-1.2	1.36 V	215	48.9	3.9
3	*5210.00	99.3 PK			1.43 V	188	58.5	40.8
4	*5210.00	88.6 AV			1.43 V	188	47.8	40.8
5	5350.00	57.6 PK	74.0	-16.4	1.60 V	294	53.2	4.4
6	5350.00	44.2 AV	54.0	-9.8	1.60 V	294	39.8	4.4
7	#10420.00	58.1 PK	74.0	-15.9	2.88 V	102	42.8	15.3
8	#10420.00	45.4 AV	54.0	-8.6	2.88 V	102	30.1	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	95.9 PK			1.54 H	196	54.9	41.0
2	*5290.00	85.1 AV			1.54 H	196	44.1	41.0
3	5350.00	60.5 PK	74.0	-13.5	1.35 H	197	56.1	4.4
4	5350.00	49.1 AV	54.0	-4.9	1.35 H	197	44.7	4.4
5	11580.00	56.9 PK	74.0	-17.1	3.64 H	298	41.3	15.6
6	11580.00	45.4 AV	54.0	-8.6	3.64 H	298	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	*5290.00	97.9 PK			1.68 V	193	56.9	41.0
2	*5290.00	87.4 AV			1.68 V	193	46.4	41.0
3	5350.00	64.5 PK	74.0	-9.5	1.70 V	215	60.1	4.4
4	5350.00	52.9 AV	54.0	-1.1	1.70 V	215	48.5	4.4
5	#10580.00	59.1 PK	74.0	-14.9	2.47 V	169	43.2	15.9
6	#10580.00	46.7 AV	54.0	-7.3	2.47 V	169	30.8	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	61.7 PK	74.0	-12.3	1.68 H	159	57.3	4.4
2	5460.00	48.3 AV	54.0	-5.7	1.68 H	159	43.9	4.4
3	#5470.00	61.8 PK	74.0	-12.2	1.64 H	156	57.3	4.5
4	#5470.00	49.1 AV	54.0	-4.9	1.64 H	156	44.6	4.5
5	*5530.00	97.6 PK			1.65 H	156	56.3	41.3
6	*5530.00	86.8 AV			1.65 H	156	45.5	41.3
7	#5725.00	58.4 PK	74.0	-15.6	1.83 H	184	53.6	4.8
8	#5725.00	34.2 AV	54.0	-19.8	1.83 H	184	29.4	4.8
9	11060.00	59.4 PK	74.0	-14.6	2.40 H	118	42.5	16.9
10	11060.00	46.0 AV	54.0	-8.0	2.40 H	118	29.1	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	65.6 PK	74.0	-8.4	1.61 V	174	61.2	4.4
2	5460.00	52.1 AV	54.0	-1.9	1.61 V	174	47.7	4.4
3	#5470.00	66.3 PK	74.0	-7.7	1.58 V	193	61.8	4.5
4	#5470.00	52.8 AV	54.0	-1.2	1.58 V	193	48.3	4.5
5	*5530.00	102.5 PK			1.59 V	172	61.2	41.3
6	*5530.00	91.7 AV			1.59 V	172	50.4	41.3
7	#5725.00	57.9 PK	74.0	-16.1	1.58 V	177	53.1	4.8
8	#5725.00	44.5 AV	54.0	-9.5	1.58 V	177	39.7	4.8
9	11060.00	59.4 PK	74.0	-14.6	1.43 V	59	42.5	16.9
10	11060.00	46.2 AV	54.0	-7.8	1.43 V	59	29.3	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 122	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	5460.00	55.6 PK	74.0	-18.4	1.32 H	164	51.3	4.3
2	5460.00	42.9 AV	54.0	-11.1	1.32 H	164	38.6	4.3
3	#5470.00	46.6 PK	74.0	-27.4	1.32 H	156	42.2	4.4
4	#5470.00	43.0 AV	54.0	-11.0	1.32 H	156	38.6	4.4
5	*5610.00	100.6 PK			1.36 H	154	59.1	41.5
6	*5610.00	89.5 AV			1.36 H	154	48.0	41.5
7	#5725.00	56.9 PK	74.0	-17.1	1.35 H	148	52.0	4.9
8	#5725.00	44.1 AV	54.0	-9.9	1.35 H	148	39.2	4.9
9	11220.00	56.7 PK	74.0	-17.3	2.61 H	346	40.8	15.9
10	11220.00	43.9 AV	54.0	-10.1	2.61 H	346	28.0	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	5460.00	56.8 PK	74.0	-17.2	1.24 V	136	52.5	4.3
2	5460.00	43.4 AV	54.0	-10.6	1.24 V	136	39.1	4.3
3	#5470.00	56.8 PK	74.0	-17.2	1.25 V	164	52.4	4.4
4	#5470.00	43.6 AV	54.0	-10.4	1.25 V	164	39.2	4.4
5	*5610.00	102.3 PK			1.28 V	168	60.8	41.5
6	*5610.00	91.7 AV			1.28 V	168	50.2	41.5
7	#5725.00	57.5 PK	74.0	-16.5	1.30 V	177	52.6	4.9
8	#5725.00	44.2 AV	54.0	-9.8	1.30 V	177	39.3	4.9
9	11220.00	56.9 PK	74.0	-17.1	3.35 V	305	41.0	15.9
10	11220.00	43.7 AV	54.0	-10.3	3.35 V	305	27.8	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 138	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	56.3 PK	74.0	-17.7	1.30 H	142	52.0	4.3
2	5460.00	42.8 AV	54.0	-11.2	1.30 H	142	38.5	4.3
3	#5470.00	56.3 PK	74.0	-17.7	1.24 H	150	51.9	4.4
4	#5470.00	43.0 AV	54.0	-11.0	1.24 H	150	38.6	4.4
5	*5690.00	98.6 PK			1.36 H	154	57.1	41.5
6	*5690.00	88.0 AV			1.36 H	154	46.5	41.5
7	#5850.00	57.1 PK	74.0	-16.9	1.60 H	155	51.8	5.3
8	#5850.00	44.2 AV	54.0	-9.8	1.60 H	155	38.9	5.3
9	11380.00	57.4 PK	74.0	-16.6	1.57 H	338	41.2	16.2
10	11380.00	44.8 AV	54.0	-9.2	1.57 H	338	28.6	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	5460.00	55.5 PK	74.0	-18.5	1.35 V	164	51.2	4.3
2	5460.00	43.0 AV	54.0	-11.0	1.35 V	164	38.7	4.3
3	#5470.00	55.8 PK	74.0	-18.2	1.38 V	184	51.4	4.4
4	#5470.00	43.0 AV	54.0	-11.0	1.38 V	184	38.6	4.4
5	*5690.00	101.1 PK			1.32 V	178	59.6	41.5
6	*5690.00	90.2 AV			1.32 V	178	48.7	41.5
7	#5850.00	57.2 PK	74.0	-16.8	1.26 V	190	51.9	5.3
8	#5850.00	43.9 AV	54.0	-10.1	1.26 V	190	38.6	5.3
9	11380.00	57.3 PK	74.0	-16.7	2.94 V	213	41.1	16.2
10	11380.00	43.4 AV	54.0	-10.6	2.94 V	213	27.2	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 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	#5616.80	57.3 PK	68.2	-10.9	1.88 H	157	52.5	4.8
2	*5775.00	96.4 PK			1.88 H	157	54.9	41.5
3	*5775.00	86.3 AV			1.88 H	157	44.8	41.5
4	#5988.00	57.3 PK	68.2	-10.9	1.88 H	157	52.5	4.8
5	11550.00	57.6 PK	74.0	-16.4	3.62 H	157	41.8	15.8
6	11550.00	45.4 AV	54.0	-8.6	3.62 H	157	29.6	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	#5612.00	57.6 PK	68.2	-10.6	1.08 V	175	52.8	4.8
2	*5775.00	99.7 PK			1.08 V	175	58.2	41.5
3	*5775.00	89.6 AV			1.08 V	175	48.1	41.5
4	#5944.00	57.6 PK	68.2	-10.6	1.08 V	175	52.8	4.8
5	11550.00	59.0 PK	74.0	-15.0	2.14 V	158	43.2	15.8
6	11550.00	46.5 AV	54.0	-7.5	2.14 V	158	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 149	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz	TEST MODE	A

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	87.23	18.7 QP	40.0	-21.3	2.00 H	95	37.4	-18.7
2	198.78	21.3 QP	43.5	-22.2	1.25 H	251	37.5	-16.2
3	433.52	21.0 QP	46.0	-25.0	1.50 H	257	31.0	-10.0
4	714.82	31.4 QP	46.0	-14.6	1.25 H	136	36.9	-5.5
5	858.38	26.4 QP	46.0	-19.6	2.00 H	5	29.5	-3.1
6	932.10	28.0 QP	46.0	-18.0	1.00 H	96	29.8	-1.8
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	62.98	30.4 QP	40.0	-9.6	1.25 V	229	44.5	-14.1
2	88.20	28.8 QP	43.5	-14.7	1.00 V	256	47.6	-18.8
3	198.78	19.4 QP	43.5	-24.1	1.50 V	151	35.6	-16.2
4	441.28	22.6 QP	46.0	-23.4	2.00 V	206	32.6	-10.0
5	713.85	31.5 QP	46.0	-14.5	1.25 V	254	37.1	-5.6
6	999.03	27.7 QP	54.0	-26.3	1.50 V	209	28.7	-1.0

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

CHANNEL	TX Channel 149	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz	TEST MODE	B

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	31.94	31.2 QP	40.0	-8.8	1.00 H	18	46.1	-14.9
2	90.14	27.2 QP	43.5	-16.3	1.00 H	171	46.0	-18.8
3	198.78	27.4 QP	43.5	-16.1	1.00 H	138	43.6	-16.2
4	529.55	21.4 QP	46.0	-24.6	1.50 H	64	30.3	-8.9
5	712.88	25.7 QP	46.0	-20.3	1.25 H	349	31.3	-5.6
6	983.51	28.6 QP	54.0	-25.4	1.50 H	124	29.8	-1.2
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	33.88	36.1 QP	40.0	-3.9	1.00 V	202	50.9	-14.8
2	57.16	35.9 QP	40.0	-4.1	1.50 V	221	49.5	-13.6
3	68.80	25.8 QP	40.0	-14.2	1.25 V	240	40.5	-14.7
4	609.09	22.8 QP	46.0	-23.2	1.00 V	15	29.8	-7.0
5	821.52	26.2 QP	46.0	-19.8	1.00 V	245	29.8	-3.6
6	909.79	28.7 QP	46.0	-17.3	1.50 V	82	31.1	-2.4

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

CHANNEL	TX Channel 149	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz	TEST MODE	C

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	38.73	20.7 QP	40.0	-19.3	1.00 H	5	35.0	-14.3
2	87.23	18.7 QP	40.0	-21.3	1.25 H	95	37.4	-18.7
3	398.60	18.9 QP	46.0	-27.1	1.25 H	214	29.8	-10.9
4	569.32	21.2 QP	46.0	-24.8	1.50 H	77	29.6	-8.4
5	714.82	31.4 QP	46.0	-14.6	1.00 H	136	36.9	-5.5
6	937.92	27.7 QP	46.0	-18.3	2.00 H	157	29.4	-1.7
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	33.88	31.3 QP	40.0	-8.7	1.50 V	67	46.1	-14.8
2	100.81	22.9 QP	43.5	-20.6	1.25 V	216	40.6	-17.7
3	441.28	22.6 QP	46.0	-23.4	1.50 V	206	32.6	-10.0
4	605.21	23.0 QP	46.0	-23.0	2.00 V	31	30.2	-7.2
5	765.26	25.8 QP	46.0	-20.2	1.25 V	11	30.1	-4.3
6	886.51	40.1 QP	46.0	-5.9	1.50 V	144	42.9	-2.8

Remarks:

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

CHANNEL	TX Channel 149	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz	TEST MODE	D

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	31.94	29.9 QP	40.0	-10.1	2.00 H	11	44.8	-14.9
2	180.35	20.1 QP	43.5	-23.4	1.50 H	287	34.8	-14.7
3	360.77	18.1 QP	46.0	-27.9	1.25 H	106	29.5	-11.4
4	496.57	20.0 QP	46.0	-26.0	1.50 H	214	29.3	-9.3
5	675.05	23.7 QP	46.0	-22.3	1.50 H	32	29.9	-6.2
6	820.55	26.5 QP	46.0	-19.5	1.25 H	311	30.1	-3.6
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	90.14	27.1 QP	43.5	-16.4	1.25 V	274	45.9	-18.8
2	207.51	18.6 QP	43.5	-24.9	1.50 V	124	34.8	-16.2
3	333.61	18.6 QP	46.0	-27.4	2.00 V	115	30.3	-11.7
4	605.21	23.0 QP	46.0	-23.0	1.50 V	24	30.2	-7.2
5	765.26	25.8 QP	46.0	-20.2	1.25 V	13	30.1	-4.3
6	982.54	27.6 QP	54.0	-26.4	1.50 V	210	28.8	-1.2

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

4.2 Conducted Emission Measurement

4.2.1 Limits of Conducted Emission Measurement

Frequency (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15 - 0.5	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30.0	60	50

Note: 1. The lower limit shall apply at the transition frequencies.

2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

4.2.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver ROHDE & SCHWARZ	ESCI	100613	Nov. 23, 2017	Nov. 22, 2018
RF signal cable (with 10dB PAD) Woken	5D-FB	Cable-cond1-01	Sep. 05, 2017	Sep. 04, 2018
LISN ROHDE & SCHWARZ (EUT)	ESH3-Z5	835239/001	Mar. 10, 2017	Mar. 09, 2018
LISN ROHDE & SCHWARZ (Peripheral)	ESH3-Z5	100311	Aug. 15, 2017	Aug. 14, 2018
Software ADT	BV ADT_Conf_ V7.3.7.4	NA	NA	NA
Extension Cord	Extension Cord	1-1	Dec. 22, 2016	Dec. 21, 2017
			Dec. 22, 2017	Dec. 21, 2018

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

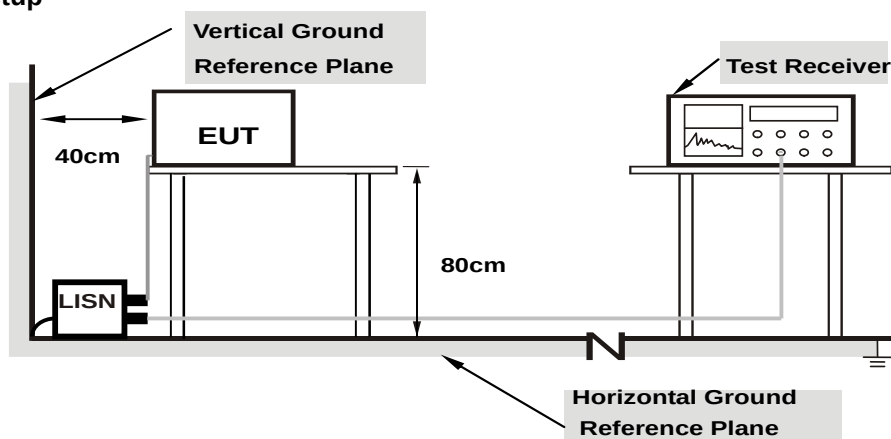
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance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

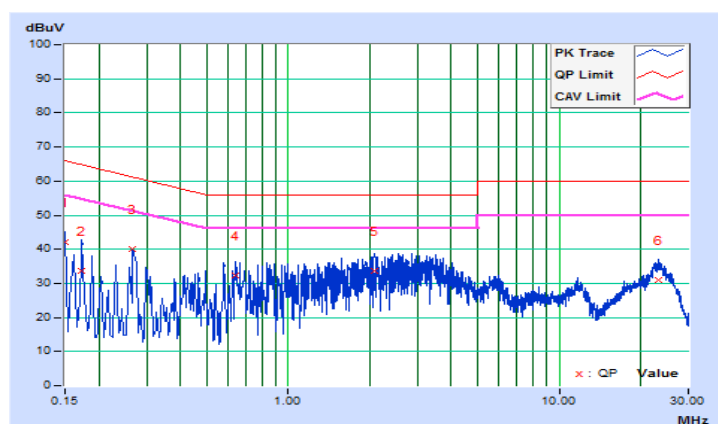
4.2.7 Test Results

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

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	0.15000	10.45	31.62	16.30	42.07	26.75	66.00	56.00	-23.93	-29.25
2	0.17346	10.45	23.29	8.49	33.74	18.94	64.79	54.79	-31.05	-35.85
3	0.26730	10.47	29.58	23.73	40.05	34.20	61.20	51.20	-21.15	-17.00
4	0.63484	10.50	21.81	9.20	32.31	19.70	56.00	46.00	-23.69	-26.30
5	2.09327	10.53	23.06	9.39	33.59	19.92	56.00	46.00	-22.41	-26.08
6	23.27374	11.56	19.57	8.36	31.13	19.92	60.00	50.00	-28.87	-30.08

REMARKS:

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

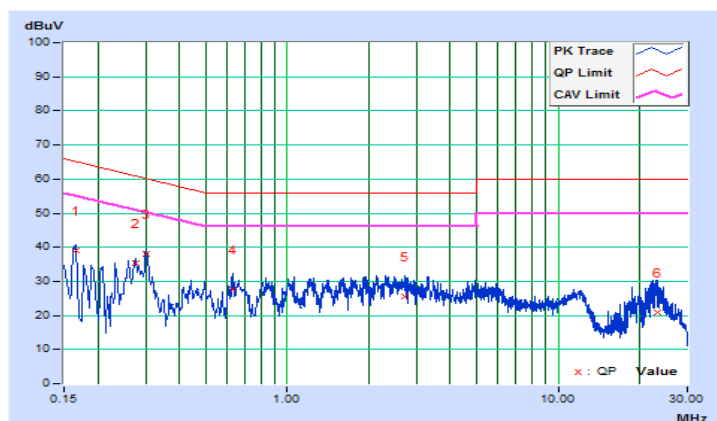


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	A		

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	0.16526	10.21	28.93	16.56	39.14	26.77	65.20	55.20	-26.06	-28.43
2	0.27512	10.23	25.28	21.20	35.51	31.43	60.96	50.96	-25.45	-19.53
3	0.30135	10.23	27.71	22.63	37.94	32.86	60.21	50.21	-22.27	-17.35
4	0.62689	10.25	17.25	10.54	27.50	20.79	56.00	46.00	-28.50	-25.21
5	2.73451	10.35	15.39	9.01	25.74	19.36	56.00	46.00	-30.26	-26.64
6	23.34021	11.15	9.71	1.98	20.86	13.13	60.00	50.00	-39.14	-36.87

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.

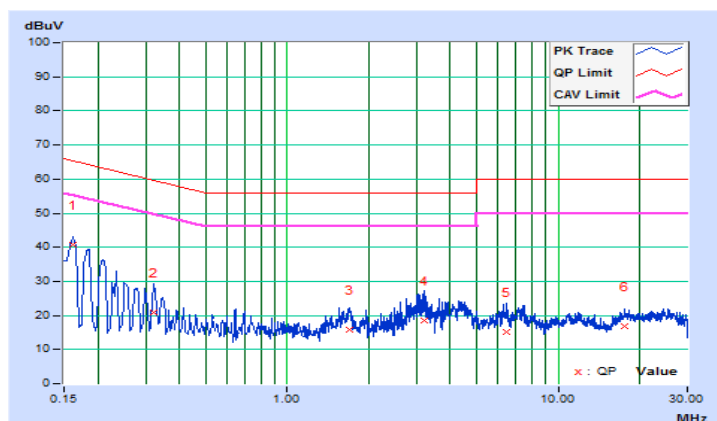


Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	B		

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	0.16200	10.45	30.44	17.52	40.89	27.97	65.36	55.36	-24.47	-27.39
2	0.32203	10.49	10.33	6.54	20.82	17.03	59.65	49.65	-38.83	-32.62
3	1.70223	10.51	5.42	1.47	15.93	11.98	56.00	46.00	-40.07	-34.02
4	3.21000	10.60	7.96	1.20	18.56	11.80	56.00	46.00	-37.44	-34.20
5	6.47800	10.76	4.28	1.21	15.04	11.97	60.00	50.00	-44.96	-38.03
6	17.69000	11.31	5.45	1.07	16.76	12.38	60.00	50.00	-43.24	-37.62

REMARKS:

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

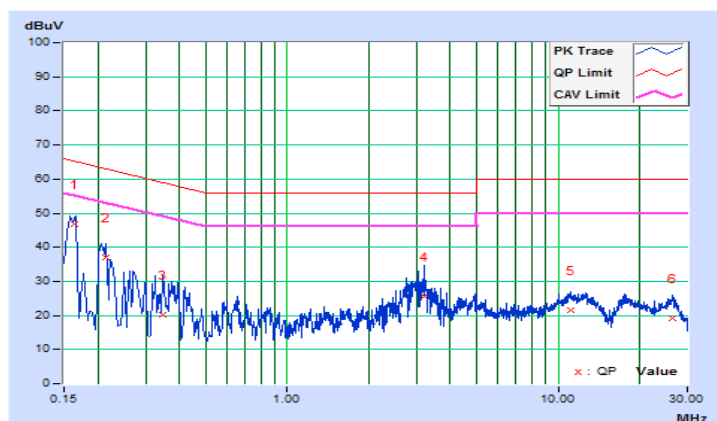


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	B		

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	0.16362	10.21	36.53	20.82	46.74	31.03	65.28	55.28	-18.54	-24.25
2	0.21400	10.22	26.93	10.98	37.15	21.20	63.05	53.05	-25.90	-31.85
3	0.34600	10.23	9.82	0.47	20.05	10.70	59.06	49.06	-39.01	-38.36
4	3.19400	10.37	15.28	5.36	25.65	15.73	56.00	46.00	-30.35	-30.27
5	11.13800	10.71	10.92	6.01	21.63	16.72	60.00	50.00	-38.37	-33.28
6	26.31000	11.23	8.13	3.16	19.36	14.39	60.00	50.00	-40.64	-35.61

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} ;

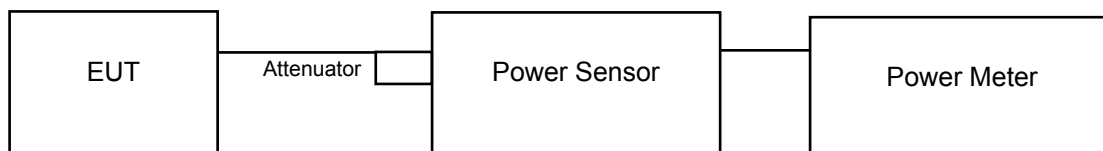
Array Gain = 5 log(N_{ANT}/N_{SS}) dB or 3 dB, whichever is less for 20-MHz channel widths with $N_{ANT} \geq 5$.

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

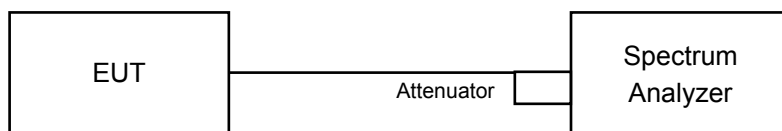
4.3.2 Test Setup

For Power Output

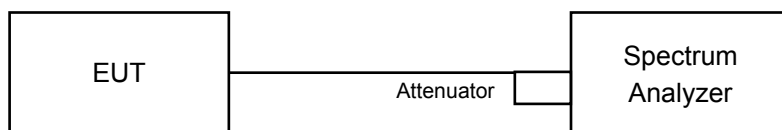
802.11a, 802.11n (HT20), 802.11n (HT40)



802.11ac (VHT80)



For 26dB and Occupied 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)

- 1) Set span to encompass the entire 26 dB EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal.
- 2) Set sweep trigger to "free run".
- 3) Set RBW = 1 MHz.
- 4) Set VBW $\geq$ 3 MHz
- 5) Number of points in sweep $\geq$ 2 Span / RBW.
- 6) Sweep time $\leq$ (number of points in sweep) * T
- 7) Using emission bandwidth to determine the frequency span for integration the channel bandwidth.
- 8) Detector = RMS.
- 9) Trace mode = max hold.
- 10) Allow max hold to run for at least 60 seconds, or longer as needed to allow the trace to stabilize.

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%.

For Occupied Bandwidth

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 Sampling. 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.

4.3.5 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	16.73	16.56	92.388	19.66	24.00	Pass
40	5200	16.81	17.09	99.141	19.96	24.00	Pass
48	5240	16.77	17.23	100.379	20.02	24.00	Pass
52	5260	16.38	17.03	93.917	19.73	24.00	Pass
60	5300	16.55	16.03	85.273	19.31	24.00	Pass
64	5320	16.78	15.81	85.750	19.33	24.00	Pass
100	5500	17.06	17.25	103.904	20.17	24.00	Pass
116	5580	16.62	17.42	101.128	20.05	24.00	Pass
120	5600	16.74	17.67	105.685	20.24	24.00	Pass
124	5620	16.82	17.94	110.314	20.43	24.00	Pass
128	5640	16.76	17.71	106.444	20.27	24.00	Pass
140	5700	16.71	16.83	95.076	19.78	24.00	Pass
144	5720 For U-NII-2C	13.06	13.54	45.382	16.57	23.39	Pass
144	5720 For U-NII-3	6.68	4.96	8.254	9.17	30.00	Pass
149	5745	16.41	16.82	91.836	19.63	30.00	Pass
157	5785	16.45	17.24	97.123	19.87	30.00	Pass
165	5825	16.41	16.75	91.067	19.59	30.00	Pass

Note:

For U-NII-2A, U-NII-2C Band:

Chain 0

1. $11\text{dBm} + 10\log(24.27) = 24.85\text{ dBm} > 24\text{dBm}$
2. $11\text{dBm} + 10\log(24.40) = 24.87\text{ dBm} > 24\text{dBm}$
3. $11\text{dBm} + 10\log(24.45) = 24.88\text{ dBm} > 24\text{dBm}$
4. $11\text{dBm} + 10\log(24.48) = 24.89\text{ dBm} > 24\text{dBm}$
5. $11\text{dBm} + 10\log(23.92) = 24.79\text{ dBm} > 24\text{dBm}$
6. $11\text{dBm} + 10\log(23.69) = 24.75\text{ dBm} > 24\text{dBm}$
7. $11\text{dBm} + 10\log(24.49) = 24.89\text{ dBm} > 24\text{dBm}$
8. $11\text{dBm} + 10\log(23.87) = 24.78\text{ dBm} > 24\text{dBm}$
9. $11\text{dBm} + 10\log(23.97) = 24.80\text{ dBm} > 24\text{dBm}$
10. $11\text{dBm} + 10\log(5725.00 - 5707.24) = 23.49\text{ dBm} < 24\text{dBm}$.

Chain 1

1. $11\text{dBm} + 10\log(33.33) = 26.23\text{ dBm} > 24\text{dBm}$
2. $11\text{dBm} + 10\log(29.16) = 25.65\text{ dBm} > 24\text{dBm}$
3. $11\text{dBm} + 10\log(28.50) = 25.55\text{ dBm} > 24\text{dBm}$
4. $11\text{dBm} + 10\log(24.94) = 24.97\text{ dBm} > 24\text{dBm}$
5. $11\text{dBm} + 10\log(25.23) = 25.02\text{ dBm} > 24\text{dBm}$
6. $11\text{dBm} + 10\log(24.75) = 24.94\text{ dBm} > 24\text{dBm}$
7. $11\text{dBm} + 10\log(25.78) = 25.11\text{ dBm} > 24\text{dBm}$
8. $11\text{dBm} + 10\log(25.17) = 25.01\text{ dBm} > 24\text{dBm}$
9. $11\text{dBm} + 10\log(24.39) = 24.87\text{ dBm} > 24\text{dBm}$
10. $11\text{dBm} + 10\log(5725.00 - 5707.67) = 23.39\text{ dBm} < 24\text{dBm}$.

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	16.41	16.48	88.215	19.46	24.00	Pass
40	5200	16.83	16.72	95.184	19.79	24.00	Pass
48	5240	16.59	17.18	97.844	19.91	24.00	Pass
52	5260	16.31	16.84	91.062	19.59	24.00	Pass
60	5300	16.38	16.01	83.353	19.21	24.00	Pass
64	5320	16.51	15.63	81.330	19.10	24.00	Pass
100	5500	16.76	17.02	97.774	19.90	24.00	Pass
116	5580	16.52	17.20	97.356	19.88	24.00	Pass
120	5600	16.51	17.49	100.876	20.04	24.00	Pass
124	5620	16.53	17.76	104.682	20.20	24.00	Pass
128	5640	16.54	17.55	101.967	20.08	24.00	Pass
140	5700	16.51	17.49	100.876	20.04	24.00	Pass
144	5720 For U-NII-2C	12.54	13.43	44.701	16.50	23.46	Pass
144	5720 For U-NII-3	6.49	4.59	8.201	9.14	30.00	Pass
149	5745	16.18	16.68	88.054	19.45	30.00	Pass
157	5785	16.11	17.26	94.043	19.73	30.00	Pass
165	5825	16.07	16.43	84.412	19.26	30.00	Pass

Note:

For U-NII-2A, U-NII-2C Band:

Chain 0

1. $11\text{dBm} + 10\log(27.11) = 25.33\text{ dBm} > 24\text{dBm}$
2. $11\text{dBm} + 10\log(25.90) = 25.13\text{ dBm} > 24\text{dBm}$
3. $11\text{dBm} + 10\log(25.23) = 25.02\text{ dBm} > 24\text{dBm}$
4. $11\text{dBm} + 10\log(26.98) = 25.31\text{ dBm} > 24\text{dBm}$
5. $11\text{dBm} + 10\log(24.05) = 24.81\text{ dBm} > 24\text{dBm}$
6. $11\text{dBm} + 10\log(24.35) = 24.86\text{ dBm} > 24\text{dBm}$
7. $11\text{dBm} + 10\log(24.23) = 24.84\text{ dBm} > 24\text{dBm}$
8. $11\text{dBm} + 10\log(25.96) = 25.14\text{ dBm} > 24\text{dBm}$
9. $11\text{dBm} + 10\log(23.98) = 24.80\text{ dBm} > 24\text{dBm}$
10. $11\text{dBm} + 10\log(5725.00 - 5706.24) = 23.73\text{ dBm} < 24\text{dBm}.$

Chain 1

1. $11\text{dBm} + 10\log(33.88) = 26.30\text{ dBm} > 24\text{dBm}$
2. $11\text{dBm} + 10\log(29.91) = 25.76\text{ dBm} > 24\text{dBm}$
3. $11\text{dBm} + 10\log(29.29) = 25.67\text{ dBm} > 24\text{dBm}$
4. $11\text{dBm} + 10\log(27.08) = 25.33\text{ dBm} > 24\text{dBm}$
5. $11\text{dBm} + 10\log(27.92) = 25.46\text{ dBm} > 24\text{dBm}$
6. $11\text{dBm} + 10\log(26.58) = 25.25\text{ dBm} > 24\text{dBm}$
7. $11\text{dBm} + 10\log(27.12) = 25.33\text{ dBm} > 24\text{dBm}$
8. $11\text{dBm} + 10\log(27.13) = 25.33\text{ dBm} > 24\text{dBm}$
9. $11\text{dBm} + 10\log(24.82) = 24.95\text{ dBm} > 24\text{dBm}$
10. $11\text{dBm} + 10\log(5725.00 - 5707.39) = 23.46\text{ dBm} < 24\text{dBm}.$

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	16.24	16.31	84.829	19.29	24.00	Pass
46	5230	16.45	16.80	92.020	19.64	24.00	Pass
54	5270	16.03	16.24	82.160	19.15	24.00	Pass
62	5310	15.72	15.53	73.052	18.64	24.00	Pass
102	5510	16.25	15.82	80.364	19.05	24.00	Pass
110	5550	16.35	16.32	86.007	19.35	24.00	Pass
118	5590	16.29	16.62	88.480	19.47	24.00	Pass
126	5630	16.42	17.24	96.819	19.86	24.00	Pass
134	5670	16.14	16.73	88.213	19.46	24.00	Pass
142	5710 For U-NII-2C	11.38	12.60	35.191	15.46	24.00	Pass
142	5710 For U-NII-3	0.89	0.92	2.714	4.34	30.00	Pass
151	5755	15.69	16.12	77.994	18.92	30.00	Pass
159	5795	15.87	16.47	82.998	19.19	30.00	Pass

Note:

For U-NII-2A, U-NII-2C Band:

Chain 0

1. $11\text{dBm} + 10\log(41.98) = 27.23\text{ dBm} > 24\text{dBm}$
2. $11\text{dBm} + 10\log(42.25) = 27.26\text{ dBm} > 24\text{dBm}$
3. $11\text{dBm} + 10\log(42.19) = 27.25\text{ dBm} > 24\text{dBm}$
4. $11\text{dBm} + 10\log(42.07) = 27.24\text{ dBm} > 24\text{dBm}$
5. $11\text{dBm} + 10\log(42.22) = 27.26\text{ dBm} > 24\text{dBm}$
6. $11\text{dBm} + 10\log(42.33) = 27.27\text{ dBm} > 24\text{dBm}$
7. $11\text{dBm} + 10\log(41.97) = 27.23\text{ dBm} > 24\text{dBm}$
8. $11\text{dBm} + 10\log(5725.00 - 5688.59) = 26.61\text{ dBm} > 24\text{dBm}$.

Chain 1

1. $11\text{dBm} + 10\log(77.08) = 29.87\text{ dBm} > 24\text{dBm}$
2. $11\text{dBm} + 10\log(60.83) = 28.84\text{ dBm} > 24\text{dBm}$
3. $11\text{dBm} + 10\log(42.03) = 27.24\text{ dBm} > 24\text{dBm}$
4. $11\text{dBm} + 10\log(41.90) = 27.22\text{ dBm} > 24\text{dBm}$
5. $11\text{dBm} + 10\log(41.98) = 27.23\text{ dBm} > 24\text{dBm}$
6. $11\text{dBm} + 10\log(41.95) = 27.23\text{ dBm} > 24\text{dBm}$
7. $11\text{dBm} + 10\log(41.93) = 27.23\text{ dBm} > 24\text{dBm}$
8. $11\text{dBm} + 10\log(5725.00 - 5689.02) = 26.56\text{ dBm} > 24\text{dBm}$.

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	14.65	14.94	60.363	17.81	24.00	Pass
58	5290	14.47	15.26	61.564	17.89	24.00	Pass
106	5530	14.77	14.07	55.519	17.44	24.00	Pass
122	5610	14.47	15.26	61.564	17.89	24.00	Pass
138	5690 For U-NII-2C	8.45	8.53	16.971	12.30	24.00	Pass
138	5690 For U-NII-3	-3.36	-5.77	0.872	-0.59	30.00	Pass
155	5775	14.49	14.52	56.433	17.52	30.00	Pass

Note:

For U-NII-2A, U-NII-2C Band:

Chain 0

1. $11\text{dBm} + 10\log(83.31) = 30.21\text{ dBm} > 24\text{dBm}$
2. $11\text{dBm} + 10\log(83.06) = 30.19\text{ dBm} > 24\text{dBm}$
3. $11\text{dBm} + 10\log(83.58) = 30.22\text{ dBm} > 24\text{dBm}$
4. $11\text{dBm} + 10\log(5725.00 - 5647.58) = 29.89\text{ dBm} > 24\text{dBm}$.

Chain 1

1. $11\text{dBm} + 10\log(84.21) = 30.25\text{ dBm} > 24\text{dBm}$
2. $11\text{dBm} + 10\log(85.09) = 30.30\text{ dBm} > 24\text{dBm}$
3. $11\text{dBm} + 10\log(84.66) = 30.28\text{ dBm} > 24\text{dBm}$
4. $11\text{dBm} + 10\log(5725.00 - 5647.55) = 29.89\text{ dBm} > 24\text{dBm}$.

26dB Bandwidth:
802.11a

Channel	Frequency (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	25.65	25.40
40	5200	26.36	29.72
48	5240	25.24	33.48
52	5260	24.27	33.33
60	5300	24.40	29.16
64	5320	24.45	28.50
100	5500	24.48	24.94
116	5580	23.92	25.23
120	5600	23.69	24.75
124	5620	24.49	25.78
128	5640	23.87	25.17
140	5700	23.97	24.39
144	5720 For U-NII-2C	17.76	17.33

802.11n (HT20)

Channel	Frequency (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	28.21	29.00
40	5200	29.08	31.99
48	5240	28.15	33.75
52	5260	27.11	33.88
60	5300	25.90	29.91
64	5320	25.23	29.29
100	5500	26.98	27.08
116	5580	24.05	27.92
120	5600	24.35	26.58
124	5620	24.23	27.12
128	5640	25.96	27.13
140	5700	23.98	24.82
144	5720 For U-NII-2C	18.76	17.61

802.11n (HT40)

Channel	Frequency (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
38	5190	42.17	50.27
46	5230	42.23	68.62
54	5270	41.98	77.08
62	5310	42.25	60.83
102	5510	42.19	42.03
110	5550	42.07	41.90
118	5590	42.22	41.98
126	5630	42.33	41.95
134	5670	41.97	41.93
142	5710 For U-NII-2C	36.41	35.98

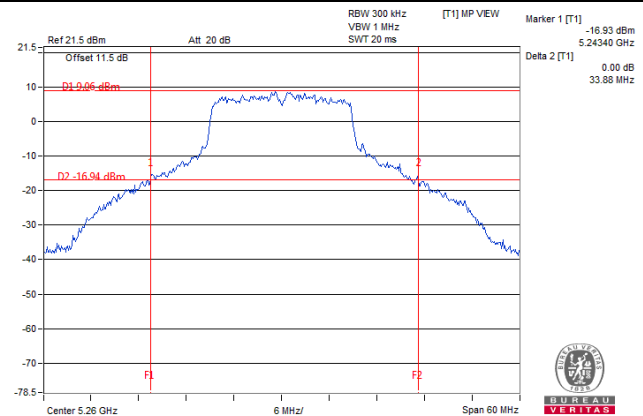
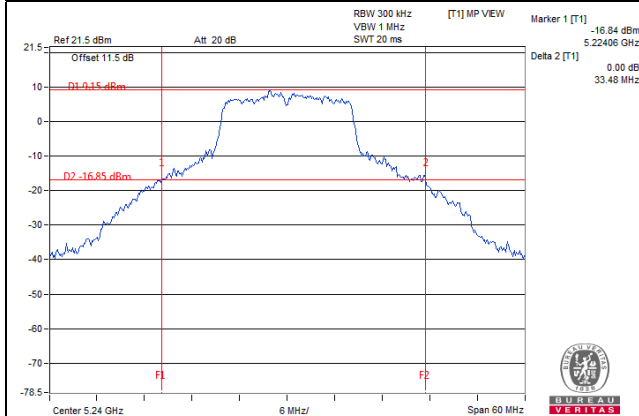
802.11ac (VHT80)

Channel	Frequency (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
42	5210	83.98	84.18
58	5290	83.31	84.21
106	5530	83.06	85.09
122	5610	83.58	84.66
138	5690 For U-NII-2C	77.42	77.45

Spectrum Plot of Worst Value

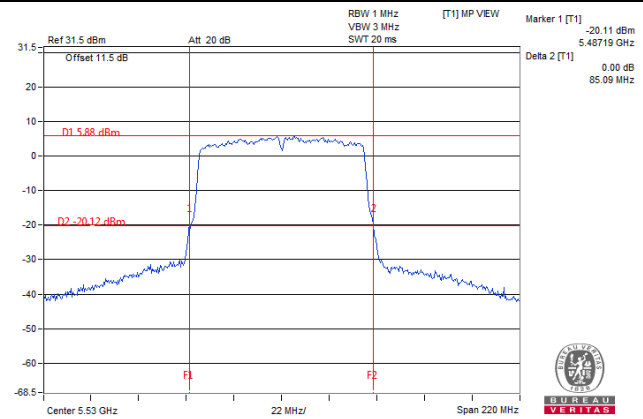
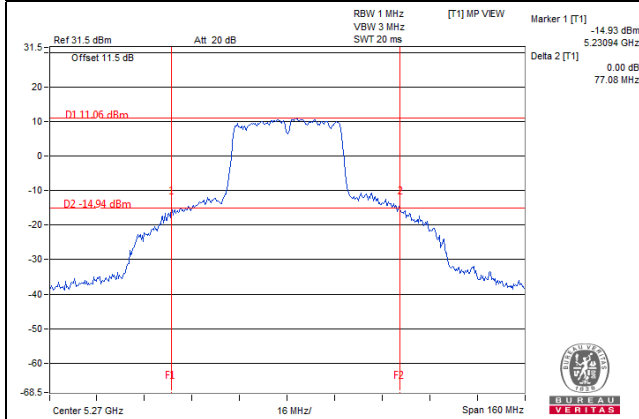
802.11a

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	93.917	19.73
5470~5725	110.314	20.43

802.11n (HT20)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	91.062	19.59
5470~5725	104.682	20.20

802.11n (HT40)

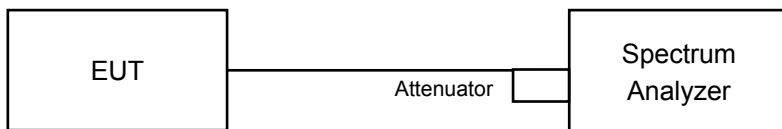
Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	82.160	19.15
5470~5725	96.819	19.86

802.11ac (VHT80)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	61.564	17.89
5470~5725	61.564	17.89

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 sampling. 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

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	16.80	17.04
40	5200	16.92	17.76
48	5240	16.80	19.80
52	5260	16.80	19.56
60	5300	16.80	17.88
64	5320	16.80	17.40
100	5500	16.68	16.92
116	5580	16.68	16.92
120	5600	16.68	16.92
124	5620	16.68	16.92
128	5640	16.68	16.92
140	5700	16.68	16.68
144	5720 For U-NII-2C	13.40	13.40
144	5720 For U-NII-3	3.28	3.16
149	5745	16.68	16.92
157	5785	16.68	16.92
165	5825	16.68	16.92

802.11n (HT20)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	18.12	18.24
40	5200	18.12	18.96
48	5240	18.00	20.40
52	5260	18.00	20.52
60	5300	17.88	18.72
64	5320	17.88	18.48
100	5500	18.00	18.12
116	5580	17.88	18.12
120	5600	17.88	18.12
124	5620	17.88	18.12
128	5640	18.00	18.12
140	5700	17.88	18.00
144	5720 For U-NII-2C	14.00	14.00
144	5720 For U-NII-3	3.88	3.76
149	5745	17.88	17.88
157	5785	17.88	18.12
165	5825	17.88	18.00

802.11n (HT40)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
38	5190	36.48	36.72
46	5230	36.60	36.84
54	5270	36.48	36.96
62	5310	36.60	36.84
102	5510	36.48	36.60
110	5550	36.60	36.48
118	5590	36.48	36.60
126	5630	36.60	36.60
134	5670	36.48	36.60
142	5710 For U-NII-2C	33.36	33.24
142	5710 For U-NII-3	3.36	3.24
151	5755	36.48	36.60
159	5795	36.48	36.48

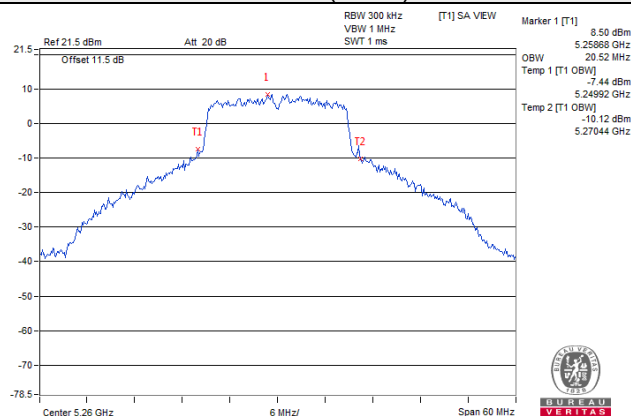
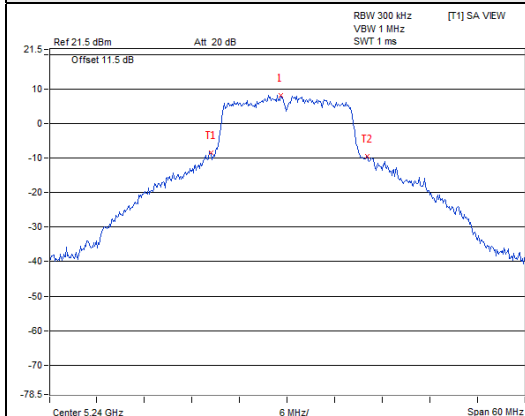
802.11ac (VHT80)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
42	5210	75.84	75.84
58	5290	75.84	75.84
106	5530	75.60	75.84
122	5610	75.60	75.84
138	5690 For U-NII-2C	72.92	72.92
138	5690 For U-NII-3	2.92	2.92
155	5775	75.84	75.84

Spectrum Plot of Worst Value

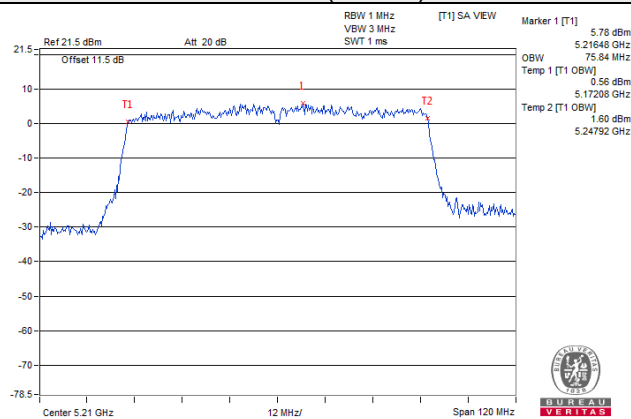
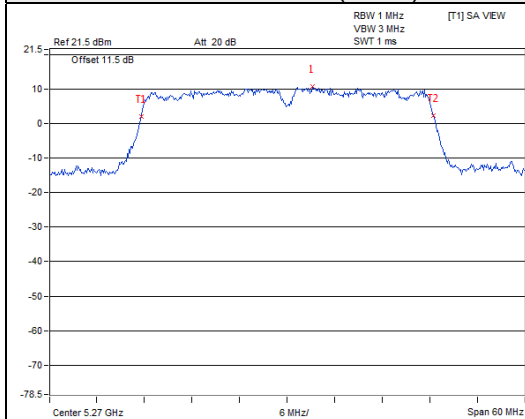
802.11a

802.11n (HT20)



802.11n (HT40)

802.11ac (VHT80)

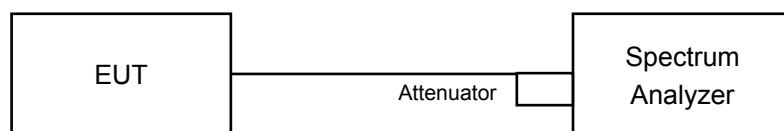


4.5 Peak Power Spectral Density Measurement

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

Duty cycle of test signal is $\geq 98\%$

Using method SA-1

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

Duty cycle of test signal is $< 98\%$

Using method SA-2

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

For U-NII-3 band:

Duty cycle of test signal is $\geq 98\%$

Using method SA-1

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

Duty cycle of test signal is $< 98\%$

- 1) Set span to encompass the entire emission bandwidth (EBW) of the signal.
- 2) Set RBW = 300 kHz, Set VBW ≥ 1 MHz, Detector = RMS
- 3) Use the peak marker function to determine the maximum power level in any 300 kHz band segment within the fundamental EBW.
- 4) 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 $\text{BWCF} = 10\log(500 \text{ kHz} / 300 \text{ kHz})$
- 5) Sweep time = auto, trigger set to "free run".
- 6) Trace average at least 100 traces in power averaging mode.
- 7) 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 4.3.6.

4.5.7 Test Results

For U-NII-1, U-NII-2A, U-NII-2C band
802.11a

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	5.11	3.95	0.25	7.83	11.00	Pass
40	5200	5.30	4.68	0.25	8.26	11.00	Pass
48	5240	5.22	4.09	0.25	7.95	11.00	Pass
52	5260	5.10	4.46	0.25	8.05	11.00	Pass
60	5300	4.77	3.42	0.25	7.41	11.00	Pass
64	5320	5.01	3.95	0.25	7.77	11.00	Pass
100	5500	4.99	4.10	0.25	7.83	11.00	Pass
116	5580	4.60	4.46	0.25	7.79	11.00	Pass
120	5600	4.58	4.27	0.25	7.69	11.00	Pass
124	5620	4.70	4.59	0.25	7.91	11.00	Pass
128	5640	4.97	5.08	0.25	8.29	11.00	Pass
140	5700	5.27	4.83	0.25	8.32	11.00	Pass
144	5720 For U-NII-2C	4.38	4.77	0.25	7.84	11.00	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. Directional gain = $-1.6\text{dBi} + 10\log(2) = 1.41\text{dBi} < 6\text{dBi}$, so the limit no need to reduce.
3. Refer to section 3.3 for duty cycle spectrum plot.

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	4.38	3.81	0.49	7.60	11.00	Pass
40	5200	4.60	3.28	0.49	7.49	11.00	Pass
48	5240	4.64	4.12	0.49	7.88	11.00	Pass
52	5260	4.26	3.89	0.49	7.57	11.00	Pass
60	5300	3.94	3.27	0.49	7.11	11.00	Pass
64	5320	4.70	4.09	0.49	7.90	11.00	Pass
100	5500	4.26	3.10	0.49	7.21	11.00	Pass
116	5580	3.95	4.12	0.49	7.53	11.00	Pass
120	5600	4.00	4.06	0.49	7.53	11.00	Pass
124	5620	3.89	4.30	0.49	7.60	11.00	Pass
128	5640	4.42	4.33	0.49	7.87	11.00	Pass
140	5700	4.66	3.09	0.49	7.44	11.00	Pass
144	5720 For U-NII-2C	3.66	3.47	0.49	7.06	11.00	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 = $-1.6\text{dBi} + 10\log(2) = 1.41\text{dBi} < 6\text{dBi}$, so the limit no need to reduce.
- 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	0.61	-0.95	0.42	3.33	11.00	Pass
46	5230	0.78	0.01	0.42	3.84	11.00	Pass
54	5270	0.46	-0.11	0.42	3.62	11.00	Pass
62	5310	0.67	-0.78	0.42	3.44	11.00	Pass
102	5510	0.59	-0.18	0.42	3.65	11.00	Pass
110	5550	0.46	-0.44	0.42	3.46	11.00	Pass
118	5590	0.04	0.10	0.42	3.50	11.00	Pass
126	5630	0.22	0.75	0.42	3.92	11.00	Pass
134	5670	0.73	0.31	0.42	3.96	11.00	Pass
142	5710 For U-NII-2C	0.33	0.25	0.42	3.72	11.00	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. Directional gain = $-1.6\text{dBi} + 10\log(2) = 1.41\text{dBi} < 6\text{dBi}$, so the limit no need to reduce.
3. 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	-4.06	-4.97	0.80	-0.68	11.00	Pass
58	5290	-4.40	-4.74	0.80	-0.76	11.00	Pass
106	5530	-4.19	-5.44	0.80	-0.96	11.00	Pass
122	5610	-4.79	-3.80	0.80	-0.46	11.00	Pass
138	5690 For U-NII-2C	-3.67	-3.45	0.80	0.25	11.00	Pass

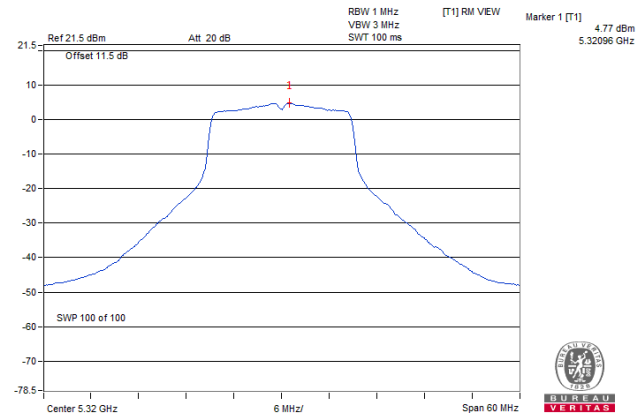
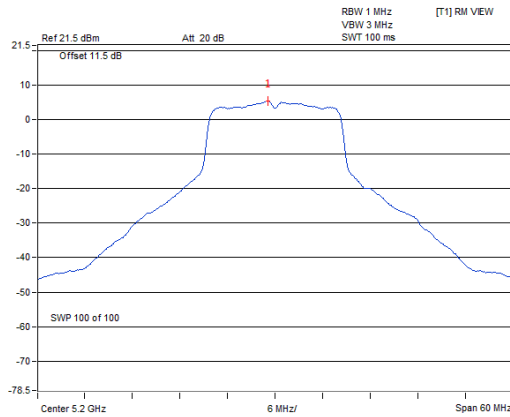
Note:

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. Directional gain = $-1.6\text{dBi} + 10\log(2) = 1.41\text{dBi} < 6\text{dBi}$, so the limit no need to reduce.
3. Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

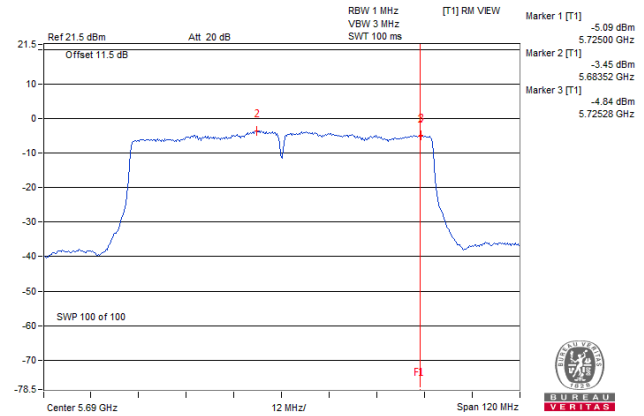
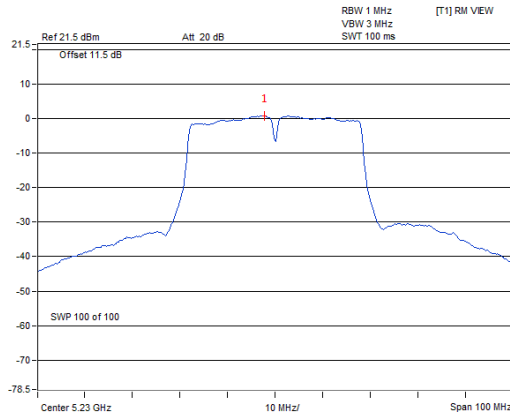
802.11a / Chain 1 / CH 40

802.11n (HT20) / Chain 1 / CH 64



802.11n (HT40) / Chain 1 / CH 46

802.11ac (VHT80) / Chain 0 / CH 138



For U-NII-3 band:
802.11a

TX chain	Channel	Freq. (MHz)	PSD (dBm/300kHz)	PSD (dBm/500kHz)	10 log (N=2) dB	Duty factor	Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
0	144	5720 (For U-NII-3)	-5.33	-3.11	3.01	0.25	0.15	30.00	Pass
	149	5745	-3.35	-1.13	3.01	0.25	2.13	30.00	Pass
	157	5785	-3.54	-1.32	3.01	0.25	1.94	30.00	Pass
	165	5825	-3.36	-1.14	3.01	0.25	2.12	30.00	Pass
1	144	5720 (For U-NII-3)	-5.41	-3.19	3.01	0.25	0.07	30.00	Pass
	149	5745	-4.39	-2.17	3.01	0.25	1.09	30.00	Pass
	157	5785	-3.91	-1.69	3.01	0.25	1.57	30.00	Pass
	165	5825	-4.35	-2.13	3.01	0.25	1.13	30.00	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. Directional gain = $-1.6\text{dBi} + 10\log(2) = 1.41\text{dBi} < 6\text{dBi}$, so the limit no need to reduce.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11n (HT20)

TX chain	Channel	Freq. (MHz)	PSD (dBm/300kHz)	PSD (dBm/500kHz)	10 log (N=2) dB	Duty factor	Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
0	144	5720 (For U-NII-3)	-6.34	-4.12	3.01	0.49	-0.62	30.00	Pass
	149	5745	-3.92	-1.70	3.01	0.49	1.80	30.00	Pass
	157	5785	-3.82	-1.60	3.01	0.49	1.90	30.00	Pass
	165	5825	-3.91	-1.69	3.01	0.49	1.81	30.00	Pass
1	144	5720 (For U-NII-3)	-6.28	-4.06	3.01	0.49	-0.56	30.00	Pass
	149	5745	-5.15	-2.93	3.01	0.49	0.57	30.00	Pass
	157	5785	-4.31	-2.09	3.01	0.49	1.41	30.00	Pass
	165	5825	-4.69	-2.47	3.01	0.49	1.03	30.00	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. Directional gain = $-1.6\text{dBi} + 10\log(2) = 1.41\text{dBi} < 6\text{dBi}$, so the limit no need to reduce.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11n (HT40)

TX chain	Channel	Freq. (MHz)	PSD (dBm/300kHz)	PSD (dBm/500kHz)	10 log (N=2) dB	Duty factor	Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
0	142	5710 (For U-NII-3)	-9.60	-7.38	3.01	0.42	-3.95	30.00	Pass
	151	5755	-8.04	-5.82	3.01	0.42	-2.39	30.00	Pass
	159	5795	-8.13	-5.91	3.01	0.42	-2.48	30.00	Pass
1	142	5710 (For U-NII-3)	-10.03	-7.81	3.01	0.42	-4.38	30.00	Pass
	151	5755	-9.08	-6.86	3.01	0.42	-3.43	30.00	Pass
	159	5795	-8.24	-6.02	3.01	0.42	-2.59	30.00	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. Directional gain = $-1.6\text{dBi} + 10\log(2) = 1.41\text{dBi} < 6\text{dBi}$, so the limit no need to reduce.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ac (VHT80)

TX chain	Channel	Freq. (MHz)	PSD (dBm/300kHz)	PSD (dBm/500kHz)	10 log (N=2) dB	Duty factor	Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
0	138	5690 (For U-NII-3)	-13.51	-11.29	3.01	0.80	-7.48	30.00	Pass
	155	5775	-12.99	-10.77	3.01	0.80	-6.96	30.00	Pass
1	138	5690 (For U-NII-3)	-13.44	-11.22	3.01	0.80	-7.41	30.00	Pass
	155	5775	-13.42	-11.20	3.01	0.80	-7.39	30.00	Pass

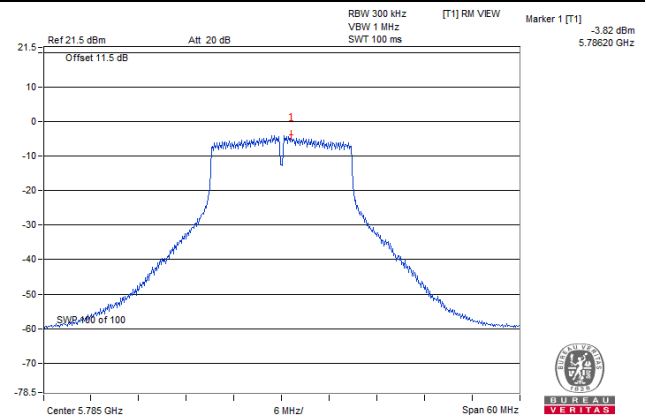
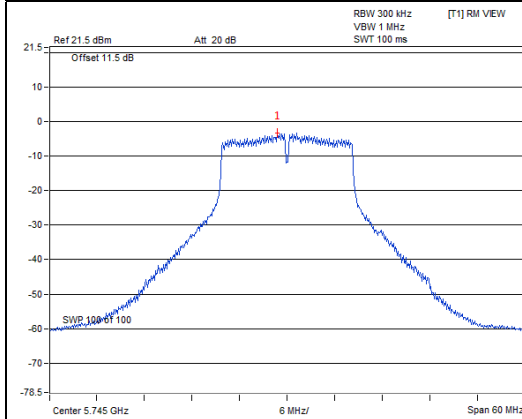
Note:

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. Directional gain = $-1.6\text{dBi} + 10\log(2) = 1.41\text{dBi} < 6\text{dBi}$, so the limit no need to reduce.
3. Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

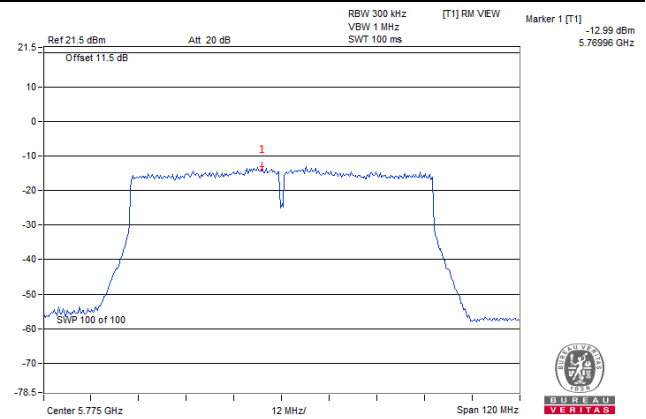
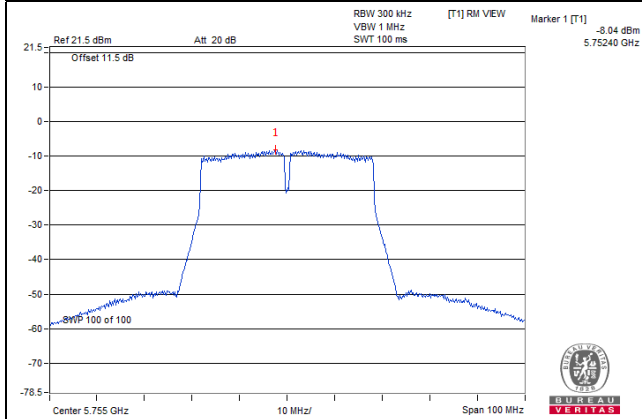
802.11a

802.11n (HT20)



802.11n (HT40)

802.11ac (VHT80)

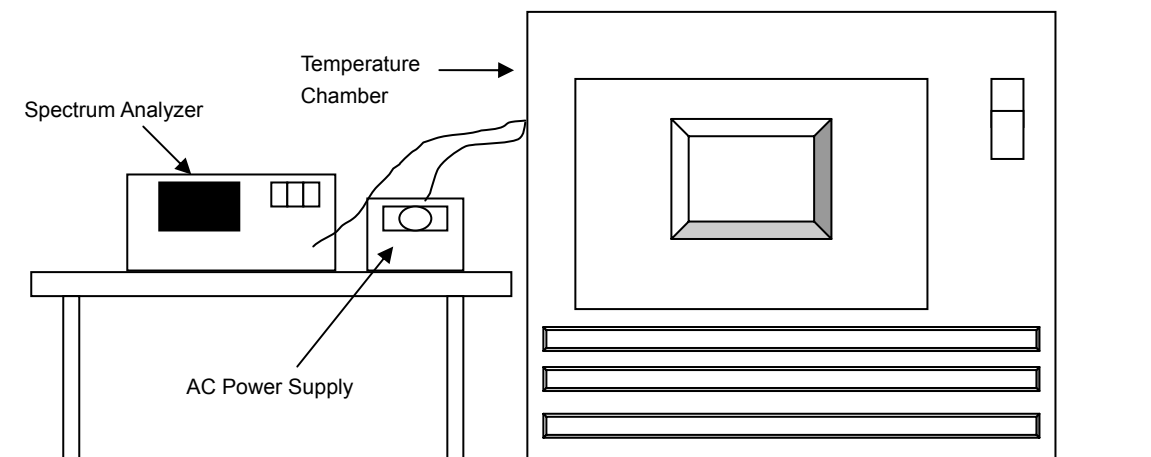


4.6 Frequency Stability

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)	Result	Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result
50	120	5180.0065	PASS	5180.0072	PASS	5180.0041	PASS	5180.0048	PASS
40	120	5180.0169	PASS	5180.0159	PASS	5180.0163	PASS	5180.0177	PASS
30	120	5180.0097	PASS	5180.0127	PASS	5180.0125	PASS	5180.0080	PASS
20	120	5179.9724	PASS	5179.9721	PASS	5179.9737	PASS	5179.9744	PASS
10	120	5180.0104	PASS	5180.0113	PASS	5180.0104	PASS	5180.0116	PASS
0	120	5180.0071	PASS	5180.0060	PASS	5180.0087	PASS	5180.0071	PASS
-10	120	5180.0225	PASS	5180.0185	PASS	5180.0209	PASS	5180.0230	PASS
-20	120	5180.0128	PASS	5180.0104	PASS	5180.0113	PASS	5180.0088	PASS
-30	120	5179.9816	PASS	5179.9835	PASS	5179.9848	PASS	5179.9849	PASS

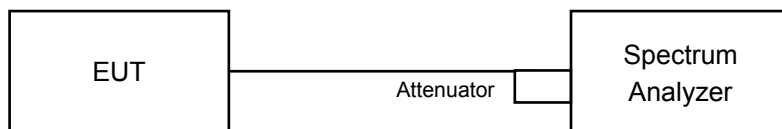
Frequency Stability Versus Voltage									
Operating Frequency: 5180MHz									
Temp. (°C)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result
20	138	5180.0099	PASS	5180.0119	PASS	5180.0106	PASS	5180.0111	PASS
	120	5180.0104	PASS	5180.0113	PASS	5180.0104	PASS	5180.0116	PASS
	102	5180.0111	PASS	5180.0117	PASS	5180.0097	PASS	5180.0112	PASS

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

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
144 (For U-NII-3)	5720	2.57	2.55	0.5	Pass
149	5745	15.44	15.23	0.5	Pass
157	5785	15.75	15.18	0.5	Pass
165	5825	15.19	15.24	0.5	Pass

802.11n (HT20)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
144 (For U-NII-3)	5720	2.54	2.56	0.5	Pass
149	5745	15.51	15.22	0.5	Pass
157	5785	16.56	15.21	0.5	Pass
165	5825	16.02	16.00	0.5	Pass

802.11n (HT40)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
142 (For U-NII-3)	5710	2.61	2.61	0.5	Pass
151	5755	35.28	35.35	0.5	Pass
159	5795	35.27	35.33	0.5	Pass

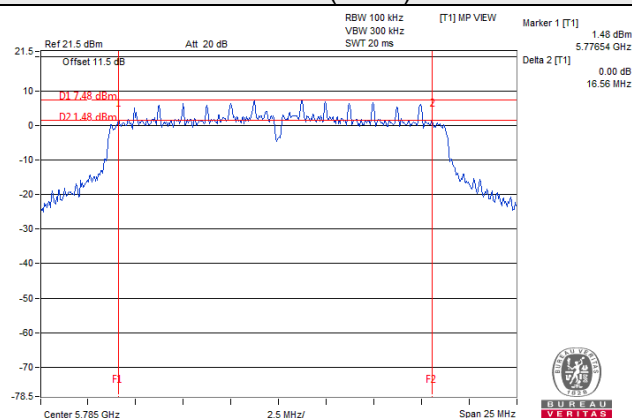
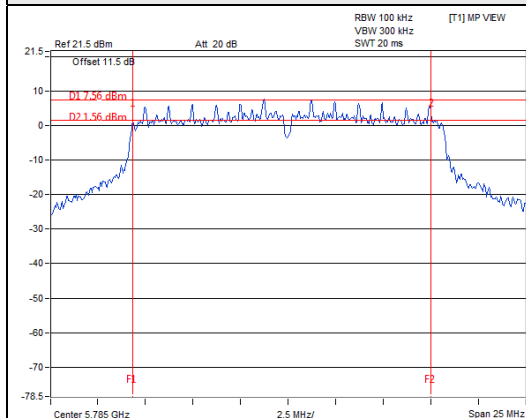
802.11ac (VHT80)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
138 (For U-NII-3)	5690	2.75	2.75	0.5	Pass
155	5775	75.45	75.47	0.5	Pass

Spectrum Plot of Worst Value

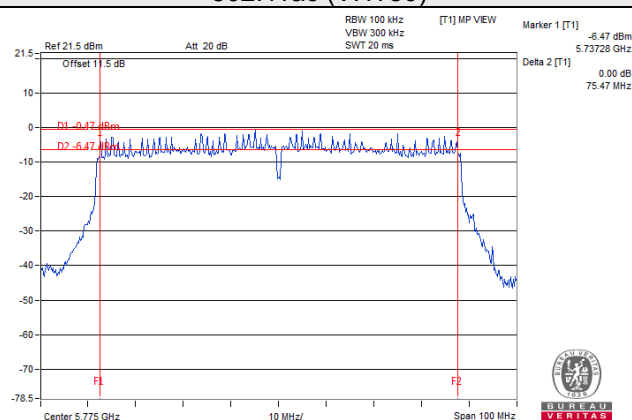
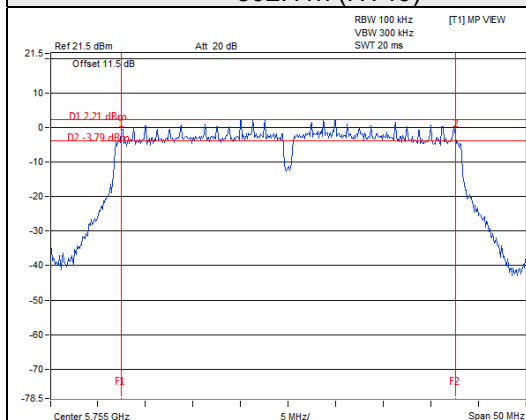
802.11a

802.11n (HT20)



802.11n (HT40)

802.11ac (VHT80)

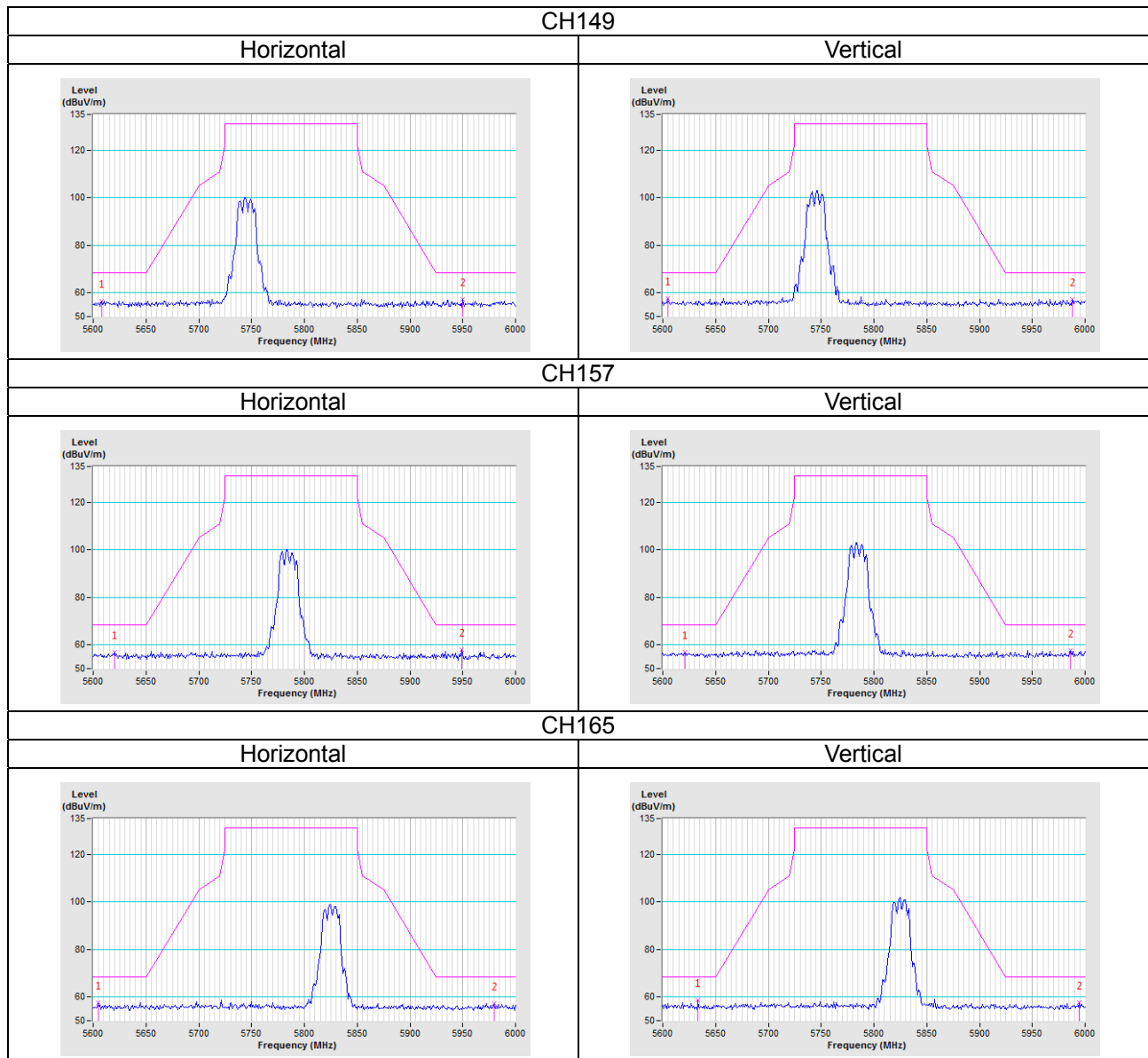


5 Pictures of Test Arrangements

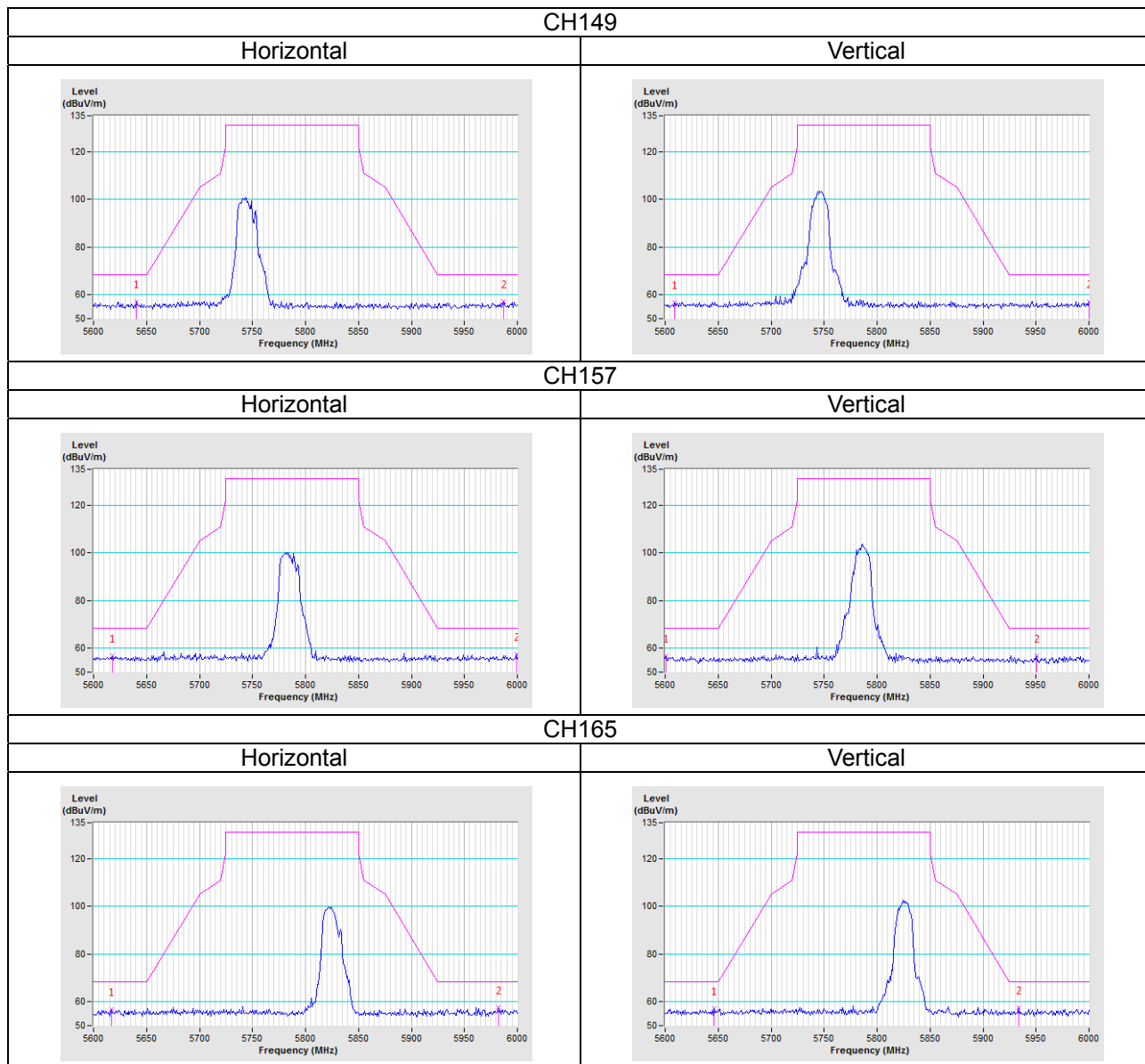
Please refer to the attached file (Test Setup Photo).

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

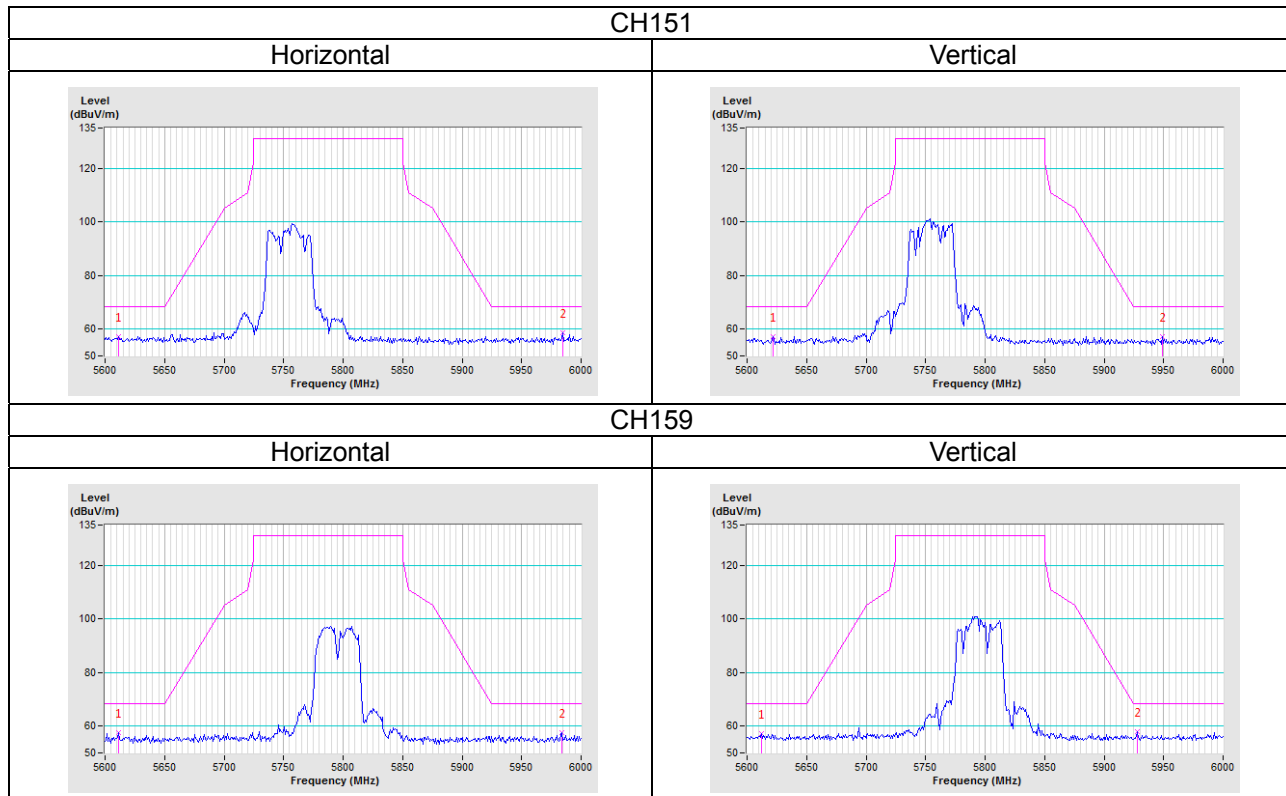
802.11a



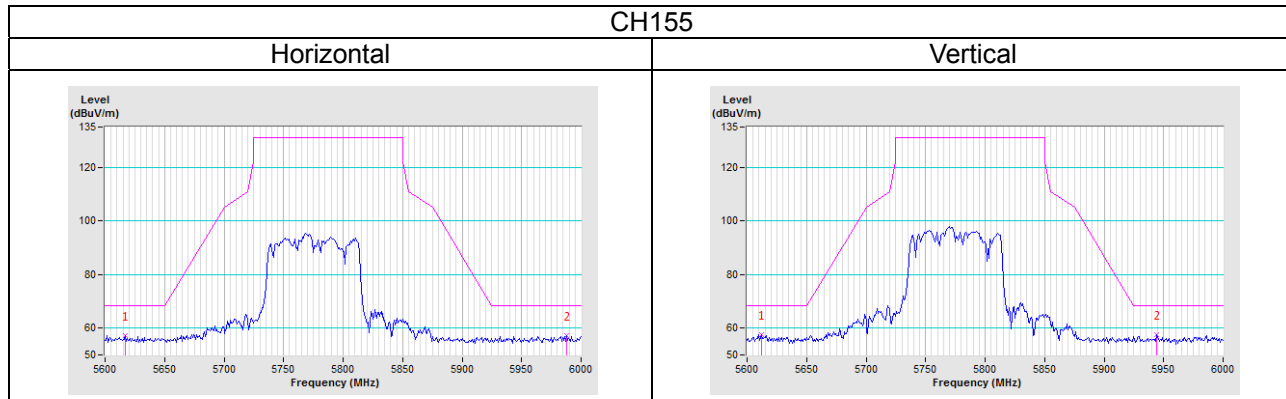
802.11n (HT20)



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 accredited and approved according to ISO/IEC 17025.

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

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Fax: 886-2-26051924

Hsin Chu EMC/RF/Telecom Lab

Tel: 886-3-6668565

Fax: 886-3-6668323

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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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