

FCC Test Report

Report No.: RF160323C07

FCC ID: S4A50-0101-QT-44

Test Model: Amulet 655

Series Model: Amulet 6XYzzzzzz (where "X" can be 0-9, "Y" can be 0-9; "zzzzzz" can be any combination of "0-9", "a-z", "-", "/", or blank for marketing purpose)

Received Date: Mar. 22, 2016

Test Date: Apr. 08 ~ Sep. 20, 2016

Issued Date: Sep. 20, 2016

Applicant: Entone Technologies (HK) Limited

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

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**Release Control Record**

Issue No.	Description	Date Issued
RF160323C07	Original release.	Sep. 20, 2016

1 Certificate of Conformity

Product: High Definition IP TV receiver

Brand: entone, amino

Test Model: Amulet 655

Series Model: Amulet 6XYzzzzzz (where "X" can be 0-9, "Y" can be 0-9; "zzzzzz" can be any combination of "0-9", "a-z", "-", "/", or blank for marketing purpose)

Sample Status: Engineering sample

Applicant: Entone Technologies (HK) Limited

Test Date: Apr. 08 ~ Sep. 20, 2016

Standards: 47 CFR FCC Part 15, Subpart E (Section 15.407)
ANSI C63.10:2013

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

Prepared by :



Date: Sep. 20, 2016

Polly Chien / Specialist

Approved by :



Date: Sep. 20, 2016

Ken Liu / Senior Manager

2 Summary of Test Results

47 CFR FCC Part 15, Subpart E (SECTION 15.407)			
FCC Clause	Test Item	Result	Remarks
15.407(b)(6)	AC Power Conducted Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -17.47dB at 0.48157MHz.
15.407(b)(1/2/3/4/6)	Radiated Emissions & Band Edge Measurement	Pass	Meet the requirement of limit. Minimum passing margin is -1.0dB at 5150.00, 5350.00, 5470.00MHz.
15.407(a)(1/2/3)	Max Average Transmit Power	Pass	Meet the requirement of limit.
15.407(a)(1/2/3)	Peak Power Spectral Density	Pass	Meet the requirement of limit.
15.407(e)	6dB bandwidth	Pass	Meet the requirement of limit. (U-NII-3 Band only)
15.407(g)	Frequency Stability	Pass	Meet the requirement of limit.
15.203	Antenna Requirement	Pass	Antenna connector is IPEX not a standard connector.

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	Expended Uncertainty (k=2) (±)
Conducted Emissions at mains ports	150kHz ~ 30MHz	2.44 dB
Radiated Emissions up to 1 GHz	30MHz ~ 200MHz	3.59 dB
	200MHz ~1000MHz	3.60 dB
Radiated Emissions above 1 GHz	1GHz ~ 18GHz	2.29 dB
	18GHz ~ 40GHz	2.29 dB

2.2 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	High Definition IP TV receiver
Brand	entone, amino
Test Model	Amulet 655
Series Model	Amulet 6XYzzzzzz (where "X" can be 0-9, "Y" can be 0-9; "zzzzzz" can be any combination of "0-9", "a-z", "-", "/", or blank for marketing purpose)
Model Difference	Refer to Note for more details
Sample Status	Engineering sample
Power Supply Rating	12Vdc (adapter)
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 600Mbps 802.11ac: up to 1733.3Mbps
Operating Frequency	5180~5240MHz, 5260~5320MHz, 5500~5700MHz, 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 5500~5700MHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20): 11 802.11n (HT40), 802.11ac (VHT40): 5 802.11ac (VHT80): 2 5745~5825MHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20): 5 802.11n (HT40), 802.11ac (VHT40): 2 802.11ac (VHT80): 1
Output Power	CDD Mode: 5180~5240MHz: 237.079mW 5260~5320MHz: 232.960mW 5500~5700MHz: 239.275mW 5745~5825MHz: 294.165mW Beamforming Mode: 5180~5240MHz: 97.689mW 5260~5320MHz: 95.830mW 5500~5700MHz: 95.924mW 5745~5825MHz: 299.236mW
Antenna Type	Refer to Note
Antenna Connector	Refer to Note
Accessory Device	Adapter, Remote controller (Brand: Stylus, Nova)
Data Cable Supplied	2m shielded HDMI cable without core 2m non-shielded RJ45 cable without core

Note:

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

Modulation Mode	Beamforming Mode	TX Function
802.11a	Not Support	4TX
802.11n (HT20)	Support	4TX
802.11n (HT40)	Support	4TX
802.11ac (VHT20)	Support	4TX
802.11ac (VHT40)	Support	4TX
802.11ac (VHT80)	Support	4TX

* 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)

* For 802.11n and 802.11ac, CDD mode is the worst case for final radiated emission up to 1 GHz and power line conducted emission tests after pretesting.

2. The EUT uses following antennas.

Antenna Type	PIFA	Antenna Connector	IPEX
Gain (dBi)	Frequency 5150~5850MHz		
Ant. 1	3.10		
Ant. 2	3.54		
Ant. 3	2.90		
Ant. 4	2.69		

3. All models are listed as below.

Brand	Model	Difference
entone, amino	Amulet 655 (Main test model)	Marketing purpose
	Amulet 6XYzzzzzz (where "X" can be 0-9, "Y" can be 0-9; "zzzzzz" can be any combination of "0-9", "a-z", "-", "/" or blank for marketing purpose)	

4. The EUT uses following adapter.

Brand	Asian Power Devices Inc.
Model	WA-36A12R
Input Power	100-240Vac, 50-60Hz, 0.9A Max.
Output Power	12Vdc, 3A
Power Line	1.8m DC cable with 1 core attached on adapter

5. The EUT uses 500GB / 1TB HDD.

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	5210MHz

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	5290MHz

5500~5700MHz:

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

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

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

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

2 channels are provided for 802.11ac (VHT80):

Channel	Frequency	Channel	Frequency
106	5530MHz	122	5610 MHz

5745~5825MHz:

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

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

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

Channel	Frequency	Channel	Frequency
151	5755MHz	159	5795MHz

1 channel is provided for 802.11ac (VHT80):

Channel	Frequency
155	5775MHz

3.2.1 Test Mode Applicability and Tested Channel Detail

EUT Configure Mode	Applicable to				Description
	RE $\geq$ 1G	RE<1G	PLC	APCM	
A	√	√	√	√	EUT + 1TB HDD
B	-	√	√	-	EUT + 500GB HDD

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 **X-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)
A	802.11a	5180-5240	36 to 48	36, 40, 48	OFDM	6
	802.11ac (VHT20)		36 to 48	36, 40, 48	OFDM	6.5
	802.11ac (VHT40)		38 to 46	38, 46	OFDM	13.5
	802.11ac (VHT80)		42	42	OFDM	117
A	802.11a	5260-5320	52 to 64	52, 60, 64	OFDM	6
	802.11ac (VHT20)		52 to 64	52, 60, 64	OFDM	6.5
	802.11ac (VHT40)		54 to 62	54, 62	OFDM	13.5
	802.11ac (VHT80)		58	58	OFDM	117
A	802.11a	5500-5700	100 to 140	100, 116, 140	OFDM	6
	802.11ac (VHT20)		100 to 140	100, 116, 140	OFDM	6.5
	802.11ac (VHT40)		102 to 134	102, 110, 134	OFDM	13.5
	802.11ac (VHT80)		106	106	OFDM	117
A	802.11a	5745-5825	149 to 165	149, 157, 165	OFDM	6
	802.11ac (VHT20)		149 to 165	149, 157, 165	OFDM	6.5
	802.11ac (VHT40)		151 to 159	151, 159	OFDM	13.5
	802.11ac (VHT80)		155	155	OFDM	117

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	802.11ac (VHT20)	5180-5240	36 to 48	149	OFDM	6
		5260-5320	52 to 64		OFDM	6.5
		5500-5700	100 to 140		OFDM	13.5
		5745-5825	149 to 165		OFDM	117

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	802.11ac (VHT20)	5180-5240	36 to 48	149	OFDM	6
		5260-5320	52 to 64		OFDM	6.5
		5500-5700	100 to 140		OFDM	13.5
		5745-5825	149 to 165		OFDM	117

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)
A	802.11a	5180-5240	36 to 48	36, 40, 48	OFDM	6
	802.11ac (VHT20)		36 to 48	36, 40, 48	OFDM	6.5
	802.11ac (VHT40)		38 to 46	38, 46	OFDM	13.5
	802.11ac (VHT80)		42	42	OFDM	117
A	802.11a	5260-5320	52 to 64	52, 60, 64	OFDM	6
	802.11ac (VHT20)		52 to 64	52, 60, 64	OFDM	6.5
	802.11ac (VHT40)		54 to 62	54, 62	OFDM	13.5
	802.11ac (VHT80)		58	58	OFDM	117
A	802.11a	5500-5700	100 to 140	100, 116, 140	OFDM	6
	802.11ac (VHT20)		100 to 140	100, 116, 140	OFDM	6.5
	802.11ac (VHT40)		102 to 134	102, 110, 134	OFDM	13.5
	802.11ac (VHT80)		106	106	OFDM	117
A	802.11a	5745-5825	149 to 165	149, 157, 165	OFDM	6
	802.11ac (VHT20)		149 to 165	149, 157, 165	OFDM	6.5
	802.11ac (VHT40)		151 to 159	151, 159	OFDM	13.5
	802.11ac (VHT80)		155	155	OFDM	117

Test Condition:

Applicable to	Environmental Conditions	Input Power	Tested by
RE $\geq$ 1G	25 deg. C, 65% RH	120Vac, 60Hz	Chris Lin
RE<1G	25 deg. C, 65% RH	120Vac, 60Hz	Chris Lin
PLC	25 deg. C, 65% RH	120Vac, 60Hz	Chris Lin
APCM	25 deg. C, 60% RH	120Vac, 60Hz	Frank Liu

3.3 Duty Cycle of Test Signal

CDD Mode

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 = $0.557/0.617 = 0.903$, Duty factor = $10 * \log(1/0.903) = 0.44$

802.11ac (VHT20): Duty cycle = $4.970/5.050 = 0.984$

802.11ac (VHT40): Duty cycle = $2.415/2.502 = 0.965$, Duty factor = $10 * \log(1/0.965) = 0.15$

802.11ac (VHT80): Duty cycle = $1.127/1.202 = 0.938$, Duty factor = $10 * \log(1/0.938) = 0.28$



Beamforming Mode

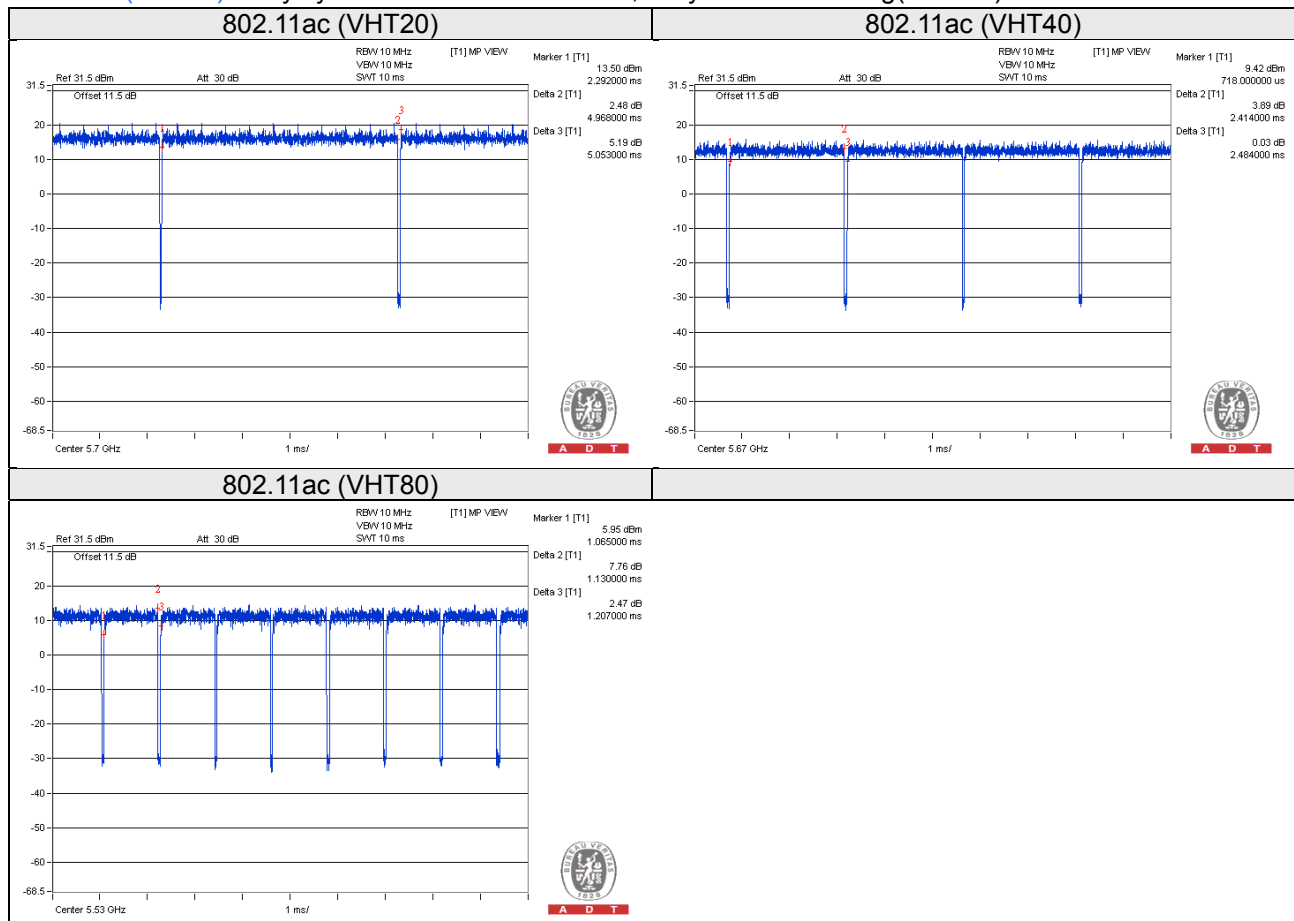
Duty cycle of test signal is $\geq 98\%$, duty factor is not required.

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

802.11ac (VHT20): Duty cycle = $4.968/5.053 = 0.983$

802.11ac (VHT40): Duty cycle = $2.414/2.484 = 0.972$, Duty factor = $10 * \log(1/0.972) = 0.12$

802.11ac (VHT80): Duty cycle = $1.130/1.207 = 0.936$, Duty factor = $10 * \log(1/0.936) = 0.29$



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.

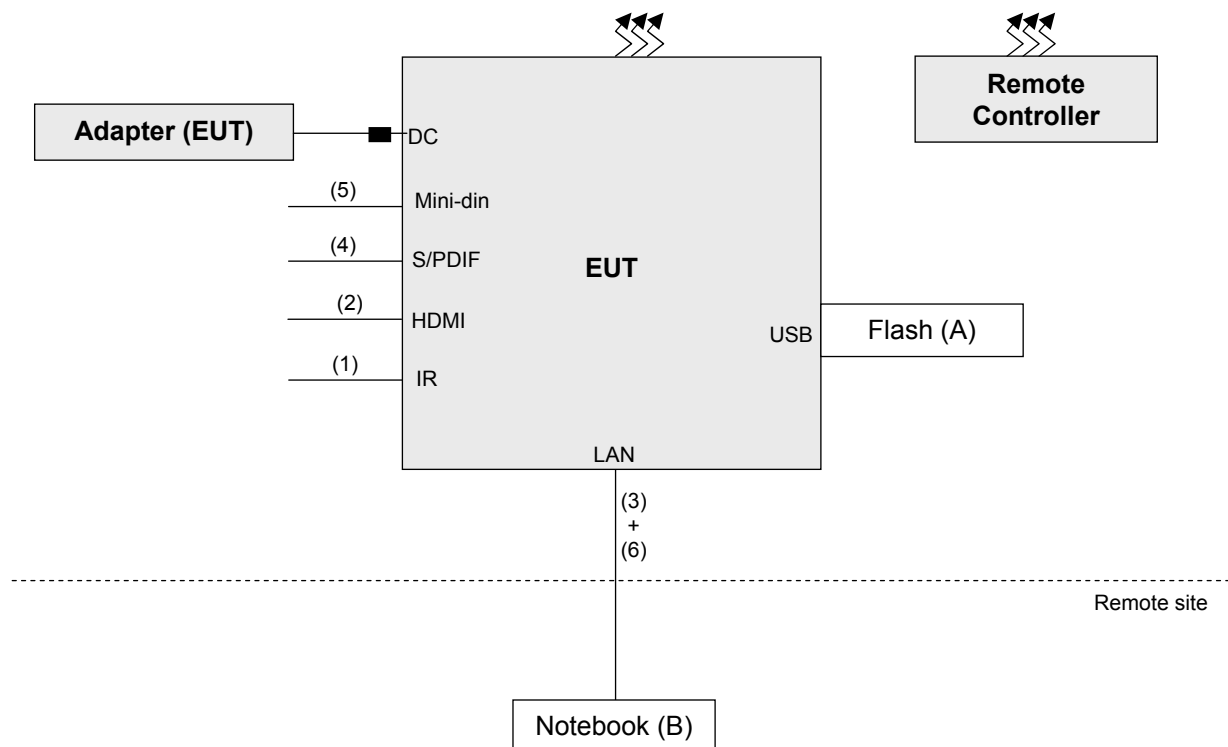
ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	USB Flash Drive	HP	v250W	01	NA	-
B.	Notebook	DELL	E5410	6RP2YM1	FCC DoC Approved	-

Note:

1. All power cords of the above support units are non-shielded (1.8m).
2. Items B acted as communication partners to transfer data.

ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	IR	1	1	-	0	Provided by manufacturer
2.	HDMI	1	2	Y	0	Accessory of EUT
3.	RJ45, Cat5e	1	2	N	0	Accessory of EUT
4.	Fiber	1	1.8	N	0	-
5.	AV	1	1.45	N	0	Provided by manufacturer
6.	RJ45, Cat5e	1	3	N	0	-

3.4.1 Configuration of System under Test



3.5 General Description of Applied Standards

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

FCC Part 15, Subpart E (15.407)

789033 D02 General UNII Test Procedures New Rules v01r03

662911 D01 Multiple Transmitter Output v02r01

ANSI C63.10:2013

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

Note: The EUT has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (DoC).
The test report has been issued separately.

4 Test Types and Results

4.1 Radiated Emission and Bandedge Measurement

4.1.1 Limits of Radiated Emission and Bandedge Measurement

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

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 v01r03	FIELD STRENGTH at 3m	
	PK:74 (dBuV/m)	AV:54 (dBuV/m)
Applicable To	EIRP Limit	Equivalent Field Strength at 3m
15.407(b)(1)	PK:-27 (dBm/MHz)	PK:68.2 (dBuV/m)
15.407(b)(2)		
15.407(b)(3)		
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 (dBuV/m) ^{*1} PK: 105.2 (dBuV/m) ^{*2} PK: 110.8 (dBuV/m) ^{*3} PK: 122.2 (dBuV/m) ^{*4}
15.407(b)(4)(ii)	FIELD STRENGTH at 3m / § 15.247(d),	
	PK:74 (dBuV/m)	AV:54 (dBuV/m)
^{*1} beyond 75 MHz or more above of the band edge. ^{*2} below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above. ^{*3} below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above. ^{*4} from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.		

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

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

4.1.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver ROHDE & SCHWARZ	ESCI	100424	Oct. 12, 2015	Oct. 11, 2016
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100039	May 03, 2015	May 02, 2016
			May 03, 2016	May 02, 2017
BILOG Antenna SCHWARZBECK	VULB9168	9168-155	Jan. 07, 2016	Jan. 06, 2017
HORN Antenna SCHWARZBECK	BBHA 9120D	9120D-1170	Jan. 08, 2016	Jan. 07, 2017
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170241	Jan. 18, 2016	Jan. 17, 2017
Preamplifier Agilent	8449B	3008A01960	Aug. 09, 2015	Aug. 08, 2016
			Aug. 09, 2016	Aug. 08, 2017
Preamplifier Agilent	8447D	2944A10631	Aug. 09, 2015	Aug. 08, 2016
			Aug. 09, 2016	Aug. 08, 2017
RF signal cable HUBER+SUHNER	SUCOFLEX 104	Cable-CH4-02 (295012+309220)	Aug. 09, 2015	Aug. 08, 2016
			Aug. 09, 2016	Aug. 08, 2017
RF signal cable HUBER+SUHNER	SUCOFLEX 104	Cable-CH4-03(250724)	Aug. 09, 2015	Aug. 08, 2016
			Aug. 09, 2016	Aug. 08, 2017
Software BV ADT	ADT_Radiated_ V7.6.15.9.4	NA	NA	NA
Antenna Tower inn-co GmbH	MA 4000	010303	NA	NA
Antenna Tower Controller BV ADT	AT100	AT93021703	NA	NA
Turn Table BV ADT	TT100	TT93021703	NA	NA
Turn Table Controller BV ADT	SC100.	SC93021703	NA	NA
26GHz ~ 40GHz Amplifier	EM26400	815221	Oct. 18, 2015	Oct. 17, 2016
High Speed Peak Power Meter	ML2495A	0824011	Aug. 11, 2015	Aug. 10, 2016
			Aug. 11, 2016	Aug. 10, 2017
Power Sensor	MA2411B	0738171	Aug. 11, 2015	Aug. 10, 2016
			Aug. 11, 2016	Aug. 10, 2017

- Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in HwaYa Chamber 4.
3. The horn antenna and preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
4. The FCC Site Registration No. is 460141.
5. The IC Site Registration No. is IC7450F-4.

4.1.3 Test Procedures

- a. The EUT was placed on the top of a rotating table 0.8 meters (for below 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:

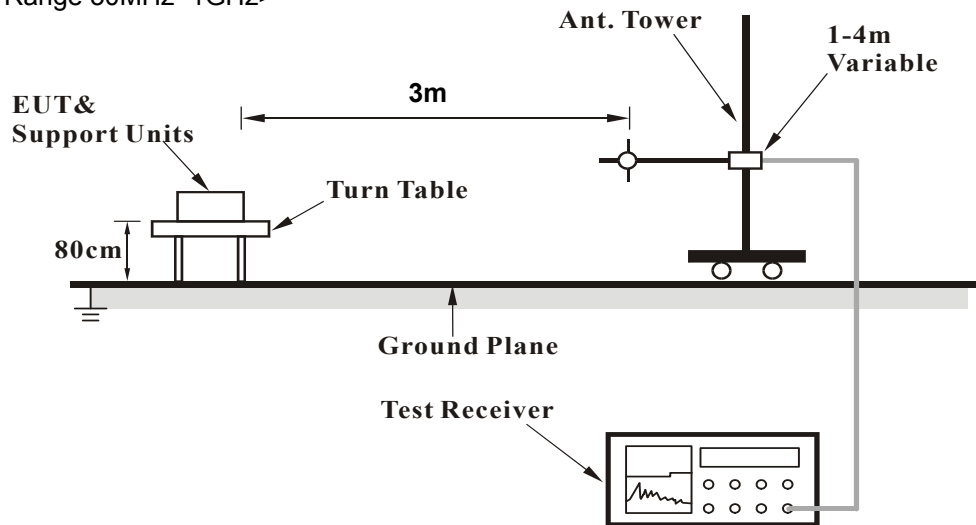
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for RMS Average (Duty cycle < 98%) for Average detection (AV) at frequency above 1GHz, then the measurement results was added to a correction factor ($10 \log(1/\text{duty cycle})$).
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.
5. All modes of operation were investigated and the worst-case emissions are reported.

4.1.4 Deviation from Test Standard

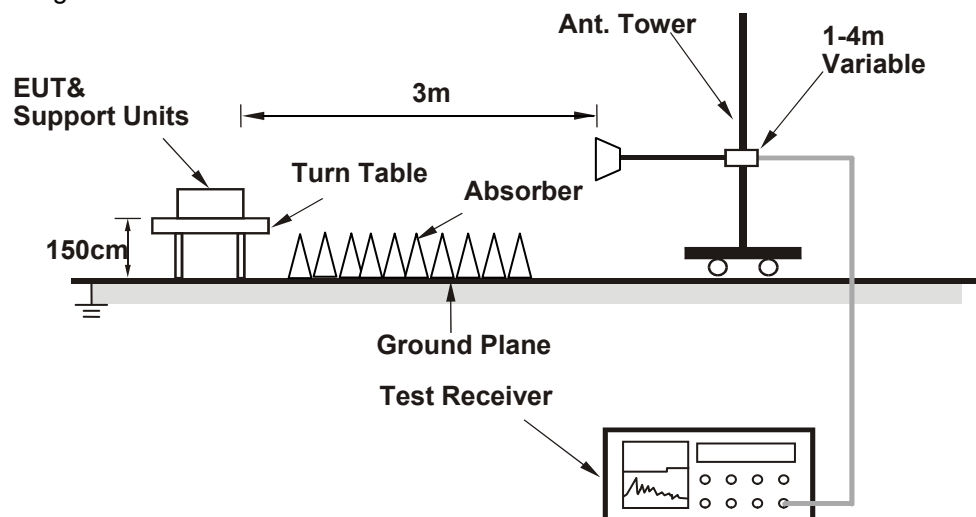
No deviation.

4.1.5 Test Set Up

<Frequency Range 30MHz~1GHz>



<Frequency Range above 1GHz>



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

4.1.6 EUT Operating Conditions

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

4.1.7 Test Results

Above 1GHz data:

CDD Mode

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	59.4 PK	74.0	-14.6	1.52 H	278	53.90	5.50
2	5150.00	47.3 AV	54.0	-6.7	1.52 H	278	41.80	5.50
3	*5180.00	112.0 PK			1.30 H	268	72.50	39.50
4	*5180.00	102.2 AV			1.30 H	268	62.70	39.50
5	#10360.00	58.3 PK	74.0	-15.7	1.08 H	55	40.80	17.50
6	#10360.00	47.3 AV	54.0	-6.7	1.08 H	55	29.80	17.50
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	63.7 PK	74.0	-10.3	1.63 V	248	58.20	5.50
2	5150.00	51.5 AV	54.0	-2.5	1.63 V	248	46.00	5.50
3	*5180.00	116.5 PK			1.53 V	235	77.00	39.50
4	*5180.00	105.8 AV			1.53 V	235	66.30	39.50
5	#10360.00	61.2 PK	74.0	-12.8	1.25 V	96	43.70	17.50
6	#10360.00	50.2 AV	54.0	-3.8	1.25 V	96	32.70	17.50

Remarks:

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

CHANNEL	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	111.3 PK			1.12 H	267	71.70	39.60
2	*5200.00	101.3 AV			1.12 H	267	61.70	39.60
3	#10400.00	58.5 PK	74.0	-15.5	1.05 H	22	40.50	18.00
4	#10400.00	47.8 AV	54.0	-6.2	1.05 H	22	29.80	18.00
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	114.8 PK			1.52 V	252	75.20	39.60
2	*5200.00	104.1 AV			1.52 V	252	64.50	39.60
3	#10400.00	61.3 PK	74.0	-12.7	1.26 V	35	43.30	18.00
4	#10400.00	50.6 AV	54.0	-3.4	1.26 V	35	32.60	18.00

Remarks:

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

CHANNEL	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	112.9 PK			1.54 H	251	73.30	39.60
2	*5240.00	102.7 AV			1.54 H	251	63.10	39.60
3	5350.00	57.6 PK	74.0	-16.4	1.65 H	241	51.90	5.70
4	5350.00	45.5 AV	54.0	-8.5	1.65 H	241	39.80	5.70
5	#10480.00	58.5 PK	74.0	-15.5	1.32 H	69	40.50	18.00
6	#10480.00	48.0 AV	54.0	-6.0	1.32 H	69	30.00	18.00
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	114.5 PK			1.93 V	241	74.90	39.60
2	*5240.00	104.5 AV			1.93 V	241	64.90	39.60
3	5350.00	60.6 PK	74.0	-13.4	1.85 V	256	54.90	5.70
4	5350.00	47.5 AV	54.0	-6.5	1.85 V	256	41.80	5.70
5	#10480.00	60.5 PK	74.0	-13.5	1.25 V	74	42.50	18.00
6	#10480.00	49.9 AV	54.0	-4.1	1.25 V	74	31.90	18.00

Remarks:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	55.8 PK	74.0	-18.2	1.39 H	254	50.30	5.50
2	5150.00	43.6 AV	54.0	-10.4	1.39 H	254	38.10	5.50
3	*5260.00	108.3 PK			1.27 H	268	68.70	39.60
4	*5260.00	98.1 AV			1.27 H	268	58.50	39.60
5	#10520.00	58.5 PK	74.0	-15.5	1.05 H	41	40.50	18.00
6	#10520.00	48.0 AV	54.0	-6.0	1.05 H	41	30.00	18.00
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	58.1 PK	74.0	-15.9	1.62 V	241	52.60	5.50
2	5150.00	46.1 AV	54.0	-7.9	1.62 V	241	40.60	5.50
3	*5260.00	112.7 PK			1.75 V	232	73.10	39.60
4	*5260.00	102.2 AV			1.75 V	232	62.60	39.60
5	#10520.00	61.6 PK	74.0	-12.4	1.25 V	87	43.60	18.00
6	#10520.00	50.0 AV	54.0	-4.0	1.25 V	87	32.00	18.00

Remarks:

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

CHANNEL	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	108.6 PK			1.77 H	247	69.00	39.60
2	*5300.00	98.3 AV			1.77 H	247	58.70	39.60
3	10600.00	58.9 PK	74.0	-15.1	1.39 H	87	40.50	18.40
4	10600.00	48.6 AV	54.0	-5.4	1.39 H	87	30.20	18.40
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	111.2 PK			1.06 V	224	71.60	39.60
2	*5300.00	101.1 AV			1.06 V	224	61.50	39.60
3	10600.00	61.0 PK	74.0	-13.0	1.05 V	77	42.60	18.40
4	10600.00	50.5 AV	54.0	-3.5	1.05 V	77	32.10	18.40

Remarks:

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

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	109.5 PK			1.82 H	245	69.80	39.70
2	*5320.00	99.3 AV			1.82 H	245	59.60	39.70
3	5350.00	59.3 PK	74.0	-14.7	1.74 H	236	53.60	5.70
4	5350.00	46.9 AV	54.0	-7.1	1.74 H	236	41.20	5.70
5	10640.00	59.7 PK	74.0	-14.3	1.25 H	87	41.30	18.40
6	10640.00	48.6 AV	54.0	-5.4	1.25 H	87	30.20	18.40
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	112.1 PK			1.59 V	278	72.40	39.70
2	*5320.00	102.2 AV			1.59 V	278	62.50	39.70
3	5350.00	64.7 PK	74.0	-9.3	1.69 V	264	59.00	5.70
4	5350.00	49.3 AV	54.0	-4.7	1.69 V	264	43.60	5.70
5	10640.00	61.0 PK	74.0	-13.0	1.25 V	87	42.60	18.40
6	10640.00	50.6 AV	54.0	-3.4	1.25 V	87	32.20	18.40

Remarks:

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

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	57.0 PK	74.0	-17.0	1.33 H	219	51.20	5.80
2	5460.00	44.6 AV	54.0	-9.4	1.33 H	219	38.80	5.80
3	#5470.00	59.9 PK	74.0	-14.1	1.39 H	241	54.00	5.90
4	#5470.00	45.9 AV	54.0	-8.1	1.39 H	241	40.00	5.90
5	*5500.00	110.5 PK			1.28 H	256	70.60	39.90
6	*5500.00	100.5 AV			1.28 H	256	60.60	39.90
7	11000.00	60.5 PK	74.0	-13.5	1.15 H	206	41.60	18.90
8	11000.00	49.0 AV	54.0	-5.0	1.15 H	206	30.10	18.90
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	1.61 V	247	51.70	5.80
2	5460.00	45.8 AV	54.0	-8.2	1.61 V	247	40.00	5.80
3	#5470.00	59.9 PK	74.0	-14.1	1.65 V	259	54.00	5.90
4	#5470.00	47.8 AV	54.0	-6.2	1.65 V	259	41.90	5.90
5	*5500.00	112.8 PK			1.68 V	246	72.90	39.90
6	*5500.00	102.2 AV			1.68 V	246	62.30	39.90
7	11000.00	61.9 PK	74.0	-12.1	1.25 V	85	43.00	18.90
8	11000.00	51.0 AV	54.0	-3.0	1.25 V	85	32.10	18.90

Remarks:

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

CHANNEL	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	109.8 PK			1.25 H	256	69.90	39.90
2	*5580.00	100.6 AV			1.25 H	256	60.70	39.90
3	11160.00	60.7 PK	74.0	-13.3	1.47 H	87	41.50	19.20
4	11160.00	49.9 AV	54.0	-4.1	1.47 H	87	30.70	19.20
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5580.00	112.4 PK			1.63 V	349	72.50	39.90
2	*5580.00	102.4 AV			1.63 V	349	62.50	39.90
3	11160.00	62.8 PK	74.0	-11.2	1.58 V	22	43.60	19.20
4	11160.00	51.7 AV	54.0	-2.3	1.58 V	22	32.50	19.20

Remarks:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	110.6 PK			1.44 H	273	70.30	40.30
2	*5700.00	100.6 AV			1.44 H	273	60.30	40.30
3	#5725.00	59.3 PK	74.0	-14.7	1.59 H	238	53.00	6.30
4	#5725.00	47.6 AV	54.0	-6.4	1.59 H	238	41.30	6.30
5	11440.00	61.4 PK	74.0	-12.6	1.32 H	69	41.80	19.60
6	11440.00	49.8 AV	54.0	-4.2	1.32 H	69	30.20	19.60
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	112.7 PK			1.00 V	276	72.40	40.30
2	*5700.00	102.8 AV			1.00 V	276	62.50	40.30
3	#5725.00	65.3 PK	74.0	-8.7	1.17 V	254	59.00	6.30
4	#5725.00	50.3 AV	54.0	-3.7	1.17 V	254	44.00	6.30
5	11400.00	63.3 PK	74.0	-10.7	1.20 V	85	43.60	19.70
6	11400.00	51.9 AV	54.0	-2.1	1.20 V	85	32.20	19.70

Remarks:

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

CHANNEL	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	#5714.00	59.1 PK	109.1	-50.0	1.10 H	247	52.9	6.2
2	#5722.00	67.0 PK	115.4	-48.4	1.16 H	239	60.7	6.3
3	#5725.00	58.4 PK	122.2	-63.8	1.17 H	256	52.1	6.3
4	*5745.00	110.9 PK			1.02 H	254	70.5	40.4
5	*5745.00	100.7 AV			1.02 H	254	60.3	40.4
6	11490.00	59.9 PK	74.0	-14.1	1.05 H	22	40.6	19.3
7	11490.00	47.4 AV	54.0	-6.6	1.05 H	22	28.1	19.3
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	#5714.00	63.2 PK	109.1	-45.9	1.65 V	280	57.0	6.2
2	#5722.00	72.0 PK	115.4	-43.4	1.69 V	256	65.7	6.3
3	#5725.00	65.3 PK	122.2	-56.9	1.63 V	247	59.0	6.3
4	*5745.00	114.4 PK			1.71 V	275	74.0	40.4
5	*5745.00	103.7 AV			1.71 V	275	63.3	40.4
6	11490.00	61.9 PK	74.0	-12.1	1.25 V	96	42.6	19.3
7	11490.00	50.3 AV	54.0	-3.7	1.25 V	96	31.0	19.3

Remarks:

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

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	*5785.00	112.5 PK			1.30 H	271	72.00	40.50
2	*5785.00	102.0 AV			1.30 H	271	61.50	40.50
3	11570.00	59.6 PK	74.0	-14.4	1.47 H	85	40.60	19.00
4	11570.00	47.7 AV	54.0	-6.3	1.47 H	85	28.70	19.00
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	*5785.00	116.5 PK			1.80 V	270	76.00	40.50
2	*5785.00	105.9 AV			1.80 V	270	65.40	40.50
3	11570.00	61.6 PK	74.0	-12.4	1.07 V	41	42.60	19.00
4	11570.00	49.9 AV	54.0	-4.1	1.07 V	41	30.90	19.00

Remarks:

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

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	*5825.00	111.6 PK			1.44 H	278	71.0	40.6
2	*5825.00	101.4 AV			1.44 H	278	60.8	40.6
3	#5850.00	53.3 PK	122.2	-68.9	1.59 H	237	46.7	6.6
4	#5853.00	61.4 PK	115.4	-54.0	1.39 H	241	54.8	6.6
5	#5861.00	60.6 PK	109.1	-48.5	1.56 H	247	54.0	6.6
6	11650.00	59.4 PK	74.0	-14.6	1.04 H	74	40.9	18.5
7	11650.00	47.2 AV	54.0	-6.8	1.04 H	74	28.7	18.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5825.00	115.5 PK			1.77 V	269	74.9	40.6
2	*5825.00	105.4 AV			1.77 V	269	64.8	40.6
3	#5850.00	58.9 PK	122.2	-63.3	1.64 V	247	52.3	6.6
4	#5853.00	64.6 PK	115.4	-50.8	1.57 V	247	58.0	6.6
5	#5861.00	63.6 PK	109.1	-45.5	1.65 V	247	57.0	6.6
6	11650.00	61.1 PK	74.0	-12.9	1.63 V	85	42.6	18.5
7	11650.00	48.6 AV	54.0	-5.4	1.63 V	85	30.1	18.5

Remarks:

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

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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	58.1 PK	74.0	-15.9	1.74 H	207	52.60	5.50
2	5150.00	45.6 AV	54.0	-8.4	1.74 H	207	40.10	5.50
3	*5180.00	111.3 PK			1.84 H	244	71.80	39.50
4	*5180.00	101.3 AV			1.84 H	244	61.80	39.50
5	#10360.00	58.1 PK	74.0	-15.9	1.05 H	87	40.60	17.50
6	#10360.00	47.7 AV	54.0	-6.3	1.05 H	87	30.20	17.50
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	63.4 PK	74.0	-10.6	1.65 V	269	57.90	5.50
2	5150.00	48.8 AV	54.0	-5.2	1.65 V	269	43.30	5.50
3	*5180.00	114.0 PK			1.54 V	240	74.50	39.50
4	*5180.00	104.4 AV			1.54 V	240	64.90	39.50
5	#10360.00	61.1 PK	74.0	-12.9	1.17 V	41	43.60	17.50
6	#10360.00	49.5 AV	54.0	-4.5	1.17 V	41	32.00	17.50

Remarks:

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

CHANNEL	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	111.1 PK			1.27 H	277	71.50	39.60
2	*5200.00	100.8 AV			1.27 H	277	61.20	39.60
3	#10400.00	59.5 PK	74.0	-14.5	1.56 H	32	41.50	18.00
4	#10400.00	48.0 AV	54.0	-6.0	1.56 H	32	30.00	18.00
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	114.8 PK			1.37 V	240	75.20	39.60
2	*5200.00	104.7 AV			1.37 V	240	65.10	39.60
3	#10400.00	61.6 PK	74.0	-12.4	1.07 V	41	43.60	18.00
4	#10400.00	50.0 AV	54.0	-4.0	1.07 V	41	32.00	18.00

Remarks:

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

CHANNEL	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	110.9 PK			1.34 H	255	71.30	39.60
2	*5240.00	100.9 AV			1.34 H	255	61.30	39.60
3	5350.00	57.0 PK	74.0	-17.0	1.55 H	269	51.30	5.70
4	5350.00	44.1 AV	54.0	-9.9	1.55 H	269	38.40	5.70
5	#10480.00	61.7 PK	74.0	-12.3	1.05 H	22	43.70	18.00
6	#10480.00	50.0 AV	54.0	-4.0	1.05 H	22	32.00	18.00
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	115.2 PK			1.66 V	238	75.60	39.60
2	*5240.00	104.7 AV			1.66 V	238	65.10	39.60
3	5350.00	59.4 PK	74.0	-14.6	1.51 V	217	53.70	5.70
4	5350.00	46.3 AV	54.0	-7.7	1.51 V	217	40.60	5.70
5	#10480.00	61.6 PK	74.0	-12.4	1.39 V	64	43.60	18.00
6	#10480.00	50.1 AV	54.0	-3.9	1.39 V	64	32.10	18.00

Remarks:

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

CHANNEL	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	56.5 PK	74.0	-17.5	1.59 H	241	51.00	5.50
2	5150.00	44.5 AV	54.0	-9.5	1.59 H	241	39.00	5.50
3	*5260.00	110.2 PK			1.47 H	266	70.60	39.60
4	*5260.00	100.1 AV			1.47 H	266	60.50	39.60
5	#10520.00	58.6 PK	74.0	-15.4	1.28 H	54	40.60	18.00
6	#10520.00	48.2 AV	54.0	-5.8	1.28 H	54	30.20	18.00
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	59.5 PK	74.0	-14.5	1.52 V	247	54.00	5.50
2	5150.00	46.5 AV	54.0	-7.5	1.52 V	247	41.00	5.50
3	*5260.00	115.4 PK			1.60 V	237	75.80	39.60
4	*5260.00	105.3 AV			1.60 V	237	65.70	39.60
5	#10520.00	61.6 PK	74.0	-12.4	1.47 V	87	43.60	18.00
6	#10520.00	50.1 AV	54.0	-3.9	1.47 V	87	32.10	18.00

Remarks:

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

CHANNEL	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	110.9 PK			1.53 H	294	71.30	39.60
2	*5300.00	100.8 AV			1.53 H	294	61.20	39.60
3	10600.00	59.5 PK	74.0	-14.5	1.52 H	87	41.10	18.40
4	10600.00	49.1 AV	54.0	-4.9	1.52 H	87	30.70	18.40
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	115.2 PK			1.00 V	281	75.60	39.60
2	*5300.00	104.9 AV			1.00 V	281	65.30	39.60
3	10600.00	61.4 PK	74.0	-12.6	1.28 V	54	43.00	18.40
4	10600.00	50.5 AV	54.0	-3.5	1.28 V	54	32.10	18.40

Remarks:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	111.3 PK			1.88 H	271	71.60	39.70
2	*5320.00	101.2 AV			1.88 H	271	61.50	39.70
3	5350.00	64.7 PK	74.0	-9.3	1.74 H	289	59.00	5.70
4	5350.00	46.9 AV	54.0	-7.1	1.74 H	289	41.20	5.70
5	10640.00	59.9 PK	74.0	-14.1	1.18 H	74	41.50	18.40
6	10640.00	48.6 AV	54.0	-5.4	1.18 H	74	30.20	18.40
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	115.3 PK			1.83 V	228	75.60	39.70
2	*5320.00	105.4 AV			1.83 V	228	65.70	39.70
3	5350.00	66.4 PK	74.0	-7.6	1.74 V	239	60.70	5.70
4	5350.00	51.4 AV	54.0	-2.6	1.74 V	239	45.70	5.70
5	10640.00	61.4 PK	74.0	-12.6	1.17 V	41	43.00	18.40
6	10640.00	50.5 AV	54.0	-3.5	1.17 V	41	32.10	18.40

Remarks:

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

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	57.7 PK	74.0	-16.3	1.33 H	247	51.90	5.80
2	5460.00	44.5 AV	54.0	-9.5	1.33 H	247	38.70	5.80
3	#5470.00	59.5 PK	74.0	-14.5	1.39 H	247	53.60	5.90
4	#5470.00	47.1 AV	54.0	-6.9	1.39 H	247	41.20	5.90
5	*5500.00	110.8 PK			1.27 H	258	70.90	39.90
6	*5500.00	100.9 AV			1.27 H	258	61.00	39.90
7	11000.00	60.8 PK	74.0	-13.2	1.36 H	98	41.90	18.90
8	11000.00	48.9 AV	54.0	-5.1	1.36 H	98	30.00	18.90
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	59.5 PK	74.0	-14.5	1.42 V	247	53.70	5.80
2	5460.00	46.8 AV	54.0	-7.2	1.42 V	247	41.00	5.80
3	#5470.00	66.8 PK	74.0	-7.2	1.47 V	263	60.90	5.90
4	#5470.00	49.8 AV	54.0	-4.2	1.47 V	263	43.90	5.90
5	*5500.00	114.5 PK			1.58 V	278	74.60	39.90
6	*5500.00	103.8 AV			1.58 V	278	63.90	39.90
7	11000.00	60.4 PK	74.0	-13.6	1.08 V	55	41.50	18.90
8	11000.00	50.2 AV	54.0	-3.8	1.08 V	55	31.30	18.90

Remarks:

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

CHANNEL	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	110.4 PK			1.26 H	255	70.50	39.90
2	*5580.00	100.2 AV			1.26 H	255	60.30	39.90
3	11160.00	60.7 PK	74.0	-13.3	1.33 H	226	41.50	19.20
4	11160.00	49.3 AV	54.0	-4.7	1.33 H	226	30.10	19.20
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5580.00	112.9 PK			1.69 V	352	73.00	39.90
2	*5580.00	103.6 AV			1.69 V	352	63.70	39.90
3	11160.00	62.8 PK	74.0	-11.2	1.47 V	85	43.60	19.20
4	11160.00	51.3 AV	54.0	-2.7	1.47 V	85	32.10	19.20

Remarks:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	111.3 PK			1.50 H	18	71.00	40.30
2	*5700.00	101.0 AV			1.50 H	18	60.70	40.30
3	#5725.00	59.3 PK	74.0	-14.7	1.59 H	28	53.00	6.30
4	#5725.00	47.4 AV	54.0	-6.6	1.59 H	28	41.10	6.30
5	11400.00	60.9 PK	74.0	-13.1	1.33 H	69	41.20	19.70
6	11400.00	49.9 AV	54.0	-4.1	1.33 H	69	30.20	19.70
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	114.0 PK			1.00 V	266	73.70	40.30
2	*5700.00	103.8 AV			1.00 V	266	63.50	40.30
3	#5725.00	60.3 PK	74.0	-13.7	1.18 V	214	54.00	6.30
4	#5725.00	50.3 AV	54.0	-3.7	1.18 V	214	44.00	6.30
5	11400.00	63.3 PK	74.0	-10.7	1.33 V	69	43.60	19.70
6	11400.00	52.4 AV	54.0	-1.6	1.33 V	69	32.70	19.70

Remarks:

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

CHANNEL	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	#5714.00	60.2 PK	109.1	-48.9	1.26 H	258	54.0	6.2
2	#5722.00	71.7 PK	115.4	-43.7	1.27 H	254	65.4	6.3
3	#5725.00	63.2 PK	122.2	-59.0	1.39 H	289	56.9	6.3
4	*5745.00	112.2 PK			1.21 H	270	71.8	40.4
5	*5745.00	102.2 AV			1.21 H	270	61.8	40.4
6	11490.00	59.5 PK	74.0	-14.5	1.05 H	77	40.2	19.3
7	11490.00	47.4 AV	54.0	-6.6	1.05 H	77	28.1	19.3
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	#5714.00	64.9 PK	109.1	-44.2	2.17 V	254	58.7	6.2
2	#5722.00	75.1 PK	115.4	-40.3	2.18 V	254	68.8	6.3
3	#5725.00	68.4 PK	122.2	-53.8	1.98 V	247	62.1	6.3
4	*5745.00	115.3 PK			2.08 V	262	74.9	40.4
5	*5745.00	105.4 AV			2.08 V	262	65.0	40.4
6	11490.00	61.9 PK	74.0	-12.1	1.25 V	44	42.6	19.3
7	11490.00	50.2 AV	54.0	-3.8	1.25 V	44	30.9	19.3

Remarks:

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

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	*5785.00	112.2 PK			1.02 H	267	71.70	40.50
2	*5785.00	102.3 AV			1.02 H	267	61.80	40.50
3	11570.00	59.6 PK	74.0	-14.4	1.05 H	89	40.60	19.00
4	11570.00	47.4 AV	54.0	-6.6	1.05 H	89	28.40	19.00
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	*5785.00	115.4 PK			1.57 V	262	74.90	40.50
2	*5785.00	105.5 AV			1.57 V	262	65.00	40.50
3	11570.00	61.6 PK	74.0	-12.4	1.33 V	228	42.60	19.00
4	11570.00	49.5 AV	54.0	-4.5	1.33 V	228	30.50	19.00

Remarks:

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

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	*5825.00	113.2 PK			1.09 H	276	72.6	40.6
2	*5825.00	102.2 AV			1.09 H	276	61.6	40.6
3	#5850.00	55.6 PK	122.2	-66.6	1.29 H	251	49.0	6.6
4	#5853.00	64.5 PK	115.4	-50.9	1.19 H	264	57.9	6.6
5	#5861.00	60.6 PK	109.1	-48.5	1.18 H	287	54.0	6.6
6	11650.00	59.1 PK	74.0	-14.9	1.06 H	31	40.6	18.5
7	11650.00	46.9 AV	54.0	-7.1	1.06 H	31	28.4	18.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5825.00	115.5 PK			1.65 V	270	74.9	40.6
2	*5825.00	105.5 AV			1.65 V	270	64.9	40.6
3	#5850.00	58.4 PK	122.2	-63.8	1.74 V	255	51.8	6.6
4	#5853.00	64.4 PK	115.4	-51.0	1.71 V	264	57.8	6.6
5	#5861.00	63.6 PK	109.1	-45.5	1.72 V	264	57.0	6.6
6	11650.00	61.4 PK	74.0	-12.6	1.32 V	69	42.9	18.5
7	11650.00	48.7 AV	54.0	-5.3	1.32 V	69	30.2	18.5

Remarks:

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

802.11ac (VHT40)

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	62.5 PK	74.0	-11.5	1.32 H	280	57.00	5.50
2	5150.00	49.7 AV	54.0	-4.3	1.32 H	280	44.20	5.50
3	*5190.00	105.4 PK			1.21 H	271	65.90	39.50
4	*5190.00	95.6 AV			1.21 H	271	56.10	39.50
5	#10380.00	58.1 PK	74.0	-15.9	1.08 H	77	40.30	17.80
6	#10380.00	46.3 AV	54.0	-7.7	1.08 H	77	28.50	17.80
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	66.3 PK	74.0	-7.7	1.42 V	289	60.80	5.50
2	5150.00	53.0 AV	54.0	-1.0	1.42 V	289	47.50	5.50
3	*5190.00	108.1 PK			1.75 V	240	68.60	39.50
4	*5190.00	97.2 AV			1.75 V	240	57.70	39.50
5	#10380.00	60.4 PK	74.0	-13.6	1.25 V	87	42.60	17.80
6	#10380.00	48.8 AV	54.0	-5.2	1.25 V	87	31.00	17.80

Remarks:

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

CHANNEL	TX Channel 46	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	*5230.00	107.1 PK			1.18 H	272	67.50	39.60
2	*5230.00	96.7 AV			1.18 H	272	57.10	39.60
3	5350.00	56.9 PK	74.0	-17.1	1.29 H	287	51.20	5.70
4	5350.00	44.7 AV	54.0	-9.3	1.29 H	287	39.00	5.70
5	#10460.00	59.0 PK	74.0	-15.0	1.17 H	41	41.00	18.00
6	#10460.00	46.1 AV	54.0	-7.9	1.17 H	41	28.10	18.00
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	110.4 PK			1.53 V	290	70.80	39.60
2	*5230.00	99.2 AV			1.53 V	290	59.60	39.60
3	5350.00	58.7 PK	74.0	-15.3	1.63 V	287	53.00	5.70
4	5350.00	47.2 AV	54.0	-6.8	1.63 V	287	41.50	5.70
5	#10460.00	60.6 PK	74.0	-13.4	1.58 V	97	42.60	18.00
6	#10460.00	48.0 AV	54.0	-6.0	1.58 V	97	30.00	18.00

Remarks:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	57.4 PK	74.0	-16.6	1.74 H	254	51.90	5.50
2	5150.00	44.2 AV	54.0	-9.8	1.74 H	254	38.70	5.50
3	*5270.00	107.4 PK			1.98 H	287	67.80	39.60
4	*5270.00	97.0 AV			1.98 H	287	57.40	39.60
5	#10540.00	58.4 PK	74.0	-15.6	1.07 H	88	40.30	18.10
6	#10540.00	46.9 AV	54.0	-7.1	1.07 H	88	28.80	18.10
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	59.2 PK	74.0	-14.8	2.29 V	241	53.70	5.50
2	5150.00	46.5 AV	54.0	-7.5	2.29 V	241	41.00	5.50
3	*5270.00	111.6 PK			2.16 V	253	72.00	39.60
4	*5270.00	100.9 AV			2.16 V	253	61.30	39.60
5	#10540.00	60.7 PK	74.0	-13.3	1.35 V	98	42.60	18.10
6	#10540.00	48.3 AV	54.0	-5.7	1.35 V	98	30.20	18.10

Remarks:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5310.00	106.0 PK			1.53 H	284	66.40	39.60
2	*5310.00	95.9 AV			1.53 H	284	56.30	39.60
3	5350.00	58.3 PK	74.0	-15.7	1.45 H	237	52.60	5.70
4	5350.00	46.3 AV	54.0	-7.7	1.45 H	237	40.60	5.70
5	10620.00	58.9 PK	74.0	-15.1	1.07 H	44	40.60	18.30
6	10620.00	46.7 AV	54.0	-7.3	1.07 H	44	28.40	18.30
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5310.00	109.2 PK			1.98 V	251	69.60	39.60
2	*5310.00	98.1 AV			1.98 V	251	58.50	39.60
3	5350.00	70.8 PK	74.0	-3.2	1.85 V	269	65.10	5.70
4	5350.00	52.7 AV	54.0	-1.3	1.85 V	269	47.00	5.70
5	10620.00	58.8 PK	74.0	-15.2	1.36 V	98	40.50	18.30
6	10620.00	48.5 AV	54.0	-5.5	1.36 V	98	30.20	18.30

Remarks:

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

CHANNEL	TX Channel 102	DETECTOR	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	1.05 H	341	51.50	5.80
2	5460.00	45.5 AV	54.0	-8.5	1.05 H	341	39.70	5.80
3	#5470.00	64.9 PK	74.0	-9.1	1.08 H	350	59.00	5.90
4	#5470.00	47.8 AV	54.0	-6.2	1.08 H	350	41.90	5.90
5	*5510.00	105.6 PK			1.05 H	355	65.70	39.90
6	*5510.00	94.9 AV			1.05 H	355	55.00	39.90
7	11020.00	59.1 PK	74.0	-14.9	1.47 H	74	40.10	19.00
8	11020.00	47.7 AV	54.0	-6.3	1.47 H	74	28.70	19.00
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	62.8 PK	74.0	-11.2	1.74 V	278	57.00	5.80
2	5460.00	47.7 AV	54.0	-6.3	1.74 V	278	41.90	5.80
3	#5470.00	67.4 PK	74.0	-6.6	1.58 V	266	61.50	5.90
4	#5470.00	53.0 AV	54.0	-1.0	1.58 V	266	47.10	5.90
5	*5510.00	109.8 PK			1.66 V	10	69.90	39.90
6	*5510.00	98.7 AV			1.66 V	10	58.80	39.90
7	11020.00	61.6 PK	74.0	-12.4	1.36 V	98	42.60	19.00
8	11020.00	49.2 AV	54.0	-4.8	1.36 V	98	30.20	19.00

Remarks:

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

CHANNEL	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	105.5 PK			1.47 H	268	65.50	40.00
2	*5550.00	95.0 AV			1.47 H	268	55.00	40.00
3	11100.00	60.9 PK	74.0	-13.1	1.47 H	44	41.30	19.60
4	11100.00	48.3 AV	54.0	-5.7	1.47 H	44	28.70	19.60
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	110.5 PK			1.72 V	360	70.50	40.00
2	*5550.00	100.4 AV			1.72 V	360	60.40	40.00
3	11100.00	62.5 PK	74.0	-11.5	1.36 V	98	42.90	19.60
4	11100.00	49.8 AV	54.0	-4.2	1.36 V	98	30.20	19.60

Remarks:

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

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	106.9 PK			1.75 H	10	66.70	40.20
2	*5670.00	96.2 AV			1.75 H	10	56.00	40.20
3	#5725.00	58.6 PK	74.0	-15.4	1.62 H	16	52.30	6.30
4	#5725.00	46.3 AV	54.0	-7.7	1.62 H	16	40.00	6.30
5	11340.00	60.3 PK	74.0	-13.7	1.15 H	20	40.60	19.70
6	11340.00	47.8 AV	54.0	-6.2	1.15 H	20	28.10	19.70
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	108.2 PK			1.92 V	9	68.00	40.20
2	*5670.00	97.6 AV			1.92 V	9	57.40	40.20
3	#5725.00	61.3 PK	74.0	-12.7	1.85 V	15	55.00	6.30
4	#5725.00	48.9 AV	54.0	-5.1	1.85 V	15	42.60	6.30
5	11340.00	62.3 PK	74.0	-11.7	1.33 V	69	42.60	19.70
6	11340.00	49.9 AV	54.0	-4.1	1.33 V	69	30.20	19.70

Remarks:

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

CHANNEL	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	#5714.00	64.6 PK	109.1	-44.5	1.17 H	282	58.4	6.2
2	#5722.00	71.3 PK	115.4	-44.1	1.17 H	280	65.0	6.3
3	#5725.00	58.3 PK	122.2	-63.9	1.15 H	289	52.0	6.3
4	*5755.00	106.2 PK			1.02 H	277	65.7	40.5
5	*5755.00	96.4 AV			1.02 H	277	55.9	40.5
6	11510.00	59.7 PK	74.0	-14.3	1.25 H	87	40.6	19.1
7	11510.00	47.7 AV	54.0	-6.3	1.25 H	87	28.6	19.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5714.00	66.4 PK	109.1	-42.7	1.53 V	0	60.2	6.2
2	#5722.00	76.7 PK	115.4	-38.7	1.63 V	10	70.4	6.3
3	#5725.00	66.8 PK	122.2	-55.4	1.63 V	15	60.5	6.3
4	*5755.00	109.7 PK			1.00 V	272	69.2	40.5
5	*5755.00	99.0 AV			1.00 V	272	58.5	40.5
6	11510.00	61.4 PK	74.0	-12.6	1.14 V	74	42.3	19.1
7	11510.00	49.3 AV	54.0	-4.7	1.14 V	74	30.2	19.1

Remarks:

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

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	*5795.00	108.4 PK			1.13 H	268	67.9	40.5
2	*5795.00	98.0 AV			1.13 H	268	57.5	40.5
3	#5850.00	60.6 PK	122.2	-61.6	1.39 H	247	54.0	6.6
4	#5853.00	59.4 PK	115.4	-56.0	1.29 H	271	52.8	6.6
5	#5861.00	58.5 PK	109.1	-50.6	1.26 H	271	51.9	6.6
6	11590.00	59.3 PK	74.0	-14.7	1.08 H	77	40.6	18.7
7	11590.00	47.1 AV	54.0	-6.9	1.08 H	77	28.4	18.7
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	*5795.00	108.8 PK			1.40 V	329	68.3	40.5
2	*5795.00	98.4 AV			1.40 V	329	57.9	40.5
3	#5850.00	57.0 PK	122.2	-65.2	1.24 V	310	50.4	6.6
4	#5853.00	61.5 PK	115.4	-53.9	1.56 V	317	54.9	6.6
5	#5861.00	60.6 PK	109.1	-48.5	1.50 V	339	54.0	6.6
6	11590.00	60.8 PK	74.0	-13.2	1.25 V	74	42.1	18.7
7	11590.00	48.8 AV	54.0	-5.2	1.25 V	74	30.1	18.7

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

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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	61.5 PK	74.0	-12.5	1.65 H	269	56.00	5.50
2	5150.00	51.1 AV	54.0	-2.9	1.65 H	269	45.60	5.50
3	*5210.00	101.4 PK			1.72 H	251	61.80	39.60
4	*5210.00	92.3 AV			1.72 H	251	52.70	39.60
5	#10420.00	58.1 PK	74.0	-15.9	1.02 H	55	40.10	18.00
6	#10420.00	46.1 AV	54.0	-7.9	1.02 H	55	28.10	18.00
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	67.8 PK	74.0	-6.2	1.69 V	242	62.30	5.50
2	5150.00	52.8 AV	54.0	-1.2	1.69 V	242	47.30	5.50
3	*5210.00	106.2 PK			1.69 V	236	66.60	39.60
4	*5210.00	95.7 AV			1.69 V	236	56.10	39.60
5	#10420.00	60.6 PK	74.0	-13.4	1.62 V	85	42.60	18.00
6	#10420.00	48.1 AV	54.0	-5.9	1.62 V	85	30.10	18.00

Remarks:

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

CHANNEL	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	104.2 PK			2.16 H	245	64.60	39.60
2	*5290.00	93.9 AV			2.16 H	245	54.30	39.60
3	5350.00	64.7 PK	74.0	-9.3	4.00 H	259	59.00	5.70
4	5350.00	49.6 AV	54.0	-4.4	4.00 H	259	43.90	5.70
5	#10580.00	58.6 PK	74.0	-15.4	1.08 H	77	40.30	18.30
6	#10580.00	47.0 AV	54.0	-7.0	1.08 H	77	28.70	18.30
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5290.00	107.4 PK			1.60 V	234	67.80	39.60
2	*5290.00	97.1 AV			1.60 V	234	57.50	39.60
3	5350.00	69.0 PK	74.0	-5.0	1.85 V	293	63.30	5.70
4	5350.00	53.0 AV	54.0	-1.0	1.85 V	293	47.30	5.70
5	#10580.00	60.5 PK	74.0	-13.5	1.47 V	85	42.20	18.30
6	#10580.00	48.9 AV	54.0	-5.1	1.47 V	85	30.60	18.30

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
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	57.8 PK	74.0	-16.2	1.47 H	236	52.00	5.80
2	5460.00	46.0 AV	54.0	-8.0	1.47 H	236	40.20	5.80
3	#5470.00	66.8 PK	74.0	-7.2	1.54 H	246	60.90	5.90
4	#5470.00	49.9 AV	54.0	-4.1	1.54 H	246	44.00	5.90
5	*5530.00	103.4 PK			1.63 H	259	63.50	39.90
6	*5530.00	93.5 AV			1.63 H	259	53.60	39.90
7	#5725.00	56.3 PK	74.0	-17.7	1.47 H	236	50.00	6.30
8	#5725.00	44.8 AV	54.0	-9.2	1.47 H	236	38.50	6.30
9	11060.00	59.8 PK	74.0	-14.2	1.15 H	20	40.60	19.20
10	11060.00	47.9 AV	54.0	-6.1	1.15 H	20	28.70	19.20
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	61.7 PK	74.0	-12.3	1.69 V	258	55.90	5.80
2	5460.00	48.8 AV	54.0	-5.2	1.69 V	258	43.00	5.80
3	#5470.00	67.9 PK	74.0	-6.1	1.56 V	249	62.00	5.90
4	#5470.00	52.6 AV	54.0	-1.4	1.56 V	249	46.70	5.90
5	*5530.00	106.9 PK			1.80 V	354	67.00	39.90
6	*5530.00	97.3 AV			1.80 V	354	57.40	39.90
7	#5725.00	56.8 PK	74.0	-17.2	1.69 V	258	50.50	6.30
8	#5725.00	45.1 AV	54.0	-8.9	1.69 V	258	38.80	6.30
9	11060.00	61.8 PK	74.0	-12.2	1.25 V	85	42.60	19.20
10	11060.00	49.3 AV	54.0	-4.7	1.25 V	85	30.10	19.20

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
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	#5725.00	56.1 PK	122.2	-66.1	1.23 H	272	49.8	6.3
2	*5775.00	102.4 PK			1.23 H	272	61.9	40.5
3	*5775.00	95.0 AV			1.23 H	272	54.5	40.5
4	#5850.00	53.5 PK	122.2	-68.7	1.63 H	254	46.9	6.6
5	#5853.00	63.5 PK	115.4	-51.9	1.52 H	278	56.9	6.6
6	#5861.00	63.5 PK	109.1	-45.6	1.29 H	281	56.9	6.6
7	11550.00	59.6 PK	74.0	-14.4	1.08 H	44	40.6	19.0
8	11550.00	47.2 AV	54.0	-6.8	1.08 H	44	28.2	19.0
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	#5714.00	66.9 PK	109.1	-42.2	1.62 V	275	60.7	6.2
2	#5722.00	67.2 PK	115.4	-48.2	1.54 V	271	60.9	6.3
3	#5725.00	59.2 PK	122.2	-63.0	1.54 V	261	52.9	6.3
4	*5775.00	107.4 PK			1.56 V	273	66.9	40.5
5	*5775.00	97.6 AV			1.56 V	273	57.1	40.5
6	#5850.00	56.1 PK	122.2	-66.1	1.54 V	261	49.5	6.6
7	11550.00	61.6 PK	74.0	-12.4	1.05 V	22	42.6	19.0
8	11550.00	49.1 AV	54.0	-4.9	1.05 V	22	30.1	19.0

Remarks:

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

Beamforming Mode

802.11ac (VHT20)

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	55.6 PK	74.0	-18.4	1.56 H	321	50.10	5.50
2	5150.00	44.2 AV	54.0	-9.8	1.56 H	321	38.70	5.50
3	*5180.00	107.8 PK			1.11 H	275	68.30	39.50
4	*5180.00	97.1 AV			1.11 H	275	57.60	39.50
5	#10360.00	57.8 PK	74.0	-16.2	1.47 H	84	40.30	17.50
6	#10360.00	45.6 AV	54.0	-8.4	1.47 H	84	28.10	17.50
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	59.5 PK	74.0	-14.5	1.94 V	268	54.00	5.50
2	5150.00	46.1 AV	54.0	-7.9	1.94 V	268	40.60	5.50
3	*5180.00	111.6 PK			1.83 V	251	72.10	39.50
4	*5180.00	101.2 AV			1.83 V	251	61.70	39.50
5	#10360.00	60.1 PK	74.0	-13.9	1.05 V	74	42.60	17.50
6	#10360.00	47.6 AV	54.0	-6.4	1.05 V	74	30.10	17.50

Remarks:

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

CHANNEL	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	106.5 PK			2.11 H	32	66.90	39.60
2	*5200.00	95.6 AV			2.11 H	32	56.00	39.60
3	#10400.00	58.6 PK	74.0	-15.4	1.47 H	84	40.60	18.00
4	#10400.00	46.4 AV	54.0	-7.6	1.47 H	84	28.40	18.00
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	111.1 PK			1.16 V	252	71.50	39.60
2	*5200.00	101.0 AV			1.16 V	252	61.40	39.60
3	#10400.00	60.6 PK	74.0	-13.4	1.25 V	97	42.60	18.00
4	#10400.00	48.1 AV	54.0	-5.9	1.25 V	97	30.10	18.00

Remarks:

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

CHANNEL	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	108.6 PK			1.11 H	262	69.00	39.60
2	*5240.00	97.5 AV			1.11 H	262	57.90	39.60
3	5350.00	55.9 PK	74.0	-18.1	1.27 H	274	50.20	5.70
4	5350.00	44.4 AV	54.0	-9.6	1.27 H	274	38.70	5.70
5	#10480.00	58.3 PK	74.0	-15.7	1.05 H	213	40.30	18.00
6	#10480.00	46.1 AV	54.0	-7.9	1.05 H	213	28.10	18.00
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	112.6 PK			1.01 V	229	73.00	39.60
2	*5240.00	100.8 AV			1.01 V	229	61.20	39.60
3	5350.00	58.3 PK	74.0	-15.7	1.18 V	247	52.60	5.70
4	5350.00	46.2 AV	54.0	-7.8	1.18 V	247	40.50	5.70
5	#10480.00	60.5 PK	74.0	-13.5	1.26 V	39	42.50	18.00
6	#10480.00	48.1 AV	54.0	-5.9	1.26 V	39	30.10	18.00

Remarks:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	55.6 PK	74.0	-18.4	1.36 H	314	50.10	5.50
2	5150.00	43.9 AV	54.0	-10.1	1.36 H	314	38.40	5.50
3	*5260.00	109.2 PK			1.19 H	292	69.60	39.60
4	*5260.00	97.5 AV			1.19 H	292	57.90	39.60
5	#10520.00	58.7 PK	74.0	-15.3	1.05 H	74	40.60	18.10
6	#10520.00	46.2 AV	54.0	-7.8	1.05 H	74	28.10	18.10
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	58.1 PK	74.0	-15.9	1.47 V	248	52.60	5.50
2	5150.00	46.0 AV	54.0	-8.0	1.47 V	248	40.50	5.50
3	*5260.00	112.6 PK			1.51 V	232	73.00	39.60
4	*5260.00	101.5 AV			1.51 V	232	61.90	39.60
5	#10520.00	60.7 PK	74.0	-13.3	1.44 V	74	42.60	18.10
6	#10520.00	48.2 AV	54.0	-5.8	1.44 V	74	30.10	18.10

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
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	108.3 PK			1.10 H	266	68.70	39.60
2	*5300.00	96.6 AV			1.10 H	266	57.00	39.60
3	10600.00	59.0 PK	74.0	-15.0	1.28 H	54	40.60	18.40
4	10600.00	46.8 AV	54.0	-7.2	1.28 H	54	28.40	18.40
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	112.4 PK			1.06 V	231	72.80	39.60
2	*5300.00	101.4 AV			1.06 V	231	61.80	39.60
3	10600.00	60.5 PK	74.0	-13.5	1.28 V	54	42.10	18.40
4	10600.00	48.9 AV	54.0	-5.1	1.28 V	54	30.50	18.40

Remarks:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	108.5 PK			1.56 H	289	68.80	39.70
2	*5320.00	97.5 AV			1.56 H	289	57.80	39.70
3	5350.00	56.3 PK	74.0	-17.7	1.69 H	271	50.60	5.70
4	5350.00	44.4 AV	54.0	-9.6	1.69 H	271	38.70	5.70
5	10640.00	59.0 PK	74.0	-15.0	1.07 H	44	40.60	18.40
6	10640.00	46.8 AV	54.0	-7.2	1.07 H	44	28.40	18.40
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	111.5 PK			1.68 V	254	71.80	39.70
2	*5320.00	101.6 AV			1.68 V	254	61.90	39.70
3	5350.00	56.3 PK	74.0	-17.7	1.57 V	214	50.60	5.70
4	5350.00	44.4 AV	54.0	-9.6	1.57 V	214	38.70	5.70
5	10640.00	61.0 PK	74.0	-13.0	1.48 V	74	42.60	18.40
6	10640.00	48.5 AV	54.0	-5.5	1.48 V	74	30.10	18.40

Remarks:

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

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	55.7 PK	74.0	-18.3	1.47 H	84	49.90	5.80
2	5460.00	44.5 AV	54.0	-9.5	1.47 H	84	38.70	5.80
3	#5470.00	56.5 PK	74.0	-17.5	1.47 H	87	50.60	5.90
4	#5470.00	45.4 AV	54.0	-8.6	1.47 H	87	39.50	5.90
5	*5500.00	77.4 PK			1.39 H	64	71.50	5.90
6	*5500.00	67.4 AV			1.39 H	64	61.50	5.90
7	11000.00	59.2 PK	74.0	-14.8	1.17 H	41	40.30	18.90
8	11000.00	47.0 AV	54.0	-7.0	1.17 H	41	28.10	18.90
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	57.0 PK	74.0	-17.0	1.23 V	64	51.20	5.80
2	5460.00	45.3 AV	54.0	-8.7	1.23 V	64	39.50	5.80
3	#5470.00	57.5 PK	74.0	-16.5	1.47 V	52	51.60	5.90
4	#5470.00	46.5 AV	54.0	-7.5	1.47 V	52	40.60	5.90
5	*5500.00	112.5 PK			1.47 V	85	72.60	39.90
6	*5500.00	101.6 AV			1.47 V	85	61.70	39.90
7	11000.00	61.5 PK	74.0	-12.5	1.05 V	21	42.60	18.90
8	11000.00	49.0 AV	54.0	-5.0	1.05 V	21	30.10	18.90

Remarks:

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

CHANNEL	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	106.8 PK			1.00 H	360	66.90	39.90
2	*5580.00	96.6 AV			1.00 H	360	56.70	39.90
3	11160.00	59.5 PK	74.0	-14.5	1.05 H	63	40.30	19.20
4	11160.00	47.3 AV	54.0	-6.7	1.05 H	63	28.10	19.20
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5580.00	111.7 PK			1.19 V	247	71.80	39.90
2	*5580.00	101.1 AV			1.19 V	247	61.20	39.90
3	11160.00	61.8 PK	74.0	-12.2	1.26 V	302	42.60	19.20
4	11160.00	49.4 AV	54.0	-4.6	1.26 V	302	30.20	19.20

Remarks:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	99.3 PK			1.09 H	302	59.00	40.30
2	*5700.00	97.3 AV			1.09 H	302	57.00	40.30
3	#5725.00	56.7 PK	74.0	-17.3	1.26 H	327	50.40	6.30
4	#5725.00	45.0 AV	54.0	-9.0	1.26 H	327	38.70	6.30
5	11400.00	59.8 PK	74.0	-14.2	1.06 H	302	40.10	19.70
6	11400.00	47.8 AV	54.0	-6.2	1.06 H	302	28.10	19.70
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	112.2 PK			1.05 V	251	71.90	40.30
2	*5700.00	102.0 AV			1.05 V	251	61.70	40.30
3	#5725.00	57.9 PK	74.0	-16.1	1.19 V	267	51.60	6.30
4	#5725.00	46.9 AV	54.0	-7.1	1.19 V	267	40.60	6.30
5	11400.00	62.3 PK	74.0	-11.7	1.32 V	69	42.60	19.70
6	11400.00	49.9 AV	54.0	-4.1	1.32 V	69	30.20	19.70

Remarks:

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

CHANNEL	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	#5714.00	63.2 PK	109.1	-45.9	2.18 H	256	57.0	6.2
2	#5722.00	76.6 PK	115.4	-38.8	2.18 H	264	70.3	6.3
3	#5725.00	66.4 PK	122.2	-55.8	1.85 H	217	60.1	6.3
4	*5745.00	113.2 PK			2.07 H	244	72.8	40.4
5	*5745.00	101.6 AV			2.07 H	244	61.2	40.4
6	11490.00	59.9 PK	74.0	-14.1	1.05 H	63	40.6	19.3
7	11490.00	47.4 AV	54.0	-6.6	1.05 H	63	28.1	19.3
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	#5714.00	65.2 PK	109.1	-43.9	1.64 V	269	59.0	6.2
2	#5722.00	76.8 PK	115.4	-38.6	1.64 V	258	70.5	6.3
3	#5725.00	70.0 PK	122.2	-52.2	1.64 V	269	63.7	6.3
4	*5745.00	116.4 PK			1.73 V	245	76.0	40.4
5	*5745.00	105.8 AV			1.73 V	245	65.4	40.4
6	11490.00	61.9 PK	74.0	-12.1	1.25 V	87	42.6	19.3
7	11490.00	49.4 AV	54.0	-4.6	1.25 V	87	30.1	19.3

Remarks:

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

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	*5785.00	112.7 PK			1.13 H	292	72.20	40.50
2	*5785.00	101.5 AV			1.13 H	292	61.00	40.50
3	11570.00	59.6 PK	74.0	-14.4	1.08 H	74	40.60	19.00
4	11570.00	47.4 AV	54.0	-6.6	1.08 H	74	28.40	19.00
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	*5785.00	116.3 PK			1.52 V	14	75.80	40.50
2	*5785.00	104.9 AV			1.52 V	14	64.40	40.50
3	11570.00	61.6 PK	74.0	-12.4	1.36 V	98	42.60	19.00
4	11570.00	49.2 AV	54.0	-4.8	1.36 V	98	30.20	19.00

Remarks:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5825.00	113.2 PK			1.09 H	287	72.6	40.6
2	*5825.00	102.3 AV			1.09 H	287	61.7	40.6
3	#5850.00	57.4 PK	122.2	-64.8	4.00 H	63	50.8	6.6
4	#5853.00	67.0 PK	115.4	-48.4	1.18 H	254	60.4	6.6
5	#5861.00	62.0 PK	109.1	-47.1	1.18 H	300	55.4	6.6
6	11650.00	59.1 PK	74.0	-14.9	1.06 H	30	40.6	18.5
7	11650.00	46.5 AV	54.0	-7.5	1.06 H	30	28.0	18.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5825.00	116.2 PK			1.14 V	246	75.6	40.6
2	*5825.00	105.0 AV			1.14 V	246	64.4	40.6
3	#5850.00	59.6 PK	122.2	-62.6	1.47 V	249	53.0	6.6
4	#5853.00	69.5 PK	115.4	-45.9	1.28 V	258	62.9	6.6
5	#5861.00	62.6 PK	109.1	-46.5	1.36 V	268	56.0	6.6
6	11650.00	58.8 PK	74.0	-15.2	1.05 V	7	40.3	18.5
7	11650.00	46.5 AV	54.0	-7.5	1.05 V	7	28.0	18.5

Remarks:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	55.9 PK	74.0	-18.1	1.28 H	271	50.40	5.50
2	5150.00	44.2 AV	54.0	-9.8	1.28 H	271	38.70	5.50
3	*5190.00	106.0 PK			1.16 H	281	66.50	39.50
4	*5190.00	94.7 AV			1.16 H	281	55.20	39.50
5	#10380.00	58.1 PK	74.0	-15.9	1.47 H	87	40.30	17.80
6	#10380.00	46.2 AV	54.0	-7.8	1.47 H	87	28.40	17.80
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	59.5 PK	74.0	-14.5	1.18 V	269	54.00	5.50
2	5150.00	47.0 AV	54.0	-7.0	1.18 V	269	41.50	5.50
3	*5190.00	111.3 PK			1.07 V	250	71.80	39.50
4	*5190.00	101.3 AV			1.07 V	250	61.80	39.50
5	#10380.00	60.4 PK	74.0	-13.6	1.07 V	85	42.60	17.80
6	#10380.00	47.9 AV	54.0	-6.1	1.07 V	85	30.10	17.80

Remarks:

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

CHANNEL	TX Channel 46	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	*5230.00	105.5 PK			1.06 H	286	65.90	39.60
2	*5230.00	94.7 AV			1.06 H	286	55.10	39.60
3	5350.00	56.7 PK	74.0	-17.3	1.32 H	301	51.00	5.70
4	5350.00	44.4 AV	54.0	-9.6	1.32 H	301	38.70	5.70
5	#10460.00	58.6 PK	74.0	-15.4	1.45 H	205	40.60	18.00
6	#10460.00	46.1 AV	54.0	-7.9	1.45 H	205	28.10	18.00
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	110.8 PK			1.03 V	231	71.20	39.60
2	*5230.00	100.0 AV			1.03 V	231	60.40	39.60
3	5350.00	58.3 PK	74.0	-15.7	1.47 V	248	52.60	5.70
4	5350.00	46.6 AV	54.0	-7.4	1.47 V	248	40.90	5.70
5	#10460.00	60.6 PK	74.0	-13.4	1.52 V	64	42.60	18.00
6	#10460.00	48.1 AV	54.0	-5.9	1.52 V	64	30.10	18.00

Remarks:

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

CHANNEL	TX Channel 54	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	55.6 PK	74.0	-18.4	1.69 H	278	50.10	5.50
2	5150.00	44.2 AV	54.0	-9.8	1.69 H	278	38.70	5.50
3	*5270.00	105.6 PK			1.58 H	286	66.00	39.60
4	*5270.00	95.1 AV			1.58 H	286	55.50	39.60
5	#10540.00	58.4 PK	74.0	-15.6	1.47 H	87	40.30	18.10
6	#10540.00	46.8 AV	54.0	-7.2	1.47 H	87	28.70	18.10
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	59.5 PK	74.0	-14.5	2.28 V	269	54.00	5.50
2	5150.00	47.1 AV	54.0	-6.9	2.28 V	269	41.60	5.50
3	*5270.00	110.6 PK			2.08 V	250	71.00	39.60
4	*5270.00	99.7 AV			2.08 V	250	60.10	39.60
5	#10540.00	60.6 PK	74.0	-13.4	1.32 V	69	42.50	18.10
6	#10540.00	48.3 AV	54.0	-5.7	1.32 V	69	30.20	18.10

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
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	106.3 PK			1.88 H	293	66.70	39.60
2	*5310.00	95.3 AV			1.88 H	293	55.70	39.60
3	5350.00	56.9 PK	74.0	-17.1	1.74 H	248	51.20	5.70
4	5350.00	46.2 AV	54.0	-7.8	1.74 H	248	40.50	5.70
5	10620.00	58.9 PK	74.0	-15.1	1.05 H	63	40.60	18.30
6	10620.00	46.7 AV	54.0	-7.3	1.05 H	63	28.40	18.30
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5310.00	110.4 PK			1.07 V	229	70.80	39.60
2	*5310.00	100.0 AV			1.07 V	229	60.40	39.60
3	5350.00	59.7 PK	74.0	-14.3	1.18 V	256	54.00	5.70
4	5350.00	48.5 AV	54.0	-5.5	1.18 V	256	42.80	5.70
5	10620.00	60.6 PK	74.0	-13.4	1.69 V	85	42.30	18.30
6	10620.00	48.5 AV	54.0	-5.5	1.69 V	85	30.20	18.30

Remarks:

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

CHANNEL	TX Channel 102	DETECTOR	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	57.5 PK	74.0	-16.5	1.58 H	128	51.70	5.80
2	5460.00	44.5 AV	54.0	-9.5	1.58 H	128	38.70	5.80
3	#5470.00	58.0 PK	74.0	-16.0	1.54 H	219	52.10	5.90
4	#5470.00	45.8 AV	54.0	-8.2	1.54 H	219	39.90	5.90
5	*5510.00	72.8 PK			1.68 H	207	66.90	5.90
6	*5510.00	61.6 AV			1.68 H	207	55.70	5.90
7	11020.00	59.2 PK	74.0	-14.8	1.47 H	13	40.20	19.00
8	11020.00	47.1 AV	54.0	-6.9	1.47 H	13	28.10	19.00
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	58.4 PK	74.0	-15.6	1.58 V	74	52.60	5.80
2	5460.00	45.8 AV	54.0	-8.2	1.58 V	74	40.00	5.80
3	#5470.00	60.8 PK	74.0	-13.2	1.58 V	96	54.90	5.90
4	#5470.00	47.9 AV	54.0	-6.1	1.58 V	96	42.00	5.90
5	*5510.00	76.7 PK			1.47 V	56	70.80	5.90
6	*5510.00	66.7 AV			1.47 V	56	60.80	5.90
7	11020.00	61.6 PK	74.0	-12.4	1.08 V	206	42.60	19.00
8	11020.00	49.1 AV	54.0	-4.9	1.08 V	206	30.10	19.00

Remarks:

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

CHANNEL	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	106.9 PK			1.60 H	0	66.90	40.00
2	*5550.00	95.8 AV			1.60 H	0	55.80	40.00
3	11100.00	59.7 PK	74.0	-14.3	1.14 H	74	40.10	19.60
4	11100.00	48.0 AV	54.0	-6.0	1.14 H	74	28.40	19.60
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	111.2 PK			1.67 V	251	71.20	40.00
2	*5550.00	100.1 AV			1.67 V	251	60.10	40.00
3	11100.00	62.2 PK	74.0	-11.8	1.20 V	85	42.60	19.60
4	11100.00	49.7 AV	54.0	-4.3	1.20 V	85	30.10	19.60

Remarks:

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

CHANNEL	TX Channel 134	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	*5670.00	105.6 PK			1.46 H	3	65.40	40.20
2	*5670.00	95.6 AV			1.46 H	3	55.40	40.20
3	#5725.00	56.7 PK	74.0	-17.3	1.59 H	10	50.40	6.30
4	#5725.00	45.0 AV	54.0	-9.0	1.59 H	10	38.70	6.30
5	11340.00	59.9 PK	74.0	-14.1	1.05 H	63	40.20	19.70
6	11340.00	48.1 AV	54.0	-5.9	1.05 H	63	28.40	19.70
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	111.0 PK			1.16 V	248	70.80	40.20
2	*5670.00	100.3 AV			1.16 V	248	60.10	40.20
3	#5725.00	58.3 PK	74.0	-15.7	1.26 V	269	52.00	6.30
4	#5725.00	46.3 AV	54.0	-7.7	1.26 V	269	40.00	6.30
5	11340.00	62.3 PK	74.0	-11.7	1.28 V	54	42.60	19.70
6	11340.00	49.9 AV	54.0	-4.1	1.28 V	54	30.20	19.70

Remarks:

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

CHANNEL	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	#5714.00	61.6 PK	109.1	-47.5	1.17 H	300	55.4	6.2
2	#5722.00	69.3 PK	115.4	-46.1	1.17 H	341	63.0	6.3
3	#5725.00	57.3 PK	122.2	-64.9	1.17 H	326	51.0	6.3
4	*5755.00	107.5 PK			1.01 H	292	67.0	40.5
5	*5755.00	95.7 AV			1.01 H	292	55.2	40.5
6	11510.00	59.7 PK	74.0	-14.3	1.05 H	65	40.6	19.1
7	11510.00	47.2 AV	54.0	-6.8	1.05 H	65	28.1	19.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5714.00	72.2 PK	109.1	-36.9	1.27 V	254	66.0	6.2
2	#5722.00	74.7 PK	115.4	-40.7	1.39 V	267	68.4	6.3
3	#5725.00	63.2 PK	122.2	-59.0	1.18 V	347	56.9	6.3
4	*5755.00	111.6 PK			1.00 V	251	71.1	40.5
5	*5755.00	101.5 AV			1.00 V	251	61.0	40.5
6	11510.00	61.4 PK	74.0	-12.6	1.05 V	20	42.3	19.1
7	11510.00	49.3 AV	54.0	-4.7	1.05 V	20	30.2	19.1

Remarks:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5795.00	109.2 PK			1.54 H	271	68.7	40.5
2	*5795.00	98.2 AV			1.54 H	271	57.7	40.5
3	#5850.00	55.0 PK	122.2	-67.2	1.86 H	238	48.4	6.6
4	#5853.00	61.5 PK	115.4	-53.9	1.47 H	247	54.9	6.6
5	#5861.00	59.1 PK	109.1	-50.0	1.67 H	259	52.5	6.6
6	11590.00	58.8 PK	74.0	-15.2	1.14 H	74	40.1	18.7
7	11590.00	46.8 AV	54.0	-7.2	1.14 H	74	28.1	18.7
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	*5795.00	115.4 PK			1.80 V	250	74.9	40.5
2	*5795.00	103.7 AV			1.80 V	250	63.2	40.5
3	#5850.00	57.0 PK	122.2	-65.2	1.67 V	216	50.4	6.6
4	#5853.00	62.5 PK	115.4	-52.9	1.74 V	241	55.9	6.6
5	#5861.00	60.6 PK	109.1	-48.5	1.90 V	241	54.0	6.6
6	11590.00	61.3 PK	74.0	-12.7	1.56 V	32	42.6	18.7
7	11590.00	49.1 AV	54.0	-4.9	1.56 V	32	30.4	18.7

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)
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	61.2 PK	74.0	-12.8	1.29 H	273	55.70	5.50
2	5150.00	45.6 AV	54.0	-8.4	1.29 H	273	40.10	5.50
3	*5210.00	66.7 PK			1.00 H	280	61.20	5.50
4	*5210.00	56.5 AV			1.00 H	280	51.00	5.50
5	#10420.00	58.2 PK	74.0	-15.8	1.06 H	30	40.20	18.00
6	#10420.00	46.1 AV	54.0	-7.9	1.06 H	30	28.10	18.00
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	64.6 PK	74.0	-9.4	1.26 V	241	59.10	5.50
2	5150.00	48.1 AV	54.0	-5.9	1.26 V	241	42.60	5.50
3	*5210.00	106.6 PK			1.16 V	252	67.00	39.60
4	*5210.00	95.6 AV			1.16 V	252	56.00	39.60
5	#10420.00	60.6 PK	74.0	-13.4	1.25 V	74	42.60	18.00
6	#10420.00	48.1 AV	54.0	-5.9	1.25 V	74	30.10	18.00

Remarks:

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

CHANNEL	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	100.6 PK			1.75 H	11	61.00	39.60
2	*5290.00	89.7 AV			1.75 H	11	50.10	39.60
3	5350.00	56.3 PK	74.0	-17.7	1.57 H	341	50.60	5.70
4	5350.00	44.4 AV	54.0	-9.6	1.57 H	341	38.70	5.70
5	#10580.00	58.9 PK	74.0	-15.1	1.09 H	64	40.60	18.30
6	#10580.00	46.4 AV	54.0	-7.6	1.09 H	64	28.10	18.30
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5290.00	108.3 PK			2.09 V	252	68.70	39.60
2	*5290.00	95.6 AV			2.09 V	252	56.00	39.60
3	5350.00	61.7 PK	74.0	-12.3	2.28 V	241	56.00	5.70
4	5350.00	46.6 AV	54.0	-7.4	2.28 V	241	40.90	5.70
5	#10580.00	58.5 PK	74.0	-15.5	1.26 V	32	40.20	18.30
6	#10580.00	48.4 AV	54.0	-5.6	1.26 V	32	30.10	18.30

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
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	57.0 PK	74.0	-17.0	1.27 H	336	51.20	5.80
2	5460.00	43.9 AV	54.0	-10.1	1.27 H	336	38.10	5.80
3	#5470.00	59.5 PK	74.0	-14.5	1.52 H	304	53.60	5.90
4	#5470.00	45.0 AV	54.0	-9.0	1.52 H	304	39.10	5.90
5	*5530.00	100.9 PK			1.08 H	289	61.00	39.90
6	*5530.00	90.8 AV			1.08 H	289	50.90	39.90
7	#5725.00	56.2 PK	74.0	-17.8	1.27 H	336	49.90	6.30
8	#5725.00	45.1 AV	54.0	-8.9	1.27 H	336	38.80	6.30
9	11060.00	59.8 PK	74.0	-14.2	1.05 H	26	40.60	19.20
10	11060.00	47.3 AV	54.0	-6.7	1.05 H	26	28.10	19.20
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	58.8 PK	74.0	-15.2	1.47 V	214	53.00	5.80
2	5460.00	45.7 AV	54.0	-8.3	1.47 V	214	39.90	5.80
3	#5470.00	64.8 PK	74.0	-9.2	1.36 V	298	58.90	5.90
4	#5470.00	46.8 AV	54.0	-7.2	1.36 V	298	40.90	5.90
5	*5530.00	105.9 PK			1.22 V	251	66.00	39.90
6	*5530.00	94.6 AV			1.22 V	251	54.70	39.90
7	#5725.00	56.4 PK	74.0	-17.6	1.22 V	251	50.10	6.30
8	#5725.00	45.9 AV	54.0	-8.1	1.22 V	251	39.60	6.30
9	11060.00	61.3 PK	74.0	-12.7	1.02 V	52	42.10	19.20
10	11060.00	49.3 AV	54.0	-4.7	1.02 V	52	30.10	19.20

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
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	#5714.00	62.2 PK	109.1	-46.9	1.71 H	315	56.0	6.2
2	#5722.00	68.2 PK	115.4	-47.2	1.58 H	287	61.9	6.3
3	#5725.00	59.2 PK	122.2	-63.0	1.71 H	316	52.9	6.3
4	*5775.00	104.5 PK			1.65 H	298	64.0	40.5
5	*5775.00	93.5 AV			1.65 H	298	53.0	40.5
6	#5850.00	52.0 PK	122.2	-70.2	1.71 H	316	45.4	6.6
7	#5852.10	59.3 PK	117.4	-58.1	1.58 H	287	52.7	6.6
8	#5860.10	58.4 PK	109.4	-51.0	1.71 H	315	51.8	6.6
9	11550.00	59.2 PK	74.0	-14.8	1.17 H	41	40.2	19.0
10	11550.00	47.4 AV	54.0	-6.6	1.17 H	41	28.4	19.0
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	#5714.00	71.5 PK	109.1	-37.6	1.01 V	249	65.3	6.2
2	#5722.00	75.0 PK	115.4	-40.4	1.26 V	267	68.7	6.3
3	#5725.00	62.3 PK	122.2	-59.9	1.28 V	219	56.0	6.3
4	*5775.00	109.5 PK			1.00 V	247	69.0	40.5
5	*5775.00	99.5 AV			1.00 V	247	59.0	40.5
6	#5850.00	52.2 PK	122.2	-70.0	1.28 V	219	45.6	6.6
7	#5852.10	59.9 PK	117.4	-57.5	1.26 V	267	53.3	6.6
8	#5860.10	58.9 PK	109.4	-50.5	1.01 V	249	52.3	6.6
9	11550.00	61.5 PK	74.0	-12.5	1.06 V	302	42.5	19.0
10	11550.00	49.1 AV	54.0	-4.9	1.06 V	302	30.1	19.0

Remarks:

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

Below 1GHz Worst-Case Data: 802.11ac (VHT20)

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	125.21	24.5 QP	43.5	-19.0	1.00 H	244	40.2	-15.7
2	241.21	31.6 QP	46.0	-14.4	1.25 H	250	46.1	-14.5
3	320.14	39.8 QP	46.0	-6.2	1.00 H	314	51.6	-11.8
4	600.04	44.1 QP	46.0	-1.9	1.25 H	147	50.3	-6.2
5	750.36	40.2 QP	46.0	-5.8	2.00 H	247	43.2	-3.0
6	876.21	41.2 QP	46.0	-4.8	1.50 H	210	42.4	-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	44.84	30.8 QP	40.0	-9.2	1.50 V	240	45.1	-14.3
2	320.14	31.5 QP	46.0	-14.5	1.00 V	247	43.3	-11.8
3	376.87	35.9 QP	46.0	-10.1	2.00 V	127	46.7	-10.8
4	624.47	41.2 QP	46.0	-4.8	1.50 V	190	46.8	-5.6
5	750.57	34.2 QP	46.0	-11.8	1.50 V	147	37.2	-3.0
6	875.27	37.8 QP	46.0	-8.2	1.50 V	122	39.0	-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)
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	53.18	26.3 QP	40.0	-13.7	1.00 H	173	40.2	-13.9
2	319.02	39.8 QP	46.0	-6.2	1.00 H	325	51.6	-11.8
3	480.07	31.5 QP	46.0	-14.5	1.00 H	46	40.5	-9.0
4	600.38	43.0 QP	46.0	-3.0	1.00 H	262	49.2	-6.2
5	749.79	41.4 QP	46.0	-4.6	1.00 H	124	44.4	-3.0
6	875.91	40.3 QP	46.0	-5.7	1.00 H	215	41.5	-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	124.98	30.8 QP	43.5	-12.7	1.00 V	56	46.5	-15.7
2	319.02	39.8 QP	46.0	-6.2	1.25 V	233	51.6	-11.8
3	375.29	41.4 QP	46.0	-4.6	1.99 V	304	52.3	-10.9
4	625.60	40.6 QP	46.0	-5.4	1.25 V	330	46.2	-5.6
5	749.79	38.8 QP	46.0	-7.2	1.99 V	180	41.8	-3.0
6	875.91	38.6 QP	46.0	-7.4	1.50 V	44	39.8	-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)
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. 16, 2015	Nov. 15, 2016
RF signal cable (with 10dB PAD) Woken	5D-FB	Cable-cond1-01	Dec. 26, 2015	Dec. 25, 2016
LISN ROHDE & SCHWARZ (EUT)	ESH3-Z5	835239/001	Feb. 26, 2016	Feb. 25, 2017
LISN ROHDE & SCHWARZ (Peripheral)	ESH3-Z5	100220	Nov. 13, 2015	Nov. 12, 2016
Software ADT	BV ADT_Cond_ V7.3.7.3	NA	NA	NA

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

2. The test was performed in HwaYa Shielded Room 1.

3. The VCCI Site Registration No. is C-2040.

4.2.3 Test Procedures

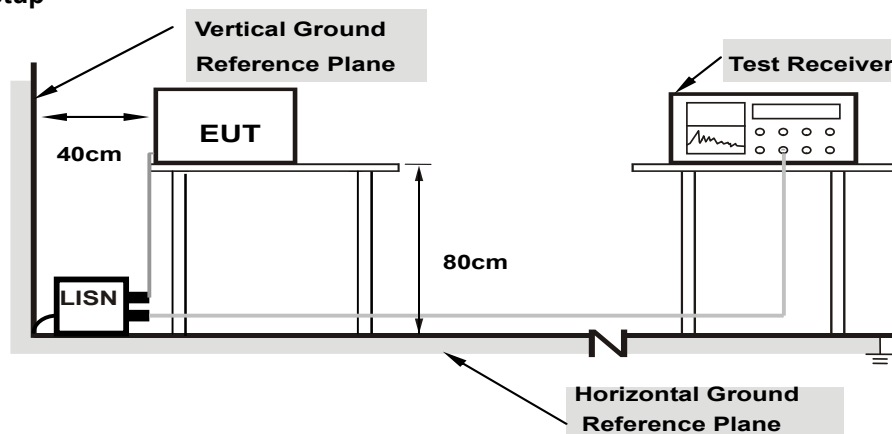
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance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

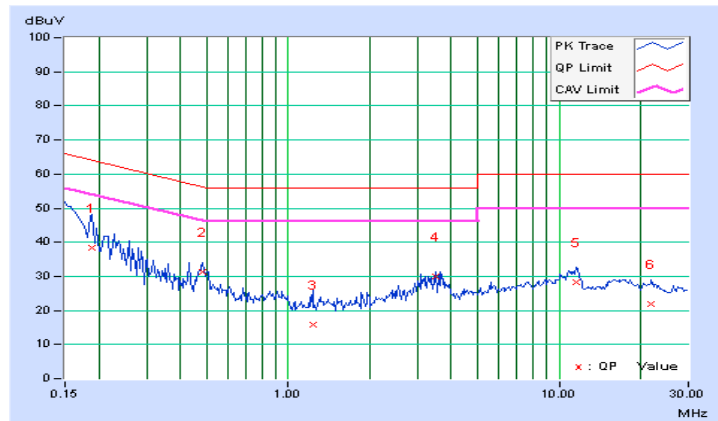
4.2.7 Test Results

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	0.18845	10.15	28.18	12.58	38.33	22.73	64.10	54.10	-25.77	-31.37
2	0.48157	10.19	21.15	18.65	31.34	28.84	56.31	46.31	-24.97	-17.47
3	1.23008	10.23	5.47	-1.87	15.70	8.36	56.00	46.00	-40.30	-37.64
4	3.48751	10.33	19.50	9.75	29.83	20.08	56.00	46.00	-26.17	-25.92
5	11.63596	10.50	17.65	12.56	28.15	23.06	60.00	50.00	-31.85	-26.94
6	21.83158	10.58	11.35	7.37	21.93	17.95	60.00	50.00	-38.07	-32.05

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.

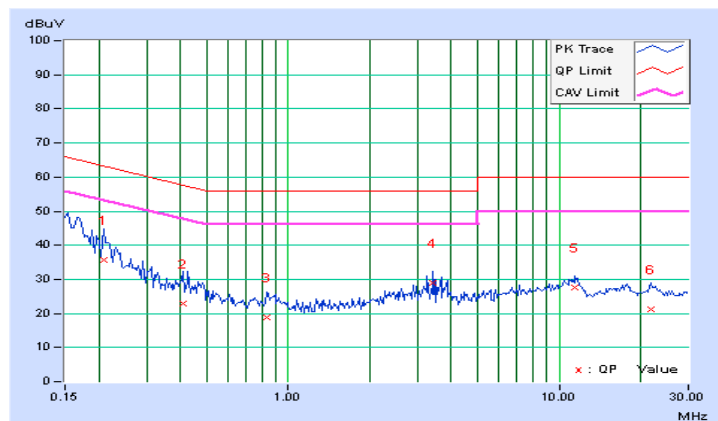


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	A		

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	0.20987	10.16	25.47	13.65	35.63	23.81	63.21	53.21	-27.58	-29.40
2	0.40851	10.19	12.68	7.71	22.87	17.90	57.68	47.68	-34.81	-29.78
3	0.83458	10.20	8.64	5.11	18.84	15.31	56.00	46.00	-37.16	-30.69
4	3.42264	10.36	18.61	7.68	28.97	18.04	56.00	46.00	-27.03	-27.96
5	11.42997	10.59	17.17	11.15	27.76	21.74	60.00	50.00	-32.24	-28.26
6	21.81297	10.74	10.36	4.65	21.10	15.39	60.00	50.00	-38.90	-34.61

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.

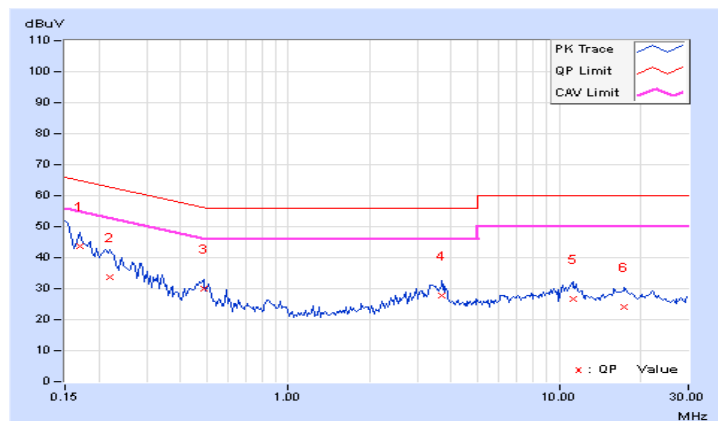


Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	B		

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	0.16953	10.14	33.54	21.02	43.68	31.16	64.98	54.98	-21.30	-23.82
2	0.22031	10.16	23.45	15.28	33.61	25.44	62.81	52.81	-29.20	-27.37
3	0.48594	10.19	19.86	14.05	30.05	24.24	56.24	46.24	-26.19	-22.00
4	3.70313	10.34	17.52	6.27	27.86	16.61	56.00	46.00	-28.14	-29.39
5	11.21484	10.50	16.20	11.27	26.70	21.77	60.00	50.00	-33.30	-28.23
6	17.46094	10.57	13.35	9.08	23.92	19.65	60.00	50.00	-36.08	-30.35

REMARKS:

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

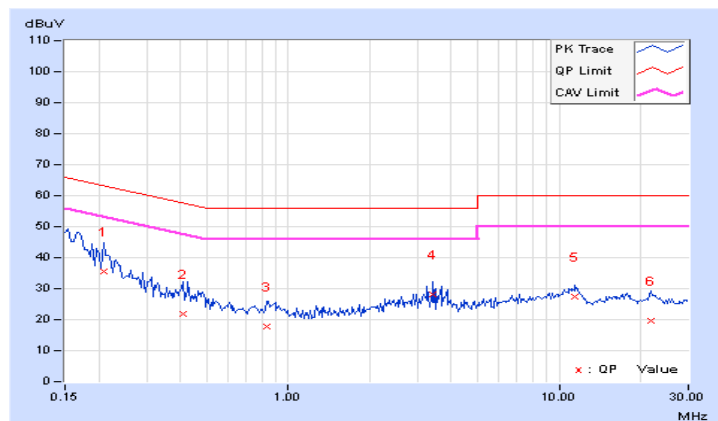


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	B		

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	0.20859	10.16	25.34	12.41	35.50	22.57	63.26	53.26	-27.76	-30.69
2	0.40781	10.19	11.62	6.79	21.81	16.98	57.69	47.69	-35.88	-30.71
3	0.83359	10.20	7.47	4.43	17.67	14.63	56.00	46.00	-38.33	-31.37
4	3.42188	10.36	17.70	6.77	28.06	17.13	56.00	46.00	-27.94	-28.87
5	11.42969	10.59	16.64	10.95	27.23	21.54	60.00	50.00	-32.77	-28.46
6	21.81250	10.74	9.01	3.34	19.75	14.08	60.00	50.00	-40.25	-35.92

REMARKS:

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



4.3 Transmit Power Measurement

4.3.1 Limits of Transmit Power Measurement

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

*B is the 26 dB emission bandwidth in megahertz

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

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

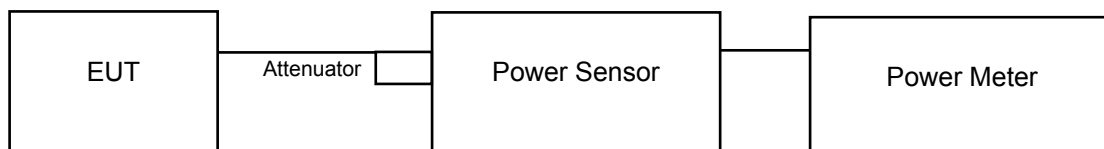
Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{ANT} ;

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

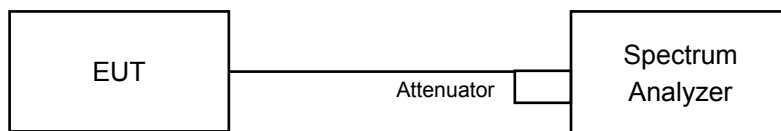
For power measurements on all other devices: Array Gain = $10 \log(N_{ANT}/N_{SS})$ dB.

4.3.2 Test Setup

For Power Output



For 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, 802.11ac (VHT20), 802.11ac (VHT40)

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. Duty factor is not added to measured value.

For 802.11ac (VHT80)

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

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:

CDD Mode

802.11a

Channel	Frequency (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	14.91	14.85	14.78	14.68	120.960	20.83	24	Pass
40	5200	14.52	14.68	14.86	14.85	118.859	20.75	24	Pass
48	5240	14.71	14.78	14.77	14.88	120.394	20.81	24	Pass
52	5260	14.89	14.89	14.62	14.53	119.016	20.76	24	Pass
60	5300	14.83	14.43	14.64	14.83	117.658	20.71	24	Pass
64	5320	14.68	14.82	14.52	14.82	118.368	20.73	24	Pass
100	5500	14.59	14.68	14.81	14.79	118.549	20.74	24	Pass
116	5580	14.58	14.74	14.71	14.82	118.412	20.73	24	Pass
140	5700	14.54	14.77	14.72	14.69	117.529	20.70	24	Pass
149	5745	18.88	18.45	18.61	18.71	294.165	24.69	30	Pass
157	5785	18.25	18.45	18.92	18.66	288.252	24.60	30	Pass
165	5825	18.38	18.45	18.22	18.49	275.855	24.41	30	Pass

Note:

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

Chain 0

1. $11\text{dBm} + 10\log (23.22) = 24.66 > 24\text{dBm}$
2. $11\text{dBm} + 10\log (23.28) = 24.67 > 24\text{dBm}$
3. $11\text{dBm} + 10\log (23.43) = 24.70 > 24\text{dBm}$
4. $11\text{dBm} + 10\log (23.44) = 24.70 > 24\text{dBm}$
5. $11\text{dBm} + 10\log (23.55) = 24.72 > 24\text{dBm}$
6. $11\text{dBm} + 10\log (23.50) = 24.71 > 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log (23.57) = 24.72 > 24\text{dBm}$
2. $11\text{dBm} + 10\log (23.81) = 24.77 > 24\text{dBm}$
3. $11\text{dBm} + 10\log (23.56) = 24.72 > 24\text{dBm}$
4. $11\text{dBm} + 10\log (23.66) = 24.74 > 24\text{dBm}$
5. $11\text{dBm} + 10\log (23.57) = 24.72 > 24\text{dBm}$
6. $11\text{dBm} + 10\log (23.40) = 24.69 > 24\text{dBm}$

Chain 2

1. $11\text{dBm} + 10\log (23.60) = 24.73 > 24\text{dBm}$
2. $11\text{dBm} + 10\log (23.55) = 24.72 > 24\text{dBm}$
3. $11\text{dBm} + 10\log (23.57) = 24.72 > 24\text{dBm}$
4. $11\text{dBm} + 10\log (23.56) = 24.72 > 24\text{dBm}$
5. $11\text{dBm} + 10\log (23.60) = 24.73 > 24\text{dBm}$
6. $11\text{dBm} + 10\log (23.77) = 24.76 > 24\text{dBm}$

Chain 3

1. $11\text{dBm} + 10\log (23.49) = 24.71 > 24\text{dBm}$
2. $11\text{dBm} + 10\log (23.45) = 24.70 > 24\text{dBm}$
3. $11\text{dBm} + 10\log (23.48) = 24.71 > 24\text{dBm}$
4. $11\text{dBm} + 10\log (23.74) = 24.75 > 24\text{dBm}$
5. $11\text{dBm} + 10\log (23.69) = 24.75 > 24\text{dBm}$
6. $11\text{dBm} + 10\log (23.69) = 24.75 > 24\text{dBm}$

802.11ac (VHT20)

Channel	Frequency (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	14.69	14.51	14.78	14.95	119.015	20.76	24	Pass
40	5200	14.78	14.98	14.67	14.55	119.357	20.77	24	Pass
48	5240	14.41	14.89	14.58	14.97	118.551	20.74	24	Pass
52	5260	15.26	15.13	15.09	15.17	131.328	21.18	24	Pass
60	5300	15.35	14.73	15.23	15.32	131.378	21.19	24	Pass
64	5320	14.87	15.09	15.37	15.33	131.529	21.19	24	Pass
100	5500	15.06	14.84	15.26	15.26	129.690	21.13	24	Pass
116	5580	14.92	15.06	15.33	15.20	130.341	21.15	24	Pass
140	5700	15.23	15.11	15.26	15.19	132.388	21.22	24	Pass
149	5745	18.59	18.62	18.75	18.67	293.665	24.68	30	Pass
157	5785	18.38	18.45	18.55	18.42	279.965	24.47	30	Pass
165	5825	18.38	18.65	18.44	18.82	288.178	24.60	30	Pass

Note:

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

Chain 0

1. $11\text{dBm} + 10\log (25.12) = 25.00 > 24\text{dBm}$
2. $11\text{dBm} + 10\log (24.89) = 24.96 > 24\text{dBm}$
3. $11\text{dBm} + 10\log (25.21) = 25.02 > 24\text{dBm}$
4. $11\text{dBm} + 10\log (25.16) = 25.01 > 24\text{dBm}$
5. $11\text{dBm} + 10\log (25.10) = 25.00 > 24\text{dBm}$
6. $11\text{dBm} + 10\log (25.09) = 25.00 > 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log (24.40) = 24.87 > 24\text{dBm}$
2. $11\text{dBm} + 10\log (24.42) = 24.88 > 24\text{dBm}$
3. $11\text{dBm} + 10\log (24.50) = 24.89 > 24\text{dBm}$
4. $11\text{dBm} + 10\log (24.46) = 24.88 > 24\text{dBm}$
5. $11\text{dBm} + 10\log (24.33) = 24.86 > 24\text{dBm}$
6. $11\text{dBm} + 10\log (24.71) = 24.93 > 24\text{dBm}$

Chain 2

1. $11\text{dBm} + 10\log (25.00) = 24.98 > 24\text{dBm}$
2. $11\text{dBm} + 10\log (25.22) = 25.02 > 24\text{dBm}$
3. $11\text{dBm} + 10\log (25.15) = 25.01 > 24\text{dBm}$
4. $11\text{dBm} + 10\log (25.10) = 25.00 > 24\text{dBm}$
5. $11\text{dBm} + 10\log (25.13) = 25.00 > 24\text{dBm}$
6. $11\text{dBm} + 10\log (25.13) = 25.00 > 24\text{dBm}$

Chain 3

1. $11\text{dBm} + 10\log (24.04) = 24.81 > 24\text{dBm}$
2. $11\text{dBm} + 10\log (23.82) = 24.77 > 24\text{dBm}$
3. $11\text{dBm} + 10\log (23.70) = 24.75 > 24\text{dBm}$
4. $11\text{dBm} + 10\log (23.92) = 24.79 > 24\text{dBm}$
5. $11\text{dBm} + 10\log (23.78) = 24.76 > 24\text{dBm}$
6. $11\text{dBm} + 10\log (23.83) = 24.77 > 24\text{dBm}$

802.11ac (VHT40)

Channel	Frequency (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
38	5190	17.82	17.42	17.66	17.58	231.367	23.64	24	Pass
46	5230	17.85	17.62	17.75	17.69	237.079	23.75	24	Pass
54	5270	17.58	17.88	17.62	17.52	232.960	23.67	24	Pass
62	5310	17.11	17.42	17.39	17.82	221.974	23.46	24	Pass
102	5510	17.67	17.62	17.75	17.81	236.250	23.73	24	Pass
110	5550	17.62	17.84	17.79	17.82	239.275	23.79	24	Pass
134	5670	17.74	17.88	17.48	17.69	235.530	23.72	24	Pass
151	5755	16.55	16.44	16.92	16.77	185.979	22.69	30	Pass
159	5795	18.43	18.92	18.58	18.41	289.100	24.61	30	Pass

Note:

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

Chain 0

1. $11\text{dBm} + 10\log (44.35) = 27.47 > 24\text{dBm}$
2. $11\text{dBm} + 10\log (44.36) = 27.47 > 24\text{dBm}$
3. $11\text{dBm} + 10\log (44.24) = 27.46 > 24\text{dBm}$
4. $11\text{dBm} + 10\log (44.31) = 27.47 > 24\text{dBm}$
5. $11\text{dBm} + 10\log (44.21) = 27.46 > 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log (44.49) = 27.48 > 24\text{dBm}$
2. $11\text{dBm} + 10\log (44.24) = 27.46 > 24\text{dBm}$
3. $11\text{dBm} + 10\log (44.41) = 27.47 > 24\text{dBm}$
4. $11\text{dBm} + 10\log (44.51) = 27.48 > 24\text{dBm}$
5. $11\text{dBm} + 10\log (44.50) = 27.48 > 24\text{dBm}$

Chain 2

1. $11\text{dBm} + 10\log (45.31) = 27.56 > 24\text{dBm}$
2. $11\text{dBm} + 10\log (45.01) = 27.53 > 24\text{dBm}$
3. $11\text{dBm} + 10\log (45.04) = 27.54 > 24\text{dBm}$
4. $11\text{dBm} + 10\log (45.10) = 27.54 > 24\text{dBm}$
5. $11\text{dBm} + 10\log (45.18) = 27.55 > 24\text{dBm}$

Chain 3

1. $11\text{dBm} + 10\log (44.31) = 27.47 > 24\text{dBm}$
2. $11\text{dBm} + 10\log (44.25) = 27.46 > 24\text{dBm}$
3. $11\text{dBm} + 10\log (44.36) = 27.47 > 24\text{dBm}$
4. $11\text{dBm} + 10\log (44.38) = 27.47 > 24\text{dBm}$
5. $11\text{dBm} + 10\log (44.39) = 27.47 > 24\text{dBm}$

802.11ac (VHT80)

Channel	Frequency (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
42	5210	15.79	15.89	15.71	15.88	152.711	21.84	24	Pass
58	5290	15.89	15.99	15.42	15.33	147.487	21.69	24	Pass
106	5530	16.52	16.85	16.71	16.55	185.359	22.68	24	Pass
155	5775	15.88	15.41	15.62	15.75	147.539	21.69	30	Pass

Note:

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

Chain 0

$$1. 11\text{dBm} + 10\log (83.99) = 30.24 > 24\text{dBm}$$

$$2. 11\text{dBm} + 10\log (83.63) = 30.22 > 24\text{dBm}$$

Chain 1

$$1. 11\text{dBm} + 10\log (82.99) = 30.19 > 24\text{dBm}$$

$$2. 11\text{dBm} + 10\log (83.13) = 30.20 > 24\text{dBm}$$

Chain 2

$$1. 11\text{dBm} + 10\log (82.40) = 30.16 > 24\text{dBm}$$

$$2. 11\text{dBm} + 10\log (85.25) = 30.31 > 24\text{dBm}$$

Chain 3

$$1. 11\text{dBm} + 10\log (83.33) = 30.21 > 24\text{dBm}$$

$$2. 11\text{dBm} + 10\log (82.82) = 30.18 > 24\text{dBm}$$

Beamforming Mode

802.11ac (VHT20)

Channel	Frequency (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	13.73	13.33	13.55	13.98	92.782	19.67	20.92	Pass
40	5200	13.69	13.42	13.38	13.82	91.243	19.60	20.92	Pass
48	5240	13.39	13.62	13.42	13.92	91.480	19.61	20.92	Pass
52	5260	13.79	13.58	13.92	13.88	95.830	19.82	20.89	Pass
60	5300	13.92	13.68	13.75	13.59	94.565	19.76	20.89	Pass
64	5320	13.66	13.73	13.58	13.82	93.734	19.72	20.89	Pass
100	5500	13.82	13.95	13.74	13.68	95.924	19.82	20.89	Pass
116	5580	13.85	13.71	13.58	13.62	93.579	19.71	20.89	Pass
140	5700	13.72	13.58	13.89	13.92	95.504	19.80	20.89	Pass
149	5745	17.84	17.78	17.69	17.85	240.496	23.81	26.92	Pass
157	5785	18.44	18.95	18.67	18.88	299.236	24.76	26.92	Pass
165	5825	18.73	18.79	18.45	18.81	296.345	24.72	26.92	Pass

Note:

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

Chain 0

1. $11\text{dBm} + 10\log (24.41) = 24.88 > 20.89\text{dBm}$
2. $11\text{dBm} + 10\log (24.33) = 24.86 > 20.89\text{dBm}$
3. $11\text{dBm} + 10\log (24.35) = 24.86 > 20.89\text{dBm}$
4. $11\text{dBm} + 10\log (24.43) = 24.88 > 20.89\text{dBm}$
5. $11\text{dBm} + 10\log (24.56) = 24.90 > 20.89\text{dBm}$
6. $11\text{dBm} + 10\log (24.46) = 24.88 > 20.89\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log (25.13) = 25.00 > 20.89\text{dBm}$
2. $11\text{dBm} + 10\log (25.10) = 25.00 > 20.89\text{dBm}$
3. $11\text{dBm} + 10\log (25.06) = 24.99 > 20.89\text{dBm}$
4. $11\text{dBm} + 10\log (25.13) = 25.00 > 20.89\text{dBm}$
5. $11\text{dBm} + 10\log (25.04) = 24.99 > 20.89\text{dBm}$
6. $11\text{dBm} + 10\log (25.23) = 25.02 > 20.89\text{dBm}$

Chain 2

1. $11\text{dBm} + 10\log (23.88) = 24.78 > 20.89\text{dBm}$
2. $11\text{dBm} + 10\log (23.70) = 24.75 > 20.89\text{dBm}$
3. $11\text{dBm} + 10\log (23.77) = 24.76 > 20.89\text{dBm}$
4. $11\text{dBm} + 10\log (23.82) = 24.77 > 20.89\text{dBm}$
5. $11\text{dBm} + 10\log (23.97) = 24.80 > 20.89\text{dBm}$
6. $11\text{dBm} + 10\log (23.85) = 24.77 > 20.89\text{dBm}$

Chain 3

1. $11\text{dBm} + 10\log (25.10) = 25.00 > 20.89\text{dBm}$
2. $11\text{dBm} + 10\log (25.03) = 24.98 > 20.89\text{dBm}$
3. $11\text{dBm} + 10\log (25.06) = 24.99 > 20.89\text{dBm}$
4. $11\text{dBm} + 10\log (24.98) = 24.98 > 20.89\text{dBm}$
5. $11\text{dBm} + 10\log (25.10) = 25.00 > 20.89\text{dBm}$
6. $11\text{dBm} + 10\log (25.02) = 24.98 > 20.89\text{dBm}$

* U-NII-1: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/4] = 9.08\text{dBi} > 6\text{dBi}$, therefore the limit shall be reduced to $24 - (9.08 - 6) = 20.92\text{dBm}$

* U-NII-3: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/4] = 9.08\text{dBi} > 6\text{dBi}$, therefore the limit shall be reduced to $30 - (9.08 - 6) = 26.92\text{dBm}$

802.11ac (VHT40)

Channel	Frequency (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
38	5190	13.92	13.93	13.78	13.88	97.689	19.90	20.92	Pass
46	5230	13.42	13.85	13.96	13.72	94.684	19.76	20.92	Pass
54	5270	13.72	13.88	13.67	13.85	95.531	19.80	20.92	Pass
62	5310	13.41	13.82	13.55	13.61	91.634	19.62	20.89	Pass
102	5510	13.61	13.78	13.59	13.78	93.573	19.71	20.89	Pass
110	5550	13.65	13.71	13.88	13.78	94.982	19.78	20.89	Pass
134	5670	13.62	13.58	13.77	13.92	94.300	19.75	26.92	Pass
151	5755	15.74	15.68	15.98	15.48	149.426	21.74	26.92	Pass
159	5795	18.48	18.55	18.89	18.92	297.512	24.74	26.92	Pass

Note:

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

Chain 0

1. 11dBm + 10log (44.46) = 27.48 > 20.89dBm
2. 11dBm + 10log (44.39) = 27.47 > 20.89dBm
3. 11dBm + 10log (44.37) = 27.47 > 20.89dBm
4. 11dBm + 10log (44.37) = 27.47 > 20.89dBm
5. 11dBm + 10log (44.36) = 27.47 > 20.89dBm

Chain 1

1. 11dBm + 10log (44.59) = 27.49 > 20.89dBm
2. 11dBm + 10log (44.59) = 27.49 > 20.89dBm
3. 11dBm + 10log (44.48) = 27.48 > 20.89dBm
4. 11dBm + 10log (44.50) = 27.48 > 20.89dBm
5. 11dBm + 10log (44.40) = 27.47 > 20.89dBm

Chain 2

1. 11dBm + 10log (43.92) = 27.43 > 20.89dBm
2. 11dBm + 10log (43.85) = 27.42 > 20.89dBm
3. 11dBm + 10log (43.91) = 27.43 > 20.89dBm
4. 11dBm + 10log (43.90) = 27.42 > 20.89dBm
5. 11dBm + 10log (44.02) = 27.44 > 20.89dBm

Chain 3

1. 11dBm + 10log (44.37) = 27.47 > 20.68dBm
2. 11dBm + 10log (44.18) = 27.45 > 20.68dBm
3. 11dBm + 10log (44.24) = 27.46 > 20.68dBm
4. 11dBm + 10log (44.19) = 27.45 > 20.68dBm
5. 11dBm + 10log (44.41) = 27.47 > 20.68dBm

* U-NII-1: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/4]$ = 9.08dBi > 6dBi, therefore the limit shall be reduced to 24-(9.08-6) = 20.92dBm

* U-NII-3: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/4]$ = 9.08dBi > 6dBi, therefore the limit shall be reduced to 30-(9.08-6) = 26.92dBm

802.11ac (VHT80)

Channel	Frequency (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
42	5210	13.69	13.78	13.39	13.62	92.107	19.64	20.92	Pass
58	5290	13.92	13.75	13.68	13.49	94.045	19.73	20.89	Pass
106	5530	13.59	13.88	13.42	13.82	93.368	19.70	20.89	Pass
155	5775	15.77	15.69	15.83	15.91	152.101	21.82	26.92	Pass

Note:

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

Chain 0

$$1. 11\text{dBm} + 10\log (83.65) = 30.22 > 20.89\text{dBm}$$

$$2. 11\text{dBm} + 10\log (83.60) = 30.22 > 20.89\text{dBm}$$

Chain 1

$$1. 11\text{dBm} + 10\log (83.83) = 30.23 > 20.89\text{dBm}$$

$$2. 11\text{dBm} + 10\log (84.25) = 30.26 > 20.89\text{dBm}$$

Chain 2

$$1. 11\text{dBm} + 10\log (83.12) = 30.20 > 20.89\text{dBm}$$

$$2. 11\text{dBm} + 10\log (83.09) = 30.20 > 20.89\text{dBm}$$

Chain 3

$$1. 11\text{dBm} + 10\log (81.41) = 30.11 > 20.89\text{dBm}$$

$$2. 11\text{dBm} + 10\log (81.34) = 30.10 > 20.89\text{dBm}$$

$$* \text{U-NII-1: Directional gain} = 10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/4] = 9.08\text{dBi} > 6\text{dBi}, \text{ therefore the limit shall be reduced to } 24 - (9.08 - 6) = 20.92\text{dBm}$$

$$* \text{U-NII-3: Directional gain} = 10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/4] = 9.08\text{dBi} > 6\text{dBi}, \text{ therefore the limit shall be reduced to } 30 - (9.08 - 6) = 26.92\text{dBm}$$

26dB Bandwidth:

CDD Mode

802.11a

Channel	Frequency (MHz)	26dBc Bandwidth (MHz)				Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3	
36	5180	23.62	23.58	23.71	23.54	Pass
40	5200	23.67	23.64	23.70	23.52	Pass
48	5240	23.56	23.29	23.72	23.52	Pass
52	5260	23.22	23.57	23.60	23.49	Pass
60	5300	23.28	23.81	23.55	23.45	Pass
64	5320	23.43	23.56	23.57	23.48	Pass
100	5500	23.44	23.66	23.56	23.74	Pass
116	5580	23.55	23.57	23.60	23.69	Pass
140	5700	23.50	23.40	23.77	23.69	Pass

802.11ac (VHT20)

Channel	Frequency (MHz)	26dBc Bandwidth (MHz)				Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3	
36	5180	25.07	24.48	25.20	23.67	Pass
40	5200	25.15	24.25	25.11	24.05	Pass
48	5240	25.14	24.32	25.41	23.86	Pass
52	5260	25.12	24.40	25.00	24.04	Pass
60	5300	24.89	24.42	25.22	23.82	Pass
64	5320	25.21	24.50	25.15	23.70	Pass
100	5500	25.16	24.46	25.10	23.92	Pass
116	5580	25.10	24.33	25.13	23.78	Pass
140	5700	25.09	24.71	25.13	23.83	Pass

802.11ac (VHT40)

Channel	Frequency (MHz)	26dBc Bandwidth (MHz)				Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3	
38	5190	44.45	44.54	44.55	44.02	Pass
46	5230	44.49	44.42	45.24	44.18	Pass
54	5270	44.35	44.49	45.31	44.31	Pass
62	5310	44.36	44.24	45.01	44.25	Pass
102	5510	44.24	44.41	45.04	44.36	Pass
110	5550	44.31	44.51	45.10	44.38	Pass
134	5670	44.21	44.50	45.18	44.39	Pass

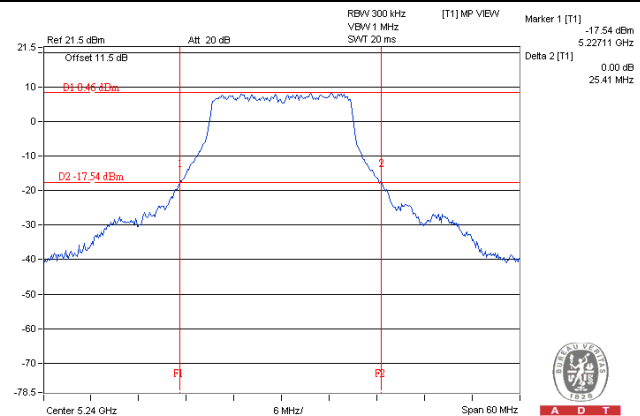
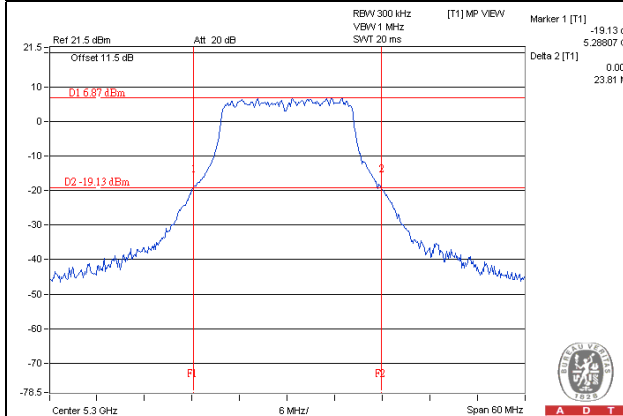
802.11ac (VHT80)

Channel	Frequency (MHz)	26dBc Bandwidth (MHz)				Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3	
42	5210	83.65	83.46	80.95	83.28	Pass
58	5290	83.99	82.99	82.40	83.33	Pass
106	5530	83.63	83.13	85.25	82.82	Pass

Spectrum Plot of Worst Value

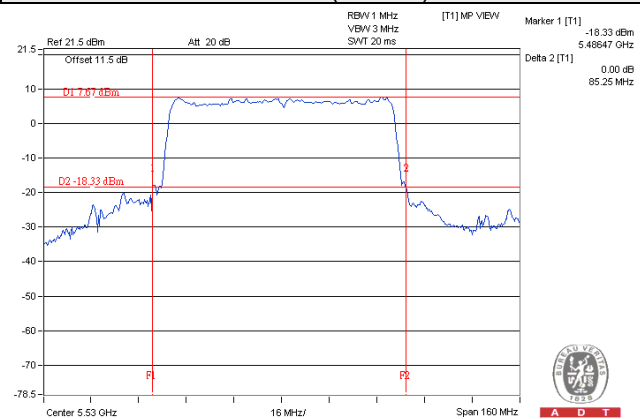
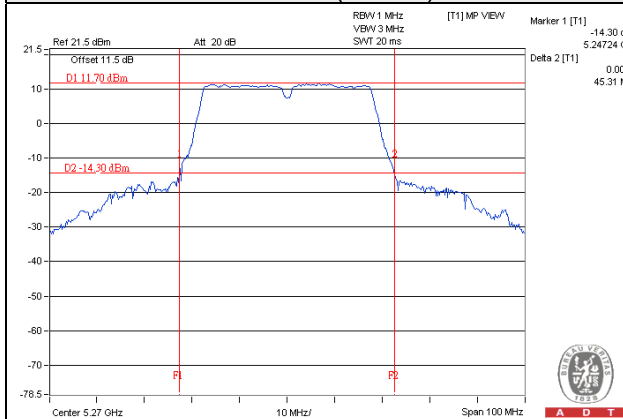
802.11a

802.11ac (VHT20)



802.11ac (VHT40)

802.11ac (VHT80)



Beamforming Mode

802.11ac (VHT20)

Channel	Frequency (MHz)	26dBc Bandwidth (MHz)				Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3	
36	5180	24.28	24.96	23.92	24.98	Pass
40	5200	24.30	24.93	23.79	25.01	Pass
48	5240	24.32	25.01	23.99	25.09	Pass
52	5260	24.41	25.13	23.88	25.10	Pass
60	5300	24.33	25.10	23.70	25.03	Pass
64	5320	24.35	25.06	23.77	25.06	Pass
100	5500	24.43	25.13	23.82	24.98	Pass
116	5580	24.56	25.04	23.97	25.10	Pass
140	5700	24.46	25.23	23.85	25.02	Pass

802.11ac (VHT40)

Channel	Frequency (MHz)	26dBc Bandwidth (MHz)				Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3	
38	5190	44.24	44.48	43.94	44.15	Pass
46	5230	44.20	44.47	43.90	44.05	Pass
54	5270	44.46	44.59	43.92	44.37	Pass
62	5310	44.39	44.59	43.85	44.18	Pass
102	5510	44.37	44.48	43.91	44.24	Pass
110	5550	44.37	44.50	43.90	44.19	Pass
134	5670	44.36	44.40	44.02	44.41	Pass

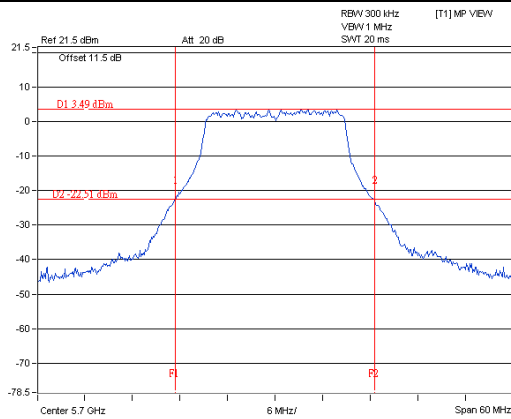
802.11ac (VHT80)

Channel	Frequency (MHz)	26dBc Bandwidth (MHz)				Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3	
42	5210	83.73	83.86	83.05	81.32	Pass
58	5290	83.65	83.83	83.12	81.41	Pass
106	5530	83.60	84.25	83.09	81.34	Pass

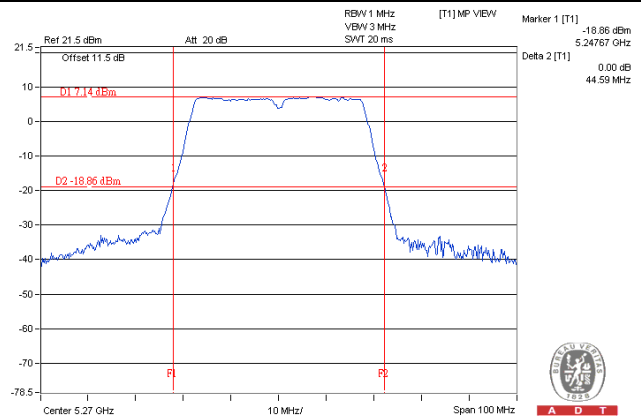
Spectrum Plot of Worst Value

802.11ac (VHT20)

802.11ac (VHT40)

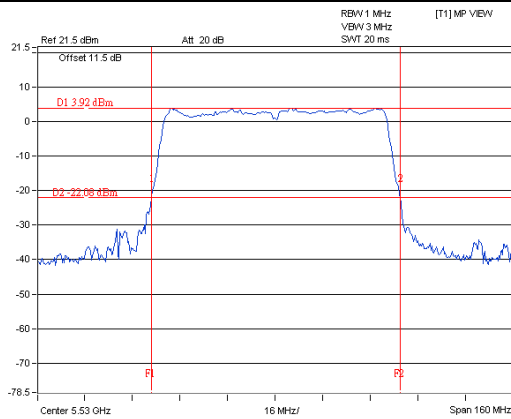


A D T



A D T

802.11ac (VHT80)



A D T

Occupied Bandwidth:

CDD Mode

802.11a

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
36	5180	16.80	16.92	17.04	16.92
40	5200	16.92	17.04	17.04	16.92
48	5240	16.80	16.92	17.16	16.92
52	5260	16.92	17.04	17.04	16.92
60	5300	16.68	16.80	17.04	16.92
64	5320	16.92	16.80	17.04	16.92
100	5500	16.92	16.80	17.04	16.92
116	5580	16.92	16.80	17.04	16.92
140	5700	16.92	16.92	17.04	16.92
149	5745	17.13	17.13	16.96	16.96
157	5785	17.16	17.16	17.04	16.92
165	5825	17.04	17.04	17.04	17.04

802.11ac (VHT20)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
36	5180	18.24	18.12	18.24	18.12
40	5200	18.12	18.00	18.24	18.00
48	5240	18.12	18.00	18.24	18.00
52	5260	18.12	18.12	18.24	18.00
60	5300	18.12	18.12	18.24	18.00
64	5320	18.12	18.00	18.24	17.88
100	5500	18.24	18.00	18.24	18.00
116	5580	18.24	18.12	18.24	18.00
140	5700	18.12	18.00	18.24	18.00
149	5745	18.24	18.24	18.36	18.12
157	5785	18.24	18.24	18.36	18.12
165	5825	18.24	18.24	18.24	18.12

802.11ac (VHT40)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
38	5190	36.96	36.84	36.96	36.84
46	5230	36.84	36.84	36.96	36.96
54	5270	36.84	37.08	36.96	36.96
62	5310	36.72	36.84	36.96	36.84
102	5510	37.08	36.84	36.96	36.96
110	5550	36.84	36.96	36.96	36.84
134	5670	36.84	36.84	36.96	36.96
151	5755	36.96	36.96	37.08	36.96
159	5795	37.08	37.08	37.13	36.96

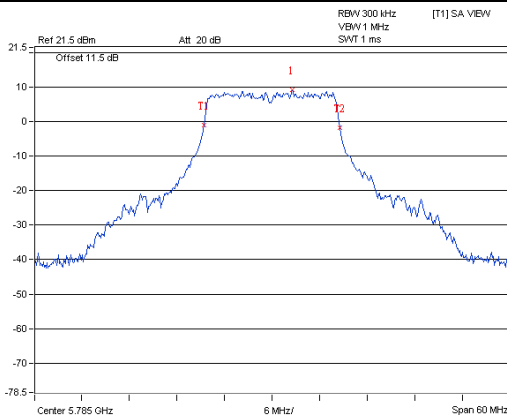
802.11ac (VHT80)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
42	5210	75.60	75.60	75.32	75.60
58	5290	75.88	75.88	75.32	75.60
106	5530	75.88	75.60	75.32	75.60
155	5775	75.32	75.60	75.32	75.60

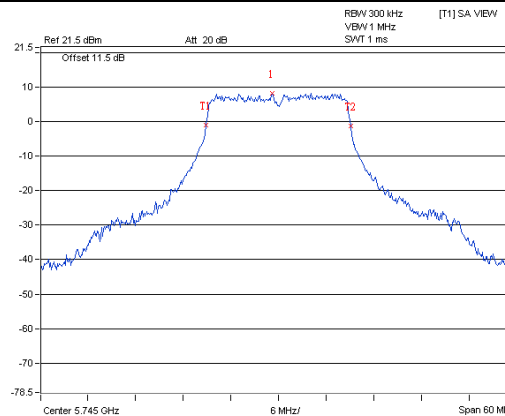
Spectrum Plot of Worst Value

802.11a

802.11ac (VHT20)



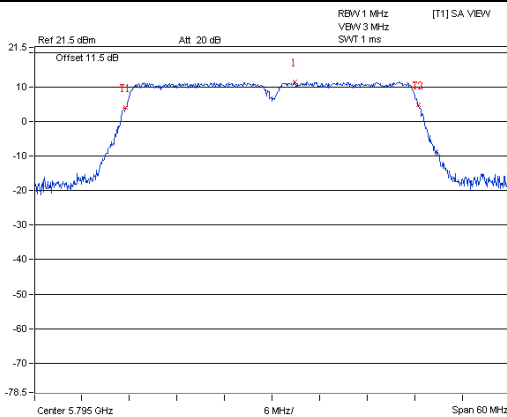
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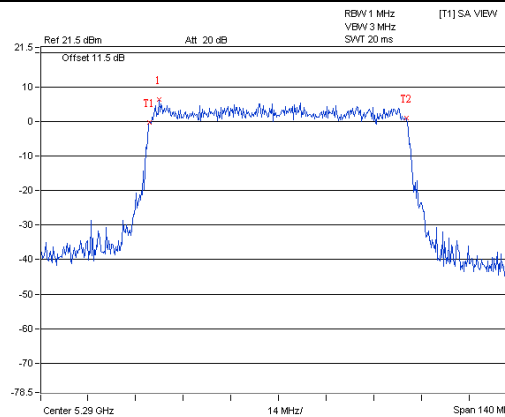
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802.11ac (VHT40)

802.11ac (VHT80)



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Beamforming Mode

802.11ac (VHT20)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
36	5180	18.12	18.24	17.88	18.24
40	5200	18.12	18.24	18.00	18.24
48	5240	18.12	18.24	18.00	18.36
52	5260	18.12	18.24	17.88	18.36
60	5300	18.12	18.24	17.88	18.24
64	5320	18.12	18.24	18.00	18.24
100	5500	18.12	18.24	18.00	18.24
116	5580	18.12	18.24	18.00	18.24
140	5700	18.12	18.24	18.00	18.24
149	5745	18.17	18.26	18.00	18.17
157	5785	18.24	18.24	18.12	18.36
165	5825	18.24	18.24	18.12	18.24

802.11ac (VHT40)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
38	5190	36.96	37.08	36.96	36.84
46	5230	37.08	37.20	36.84	36.96
54	5270	37.08	37.20	36.84	36.96
62	5310	36.96	37.20	36.84	36.96
102	5510	36.96	37.32	36.72	36.96
110	5550	37.08	37.08	36.84	36.96
134	5670	36.96	37.08	36.72	36.96
151	5755	37.08	37.08	36.84	36.96
159	5795	37.32	37.22	36.96	37.08

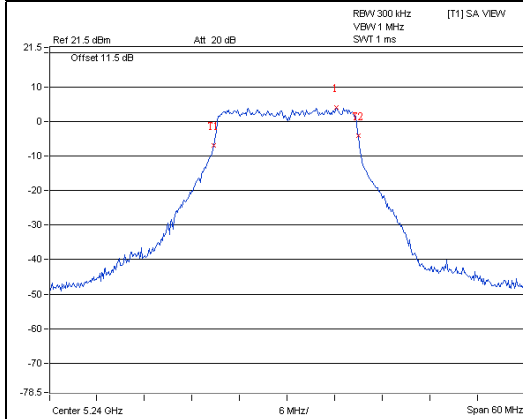
802.11ac (VHT80)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
42	5190	75.60	75.32	75.60	75.32
58	5230	75.60	75.60	75.60	75.04
106	5270	75.32	75.60	75.32	75.32
155	5310	75.60	75.32	75.60	75.32

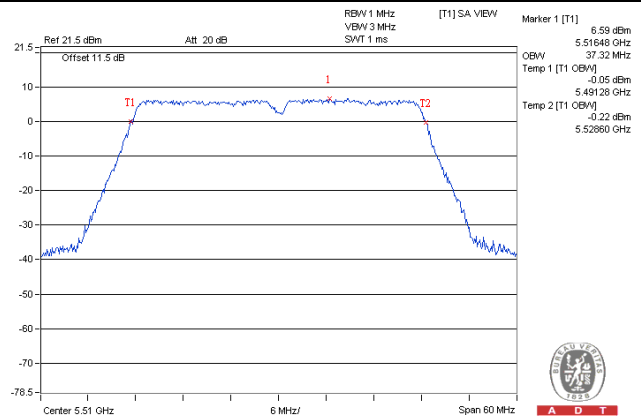
Spectrum Plot of Worst Value

802.11ac (VHT20)

802.11ac (VHT40)

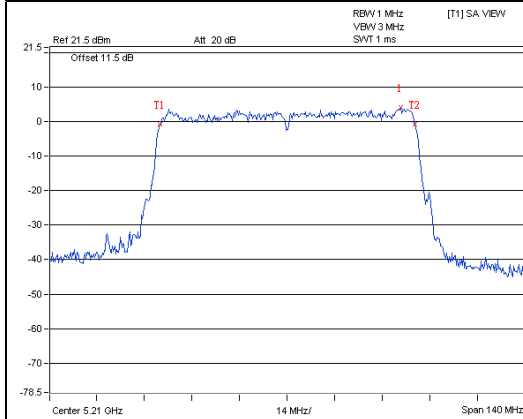


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802.11ac (VHT80)



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EUT MAXIMUM CONDUCTED POWER

CDD Mode

802.11a

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	119.016	20.76
5470~5725	118.549	20.74

Note: Manufacturer provides Transmit Power Control description to meet this requirement.

802.11ac (VHT20)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	131.529	21.19
5470~5725	132.388	21.22

Note: Manufacturer provides Transmit Power Control description to meet this requirement.

802.11ac (VHT40)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	232.960	23.67
5470~5725	239.275	23.79

Note: Manufacturer provides Transmit Power Control description to meet this requirement.

802.11ac (VHT80)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	147.487	21.69
5470~5725	185.359	22.68

Note: Manufacturer provides Transmit Power Control description to meet this requirement.

Beamforming Mode

802.11ac (VHT20)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	95.830	19.82
5470~5725	95.924	19.82

Note: Manufacturer provides Transmit Power Control description to meet this requirement.

802.11ac (VHT40)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	95.531	19.80
5470~5725	94.982	19.78

Note: Manufacturer provides Transmit Power Control description to meet this requirement.

802.11ac (VHT80)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	94.045	19.73
5470~5725	93.368	19.70

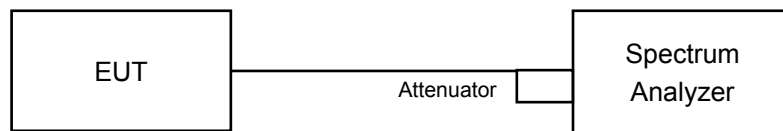
Note: Manufacturer provides Transmit Power Control description to meet this requirement.

4.4 Peak Power Spectral Density Measurement

4.4.1 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

4.4.2 Test Setup



4.4.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.4.4 Test Procedures

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

Using method SA-2

- 1) Set span to encompass the entire emission bandwidth (EBW) of the signal.
- 2) Set RBW = 1 MHz, Set VBW $\geq$ 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/duty cycle)

For U-NII-3 band:

- 1) Set span to encompass the entire emission bandwidth (EBW) of the signal.
- 2) Set RBW = 300 kHz, Set VBW $\geq$ 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 $BWCF = 10\log(500 \text{ kHz}/300\text{kHz})$
- 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/duty cycle)

4.4.5 Deviation from Test Standard

No deviation.

4.4.6 EUT Operating Conditions

Same as 4.3.6.

4.4.7 Test Results

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

CDD Mode

802.11a

Chan.	Freq. (MHz)	PSD (dBm)				Total PSD w/o duty factor (dBm)	Duty factor	Total PSD with duty factor (dBm)	Max. Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3					
36	5180	1.16	1.20	1.28	0.98	7.18	0.44	7.62	7.92	Pass
40	5200	1.15	1.22	1.12	1.18	7.19	0.44	7.63	7.92	Pass
48	5240	1.20	0.98	1.24	0.82	7.09	0.44	7.53	7.92	Pass
52	5260	0.36	0.55	1.29	-0.08	6.58	0.44	7.02	7.92	Pass
60	5300	0.17	0.49	1.39	-0.27	6.51	0.44	6.95	7.92	Pass
64	5320	0.09	0.18	1.21	0.53	6.55	0.44	6.99	7.92	Pass
100	5500	0.29	0.60	0.51	0.65	6.54	0.44	6.98	7.92	Pass
116	5580	0.21	0.45	0.43	0.35	6.38	0.44	6.82	7.92	Pass
140	5700	0.88	1.17	0.95	0.49	6.90	0.44	7.34	7.92	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 = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/4] = 9.08\text{dBi} > 6\text{dBi}$, therefore the limit shall be reduced to $11-(9.08-6) = 7.92\text{dBm}$.
- Refer to section 3.3 for duty cycle spectrum plot.

802.11ac (VHT20)

Chan.	Freq. (MHz)	PSD (dBm)				Total PSD (dBm)	Max. Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3			
36	5180	1.33	1.37	1.17	0.94	7.23	7.92	Pass
40	5200	1.13	0.95	1.27	1.04	7.12	7.92	Pass
48	5240	1.08	1.35	1.27	0.83	7.16	7.92	Pass
52	5260	1.53	1.49	1.06	1.54	7.43	7.92	Pass
60	5300	1.45	1.35	0.75	0.92	7.15	7.92	Pass
64	5320	1.41	1.16	0.78	0.55	7.01	7.92	Pass
100	5500	0.83	0.70	0.85	0.77	6.81	7.92	Pass
116	5580	1.06	0.63	0.85	0.57	6.80	7.92	Pass
140	5700	1.38	1.00	1.13	0.81	7.11	7.92	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 = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/4] = 9.08\text{dBi} > 6\text{dBi}$, therefore the limit shall be reduced to $11-(9.08-6) = 7.92\text{dBm}$.

802.11ac (VHT40)

Chan.	Freq. (MHz)	PSD (dBm)				Total PSD w/o duty factor (dBm)	Duty factor	Total PSD with duty factor (dBm)	Max. Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3					
38	5190	0.12	-0.12	0.17	-0.27	6.00	0.15	6.15	7.92	Pass
46	5230	0.84	0.78	1.36	0.88	7.00	0.15	7.15	7.92	Pass
54	5270	0.69	0.67	1.61	0.90	7.01	0.15	7.16	7.92	Pass
62	5310	-0.15	-0.78	0.80	-0.02	6.02	0.15	6.17	7.92	Pass
102	5510	0.17	-0.11	1.32	0.56	6.54	0.15	6.69	7.92	Pass
110	5550	0.29	0.17	0.89	0.94	6.61	0.15	6.76	7.92	Pass
134	5670	-0.26	-0.57	0.69	0.59	6.17	0.15	6.32	7.92	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 = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/4] = 9.08\text{dBi} > 6\text{dBi}$, therefore the limit shall be reduced to $11-(9.08-6) = 7.92\text{dBm}$.
- Refer to section 3.3 for duty cycle spectrum plot.

802.11ac (VHT80)

Chan.	Freq. (MHz)	PSD (dBm)				Total PSD w/o duty factor (dBm)	Duty factor	Total PSD with duty factor (dBm)	Max. Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3					
42	5210	-4.25	-3.89	-3.82	-3.22	2.24	0.28	2.52	7.92	Pass
58	5290	-4.57	-4.03	-3.28	-2.93	2.36	0.28	2.64	7.92	Pass
106	5530	-3.29	-4.56	-2.52	-3.10	2.71	0.28	2.99	7.92	Pass

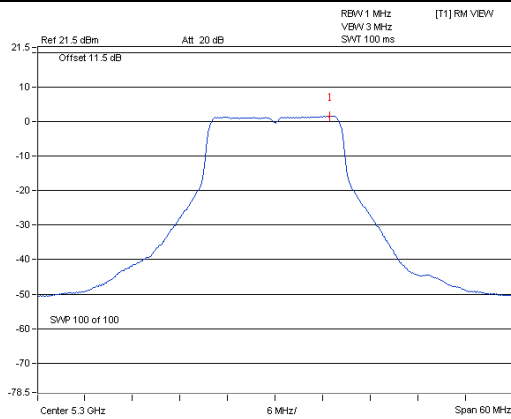
Note:

- 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 = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/4] = 9.08\text{dBi} > 6\text{dBi}$, therefore the limit shall be reduced to $11-(9.08-6) = 7.92\text{dBm}$.
- Refer to section 3.3 for duty cycle spectrum plot.

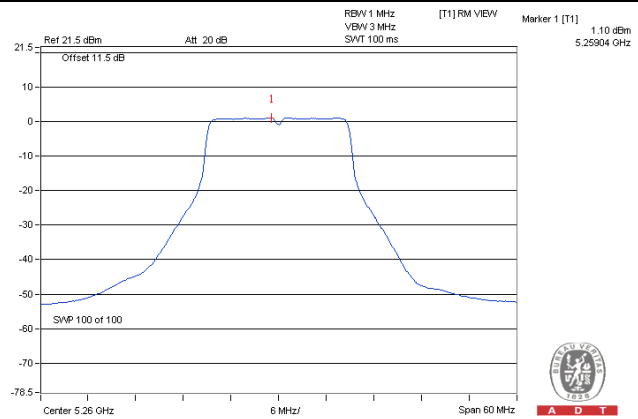
Spectrum Plot of Worst Value

802.11a (Chain 2 / CH 60)

802.11ac (VHT20) (Chain 3 / CH 52)



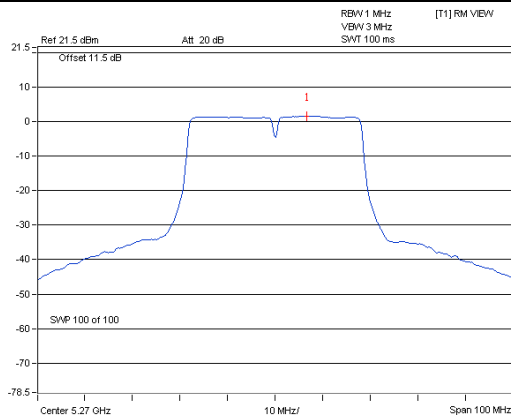
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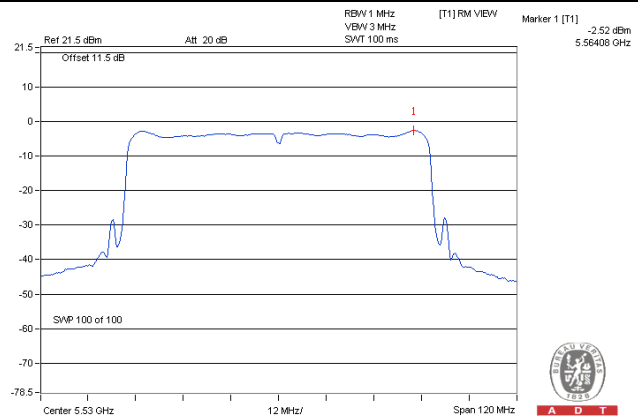
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802.11ac (VHT40) (Chain 2 / CH 54)

802.11ac (VHT80) (Chain 2 / CH 106)



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Beamforming Mode

802.11ac (VHT20)

Chan.	Freq. (MHz)	PSD (dBm)				Total PSD (dBm)	Max. Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3			
36	5180	-0.43	0.05	0.23	0.06	6.00	7.92	Pass
40	5200	-0.47	-0.01	-0.14	-0.15	5.83	7.92	Pass
48	5240	-0.33	-0.05	-0.19	0.07	5.90	7.92	Pass
52	5260	-0.56	0.06	-0.34	0.34	5.91	7.92	Pass
60	5300	-0.29	0.19	-0.09	0.09	6.00	7.92	Pass
64	5320	-0.10	0.25	-0.28	0.28	6.06	7.92	Pass
100	5500	-0.42	-0.27	0.11	-0.30	5.81	7.92	Pass
116	5580	-0.68	-0.49	-0.20	-0.33	5.60	7.92	Pass
140	5700	-0.46	-0.39	-0.51	0.27	5.76	7.92	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 = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/4] = 9.08\text{dBi} > 6\text{dBi}$, therefore the limit shall be reduced to $11-(9.08-6) = 7.92\text{dBm}$.

802.11ac (VHT40)

Chan.	Freq. (MHz)	PSD (dBm)				Total PSD w/o duty factor (dBm)	Duty factor	Total PSD with duty factor (dBm)	Max. Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3					
38	5190	-3.39	-2.89	-2.93	-2.74	3.04	0.12	3.16	7.92	Pass
46	5230	-3.49	-2.80	-3.20	-2.83	2.95	0.12	3.07	7.92	Pass
54	5270	-3.50	-2.69	-3.26	-2.82	2.97	0.12	3.09	7.92	Pass
62	5310	-3.06	-2.83	-3.37	-2.77	3.02	0.12	3.14	7.92	Pass
102	5510	-3.44	-3.16	-3.20	-3.17	2.78	0.12	2.90	7.92	Pass
110	5550	-3.88	-3.63	-3.33	-3.37	2.48	0.12	2.60	7.92	Pass
134	5670	-4.19	-3.31	-3.78	-3.44	2.36	0.12	2.48	7.92	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 = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/4] = 9.08\text{dBi} > 6\text{dBi}$, therefore the limit shall be reduced to $11-(9.08-6) = 7.92\text{dBm}$.
- Refer to section 3.3 for duty cycle spectrum plot.

802.11ac (VHT80)

Chan.	Freq. (MHz)	PSD (dBm)				Total PSD w/o duty factor (dBm)	Duty factor	Total PSD with duty factor (dBm)	Max. Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3					
42	5210	-5.72	-6.02	-5.16	-6.05	0.30	0.29	0.59	7.92	Pass
58	5290	-5.97	-5.68	-5.08	-5.33	0.52	0.29	0.81	7.92	Pass
106	5530	-6.39	-5.82	-5.79	-5.62	0.12	0.29	0.41	7.92	Pass

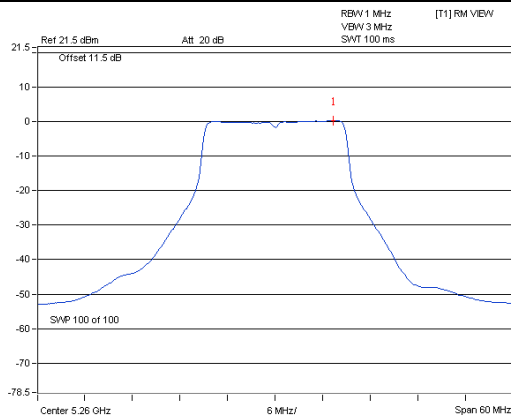
Note:

- 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 = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/4] = 9.08\text{dBi} > 6\text{dBi}$, therefore the limit shall be reduced to $11-(9.08-6) = 7.92\text{dBm}$.
- Refer to section 3.3 for duty cycle spectrum plot.

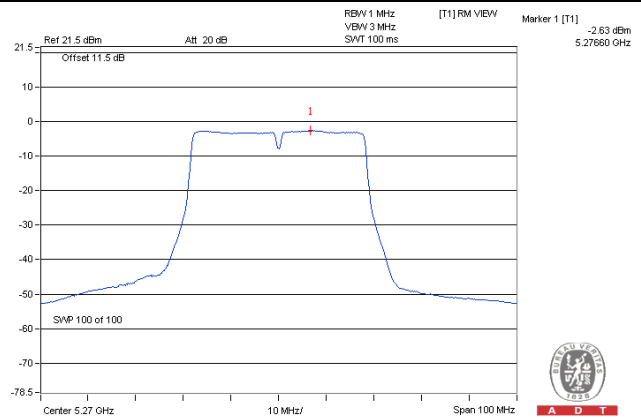
Spectrum Plot of Worst Value

802.11ac (VHT20) (Chain 3 / CH 52)

802.11ac (VHT40) (Chain 1 / CH 54)

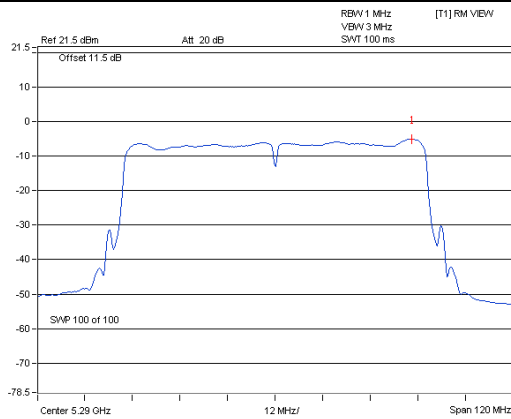


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802.11ac (VHT80) (Chain 2 / CH 58)



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For U-NII-3 Band:

CDD Mode

802.11a

TX chain	Channel	Freq. (MHz)	PSD (dBm/300kHz)	PSD (dBm/500kHz)	10 log (N=4) dB	Duty factor	Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
0	149	5745	-3.27	-1.05	6.02	0.44	5.41	26.92	Pass
	157	5785	-3.79	-1.57	6.02	0.44	4.89	26.92	Pass
	165	5825	-3.63	-1.41	6.02	0.44	5.05	26.92	Pass
1	149	5745	-3.96	-1.74	6.02	0.44	4.72	26.92	Pass
	157	5785	-3.87	-1.65	6.02	0.44	4.81	26.92	Pass
	165	5825	-4.03	-1.81	6.02	0.44	4.65	26.92	Pass
2	149	5745	-3.98	-1.76	6.02	0.44	4.70	26.92	Pass
	157	5785	-3.62	-1.40	6.02	0.44	5.06	26.92	Pass
	165	5825	-3.87	-1.65	6.02	0.44	4.81	26.92	Pass
3	149	5745	-3.83	-1.61	6.02	0.44	4.85	26.92	Pass
	157	5785	-4.15	-1.93	6.02	0.44	4.53	26.92	Pass
	165	5825	-4.04	-1.82	6.02	0.44	4.64	26.92	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 = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/4] = 9.08\text{dBi} > 6\text{dBi}$, therefore the limit shall be reduced to $30 - (9.08 - 6) = 26.92\text{dBm}$.
- Refer to section 3.3 for duty cycle spectrum plot.

802.11ac (VHT20)

TX chain	Channel	Freq. (MHz)	PSD (dBm/300kHz)	PSD (dBm/500kHz)	10 log (N=4) dB	Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
0	149	5745	-3.26	-1.04	6.02	4.98	26.92	Pass
	157	5785	-3.29	-1.07	6.02	4.95	26.92	Pass
	165	5825	-3.13	-0.91	6.02	5.11	26.92	Pass
1	149	5745	-3.92	-1.70	6.02	4.32	26.92	Pass
	157	5785	-3.53	-1.31	6.02	4.71	26.92	Pass
	165	5825	-3.70	-1.48	6.02	4.54	26.92	Pass
2	149	5745	-3.82	-1.60	6.02	4.42	26.92	Pass
	157	5785	-4.06	-1.84	6.02	4.18	26.92	Pass
	165	5825	-4.16	-1.94	6.02	4.08	26.92	Pass
3	149	5745	-3.58	-1.36	6.02	4.66	26.92	Pass
	157	5785	-3.55	-1.33	6.02	4.69	26.92	Pass
	165	5825	-3.63	-1.41	6.02	4.61	26.92	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 = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/4] = 9.08\text{dBi} > 6\text{dBi}$, therefore the limit shall be reduced to $30-(9.08-6) = 26.92\text{dBm}$.

802.11ac (VHT40)

TX chain	Channel	Freq. (MHz)	PSD (dBm/300kHz)	PSD (dBm/500kHz)	10 log (N=4) dB	Duty factor	Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
0	151	5755	-8.24	-6.02	6.02	0.15	0.15	26.92	Pass
	159	5795	-6.54	-4.32	6.02	0.15	1.85	26.92	Pass
1	151	5755	-8.94	-6.72	6.02	0.15	-0.55	26.92	Pass
	159	5795	-7.14	-4.92	6.02	0.15	1.25	26.92	Pass
2	151	5755	-8.64	-6.42	6.02	0.15	-0.25	26.92	Pass
	159	5795	-6.90	-4.68	6.02	0.15	1.49	26.92	Pass
3	151	5755	-9.07	-6.85	6.02	0.15	-0.68	26.92	Pass
	159	5795	-7.15	-4.93	6.02	0.15	1.24	26.92	Pass

Note:

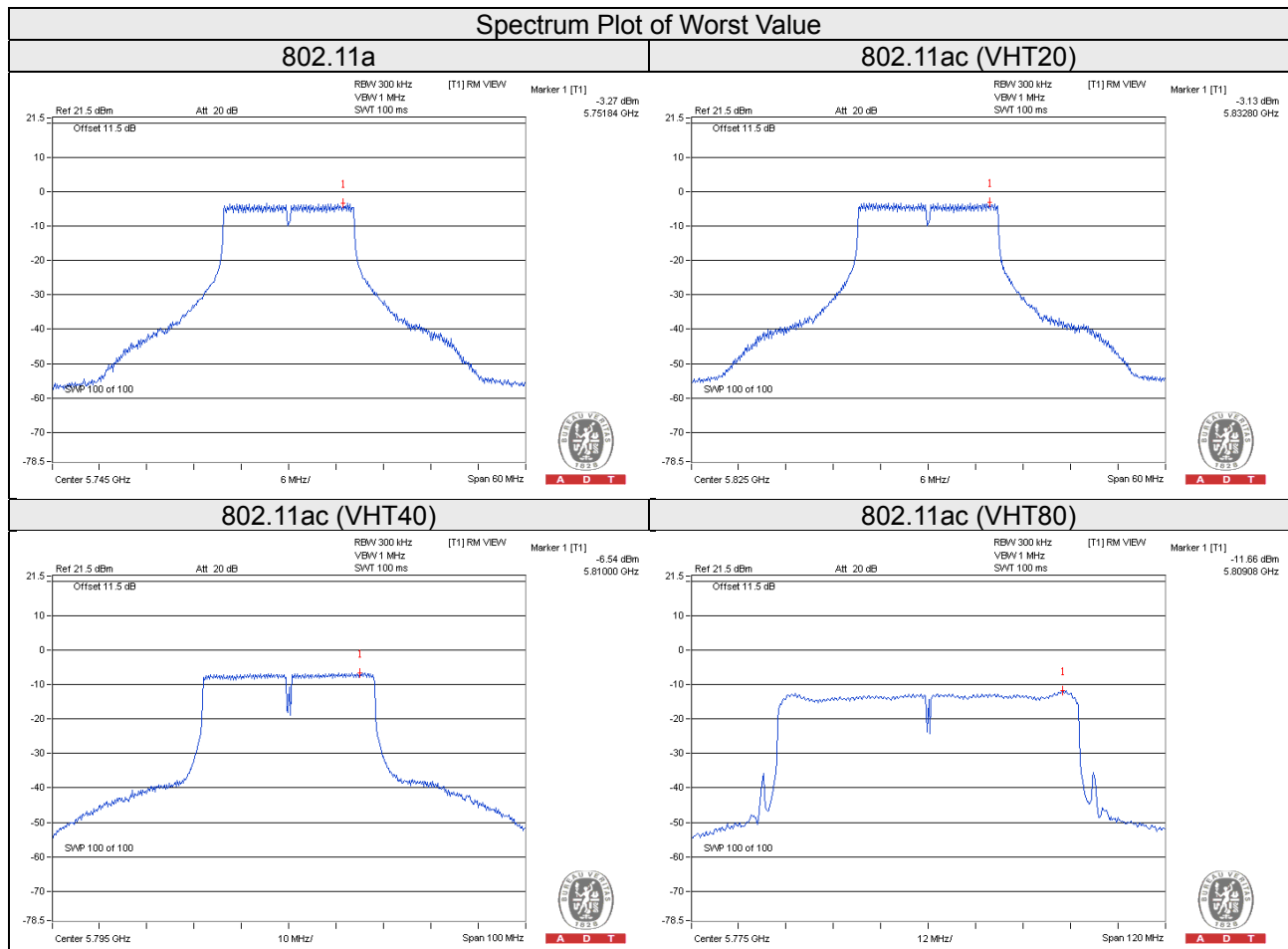
- Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/4] = 9.08\text{dBi} > 6\text{dBi}$, therefore the limit shall be reduced to $30-(9.08-6) = 26.92\text{dBm}$.
- 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=4) dB	Duty factor	Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
0	155	5775	-11.66	-9.44	6.02	0.28	-3.14	26.92	Pass
1	155	5775	-12.60	-10.38	6.02	0.28	-4.08	26.92	Pass
2	155	5775	-12.52	-10.30	6.02	0.28	-4.00	26.92	Pass
3	155	5775	-12.48	-10.26	6.02	0.28	-3.96	26.92	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 = $10 \log[(10^{G^1/20} + 10^{G^2/20} + \dots + 10^{G^N/20})^2/4] = 9.08\text{dBi} > 6\text{dBi}$, therefore the limit shall be reduced to $30 - (9.08 - 6) = 26.92\text{dBm}$.
- Refer to section 3.3 for duty cycle spectrum plot.



Beamforming Mode

802.11ac (VHT20)

TX chain	Channel	Freq. (MHz)	PSD (dBm/300kHz)	PSD (dBm/500kHz)	10 log (N=4) dB	Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
0	149	5745	-4.68	-2.46	6.02	3.56	26.92	Pass
	157	5785	-3.92	-1.70	6.02	4.32	26.92	Pass
	165	5825	-4.06	-1.84	6.02	4.18	26.92	Pass
1	149	5745	-4.58	-2.36	6.02	3.66	26.92	Pass
	157	5785	-3.49	-1.27	6.02	4.75	26.92	Pass
	165	5825	-3.64	-1.42	6.02	4.60	26.92	Pass
2	149	5745	-4.69	-2.47	6.02	3.55	26.92	Pass
	157	5785	-3.94	-1.72	6.02	4.30	26.92	Pass
	165	5825	-3.53	-1.31	6.02	4.71	26.92	Pass
3	149	5745	-4.40	-2.18	6.02	3.84	26.92	Pass
	157	5785	-3.22	-1.00	6.02	5.02	26.92	Pass
	165	5825	-3.04	-0.82	6.02	5.20	26.92	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 = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/4] = 9.08\text{dBi} > 6\text{dBi}$, therefore the limit shall be reduced to $30-(9.08-6) = 26.92\text{dBm}$.

802.11ac (VHT40)

TX chain	Channel	Freq. (MHz)	PSD (dBm/300kHz)	PSD (dBm/500kHz)	10 log (N=4) dB	Duty factor	Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
0	151	5755	-9.99	-7.77	6.02	0.12	-1.63	26.92	Pass
	159	5795	-7.14	-4.92	6.02	0.12	1.22	26.92	Pass
1	151	5755	-9.46	-7.24	6.02	0.12	-1.10	26.92	Pass
	159	5795	-7.01	-4.79	6.02	0.12	1.35	26.92	Pass
2	151	5755	-9.90	-7.68	6.02	0.12	-1.54	26.92	Pass
	159	5795	-6.91	-4.69	6.02	0.12	1.45	26.92	Pass
3	151	5755	-9.04	-6.82	6.02	0.12	-0.68	26.92	Pass
	159	5795	-6.34	-4.12	6.02	0.12	2.02	26.92	Pass

Note:

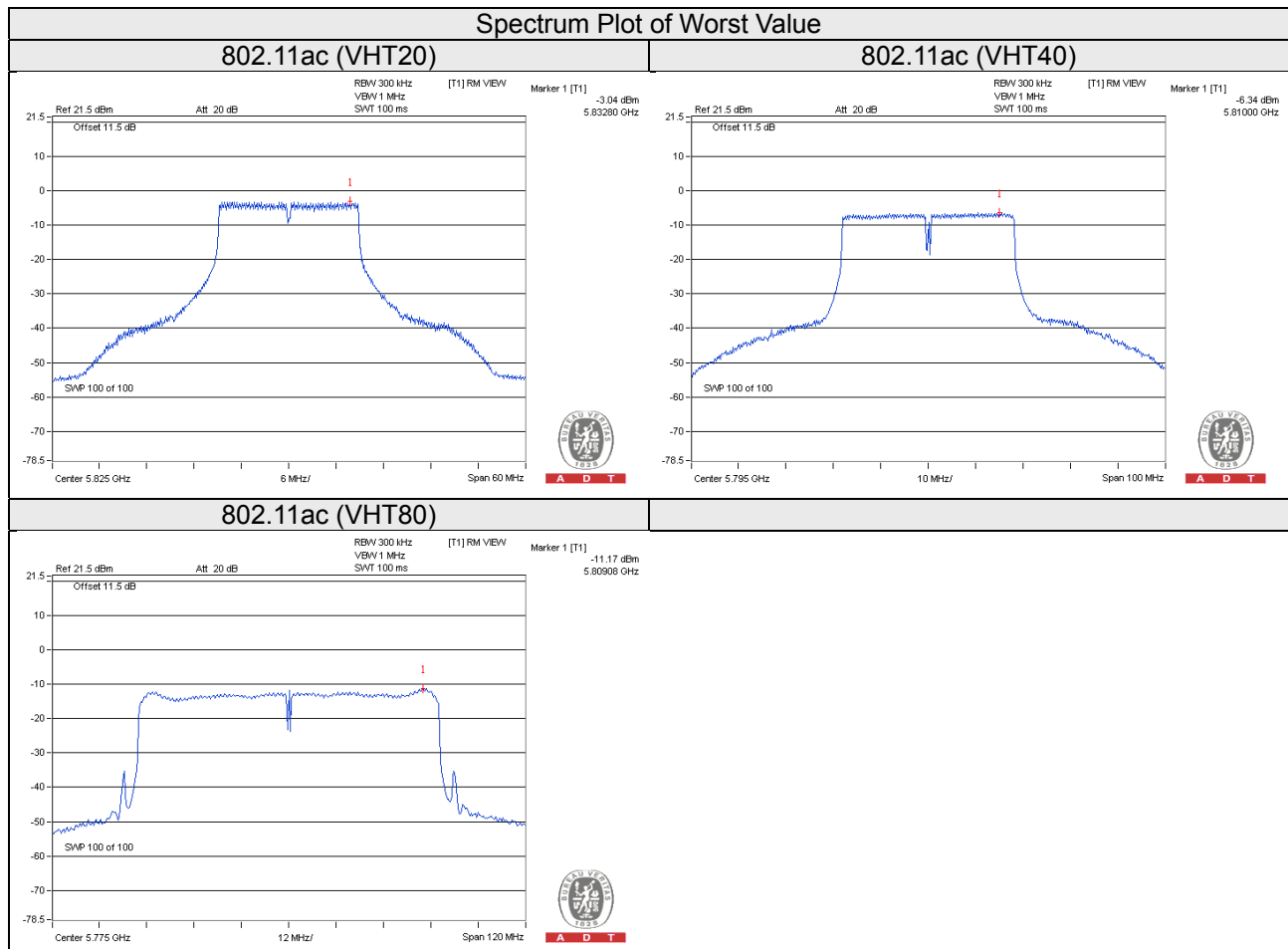
- Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/4] = 9.08\text{dBi} > 6\text{dBi}$, therefore the limit shall be reduced to $30-(9.08-6) = 26.92\text{dBm}$.
- 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=4) dB	Duty factor	Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
0	155	5775	-12.52	-10.30	6.02	0.29	-3.99	26.92	Pass
1	155	5775	-12.56	-10.34	6.02	0.29	-4.03	26.92	Pass
2	155	5775	-12.38	-10.16	6.02	0.29	-3.85	26.92	Pass
3	155	5775	-11.17	-8.95	6.02	0.29	-2.64	26.92	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 = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/4] = 9.08\text{dBi} > 6\text{dBi}$, therefore the limit shall be reduced to $30 - (9.08 - 6) = 26.92\text{dBm}$.
- Refer to section 3.3 for duty cycle spectrum plot.

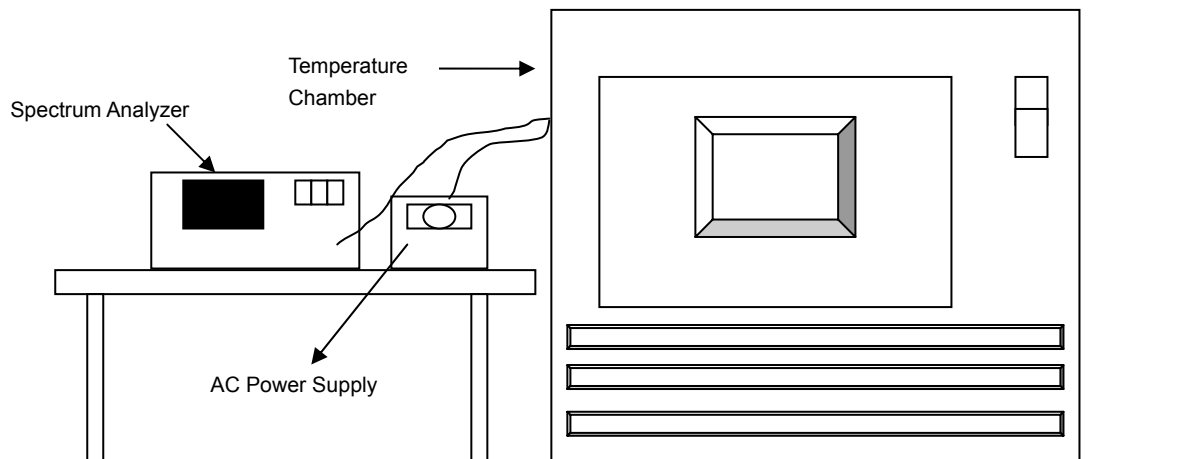


4.5 Frequency Stability

4.5.1 Limits of Frequency Stability Measurement

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

4.5.2 Test Setup



4.5.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.5.4 Test Procedure

- 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.

4.5.5 Deviation from Test Standard

No deviation.

4.5.6 EUT Operating Condition

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

4.5.7 Test Results

Frequency Stability Versus Temp.									
Operating Frequency: 5180MHz									
Temp. (°C)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)
50	120	5179.9728	-0.00053	5179.9739	-0.00050	5179.9757	-0.00047	5179.9764	-0.00046
40	120	5179.9875	-0.00024	5179.9863	-0.00026	5179.984	-0.00031	5179.9845	-0.00030
30	120	5179.999	-0.00002	5179.9959	-0.00008	5179.9958	-0.00008	5179.9966	-0.00007
20	120	5179.9911	-0.00017	5179.9919	-0.00016	5179.9893	-0.00021	5179.9923	-0.00015
10	120	5179.9721	-0.00054	5179.974	-0.00050	5179.9737	-0.00051	5179.9748	-0.00049
0	120	5179.9844	-0.00030	5179.9827	-0.00033	5179.9861	-0.00027	5179.9828	-0.00033
-10	120	5180.0037	0.00007	5180.0073	0.00014	5180.0058	0.00011	5180.007	0.00014
-20	120	5179.9801	-0.00038	5179.9764	-0.00046	5179.9768	-0.00045	5179.981	-0.00037
-30	120	5179.9991	-0.00002	5179.9989	-0.00002	5180.0013	0.00003	5179.9995	-0.00001

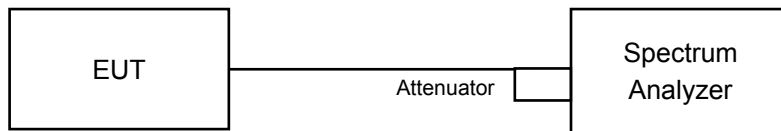
Frequency Stability Versus Voltage									
Operating Frequency: 5180MHz									
Temp. (°C)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)
20	138	5179.9915	-0.00016	5179.9929	-0.00014	5179.989	-0.00021	5179.9916	-0.00016
	120	5179.9911	-0.00017	5179.9919	-0.00016	5179.9893	-0.00021	5179.9923	-0.00015
	102	5179.9908	-0.00018	5179.9919	-0.00016	5179.9887	-0.00022	5179.9913	-0.00017

4.6 6dB Bandwidth Measurement

4.6.1 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is 0.5MHz.

4.6.2 Test Setup



4.6.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.6.4 Test Procedure

Measurement Procedure REF

- 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

4.6.5 Deviation from Test Standard

No deviation.

4.6.6 EUT Operating Condition

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

4.6.7 Test Results

CDD Mode

802.11a

Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
149	5745	16.41	16.40	16.41	16.41	0.5	Pass
157	5785	16.43	16.43	16.44	16.45	0.5	Pass
165	5825	16.43	16.44	16.44	16.44	0.5	Pass

802.11ac (VHT20)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
149	5745	17.67	17.67	17.66	17.68	0.5	Pass
157	5785	17.68	17.67	17.67	17.69	0.5	Pass
165	5825	17.67	17.67	17.67	17.67	0.5	Pass

802.11ac (VHT40)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
151	5755	36.43	36.47	36.44	36.45	0.5	Pass
159	5795	36.46	36.44	36.43	36.44	0.5	Pass

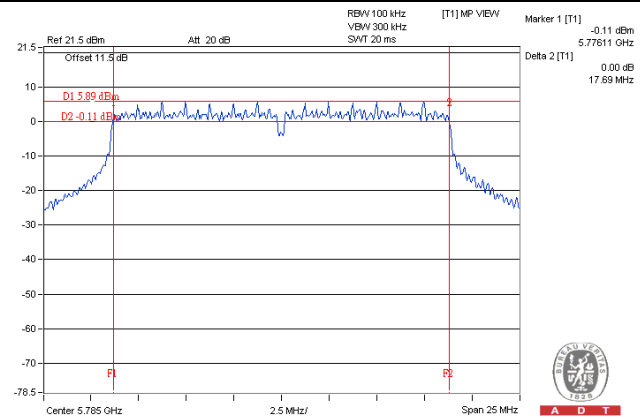
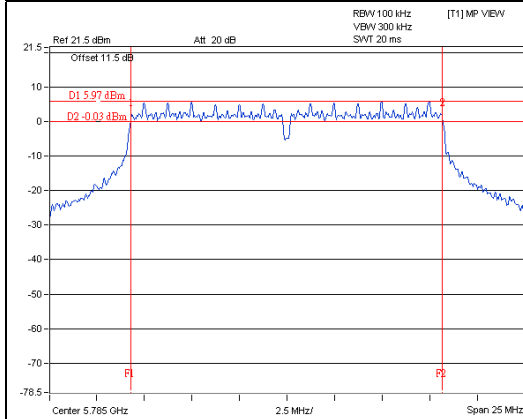
802.11ac (VHT80)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
155	5775	75.45	75.45	75.53	75.44	0.5	Pass

Spectrum Plot of Worst Value

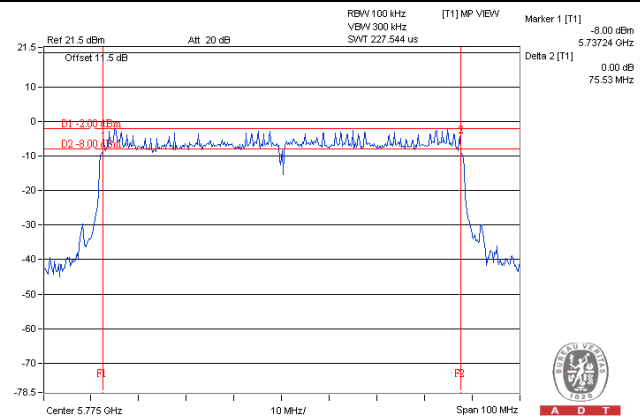
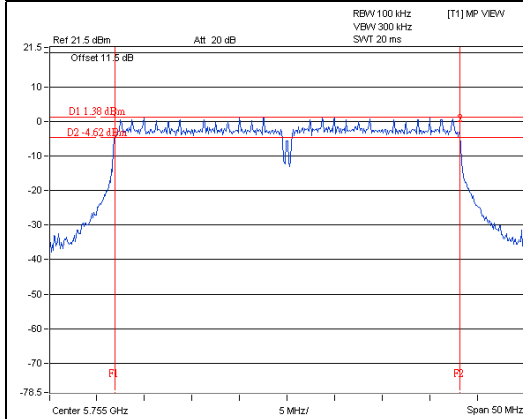
802.11a

802.11ac (VHT20)



802.11ac (VHT40)

802.11ac (VHT80)



Beamforming Mode

802.11ac (VHT20)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
149	5745	17.65	17.64	17.65	17.64	0.5	Pass
157	5785	17.68	17.67	17.68	17.68	0.5	Pass
165	5825	17.67	17.67	17.69	17.67	0.5	Pass

802.11ac (VHT40)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
151	5755	36.43	36.43	36.44	36.47	0.5	Pass
159	5795	36.44	36.42	36.41	36.45	0.5	Pass

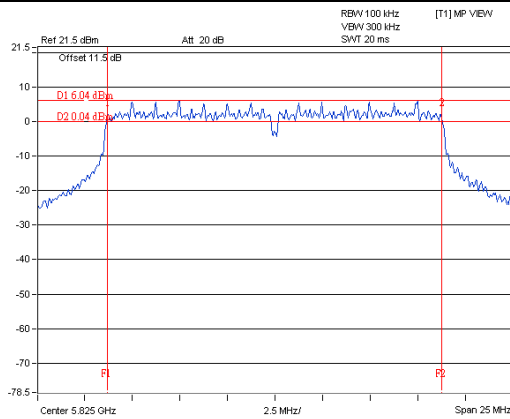
802.11ac (VHT80)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
155	5775	75.44	75.51	75.44	75.37	0.5	Pass

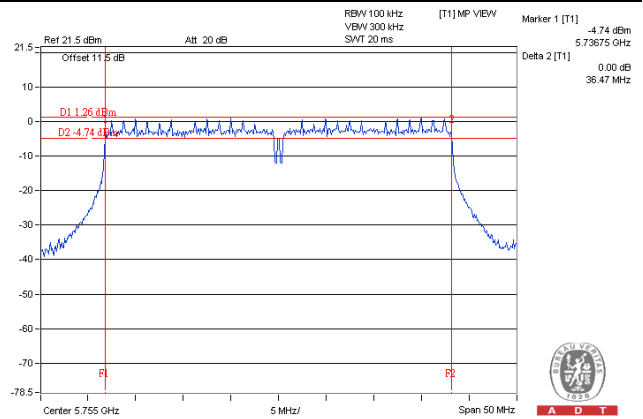
Spectrum Plot of Worst Value

802.11ac (VHT20)

802.11ac (VHT40)

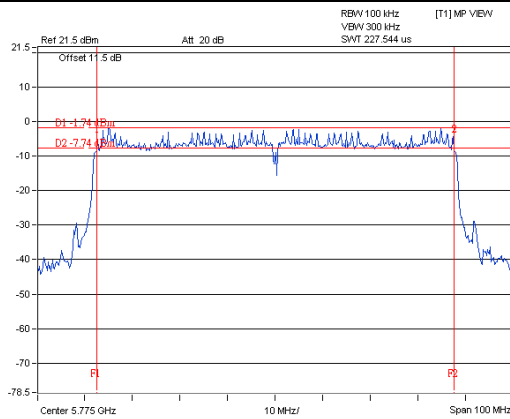


A D T



A D T

802.11ac (VHT80)



A D T

5 Pictures of Test Arrangements

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

Appendix – Information on the Testing Laboratories

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

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

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Web Site: www.bureauveritas-adt.com

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

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