

FCC Test Report

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FCC ID: 2AHBN-AP43

Test Model: AP43E, AP43

Received Date: Feb. 11, 2019

Test Date: Feb. 23 ~ Apr. 16, 2019

Issued Date: Apr. 18, 2019

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FCC Registration / 788550 / TW0003
Designation Number:



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Release Control Record

Issue No.	Description	Date Issued
RF190211C09-1	Original release	Apr. 18, 2019

1 Certificate of Conformity

Product: Premium 802.11ax WiFi and BLE AP

Brand: Mist

Test Model: AP43E, AP43

Sample Status: Engineering sample

Applicant: Mist Systems, Inc.

Test Date: Feb. 23 ~ Apr. 16, 2019

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

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

Prepared by : Celine Chou , **Date:** Apr. 18, 2019
Celine Chou / Senior Specialist

Approved by : Bruce Chen , **Date:** Apr. 18, 2019
Bruce Chen / Project Engineer

2 Summary of Test Results

47 CFR FCC Part 15, Subpart E (Section 15.407)			
FCC Clause	Test Item	Result	Remarks
15.407(b)(6)	AC Power Conducted Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -6.99dB at 0.34550MHz.
15.407(b) (1/2/3/4(i/ii)/6)	Radiated Emissions & Band Edge Measurement	Pass	Meet the requirement of limit. Minimum passing margin is -0.2dB at 5640.80MHz.
15.407(a)(1/2/3)	Max Average Transmit Power	Pass	Meet the requirement of limit.
---	Occupied Bandwidth Measurement	-	Reference only.
15.407(a)(1/2/3)	Peak Power Spectral Density	Pass	Meet the requirement of limit.
15.407(e)	6dB bandwidth	Pass	Meet the requirement of limit. (U-NII-3 Band only)
15.407(g)	Frequency Stability	Pass	Meet the requirement of limit.
15.203	Antenna Requirement	Pass	Antenna connector are IPEX and RPSMA not a standard connector.

Note:

1. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
2. For U-NII-3 band compliance with rule part 15.407(b)(4)(i), the OOB test plots were recorded in Annex A.

2.1 Measurement Uncertainty

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

Measurement	Frequency	Expanded Uncertainty (k=2) (±)
Conducted Emissions at mains ports	150kHz ~ 30MHz	2.94 dB
Radiated Emissions up to 1 GHz	9kHz ~ 30MHz	3.04 dB
	30MHz ~ 200MHz	3.63 dB
	200MHz ~ 1000MHz	3.64 dB
Radiated Emissions above 1 GHz	1GHz ~ 18GHz	2.29 dB
	18GHz ~ 40GHz	2.29 dB

2.2 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	Premium 802.11ax WiFi and BLE AP
Brand	Mist
Test Model	AP43E, AP43
Power Supply rating	Refer to note
Sample Status	Engineering sample
Power Supply Rating	12Vdc from adapter 55Vdc from POE
Modulation Type	256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM 1024QAM for OFDMA
Modulation Technology	OFDM, OFDMA
Transfer Rate	802.11a: 54/48/36/24/18/12/9/6Mbps 802.11n: up to 600Mbps 802.11ac: up to 1733.3Mbps 802.11ax: up to 2400Mbps
Operating Frequency	5180 ~ 5240MHz, 5745 ~ 5825MHz
Number of Channel	5180~5240MHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20): 4 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40): 2 802.11ac (VHT80), 802.11ax (HE80): 1 5745~5825MHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20): 5 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40): 2 802.11ac (VHT80), 802.11ax (HE80): 1
Output Power	Test Mode A (Internal antenna + Eth6 Radio) CDD Mode: 5180 ~ 5240MHz: 261.454mW 5745 ~ 5825MHz: 392.312mW Beamforming Mode: 5180 ~ 5240MHz: 236.808mW 5745 ~ 5825MHz: 235.281mW Test Mode C (Internal antenna + Eth7 Radio) CDD Mode: 5180 ~ 5240MHz: 345.397mW 5745 ~ 5825MHz: 349.272mW Test Mode E (Internal antenna + Eth8 Radio) CDD Mode: 5745 ~ 5825MHz: 711.904mW Beamforming Mode: 5745 ~ 5825MHz: 284.068mW

Output Power	Test Mode G (External antenna + Eth6 Radio) CDD Mode: 5180 ~ 5240MHz: 261.454mW 5745 ~ 5825MHz: 392.271mW Beamforming Mode: 5180 ~ 5240MHz: 236.808mW 5745 ~ 5825MHz: 235.281mW Test Mode I (External antenna + Eth7 Radio) CDD Mode: 5180 ~ 5240MHz: 345.397mW 5745 ~ 5825MHz: 349.272mW
Antenna Type	Refer to note
Antenna Connector	Refer to note
Accessory Device	NA
Cable Supplied	NA

Note:

1. All models are listed as below. Model AP43 is the representative for final test.

Brand	Model	Difference
Mist	AP43E	For External Antenna
	AP43	For Internal Antenna

2. The EUT consumes power from the following adapter and PoE.

Adapter (support unit only)	
Brand	Channel Well Technology
Model	2ABN036F
Input	100-240Vac, 50-60Hz 1.7A
Output	12.0Vdc, 3.0A, 36W
Power Line	1.5m DC cable with one core attached on adapter

PoE (support unit only)	
Brand	Microsemi
Model	PD9001GR
Input Power	100-240Vac, 50/60Hz 0.67A
Output Power	55Vdc, 0.6A

3. The EUT incorporates a MIMO function. Physically, the EUT provides 4 completed transmitter and 4 receivers.

Radio: Eth6

Modulation Mode	TX Function	Beamforming
802.11a	4TX	Not Support
802.11n (HT20)	4TX	Support
802.11n (HT40)	4TX	Support
802.11ac (VHT20)	4TX	Support
802.11ac (VHT40)	4TX	Support
802.11ac (VHT80)	4TX	Support
802.11ax (HE20)	4TX	Support
802.11ax (HE40)	4TX	Support
802.11ax (HE80)	4TX	Support

* The bandwidth and modulation are similar for HT20/HT40 on 802.11n mode and VHT20/VHT40 on 802.11ac mode and HE20/HE40 on 802.11ax mode. The bandwidth and modulation are similar for VHT80 on 802.11ac mode and HE80 on 802.11ax mode. Therefore the investigated worst case is the representative mode in test report. (Final test mode refer section 3.2.1)

* For 802.11n, CDD mode and Beamforming mode are presented in power output test item. For other test items, CDD mode is the worst case for final tests after pretesting.

Radio: Eth7

Modulation Mode	TX Function	Beamforming
802.11a	2TX	Not Support
802.11n (HT20)	2TX	Not Support
802.11n (HT40)	2TX	Not Support
802.11ac (VHT20)	2TX	Not Support
802.11ac (VHT40)	2TX	Not Support
802.11ac (VHT80)	2TX	Not Support
802.11ax (HE20)	2TX	Not Support
802.11ax (HE40)	2TX	Not Support
802.11ax (HE80)	2TX	Not Support

* The bandwidth and modulation are similar for HT20/HT40 on 802.11n mode and VHT20/VHT40 on 802.11ac mode and HE20/HE40 on 802.11ax mode. The bandwidth and modulation are similar for VHT80 on 802.11ac mode and HE80 on 802.11ax mode. Therefore the investigated worst case is the representative mode in test report. (Final test mode refer section 3.2.1)

Radio: Eth8

Modulation Mode	TX Function	Beamforming
802.11a	4TX	Not Support
802.11n (HT20)	4TX	Support
802.11n (HT40)	4TX	Support
802.11ac (VHT20)	4TX	Support
802.11ac (VHT40)	4TX	Support
802.11ac (VHT80)	4TX	Support
802.11ax (HE20)	4TX	Support
802.11ax (HE40)	4TX	Support
802.11ax (HE80)	4TX	Support

* The bandwidth and modulation are similar for HT20/HT40 on 802.11n mode and VHT20/VHT40 on 802.11ac mode and HE20/HE40 on 802.11ax mode. The bandwidth and modulation are similar for VHT80 on 802.11ac mode and HE80 on 802.11ax mode. Therefore the investigated worst case is the representative mode in test report. (Final test mode refer section 3.2.1)

* For 802.11n, CDD mode and Beamforming mode are presented in power output test item. For other test items, CDD mode is the worst case for final tests after pretesting.

4. There are four radios for the EUT.

Radio	Brand	Model	Function		TX/RX Function
			Internal Antenna	External Antenna	
Eth6	Broadcom	BCM43694	WLAN 5G B1, 4	WLAN 5G B1, 4	4x4
Eth7	Broadcom	BCM43694	WLAN 2.4G, 5G B1, 4	WLAN 2.4G, 5G B1, 4	2x2
Eth8	Broadcom	BCM43694	WLAN 2.4G, 5G B4	WLAN 2.4G	4x4
BT LE	Nordic	NRF52832	BT LE	-	1X1

5. The following antennas were provided to the EUT.

For Internal Antenna

Antenna Type	PIFA					
Antenna Connector	IPEX					
Gain (dBi)	Radio: Eth6		Radio: Eth7		Radio: Eth8	
	2.4GHz	5GHz	2.4GHz	5GHz	2.4GHz	5GHz
Int. WIFI Ant. 1	-	4.8	-	-	1.8	4.8
Int. WIFI Ant. 2	-	5.4	-	-	3.1	5.6
Int. WIFI Ant. 3	-	5.9	-	-	4.0	5.0
Int. WIFI Ant. 4	-	5.6	-	-	4.3	4.3
Scanning Radio Ant. 1	-	-	2.7	5.6	-	-
Scanning Radio Ant. 2	-	-	2.3	5.3	-	-
BT-Omni Ant.	0.1					
BT-Directional Ant.	4.5					

For External Antenna (support unit only)

Antenna Type	Patch	
Antenna Connector	RPSMA	
Part Number	ATS-OO-245-46-4RPSP-36	
Gain (dBi)	Frequency	
	2.4GHz	5GHz
Ext. WIFI Ant. 1	4	6

3.2 Description of Test Modes

For 5180 ~ 5240MHz:

4 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20):

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), 802.11ax (HE40):

Channel	Frequency	Channel	Frequency
38	5190 MHz	46	5230 MHz

1 channel is provided for 802.11ac (VHT80), 802.11ax (HE80):

Channel	Frequency
42	5210MHz

For 5745 ~ 5825MHz:

5 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20):

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), 802.11ax (HE40):

Channel	Frequency	Channel	Frequency
151	5755MHz	159	5795MHz

1 channel is provided for 802.11ac (VHT80), 802.11ax (HE80):

Channel	Frequency
155	5775MHz

3.2.1 Test Mode Applicability and Tested Channel Detail

EUT Configure Mode	Applicable to				Description
	RE≥1G	RE<1G	PLC	APCM	
A	√	√	√	√	AP43 (Internal antenna) + Eth6 Radio + POE
B	-	√	√	-	AP43 (Internal antenna) + Eth6 Radio + Adapter
C	√	√	√	√	AP43 (Internal antenna) + Eth7 Radio + POE
D	-	√	√	-	AP43 (Internal antenna) + Eth7 Radio + Adapter
E	√	√	√	√	AP43 (Internal antenna) + Eth8 Radio + POE
F	-	√	√	-	AP43 (Internal antenna) + Eth8 Radio + Adapter
G	√	√	√	√	AP43E (External antenna) + Eth6 Radio + POE
H	-	√	√	-	AP43E (External antenna) + Eth6 Radio + Adapter
I	√	√	√	√	AP43E (External antenna) + Eth7 Radio + POE
J	-	√	√	-	AP43E (External antenna) + Eth7 Radio + Adapter

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

PLC: Power Line Conducted Emission

RE<1G: Radiated Emission below 1GHz

APCM: Antenna Port Conducted Measurement

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

Radiated Emission Test (Above 1GHz):

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

EUT Configure Mode	Mode	Frequency Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Data Rate (Mbps)	TX Function
C, I	802.11a	5180-5240	36 to 48	36, 40, 48	OFDM	6.0	2TX
A, G							4TX
C, I	802.11ax (HE20)		36 to 48	36, 40, 48	OFDMA	MCS0	2TX
A, G							4TX
C, I	802.11ax (HE40)		38 to 46	38, 46	OFDMA	MCS0	2TX
A, G							4TX
C, I	802.11ax (HE80)		42	42	OFDMA	MCS0	2TX
A, G							4TX
C, I	802.11a	5745-5825	149 to 165	149, 157, 165	OFDM	6.0	2TX
A, E, G							4TX
C, I	802.11ax (HE20)		149 to 165	149, 157, 165	OFDMA	MCS0	2TX
A, E, G							4TX
C, I	802.11ax (HE40)		151 to 159	151, 159	OFDMA	MCS0	2TX
A, E, G							4TX
C, I	802.11ax (HE80)		155	155	OFDMA	MCS0	2TX
A, E, G							4TX

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)	TX Function
C, D, I, J	802.11a	5180-5240	36 to 48	36	OFDM	6.0	2TX
A, B, G, H							4TX
E, F	802.11a	5745-5825	149 to 165	149	OFDM	6.0	4TX

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)	TX Function
C, D, I, J	802.11a	5180-5240	36 to 48	36	OFDM	6.0	2TX
A, B, G, H							4TX
E, F	802.11a	5745-5825	149 to 165	149	OFDM	6.0	4TX

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)	TX Function
C, I	802.11a	5180-5240	36 to 48	36, 40, 48	OFDM	6.0	2TX
A, G							4TX
C, I	802.11ax (HE20)		36 to 48	36, 40, 48	OFDMA	MCS0	2TX
A, G							4TX
C, I	802.11ax (HE40)		38 to 46	38, 46	OFDMA	MCS0	2TX
A, G							4TX
C, I	802.11ax (HE80)		42	42	OFDMA	MCS0	2TX
A, G							4TX
C, I	802.11a	5745-5825	149 to 165	149, 157, 165	OFDM	6.0	2TX
A, E, G							4TX
C, I	802.11ax (HE20)		149 to 165	149, 157, 165	OFDMA	MCS0	2TX
A, E, G							4TX
C, I	802.11ax (HE40)		151 to 159	151, 159	OFDMA	MCS0	2TX
A, E, G							4TX
C, I	802.11ax (HE80)		155	155	OFDMA	MCS0	2TX
A, E, G							4TX

Test Condition:

Applicable to	Environmental Conditions	Input Power	Tested by
RE $\geq$ 1G	25 deg. C, 70% RH 25 deg. C, 71% RH	55Vdc	Luis Lee Noah Chang
RE<1G	25 deg. C, 70% RH	120Vac, 60Hz 55Vdc	Luis Lee
PLC	25 deg. C, 75% RH 22 deg. C, 66% RH	120Vac, 60Hz 55Vdc	Noah Chang Adair Peng
APCM	25 deg. C, 60% RH	55Vdc	Frank Liu

3.3 Duty Cycle of Test Signal

Test Mode A (Internal antenna + Eth6 Radio)

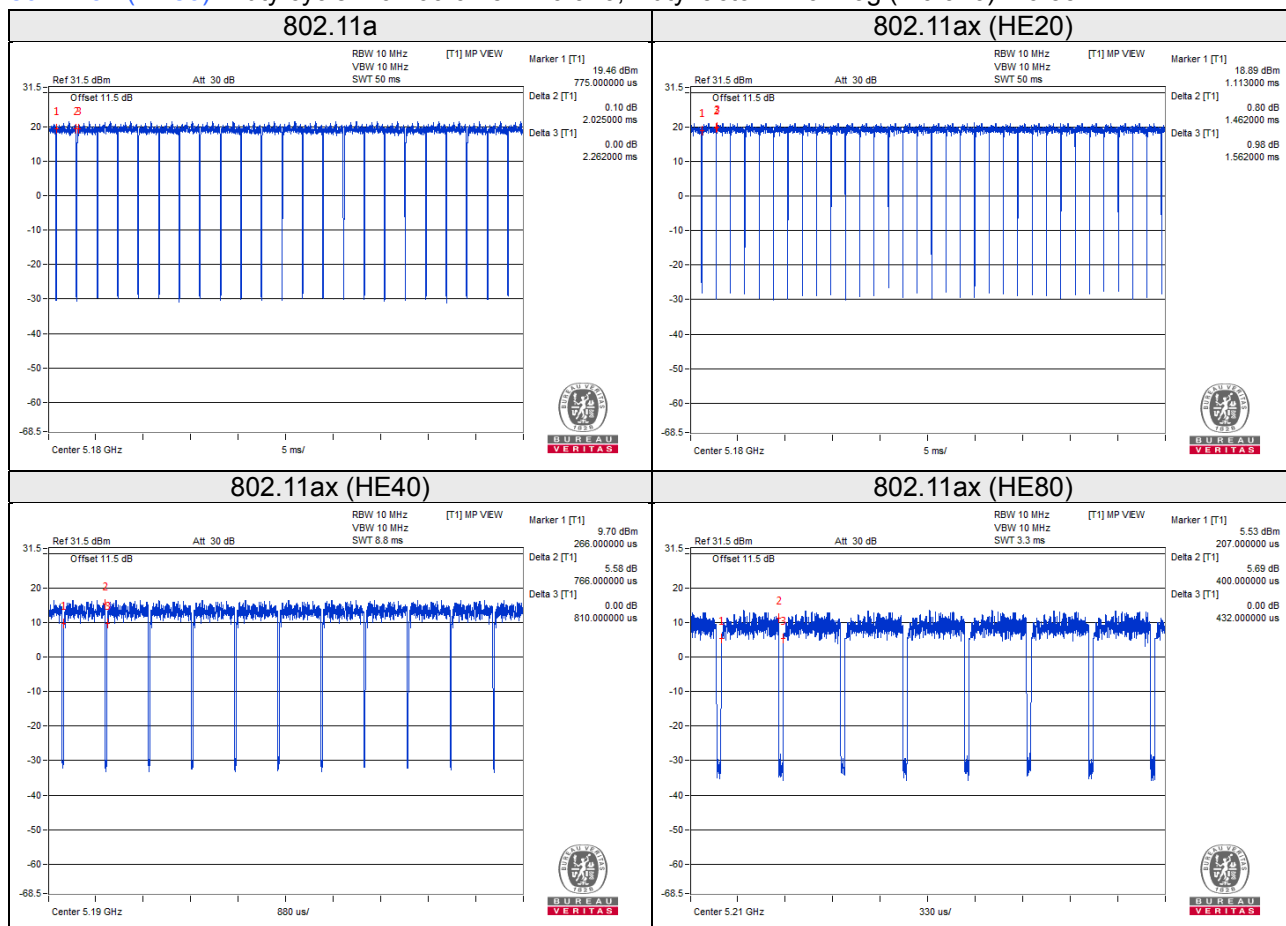
Duty cycle of test signal is < 98%, duty factor is required.

802.11a: Duty cycle = $2.025/2.262 = 0.895$, Duty factor = $10 * \log(1/0.895) = 0.48$

802.11ax (HE20): Duty cycle = $1.462/1.562 = 0.936$, Duty factor = $10 * \log(1/0.936) = 0.29$

802.11ax (HE40): Duty cycle = $0.766/0.810 = 0.946$, Duty factor = $10 * \log(1/0.946) = 0.24$

802.11ax (HE80): Duty cycle = $0.400/0.432 = 0.926$, Duty factor = $10 * \log(1/0.926) = 0.33$



Test Mode C (Internal antenna + Eth7 Radio)

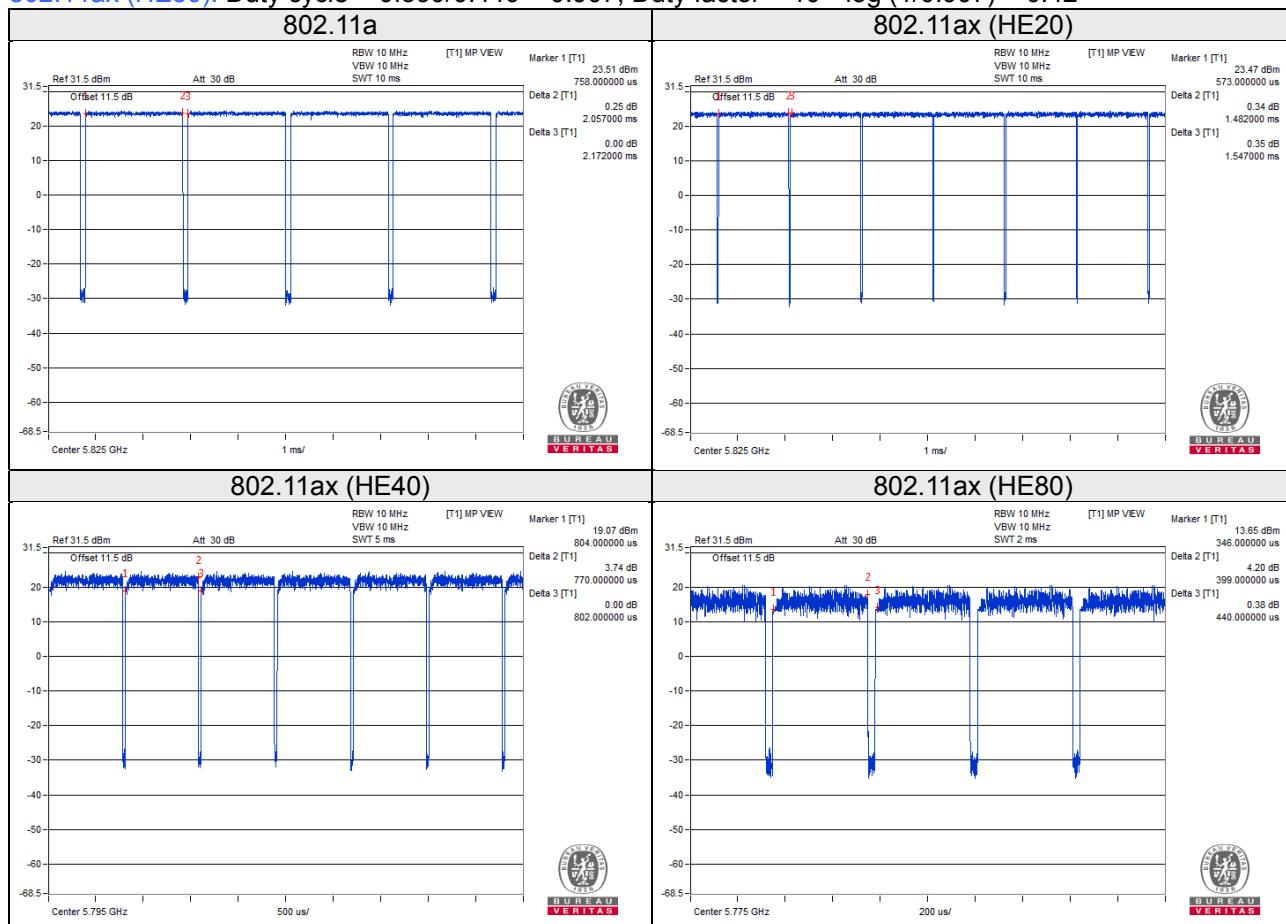
Duty cycle of test signal is < 98%, duty factor is required.

802.11a: Duty cycle = $2.057/2.172 = 0.947$, Duty factor = $10 * \log(1/0.947) = 0.24$

802.11ax (HE20): Duty cycle = $1.482/1.547 = 0.958$, Duty factor = $10 * \log(1/0.958) = 0.19$

802.11ax (HE40): Duty cycle = $0.770/0.802 = 0.960$, Duty factor = $10 * \log(1/0.960) = 0.18$

802.11ax (HE80): Duty cycle = $0.399/0.440 = 0.907$, Duty factor = $10 * \log(1/0.907) = 0.42$



Test Mode E (Internal antenna + Eth8 Radio)

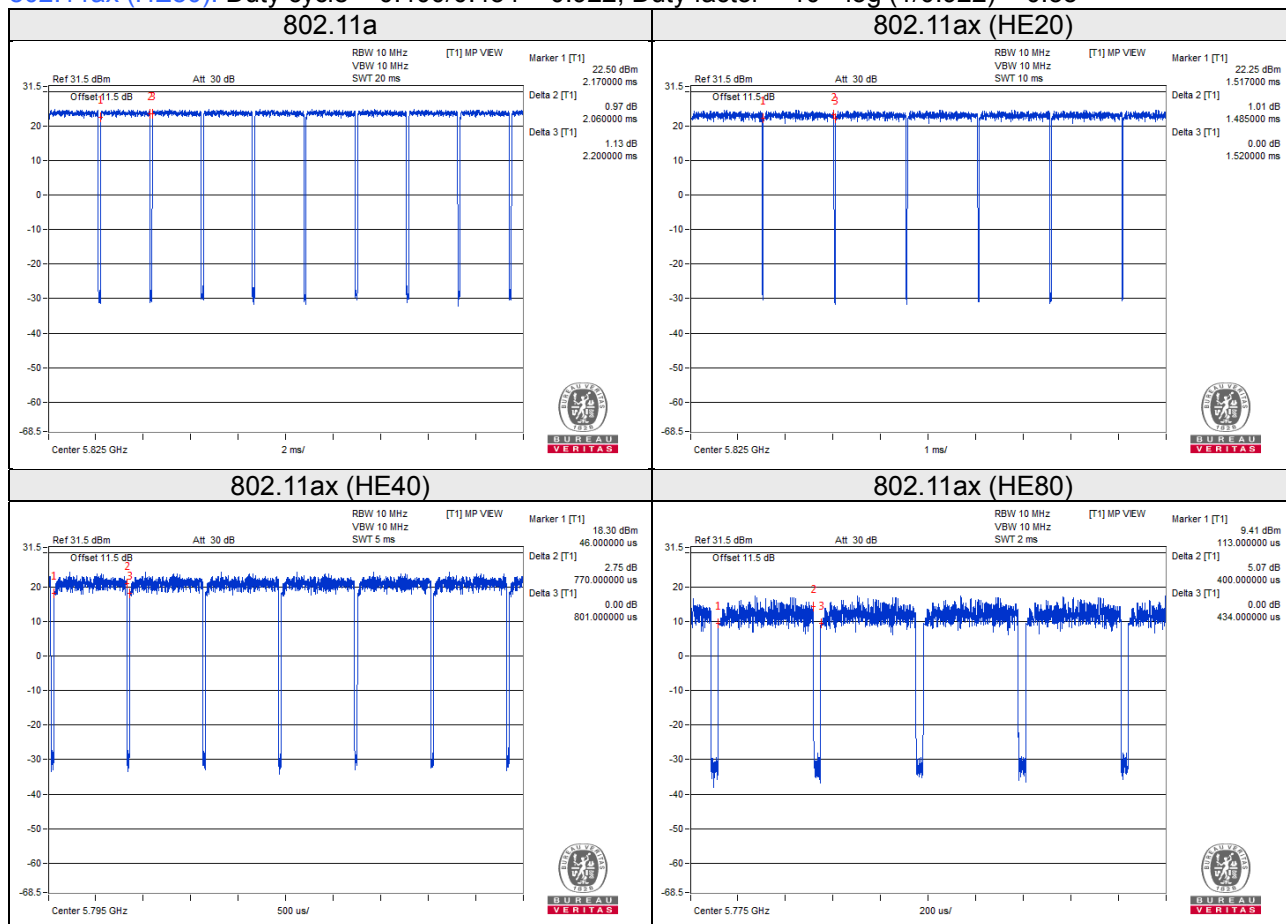
Duty cycle of test signal is < 98%, duty factor is required.

802.11a: Duty cycle = $2.060/2.200 = 0.936$, Duty factor = $10 * \log(1/0.936) = 0.29$

802.11ax (HE20): Duty cycle = $1.485/1.520 = 0.977$, Duty factor = $10 * \log(1/0.977) = 0.10$

802.11ax (HE40): Duty cycle = $0.770/0.801 = 0.961$, Duty factor = $10 * \log(1/0.961) = 0.17$

802.11ax (HE80): Duty cycle = $0.400/0.434 = 0.922$, Duty factor = $10 * \log(1/0.922) = 0.35$



Test Mode G (External antenna + Eth6 Radio)

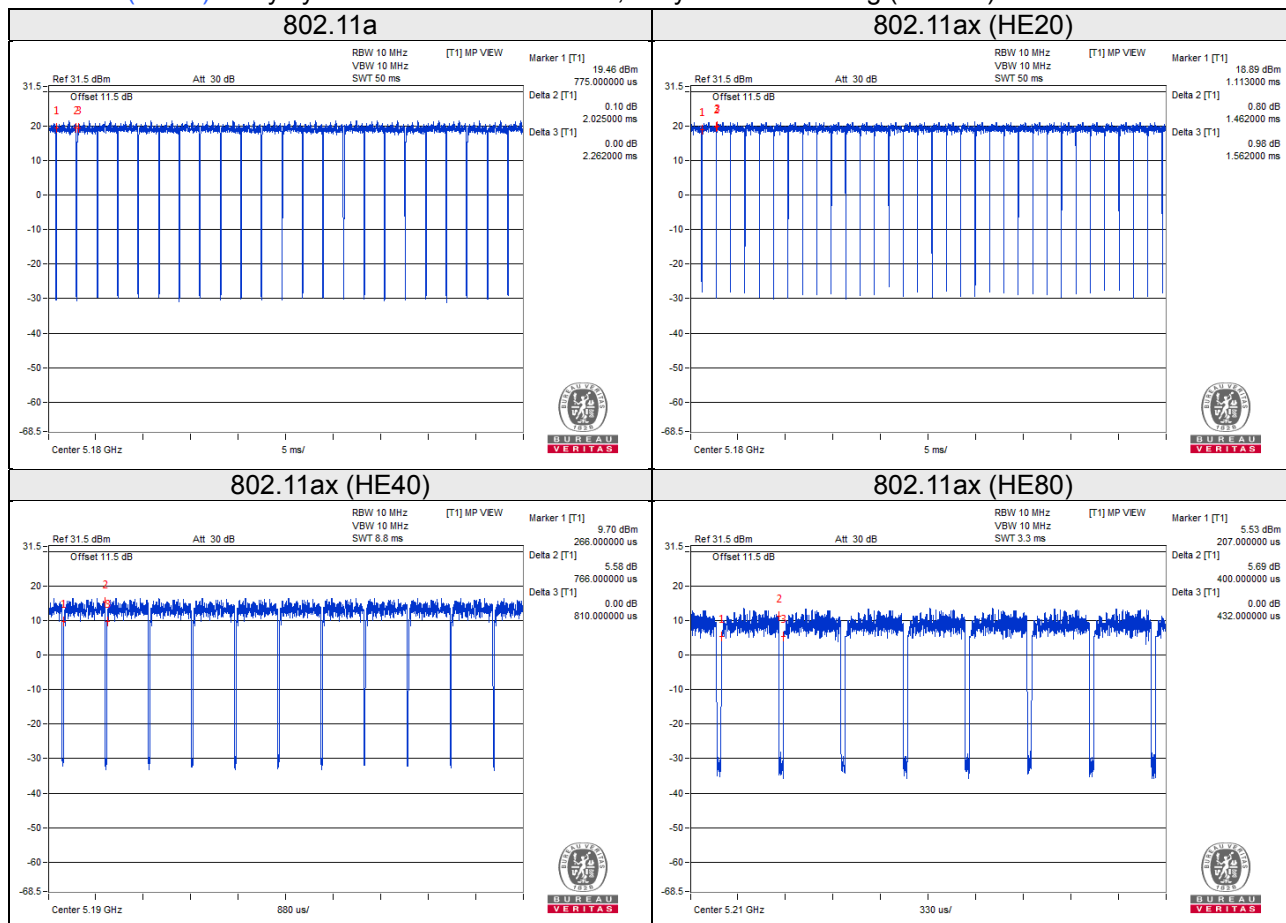
Duty cycle of test signal is < 98%, duty factor is required.

802.11a: Duty cycle = $2.025/2.262 = 0.895$, Duty factor = $10 * \log(1/0.895) = 0.48$

802.11ax (HE20): Duty cycle = $1.462/1.562 = 0.936$, Duty factor = $10 * \log(1/0.936) = 0.29$

802.11ax (HE40): Duty cycle = $0.766/0.810 = 0.946$, Duty factor = $10 * \log(1/0.946) = 0.24$

802.11ax (HE80): Duty cycle = $0.400/0.432 = 0.926$, Duty factor = $10 * \log(1/0.926) = 0.33$



Test Mode I (External antenna + Eth7 Radio)

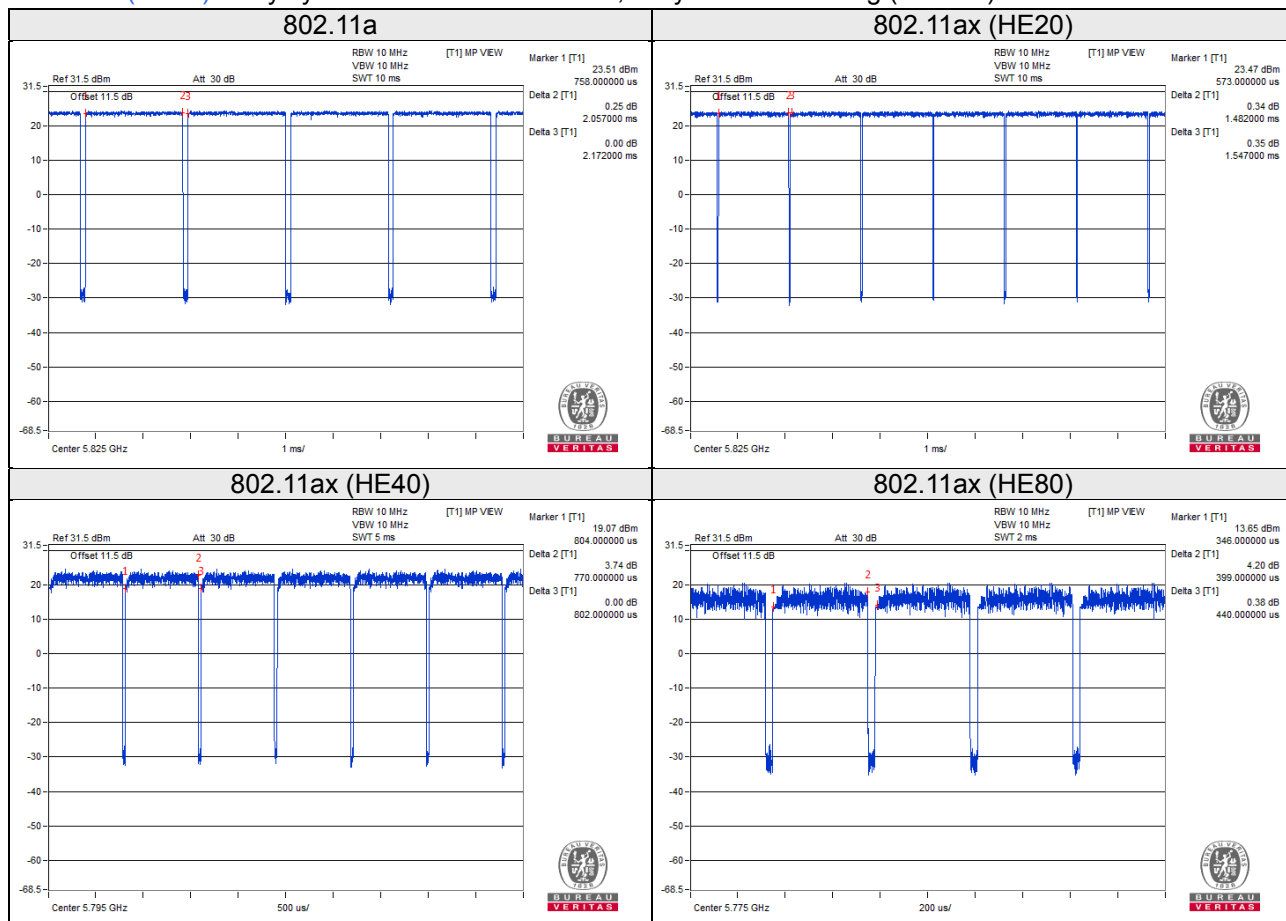
Duty cycle of test signal is < 98%, duty factor is required.

802.11a: Duty cycle = $2.057/2.172 = 0.947$, Duty factor = $10 * \log(1/0.947) = 0.24$

802.11ax (HE20): Duty cycle = $1.482/1.547 = 0.958$, Duty factor = $10 * \log(1/0.958) = 0.19$

802.11ax (HE40): Duty cycle = $0.770/0.802 = 0.960$, Duty factor = $10 * \log(1/0.960) = 0.18$

802.11ax (HE80): Duty cycle = $0.399/0.440 = 0.907$, Duty factor = $10 * \log(1/0.907) = 0.42$



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.	Notebook	DELL	E5410	1HC2XM1	FCC DoC Approved	-
B.	Adapter	Channel Well Technology	2ABN036F	NA	NA	Provided by manufacturer
C.	POE	Microsemi	PD9001GR	NA	NA	Provided by manufacturer

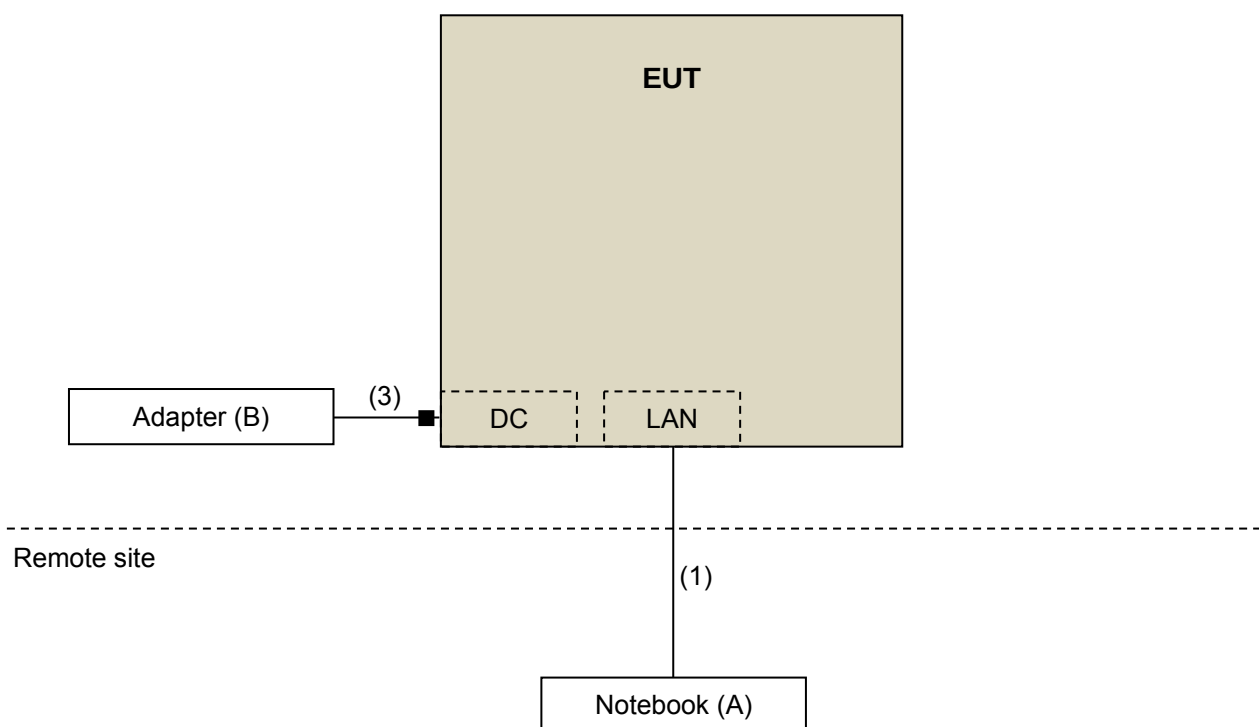
Note:

1. All power cords of the above support units are non-shielded (1.8m).
2. Item A acted as a communication partner to transfer data.

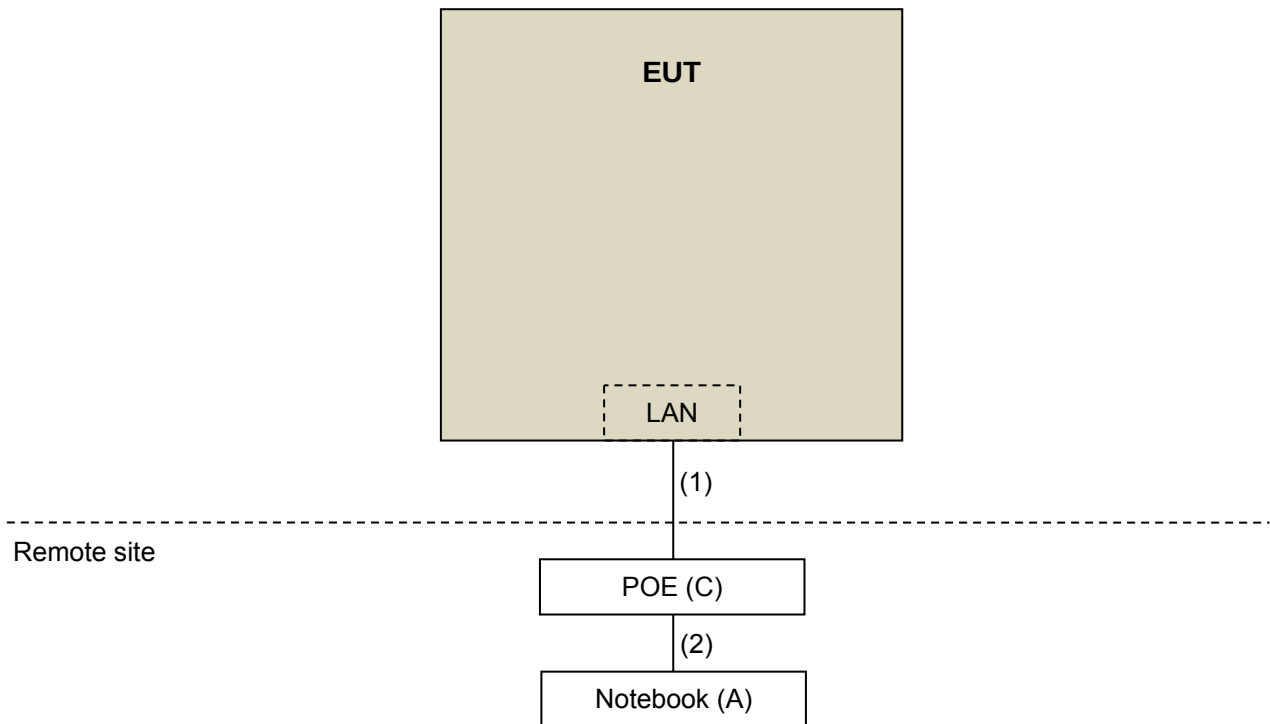
ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	RJ45 cable	1	6	N	0	Cat5e
2.	RJ45 cable	1	1.5	N	0	Cat5e
3.	DC cable	1	1.5	-	1	Provided by manufacturer

3.4.1 Configuration of System under Test

Adapter Mode



POE Mode



3.5 General Description of Applied Standards

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

FCC Part 15, Subpart E (15.407)

KDB 789033 D02 General UNII Test Procedure New Rules v02r01

KDB 662911 D01 Multiple Transmitter Output v02r01

ANSI C63.10:2013

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

4 Test Types and Results

4.1 Radiated Emission and Bandedge Measurement

4.1.1 Limits of Radiated Emission and Bandedge Measurement

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

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

Note:

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

Limits of unwanted emission out of the restricted bands

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

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

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

4.1.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver ROHDE & SCHWARZ	ESCI	100424	Jan. 03, 2019	Jan. 02, 2020
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100040	Sep. 25, 2018	Sep. 24, 2019
BILOG Antenna SCHWARZBECK	VULB9168	9168-155	Nov. 21, 2018	Nov. 20, 2019
HORN Antenna SCHWARZBECK	BBHA 9120D	9120D-1170	Nov. 25, 2018	Nov. 24, 2019
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170241	Nov. 25, 2018	Nov. 24, 2019
Loop Antenna TESEQ	HLA 6121	45745	Jun. 14, 2018	Jun. 13, 2019
Preamplifier Agilent (Below 1GHz)	8447D	2944A10631	Aug. 08, 2018	Aug. 07, 2019
Preamplifier KEYSIGHT (Above 1GHz)	83017A	MY53270295	Jul. 02, 2018	Jul. 01, 2019
RF signal cable HUBER+SUHNER	SUCOFLEX 104	MY 13380+295012/04	Aug. 08, 2018	Aug. 07, 2019
RF signal cable HUBER+SUHNER	SUCOFLEX 104	Cable-CH4-03 (250724)	Aug. 08, 2018	Aug. 07, 2019
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	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
Boresight Antenna Fixture	FBA-01	FBA-SIP01	NA	NA
Pre-amplifier (18GHz-40GHz) EMC	EMC184045B	980175	Nov. 14, 2018	Nov. 13, 2019
USB Wideband Power Sensor KEYSIGHT	U2021XA	MY55050005/MY5519000 4/MY55190007/MY55210 005	Jul. 17, 2018	Jul. 16, 2019

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.

4.1.3 Test Procedures

For Radiated emission below 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9kHz at frequency below 30MHz.

For Radiated emission above 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters (for 30MHz ~ 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. The test-receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

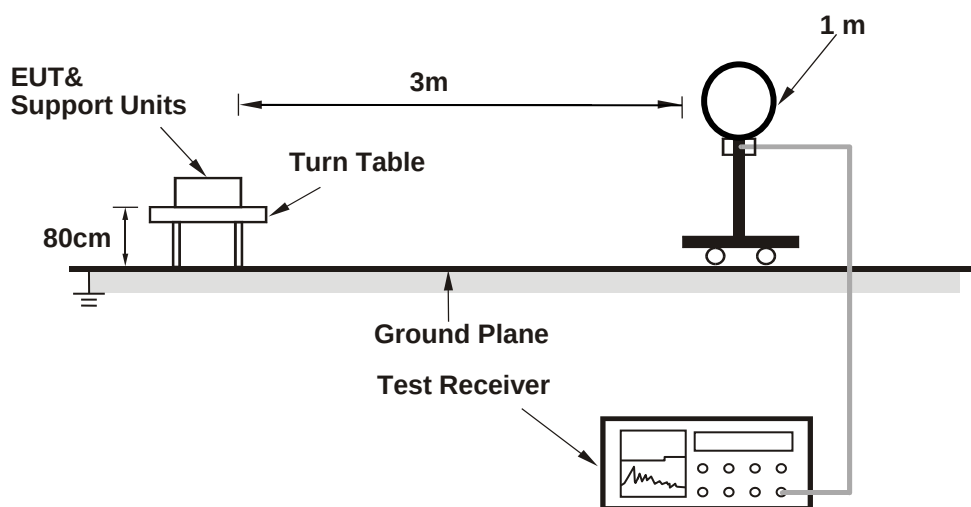
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle < 98%) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.

4.1.4 Deviation from Test Standard

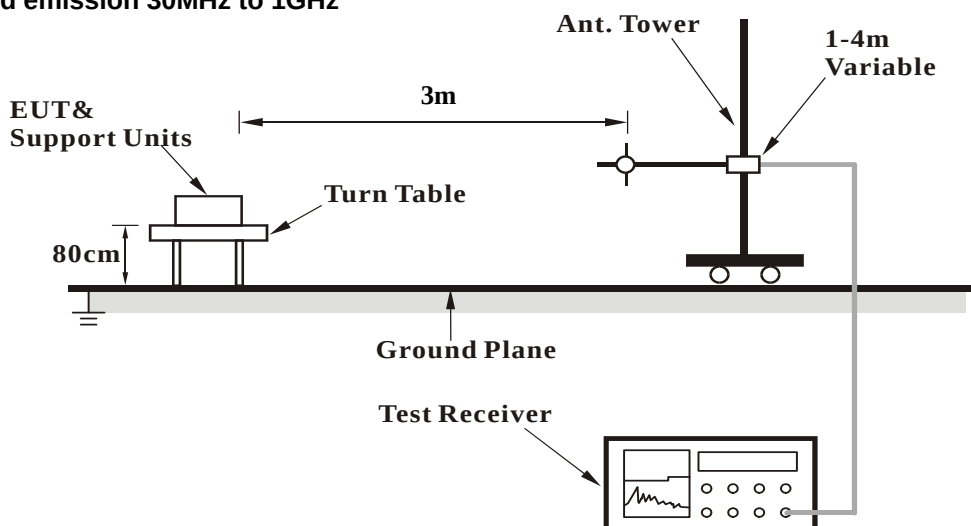
No deviation.

4.1.5 Test Setup

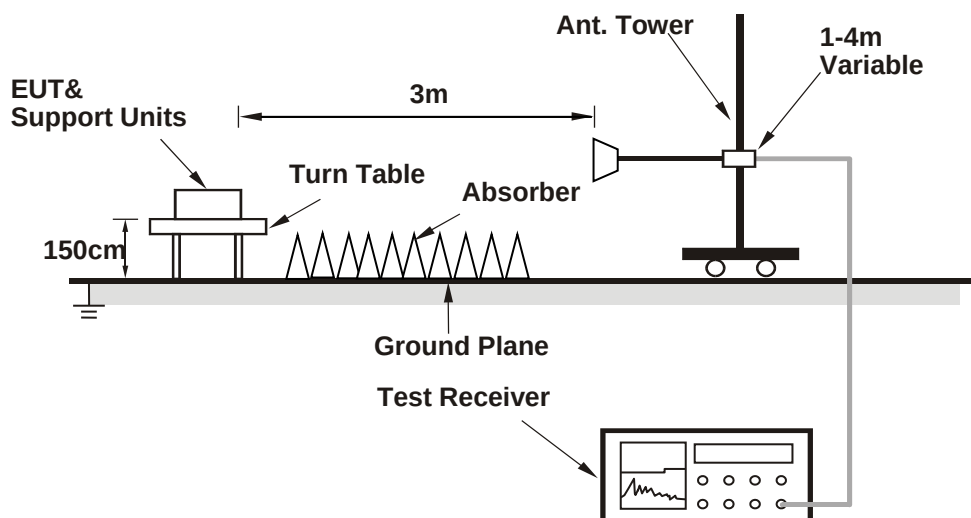
For Radiated emission below 30MHz



For Radiated emission 30MHz to 1GHz



For Radiated emission above 1GHz



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

4.1.6 EUT Operating Conditions

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

4.1.7 Test Results

Above 1GHz data:

Test Mode A (Internal antenna + Eth6 Radio)

802.11a

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	67.3 PK	74.0	-6.7	1.05 H	62	54.7	12.6
2	5150.00	48.4 AV	54.0	-5.6	1.05 H	62	35.8	12.6
3	*5180.00	114.9 PK			1.00 H	45	73.4	41.5
4	*5180.00	105.3 AV			1.00 H	45	63.8	41.5
5	#10360.00	63.9 PK	68.2	-4.3	2.14 H	195	41.4	22.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	64.4 PK	74.0	-9.6	1.15 V	342	51.8	12.6
2	5150.00	48.2 AV	54.0	-5.8	1.15 V	342	35.6	12.6
3	*5180.00	112.0 PK			1.00 V	351	70.5	41.5
4	*5180.00	102.6 AV			1.00 V	351	61.1	41.5
5	#10360.00	63.5 PK	68.2	-4.7	1.82 V	301	41.0	22.5

Remarks:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5200.00	119.6 PK			1.00 H	47	78.1	41.5
2	*5200.00	110.1 AV			1.00 H	47	68.6	41.5
3	#10400.00	63.5 PK	68.2	-4.7	2.36 H	154	40.6	22.9
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5200.00	115.5 PK			1.01 V	352	74.0	41.5
2	*5200.00	106.2 AV			1.01 V	352	64.7	41.5
3	#10400.00	63.1 PK	68.2	-5.1	3.14 V	150	40.2	22.9

Remarks:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	119.0 PK			1.00 H	41	77.8	41.2
2	*5240.00	109.2 AV			1.00 H	41	68.0	41.2
3	5350.00	61.0 PK	74.0	-13.0	1.00 H	57	48.6	12.4
4	5350.00	48.1 AV	54.0	-5.9	1.00 H	57	35.7	12.4
5	#10480.00	63.2 PK	68.2	-5.0	2.27 H	196	40.4	22.8
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	117.4 PK			1.01 V	350	76.2	41.2
2	*5240.00	106.8 AV			1.01 V	350	65.6	41.2
3	5350.00	60.5 PK	74.0	-13.5	1.00 V	344	48.1	12.4
4	5350.00	47.7 AV	54.0	-6.3	1.00 V	344	35.3	12.4
5	#10480.00	63.0 PK	68.2	-5.2	3.06 V	195	40.2	22.8

Remarks:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5623.20	64.9 PK	68.2	-3.3	1.00 H	59	52.2	12.7
2	*5745.00	122.8 PK			1.00 H	59	80.3	42.5
3	*5745.00	113.1 AV			1.00 H	59	70.6	42.5
4	#5991.20	63.9 PK	68.2	-4.3	1.00 H	59	50.1	13.8
5	11490.00	64.3 PK	74.0	-9.7	2.36 H	117	40.2	24.1
6	11490.00	51.2 AV	54.0	-2.8	2.36 H	117	27.1	24.1
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	#5620.00	64.1 PK	68.2	-4.1	1.00 V	26	51.4	12.7
2	*5745.00	118.9 PK			1.00 V	26	76.4	42.5
3	*5745.00	109.5 AV			1.00 V	26	67.0	42.5
4	#5968.80	63.6 PK	68.2	-4.6	1.00 V	26	49.9	13.7
5	11490.00	64.3 PK	74.0	-9.7	1.64 V	199	40.2	24.1
6	11490.00	51.1 AV	54.0	-2.9	1.64 V	199	27.0	24.1

Remarks:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5632.00	62.9 PK	68.2	-5.3	1.39 H	51	50.2	12.7
2	*5785.00	123.1 PK			1.00 H	59	80.5	42.6
3	*5785.00	112.9 AV			1.00 H	59	70.3	42.6
4	#5972.00	64.0 PK	68.2	-4.2	1.39 H	51	50.3	13.7
5	11570.00	64.5 PK	74.0	-9.5	2.05 H	136	40.5	24.0
6	11570.00	51.3 AV	54.0	-2.7	2.05 H	136	27.3	24.0
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	#5622.40	62.8 PK	68.2	-5.4	3.15 V	20	50.1	12.7
2	*5785.00	119.6 PK			3.15 V	20	77.0	42.6
3	*5785.00	109.2 AV			3.15 V	20	66.6	42.6
4	#5972.00	63.5 PK	68.2	-4.7	3.15 V	20	49.8	13.7
5	11570.00	64.2 PK	74.0	-9.8	2.64 V	118	40.2	24.0
6	11570.00	50.9 AV	54.0	-3.1	2.64 V	118	26.9	24.0

Remarks:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5615.20	64.0 PK	68.2	-4.2	1.39 H	50	51.3	12.7
2	*5825.00	122.7 PK			1.39 H	50	80.1	42.6
3	*5825.00	113.2 AV			1.39 H	50	70.6	42.6
4	#5955.20	64.1 PK	68.2	-4.1	1.39 H	50	50.5	13.6
5	11650.00	64.2 PK	74.0	-9.8	1.18 H	264	40.6	23.6
6	11650.00	50.6 AV	54.0	-3.4	1.18 H	264	27.0	23.6
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5616.80	62.9 PK	68.2	-5.3	3.15 V	17	50.2	12.7
2	*5825.00	118.4 PK			3.15 V	17	75.8	42.6
3	*5825.00	108.1 AV			3.15 V	17	65.5	42.6
4	#5978.40	63.3 PK	68.2	-4.9	3.15 V	17	49.5	13.8
5	11650.00	63.8 PK	74.0	-10.2	1.68 V	114	40.2	23.6
6	11650.00	50.4 AV	54.0	-3.6	1.68 V	114	26.8	23.6

Remarks:

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

802.11ax (HE20)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	71.2 PK	74.0	-2.8	1.00 H	50	58.6	12.6
2	5150.00	52.6 AV	54.0	-1.4	1.00 H	50	40.0	12.6
3	*5180.00	117.3 PK			1.16 H	319	75.8	41.5
4	*5180.00	104.7 AV			1.16 H	319	63.2	41.5
5	#10360.00	63.3 PK	68.2	-4.9	2.65 H	142	40.8	22.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	68.1 PK	74.0	-5.9	1.06 V	347	55.5	12.6
2	5150.00	50.2 AV	54.0	-3.8	1.06 V	347	37.6	12.6
3	*5180.00	114.2 PK			1.01 V	357	72.7	41.5
4	*5180.00	101.1 AV			1.01 V	357	59.6	41.5
5	#10360.00	62.8 PK	68.2	-5.4	3.17 V	146	40.3	22.5

Remarks:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	68.7 PK	74.0	-5.3	1.00 H	38	56.1	12.6
2	5150.00	52.7 AV	54.0	-1.3	1.00 H	38	40.1	12.6
3	*5200.00	120.9 PK			1.00 H	44	79.4	41.5
4	*5200.00	108.8 AV			1.00 H	44	67.3	41.5
5	#10400.00	63.2 PK	68.2	-5.0	2.10 H	181	40.3	22.9
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	66.7 PK	74.0	-7.3	1.00 V	344	54.1	12.6
2	5150.00	50.4 AV	54.0	-3.6	1.00 V	344	37.8	12.6
3	*5200.00	118.7 PK			1.02 V	355	77.2	41.5
4	*5200.00	106.6 AV			1.02 V	355	65.1	41.5
5	#10400.00	62.9 PK	68.2	-5.3	3.60 V	152	40.0	22.9

Remarks:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	121.0 PK			1.00 H	41	79.8	41.2
2	*5240.00	109.0 AV			1.00 H	41	67.8	41.2
3	5350.00	61.0 PK	74.0	-13.0	1.00 H	44	48.6	12.4
4	5350.00	48.3 AV	54.0	-5.7	1.00 H	44	35.9	12.4
5	#10480.00	63.0 PK	68.2	-5.2	1.97 H	205	40.2	22.8
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	117.9 PK			1.01 V	355	76.7	41.2
2	*5240.00	107.1 AV			1.01 V	355	65.9	41.2
3	5350.00	60.8 PK	74.0	-13.2	1.06 V	352	48.4	12.4
4	5350.00	47.7 AV	54.0	-6.3	1.06 V	352	35.3	12.4
5	#10480.00	62.9 PK	68.2	-5.3	2.68 V	117	40.1	22.8

Remarks:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5642.40	64.0 PK	68.2	-4.2	1.41 H	64	51.3	12.7
2	*5745.00	122.8 PK			1.41 H	64	80.3	42.5
3	*5745.00	111.2 AV			1.41 H	64	68.7	42.5
4	#5970.40	64.0 PK	68.2	-4.2	1.41 H	64	50.3	13.7
5	11490.00	64.7 PK	74.0	-9.3	1.94 H	225	40.6	24.1
6	11490.00	51.2 AV	54.0	-2.8	1.94 H	225	27.1	24.1
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	#5620.00	62.1 PK	68.2	-6.1	3.18 V	10	49.4	12.7
2	*5745.00	120.4 PK			3.18 V	10	77.9	42.5
3	*5745.00	107.9 AV			3.18 V	10	65.4	42.5
4	#5936.00	63.2 PK	68.2	-5.0	3.18 V	10	49.6	13.6
5	11490.00	64.3 PK	74.0	-9.7	1.94 V	215	40.2	24.1
6	11490.00	51.0 AV	54.0	-3.0	1.94 V	215	26.9	24.1

Remarks:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5619.20	63.3 PK	68.2	-4.9	1.39 H	62	50.6	12.7
2	*5785.00	123.4 PK			1.39 H	62	80.8	42.6
3	*5785.00	111.1 AV			1.39 H	62	68.5	42.6
4	#5926.40	64.8 PK	68.2	-3.4	1.39 H	62	51.2	13.6
5	11570.00	64.6 PK	74.0	-9.4	2.41 H	155	40.6	24.0
6	11570.00	51.2 AV	54.0	-2.8	2.41 H	155	27.2	24.0
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	#5640.00	62.1 PK	68.2	-6.1	3.18 V	21	49.4	12.7
2	*5785.00	119.6 PK			3.18 V	21	77.0	42.6
3	*5785.00	108.4 AV			3.18 V	21	65.8	42.6
4	#5997.60	63.1 PK	68.2	-5.1	3.18 V	21	49.3	13.8
5	11570.00	64.1 PK	74.0	-9.9	2.93 V	175	40.1	24.0
6	11570.00	50.7 AV	54.0	-3.3	2.93 V	175	26.7	24.0

Remarks:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5644.80	63.7 PK	68.2	-4.5	1.47 H	58	51.0	12.7
2	*5825.00	124.3 PK			1.47 H	58	81.7	42.6
3	*5825.00	112.3 AV			1.47 H	58	69.7	42.6
4	#5930.40	66.2 PK	68.2	-2.0	1.47 H	58	52.6	13.6
5	11650.00	64.1 PK	74.0	-9.9	1.78 H	230	40.5	23.6
6	11650.00	50.9 AV	54.0	-3.1	1.78 H	230	27.3	23.6
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5648.00	63.2 PK	68.2	-5.0	3.34 V	10	50.6	12.6
2	*5825.00	119.9 PK			3.34 V	10	77.3	42.6
3	*5825.00	108.0 AV			3.34 V	10	65.4	42.6
4	#5992.80	63.6 PK	68.2	-4.6	3.34 V	10	49.8	13.8
5	11650.00	63.8 PK	74.0	-10.2	2.20 V	183	40.2	23.6
6	11650.00	50.6 AV	54.0	-3.4	2.20 V	183	27.0	23.6

Remarks:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	68.1 PK	74.0	-5.9	1.00 H	43	55.5	12.6
2	5150.00	51.2 AV	54.0	-2.8	1.00 H	43	38.6	12.6
3	*5190.00	111.5 PK			1.00 H	43	70.0	41.5
4	*5190.00	98.9 AV			1.00 H	43	57.4	41.5
5	#10380.00	62.8 PK	68.2	-5.4	2.91 H	142	40.1	22.7
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	5150.00	63.8 PK	74.0	-10.2	1.06 V	347	51.2	12.6
2	5150.00	50.5 AV	54.0	-3.5	1.06 V	347	37.9	12.6
3	*5190.00	106.8 PK			1.01 V	356	65.3	41.5
4	*5190.00	95.1 AV			1.01 V	356	53.6	41.5
5	#10380.00	62.7 PK	68.2	-5.5	2.16 V	255	40.0	22.7

Remarks:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	66.7 PK	74.0	-7.3	1.00 H	41	54.1	12.6
2	5150.00	52.1 AV	54.0	-1.9	1.00 H	41	39.5	12.6
3	*5230.00	115.7 PK			1.00 H	43	74.4	41.3
4	*5230.00	103.6 AV			1.00 H	43	62.3	41.3
5	5350.00	60.9 PK	74.0	-13.1	1.06 H	61	48.5	12.4
6	5350.00	47.6 AV	54.0	-6.4	1.06 H	61	35.2	12.4
7	#10460.00	63.4 PK	68.2	-4.8	2.45 H	195	40.5	22.9
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	63.8 PK	74.0	-10.2	1.00 V	344	51.2	12.6
2	5150.00	50.4 AV	54.0	-3.6	1.00 V	344	37.8	12.6
3	*5230.00	112.6 PK			1.01 V	356	71.3	41.3
4	*5230.00	100.6 AV			1.01 V	356	59.3	41.3
5	5350.00	60.7 PK	74.0	-13.3	1.09 V	351	48.3	12.4
6	5350.00	47.3 AV	54.0	-6.7	1.09 V	351	34.9	12.4
7	#10460.00	63.1 PK	68.2	-5.1	2.33 V	196	40.2	22.9

Remarks:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5637.60	67.1 PK	68.2	-1.1	1.47 H	60	54.4	12.7
2	*5755.00	121.0 PK			1.47 H	60	78.5	42.5
3	*5755.00	108.7 AV			1.47 H	60	66.2	42.5
4	#5935.20	64.5 PK	68.2	-3.7	1.47 H	60	50.9	13.6
5	11510.00	64.6 PK	74.0	-9.4	2.88 H	146	40.7	23.9
6	11510.00	51.3 AV	54.0	-2.7	2.88 H	146	27.4	23.9
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5649.60	63.6 PK	68.2	-4.6	3.34 V	21	51.0	12.6
2	*5755.00	117.4 PK			3.34 V	21	74.9	42.5
3	*5755.00	105.0 AV			3.34 V	21	62.5	42.5
4	#5983.20	63.2 PK	68.2	-5.0	3.34 V	21	49.4	13.8
5	11510.00	64.0 PK	74.0	-10.0	2.30 V	311	40.1	23.9
6	11510.00	50.8 AV	54.0	-3.2	2.30 V	311	26.9	23.9

Remarks:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5608.00	63.9 PK	68.2	-4.3	1.47 H	57	51.2	12.7
2	*5795.00	122.1 PK			1.47 H	57	79.5	42.6
3	*5795.00	107.9 AV			1.47 H	57	65.3	42.6
4	#5937.60	67.0 PK	68.2	-1.2	1.47 H	57	53.4	13.6
5	11590.00	64.0 PK	74.0	-10.0	2.90 H	177	40.2	23.8
6	11590.00	50.8 AV	54.0	-3.2	2.90 H	177	27.0	23.8
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5632.80	62.5 PK	68.2	-5.7	3.34 V	19	49.8	12.7
2	*5795.00	116.9 PK			3.34 V	19	74.3	42.6
3	*5795.00	104.3 AV			3.34 V	19	61.7	42.6
4	#5926.40	64.3 PK	68.2	-3.9	3.34 V	19	50.7	13.6
5	11590.00	63.8 PK	74.0	-10.2	2.68 V	147	40.0	23.8
6	11590.00	50.5 AV	54.0	-3.5	2.68 V	147	26.7	23.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB).
3. Margin value = Emission Level - Limit value.
4. The other emission levels were very low against the limit.
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) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	66.8 PK	74.0	-7.2	1.00 H	46	54.2	12.6
2	5150.00	53.0 AV	54.0	-1.0	1.00 H	46	40.4	12.6
3	*5210.00	109.1 PK			1.00 H	42	67.7	41.4
4	*5210.00	97.3 AV			1.00 H	42	55.9	41.4
5	5350.00	58.8 PK	74.0	-15.2	1.06 H	55	46.4	12.4
6	5350.00	48.2 AV	54.0	-5.8	1.06 H	55	35.8	12.4
7	#10420.00	63.1 PK	68.2	-5.1	2.29 H	174	40.3	22.8
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	63.4 PK	74.0	-10.6	1.01 V	353	50.8	12.6
2	5150.00	49.4 AV	54.0	-4.6	1.01 V	353	36.8	12.6
3	*5210.00	104.7 PK			1.01 V	356	63.3	41.4
4	*5210.00	93.9 AV			1.01 V	356	52.5	41.4
5	5350.00	58.3 PK	74.0	-15.7	1.17 V	347	45.9	12.4
6	5350.00	47.8 AV	54.0	-6.2	1.17 V	347	35.4	12.4
7	#10420.00	62.9 PK	68.2	-5.3	2.61 V	185	40.1	22.8

Remarks:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5630.40	65.6 PK	68.2	-2.6	1.49 H	61	52.9	12.7
2	*5775.00	113.0 PK			1.49 H	61	70.4	42.6
3	*5775.00	100.8 AV			1.49 H	61	58.2	42.6
4	#5932.80	66.7 PK	68.2	-1.5	1.49 H	61	53.1	13.6
5	11550.00	64.5 PK	74.0	-9.5	1.22 H	241	40.6	23.9
6	11550.00	51.3 AV	54.0	-2.7	1.22 H	241	27.4	23.9
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5637.60	63.0 PK	68.2	-5.2	3.72 V	8	50.3	12.7
2	*5775.00	111.9 PK			3.72 V	8	69.3	42.6
3	*5775.00	98.7 AV			3.72 V	8	56.1	42.6
4	#5947.20	63.8 PK	68.2	-4.4	3.72 V	8	50.2	13.6
5	11550.00	64.0 PK	74.0	-10.0	3.11 V	152	40.1	23.9
6	11550.00	50.7 AV	54.0	-3.3	3.11 V	152	26.8	23.9

Remarks:

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

Test Mode C (Internal antenna + Eth7 Radio)

802.11a

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	69.6 PK	74.0	-4.4	1.00 H	51	57.0	12.6
2	5150.00	52.5 AV	54.0	-1.5	1.00 H	51	39.9	12.6
3	*5180.00	114.9 PK			1.00 H	56	73.4	41.5
4	*5180.00	106.3 AV			1.00 H	56	64.8	41.5
5	#10360.00	62.7 PK	68.2	-5.5	2.93 H	130	40.2	22.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	64.6 PK	74.0	-9.4	1.89 V	5	52.0	12.6
2	5150.00	50.1 AV	54.0	-3.9	1.89 V	5	37.5	12.6
3	*5180.00	111.9 PK			1.89 V	5	70.4	41.5
4	*5180.00	102.5 AV			1.89 V	5	61.0	41.5
5	#10360.00	62.0 PK	68.2	-6.2	1.25 V	222	39.5	22.5

Remarks:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	69.4 PK	74.0	-4.6	1.00 H	46	56.8	12.6
2	5150.00	52.9 AV	54.0	-1.1	1.00 H	46	40.3	12.6
3	*5200.00	118.7 PK			1.00 H	58	77.2	41.5
4	*5200.00	109.1 AV			1.00 H	58	67.6	41.5
5	#10400.00	63.2 PK	68.2	-5.0	2.48 H	176	40.3	22.9
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	68.4 PK	74.0	-5.6	1.18 V	3	55.8	12.6
2	5150.00	50.1 AV	54.0	-3.9	1.18 V	3	37.5	12.6
3	*5200.00	114.7 PK			1.05 V	360	73.2	41.5
4	*5200.00	105.1 AV			1.05 V	360	63.6	41.5
5	#10400.00	62.7 PK	68.2	-5.5	1.58 V	211	39.8	22.9

Remarks:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	119.0 PK			1.00 H	57	77.8	41.2
2	*5240.00	109.1 AV			1.00 H	57	67.9	41.2
3	5350.00	62.1 PK	74.0	-11.9	1.05 H	62	49.7	12.4
4	5350.00	48.7 AV	54.0	-5.3	1.05 H	62	36.3	12.4
5	#10480.00	63.3 PK	68.2	-4.9	2.51 H	174	40.5	22.8
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	115.0 PK			1.88 V	10	73.8	41.2
2	*5240.00	105.1 AV			1.88 V	10	63.9	41.2
3	5350.00	61.0 PK	74.0	-13.0	1.89 V	5	48.6	12.4
4	5350.00	47.6 AV	54.0	-6.4	1.89 V	5	35.2	12.4
5	#10480.00	62.7 PK	68.2	-5.5	3.02 V	102	39.9	22.8

Remarks:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5612.80	63.0 PK	68.2	-5.2	1.20 H	49	50.3	12.7
2	*5745.00	119.3 PK			1.20 H	49	76.8	42.5
3	*5745.00	110.0 AV			1.20 H	49	67.5	42.5
4	#5949.60	64.5 PK	68.2	-3.7	1.20 H	49	50.9	13.6
5	11490.00	64.2 PK	74.0	-9.8	2.65 H	174	40.1	24.1
6	11490.00	50.9 AV	54.0	-3.1	2.65 H	174	26.8	24.1
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	#5644.80	63.7 PK	68.2	-4.5	3.93 V	349	51.0	12.7
2	*5745.00	116.1 PK			3.93 V	349	73.6	42.5
3	*5745.00	105.3 AV			3.93 V	349	62.8	42.5
4	#5928.80	64.0 PK	68.2	-4.2	3.93 V	349	50.4	13.6
5	11490.00	63.9 PK	74.0	-10.1	2.14 V	177	39.8	24.1
6	11490.00	50.6 AV	54.0	-3.4	2.14 V	177	26.5	24.1

Remarks:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5636.80	63.7 PK	68.2	-4.5	1.24 H	46	51.0	12.7
2	*5785.00	118.7 PK			1.24 H	46	76.1	42.6
3	*5785.00	109.2 AV			1.24 H	46	66.6	42.6
4	#5978.40	64.3 PK	68.2	-3.9	1.24 H	46	50.5	13.8
5	11570.00	64.2 PK	74.0	-9.8	2.36 H	152	40.2	24.0
6	11570.00	50.7 AV	54.0	-3.3	2.36 H	152	26.7	24.0
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	#5618.40	63.7 PK	68.2	-4.5	3.92 V	2	51.0	12.7
2	*5785.00	116.3 PK			3.92 V	2	73.7	42.6
3	*5785.00	105.3 AV			3.92 V	2	62.7	42.6
4	#5925.60	64.6 PK	68.2	-3.6	3.92 V	2	51.0	13.6
5	11570.00	63.8 PK	74.0	-10.2	2.31 V	114	39.8	24.0
6	11570.00	50.3 AV	54.0	-3.7	2.31 V	114	26.3	24.0

Remarks:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5607.20	63.1 PK	68.2	-5.1	1.24 H	48	50.4	12.7
2	*5825.00	119.2 PK			1.24 H	48	76.6	42.6
3	*5825.00	109.7 AV			1.24 H	48	67.1	42.6
4	#5954.40	64.7 PK	68.2	-3.5	1.24 H	48	51.1	13.6
5	11650.00	63.7 PK	74.0	-10.3	1.99 H	254	40.1	23.6
6	11650.00	50.5 AV	54.0	-3.5	1.99 H	254	26.9	23.6
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5620.80	64.3 PK	68.2	-3.9	3.65 V	357	51.6	12.7
2	*5825.00	115.0 PK			3.65 V	357	72.4	42.6
3	*5825.00	104.4 AV			3.65 V	357	61.8	42.6
4	#5928.00	63.4 PK	68.2	-4.8	3.65 V	357	49.8	13.6
5	11650.00	63.6 PK	74.0	-10.4	2.67 V	189	40.0	23.6
6	11650.00	50.1 AV	54.0	-3.9	2.67 V	189	26.5	23.6

Remarks:

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

802.11ax (HE20)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	70.9 PK	74.0	-3.1	1.00 H	47	58.3	12.6
2	5150.00	52.5 AV	54.0	-1.5	1.00 H	47	39.9	12.6
3	*5180.00	116.8 PK			1.00 H	56	75.3	41.5
4	*5180.00	104.0 AV			1.00 H	56	62.5	41.5
5	#10360.00	62.8 PK	68.2	-5.4	2.18 H	142	40.3	22.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	66.0 PK	74.0	-8.0	1.79 V	12	53.4	12.6
2	5150.00	49.7 AV	54.0	-4.3	1.79 V	12	37.1	12.6
3	*5180.00	112.8 PK			3.88 V	2	71.3	41.5
4	*5180.00	100.0 AV			3.88 V	2	58.5	41.5
5	#10360.00	62.2 PK	68.2	-6.0	2.11 V	55	39.7	22.5

Remarks:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	69.9 PK	74.0	-4.1	1.00 H	47	57.3	12.6
2	5150.00	52.8 AV	54.0	-1.2	1.00 H	47	40.2	12.6
3	*5200.00	119.8 PK			1.00 H	61	78.3	41.5
4	*5200.00	107.9 AV			1.00 H	61	66.4	41.5
5	#10400.00	63.1 PK	68.2	-5.1	2.15 H	178	40.2	22.9
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	67.5 PK	74.0	-6.5	2.00 V	11	54.9	12.6
2	5150.00	50.1 AV	54.0	-3.9	2.00 V	11	37.5	12.6
3	*5200.00	115.8 PK			1.29 V	12	74.3	41.5
4	*5200.00	103.9 AV			1.29 V	12	62.4	41.5
5	#10400.00	62.4 PK	68.2	-5.8	3.02 V	105	39.5	22.9

Remarks:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	120.8 PK			1.04 H	59	79.6	41.2
2	*5240.00	108.3 AV			1.04 H	59	67.1	41.2
3	5350.00	62.0 PK	74.0	-12.0	1.09 H	48	49.6	12.4
4	5350.00	48.6 AV	54.0	-5.4	1.09 H	48	36.2	12.4
5	#10480.00	63.1 PK	68.2	-5.1	1.64 H	117	40.3	22.8
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	116.8 PK			1.80 V	10	75.6	41.2
2	*5240.00	104.3 AV			1.80 V	10	63.1	41.2
3	5350.00	61.3 PK	74.0	-12.7	1.89 V	5	48.9	12.4
4	5350.00	47.5 AV	54.0	-6.5	1.89 V	5	35.1	12.4
5	#10480.00	62.6 PK	68.2	-5.6	2.52 V	222	39.8	22.8

Remarks:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5616.80	63.6 PK	68.2	-4.6	1.25 H	47	50.9	12.7
2	*5745.00	120.4 PK			1.25 H	47	77.9	42.5
3	*5745.00	108.2 AV			1.25 H	47	65.7	42.5
4	#5975.20	64.3 PK	68.2	-3.9	1.25 H	47	50.5	13.8
5	11490.00	64.3 PK	74.0	-9.7	1.69 H	107	40.2	24.1
6	11490.00	50.8 AV	54.0	-3.2	1.69 H	107	26.7	24.1
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	#5615.20	63.0 PK	68.2	-5.2	3.79 V	3	50.3	12.7
2	*5745.00	118.8 PK			3.79 V	3	76.3	42.5
3	*5745.00	105.0 AV			3.79 V	3	62.5	42.5
4	#5972.00	64.4 PK	68.2	-3.8	3.79 V	3	50.7	13.7
5	11490.00	63.9 PK	74.0	-10.1	2.21 V	154	39.8	24.1
6	11490.00	50.5 AV	54.0	-3.5	2.21 V	154	26.4	24.1

Remarks:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5605.60	63.4 PK	68.2	-4.8	1.24 H	47	50.8	12.6
2	*5785.00	120.8 PK			1.25 H	47	78.2	42.6
3	*5785.00	108.7 AV			1.25 H	47	66.1	42.6
4	#6000.00	64.4 PK	68.2	-3.8	1.25 H	47	50.6	13.8
5	11570.00	64.5 PK	74.0	-9.5	2.22 H	185	40.5	24.0
6	11570.00	50.6 AV	54.0	-3.4	2.22 H	185	26.6	24.0
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5644.80	62.6 PK	68.2	-5.6	3.81 V	349	49.9	12.7
2	*5785.00	117.9 PK			3.81 V	349	75.3	42.6
3	*5785.00	103.7 AV			3.81 V	349	61.1	42.6
4	#5980.80	63.6 PK	68.2	-4.6	3.81 V	349	49.8	13.8
5	11570.00	64.1 PK	74.0	-9.9	2.69 V	157	40.1	24.0
6	11570.00	50.3 AV	54.0	-3.7	2.69 V	157	26.3	24.0

Remarks:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5613.60	63.8 PK	68.2	-4.4	1.25 H	48	51.1	12.7
2	*5825.00	120.9 PK			1.25 H	48	78.3	42.6
3	*5825.00	108.7 AV			1.25 H	48	66.1	42.6
4	#5995.20	64.7 PK	68.2	-3.5	1.25 H	48	50.9	13.8
5	11650.00	63.9 PK	74.0	-10.1	2.41 H	173	40.3	23.6
6	11650.00	50.4 AV	54.0	-3.6	2.41 H	173	26.8	23.6
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5600.00	63.4 PK	68.2	-4.8	3.81 V	355	50.8	12.6
2	*5825.00	118.0 PK			3.81 V	355	75.4	42.6
3	*5825.00	103.9 AV			3.81 V	355	61.3	42.6
4	#5941.60	64.0 PK	68.2	-4.2	3.81 V	355	50.4	13.6
5	11650.00	63.4 PK	74.0	-10.6	2.69 V	188	39.8	23.6
6	11650.00	49.7 AV	54.0	-4.3	2.69 V	188	26.1	23.6

Remarks:

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

802.11ax (HE40)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	71.1 PK	74.0	-2.9	1.07 H	53	58.5	12.6
2	5150.00	51.6 AV	54.0	-2.4	1.07 H	53	39.0	12.6
3	*5190.00	111.7 PK			1.04 H	53	70.2	41.5
4	*5190.00	99.4 AV			1.04 H	53	57.9	41.5
5	#10380.00	63.0 PK	68.2	-5.2	2.15 H	117	40.3	22.7
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	5150.00	66.5 PK	74.0	-7.5	1.80 V	360	53.9	12.6
2	5150.00	49.8 AV	54.0	-4.2	1.80 V	360	37.2	12.6
3	*5190.00	107.7 PK			1.92 V	15	66.2	41.5
4	*5190.00	95.4 AV			1.92 V	15	53.9	41.5
5	#10380.00	62.5 PK	68.2	-5.7	3.02 V	322	39.8	22.7

Remarks:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	66.0 PK	74.0	-8.0	1.07 H	63	53.4	12.6
2	5150.00	50.6 AV	54.0	-3.4	1.07 H	63	38.0	12.6
3	*5230.00	114.4 PK			1.08 H	56	73.1	41.3
4	*5230.00	103.1 AV			1.08 H	56	61.8	41.3
5	5350.00	61.7 PK	74.0	-12.3	1.00 H	57	49.3	12.4
6	5350.00	48.3 AV	54.0	-5.7	1.00 H	57	35.9	12.4
7	#10460.00	63.2 PK	68.2	-5.0	2.28 H	150	40.3	22.9
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	64.0 PK	74.0	-10.0	2.00 V	5	51.4	12.6
2	5150.00	47.7 AV	54.0	-6.3	2.00 V	5	35.1	12.6
3	*5230.00	110.4 PK			1.89 V	5	69.1	41.3
4	*5230.00	99.1 AV			1.89 V	5	57.8	41.3
5	5350.00	61.5 PK	74.0	-12.5	2.12 V	10	49.1	12.4
6	5350.00	47.5 AV	54.0	-6.5	2.12 V	10	35.1	12.4
7	#10460.00	62.8 PK	68.2	-5.4	2.63 V	244	39.9	22.9

Remarks:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5645.60	65.3 PK	68.2	-2.9	1.23 H	48	52.7	12.6
2	*5755.00	118.3 PK			1.23 H	48	75.8	42.5
3	*5755.00	105.6 AV			1.23 H	48	63.1	42.5
4	#5933.60	65.8 PK	68.2	-2.4	1.23 H	48	52.2	13.6
5	11510.00	64.1 PK	74.0	-9.9	2.69 H	189	40.2	23.9
6	11510.00	50.7 AV	54.0	-3.3	2.69 H	189	26.8	23.9
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5649.60	64.2 PK	68.2	-4.0	3.98 V	351	51.6	12.6
2	*5755.00	113.6 PK			3.98 V	351	71.1	42.5
3	*5755.00	100.6 AV			3.98 V	351	58.1	42.5
4	#5941.60	64.2 PK	68.2	-4.0	3.98 V	351	50.6	13.6
5	11510.00	63.7 PK	74.0	-10.3	2.00 V	132	39.8	23.9
6	11510.00	50.0 AV	54.0	-4.0	2.00 V	132	26.1	23.9

Remarks:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5641.60	63.0 PK	68.2	-5.2	1.23 H	52	50.3	12.7
2	*5795.00	117.1 PK			1.23 H	52	74.5	42.6
3	*5795.00	105.4 AV			1.23 H	52	62.8	42.6
4	#5972.80	64.7 PK	68.2	-3.5	1.23 H	52	51.0	13.7
5	11590.00	64.0 PK	74.0	-10.0	2.54 H	163	40.2	23.8
6	11590.00	50.7 AV	54.0	-3.3	2.54 H	163	26.9	23.8
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5607.20	63.2 PK	68.2	-5.0	3.95 V	357	50.5	12.7
2	*5795.00	114.9 PK			3.95 V	357	72.3	42.6
3	*5795.00	101.6 AV			3.95 V	357	59.0	42.6
4	#5980.00	64.3 PK	68.2	-3.9	3.95 V	357	50.5	13.8
5	11590.00	63.6 PK	74.0	-10.4	1.93 V	220	39.8	23.8
6	11590.00	49.9 AV	54.0	-4.1	1.93 V	220	26.1	23.8

Remarks:

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

802.11ax (HE80)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	69.9 PK	74.0	-4.1	1.37 H	58	57.3	12.6
2	5150.00	51.8 AV	54.0	-2.2	1.37 H	58	39.2	12.6
3	*5210.00	108.7 PK			1.26 H	53	67.3	41.4
4	*5210.00	95.9 AV			1.26 H	53	54.5	41.4
5	5350.00	61.2 PK	74.0	-12.8	1.24 H	46	48.8	12.4
6	5350.00	47.8 AV	54.0	-6.2	1.24 H	46	35.4	12.4
7	#10420.00	63.4 PK	68.2	-4.8	2.54 H	187	40.6	22.8
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	65.8 PK	74.0	-8.2	2.00 V	306	53.2	12.6
2	5150.00	49.0 AV	54.0	-5.0	2.00 V	306	36.4	12.6
3	*5210.00	104.7 PK			1.25 V	321	63.3	41.4
4	*5210.00	91.9 AV			1.25 V	321	50.5	41.4
5	5350.00	60.3 PK	74.0	-13.7	1.25 V	302	47.9	12.4
6	5350.00	46.7 AV	54.0	-7.3	1.25 V	302	34.3	12.4
7	#10420.00	62.6 PK	68.2	-5.6	2.52 V	111	39.8	22.8

Remarks:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5626.40	64.3 PK	68.2	-3.9	1.04 H	47	51.6	12.7
2	*5775.00	111.3 PK			1.04 H	47	68.7	42.6
3	*5775.00	98.3 AV			1.04 H	47	55.7	42.6
4	#5930.40	65.0 PK	68.2	-3.2	1.04 H	47	51.4	13.6
5	11550.00	64.0 PK	74.0	-10.0	2.96 H	187	40.1	23.9
6	11550.00	50.4 AV	54.0	-3.6	2.96 H	187	26.5	23.9
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5647.20	64.3 PK	68.2	-3.9	3.94 V	357	51.7	12.6
2	*5775.00	108.5 PK			3.94 V	357	65.9	42.6
3	*5775.00	94.6 AV			3.94 V	357	52.0	42.6
4	#5995.20	64.5 PK	68.2	-3.7	3.94 V	357	50.7	13.8
5	11550.00	63.6 PK	74.0	-10.4	2.53 V	195	39.7	23.9
6	11550.00	50.0 AV	54.0	-4.0	2.53 V	195	26.1	23.9

Remarks:

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

Test Mode E (Internal antenna + Eth8 Radio)

802.11a

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5637.60	63.7 PK	68.2	-4.5	1.11 H	325	51.0	12.7
2	*5745.00	126.1 PK			1.11 H	325	83.6	42.5
3	*5745.00	116.2 AV			1.11 H	325	73.7	42.5
4	#5945.60	64.9 PK	68.2	-3.3	1.11 H	325	51.3	13.6
5	11490.00	64.5 PK	74.0	-9.5	2.52 H	122	40.4	24.1
6	11490.00	51.6 AV	54.0	-2.4	2.52 H	122	27.5	24.1
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	#5619.20	63.4 PK	68.2	-4.8	1.00 V	343	50.7	12.7
2	*5745.00	121.1 PK			1.15 V	320	78.6	42.5
3	*5745.00	111.2 AV			1.15 V	320	68.7	42.5
4	#5928.00	63.3 PK	68.2	-4.9	1.00 V	343	49.7	13.6
5	11490.00	64.1 PK	74.0	-9.9	2.33 V	299	40.0	24.1
6	11490.00	51.0 AV	54.0	-3.0	2.33 V	299	26.9	24.1

Remarks:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5629.60	64.3 PK	68.2	-3.9	1.11 H	326	51.6	12.7
2	*5785.00	125.0 PK			1.11 H	326	82.4	42.6
3	*5785.00	115.3 AV			1.11 H	326	72.7	42.6
4	#5960.00	64.6 PK	68.2	-3.6	1.11 H	326	50.9	13.7
5	11570.00	64.2 PK	74.0	-9.8	2.52 H	142	40.2	24.0
6	11570.00	51.1 AV	54.0	-2.9	2.52 H	142	27.1	24.0
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	#5636.80	63.9 PK	68.2	-4.3	1.12 V	344	51.2	12.7
2	*5785.00	121.0 PK			1.12 V	344	78.4	42.6
3	*5785.00	110.3 AV			1.12 V	344	67.7	42.6
4	#5964.00	64.1 PK	68.2	-4.1	1.12 V	344	50.4	13.7
5	11570.00	63.5 PK	74.0	-10.5	1.00 V	218	39.5	24.0
6	11570.00	50.8 AV	54.0	-3.2	1.00 V	218	26.8	24.0

Remarks:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5600.80	64.3 PK	68.2	-3.9	1.11 H	328	51.7	12.6
2	*5825.00	123.8 PK			1.11 H	328	81.2	42.6
3	*5825.00	114.0 AV			1.11 H	328	71.4	42.6
4	#5924.00	64.6 PK	68.9	-4.3	1.11 H	328	51.0	13.6
5	11650.00	63.7 PK	74.0	-10.3	2.52 H	244	40.1	23.6
6	11650.00	50.6 AV	54.0	-3.4	2.52 H	244	27.0	23.6
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5625.60	64.0 PK	68.2	-4.2	1.01 V	300	51.3	12.7
2	*5825.00	118.8 PK			1.01 V	300	76.2	42.6
3	*5825.00	109.0 AV			1.01 V	300	66.4	42.6
4	#5988.80	64.7 PK	68.2	-3.5	1.01 V	300	50.9	13.8
5	11650.00	63.4 PK	74.0	-10.6	2.17 V	141	39.8	23.6
6	11650.00	49.3 AV	54.0	-4.7	2.17 V	141	25.7	23.6

Remarks:

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

802.11ax (HE20)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5626.40	63.9 PK	68.2	-4.3	1.31 H	314	51.2	12.7
2	*5745.00	126.2 PK			1.31 H	314	83.7	42.5
3	*5745.00	114.8 AV			1.31 H	314	72.3	42.5
4	#5933.60	64.2 PK	68.2	-4.0	1.31 H	314	50.6	13.6
5	11490.00	64.3 PK	74.0	-9.7	2.52 H	141	40.2	24.1
6	11490.00	51.2 AV	54.0	-2.8	2.52 H	141	27.1	24.1
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	#5643.20	62.8 PK	68.2	-5.4	1.00 V	350	50.1	12.7
2	*5745.00	121.2 PK			1.00 V	350	78.7	42.5
3	*5745.00	109.8 AV			1.00 V	350	67.3	42.5
4	#5960.80	63.2 PK	68.2	-5.0	1.00 V	350	49.5	13.7
5	11490.00	64.2 PK	74.0	-9.8	1.88 V	52	40.1	24.1
6	11490.00	50.9 AV	54.0	-3.1	1.88 V	52	26.8	24.1

Remarks:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5605.60	63.8 PK	68.2	-4.4	1.33 H	315	51.2	12.6
2	*5785.00	125.9 PK			1.33 H	315	83.3	42.6
3	*5785.00	114.4 AV			1.33 H	315	71.8	42.6
4	#5940.80	64.0 PK	68.2	-4.2	1.33 H	315	50.4	13.6
5	11570.00	64.3 PK	74.0	-9.7	2.52 H	141	40.3	24.0
6	11570.00	51.1 AV	54.0	-2.9	2.52 H	141	27.1	24.0
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	#5634.40	63.2 PK	68.2	-5.0	1.10 V	355	50.5	12.7
2	*5785.00	120.9 PK			1.10 V	355	78.3	42.6
3	*5785.00	109.4 AV			1.10 V	355	66.8	42.6
4	#5953.60	63.1 PK	68.2	-5.1	1.10 V	355	49.5	13.6
5	11570.00	63.6 PK	74.0	-10.4	2.62 V	177	39.6	24.0
6	11570.00	50.5 AV	54.0	-3.5	2.62 V	177	26.5	24.0

Remarks:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5642.40	62.9 PK	68.2	-5.3	1.27 H	317	50.2	12.7
2	*5825.00	126.2 PK			1.27 H	317	83.6	42.6
3	*5825.00	113.5 AV			1.27 H	317	70.9	42.6
4	#5986.40	63.8 PK	68.2	-4.4	1.27 H	317	50.0	13.8
5	11650.00	63.7 PK	74.0	-10.3	2.52 H	41	40.1	23.6
6	11650.00	50.4 AV	54.0	-3.6	2.52 H	41	26.8	23.6
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5614.40	63.4 PK	68.2	-4.8	1.29 V	351	50.7	12.7
2	*5825.00	121.2 PK			1.29 V	351	78.6	42.6
3	*5825.00	108.5 AV			1.29 V	351	65.9	42.6
4	#5992.80	62.7 PK	68.2	-5.5	1.29 V	351	48.9	13.8
5	11650.00	63.3 PK	74.0	-10.7	2.22 V	111	39.7	23.6
6	11650.00	49.9 AV	54.0	-4.1	2.22 V	111	26.3	23.6

Remarks:

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

802.11ax (HE40)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5640.80	68.0 PK	68.2	-0.2	1.27 H	315	55.3	12.7
2	*5755.00	121.3 PK			1.27 H	315	78.8	42.5
3	*5755.00	109.6 AV			1.27 H	315	67.1	42.5
4	#5998.40	63.9 PK	68.2	-4.3	1.27 H	315	50.1	13.8
5	11510.00	64.1 PK	74.0	-9.9	2.52 H	211	40.2	23.9
6	11510.00	50.8 AV	54.0	-3.2	2.52 H	211	26.9	23.9
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5606.40	63.7 PK	68.2	-4.5	1.02 V	355	51.1	12.6
2	*5755.00	116.3 PK			1.02 V	355	73.8	42.5
3	*5755.00	104.6 AV			1.02 V	355	62.1	42.5
4	#5985.60	63.6 PK	68.2	-4.6	1.02 V	355	49.8	13.8
5	11510.00	63.7 PK	74.0	-10.3	2.52 V	10	39.8	23.9
6	11510.00	50.4 AV	54.0	-3.6	2.52 V	10	26.5	23.9

Remarks:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5647.20	65.4 PK	68.2	-2.8	1.27 H	314	52.8	12.6
2	*5795.00	122.2 PK			1.27 H	314	79.6	42.6
3	*5795.00	110.5 AV			1.27 H	314	67.9	42.6
4	#5924.80	66.4 PK	68.3	-1.9	1.27 H	314	52.8	13.6
5	11590.00	63.9 PK	74.0	-10.1	2.41 H	214	40.1	23.8
6	11590.00	50.6 AV	54.0	-3.4	2.41 H	214	26.8	23.8
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5624.00	63.4 PK	68.2	-4.8	1.05 V	350	50.7	12.7
2	*5795.00	117.2 PK			1.05 V	350	74.6	42.6
3	*5795.00	105.5 AV			1.05 V	350	62.9	42.6
4	#5927.20	63.8 PK	68.2	-4.4	1.05 V	350	50.2	13.6
5	11590.00	63.4 PK	74.0	-10.6	2.33 V	320	39.6	23.8
6	11590.00	50.3 AV	54.0	-3.7	2.33 V	320	26.5	23.8

Remarks:

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

802.11ax (HE80)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5642.40	66.4 PK	68.2	-1.8	1.37 H	315	53.7	12.7
2	*5775.00	115.6 PK			1.37 H	315	73.0	42.6
3	*5775.00	102.7 AV			1.37 H	315	60.1	42.6
4	#5924.00	65.3 PK	68.9	-3.6	1.37 H	315	51.7	13.6
5	11550.00	64.2 PK	74.0	-9.8	1.59 H	252	40.3	23.9
6	11550.00	50.9 AV	54.0	-3.1	1.59 H	252	27.0	23.9
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5624.00	63.4 PK	68.2	-4.8	1.00 V	355	50.7	12.7
2	*5775.00	110.2 PK			1.00 V	355	67.6	42.6
3	*5775.00	98.5 AV			1.00 V	355	55.9	42.6
4	#5926.40	64.0 PK	68.2	-4.2	1.00 V	355	50.4	13.6
5	11550.00	63.4 PK	74.0	-10.6	2.88 V	300	39.5	23.9
6	11550.00	50.4 AV	54.0	-3.6	2.88 V	300	26.5	23.9

Remarks:

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

Test Mode G (External antenna + Eth6 Radio)

802.11a

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	71.3 PK	74.0	-2.7	1.18 H	65	58.7	12.6
2	5150.00	53.0 AV	54.0	-1.0	1.18 H	65	40.4	12.6
3	*5180.00	116.1 PK			1.17 H	55	74.6	41.5
4	*5180.00	106.7 AV			1.17 H	55	65.2	41.5
5	#10360.00	63.3 PK	68.2	-4.9	1.22 H	64	40.8	22.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	68.3 PK	74.0	-5.7	3.25 V	24	55.7	12.6
2	5150.00	49.5 AV	54.0	-4.5	3.25 V	24	36.9	12.6
3	*5180.00	112.1 PK			3.90 V	40	70.6	41.5
4	*5180.00	102.7 AV			3.90 V	40	61.2	41.5
5	#10360.00	62.6 PK	68.2	-5.6	2.59 V	245	40.1	22.5

Remarks:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	71.1 PK	74.0	-2.9	1.21 H	60	58.5	12.6
2	5150.00	52.7 AV	54.0	-1.3	1.21 H	60	40.1	12.6
3	*5200.00	119.1 PK			1.18 H	56	77.6	41.5
4	*5200.00	110.0 AV			1.18 H	56	68.5	41.5
5	#10400.00	63.9 PK	68.2	-4.3	2.11 H	128	41.0	22.9
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	68.1 PK	74.0	-5.9	3.85 V	36	55.5	12.6
2	5150.00	49.4 AV	54.0	-4.6	3.85 V	36	36.8	12.6
3	*5200.00	115.0 PK			3.95 V	26	73.5	41.5
4	*5200.00	105.8 AV			3.95 V	26	64.3	41.5
5	#10400.00	62.9 PK	68.2	-5.3	2.62 V	232	40.0	22.9

Remarks:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	120.7 PK			1.21 H	58	79.5	41.2
2	*5240.00	110.5 AV			1.21 H	58	69.3	41.2
3	5350.00	61.3 PK	74.0	-12.7	1.19 H	60	48.9	12.4
4	5350.00	48.5 AV	54.0	-5.5	1.19 H	60	36.1	12.4
5	#10480.00	63.7 PK	68.2	-4.5	2.12 H	211	40.9	22.8
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	116.6 PK			3.89 V	36	75.4	41.2
2	*5240.00	106.3 AV			3.89 V	36	65.1	41.2
3	5350.00	60.3 PK	74.0	-13.7	3.88 V	40	47.9	12.4
4	5350.00	47.5 AV	54.0	-6.5	3.88 V	40	35.1	12.4
5	#10480.00	63.0 PK	68.2	-5.2	2.62 V	200	40.2	22.8

Remarks:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5627.20	63.5 PK	68.2	-4.7	1.00 H	57	50.8	12.7
2	*5745.00	120.0 PK			1.00 H	57	77.5	42.5
3	*5745.00	110.5 AV			1.00 H	57	68.0	42.5
4	#5939.20	63.8 PK	68.2	-4.4	1.00 H	57	50.2	13.6
5	11490.00	64.2 PK	74.0	-9.8	1.00 H	220	40.1	24.1
6	11490.00	52.8 AV	54.0	-1.2	1.00 H	220	28.7	24.1
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	#5638.40	62.7 PK	68.2	-5.5	3.89 V	20	50.0	12.7
2	*5745.00	118.3 PK			3.89 V	20	75.8	42.5
3	*5745.00	108.2 AV			3.89 V	20	65.7	42.5
4	#5990.40	62.7 PK	68.2	-5.5	3.89 V	20	48.9	13.8
5	11490.00	62.7 PK	74.0	-11.3	1.99 V	273	38.6	24.1
6	11490.00	51.6 AV	54.0	-2.4	1.99 V	273	27.5	24.1

Remarks:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5629.60	63.4 PK	68.2	-4.8	1.00 H	58	50.7	12.7
2	*5785.00	119.7 PK			1.00 H	58	77.1	42.6
3	*5785.00	110.3 AV			1.00 H	58	67.7	42.6
4	#5970.40	64.4 PK	68.2	-3.8	1.00 H	58	50.7	13.7
5	11570.00	64.8 PK	74.0	-9.2	1.00 H	268	40.8	24.0
6	11570.00	52.8 AV	54.0	-1.2	1.00 H	268	28.8	24.0
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	#5616.00	63.0 PK	68.2	-5.2	3.87 V	21	50.3	12.7
2	*5785.00	119.1 PK			3.87 V	21	76.5	42.6
3	*5785.00	108.9 AV			3.87 V	21	66.3	42.6
4	#5996.00	63.6 PK	68.2	-4.6	3.87 V	21	49.8	13.8
5	11570.00	63.1 PK	74.0	-10.9	1.63 V	222	39.1	24.0
6	11570.00	52.1 AV	54.0	-1.9	1.63 V	222	28.1	24.0

Remarks:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5626.40	63.4 PK	68.2	-4.8	1.00 H	56	50.7	12.7
2	*5825.00	120.2 PK			1.00 H	56	77.6	42.6
3	*5825.00	110.6 AV			1.00 H	56	68.0	42.6
4	#5954.40	63.2 PK	68.2	-5.0	1.00 H	56	49.6	13.6
5	11650.00	64.2 PK	74.0	-9.8	1.00 H	241	40.6	23.6
6	11650.00	52.8 AV	54.0	-1.2	1.00 H	241	29.2	23.6
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5611.20	63.0 PK	68.2	-5.2	3.88 V	21	50.3	12.7
2	*5825.00	117.1 PK			3.88 V	21	74.5	42.6
3	*5825.00	107.7 AV			3.88 V	21	65.1	42.6
4	#5928.80	63.8 PK	68.2	-4.4	3.88 V	21	50.2	13.6
5	11650.00	62.5 PK	74.0	-11.5	1.90 V	216	38.9	23.6
6	11650.00	51.6 AV	54.0	-2.4	1.90 V	216	28.0	23.6

Remarks:

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

802.11ax (HE20)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	70.9 PK	74.0	-3.1	1.25 H	68	58.3	12.6
2	5150.00	52.8 AV	54.0	-1.2	1.25 H	68	40.2	12.6
3	*5180.00	116.1 PK			1.26 H	56	74.6	41.5
4	*5180.00	106.0 AV			1.26 H	56	64.5	41.5
5	#10360.00	62.8 PK	68.2	-5.4	2.62 H	222	40.3	22.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	67.7 PK	74.0	-6.3	3.91 V	40	55.1	12.6
2	5150.00	49.4 AV	54.0	-4.6	3.91 V	40	36.8	12.6
3	*5180.00	112.1 PK			3.96 V	32	70.6	41.5
4	*5180.00	102.0 AV			3.96 V	32	60.5	41.5
5	#10360.00	62.5 PK	68.2	-5.7	2.26 V	232	40.0	22.5

Remarks:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	69.0 PK	74.0	-5.0	1.25 H	68	56.4	12.6
2	5150.00	52.7 AV	54.0	-1.3	1.25 H	68	40.1	12.6
3	*5200.00	119.2 PK			1.28 H	60	77.7	41.5
4	*5200.00	109.5 AV			1.28 H	60	68.0	41.5
5	#10400.00	63.5 PK	68.2	-4.7	2.63 H	299	40.6	22.9

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	66.0 PK	74.0	-8.0	3.89 V	40	53.4	12.6
2	5150.00	49.3 AV	54.0	-4.7	3.89 V	40	36.7	12.6
3	*5200.00	115.2 PK			3.89 V	38	73.7	41.5
4	*5200.00	105.5 AV			3.89 V	38	64.0	41.5
5	#10400.00	62.8 PK	68.2	-5.4	2.66 V	252	39.9	22.9

Remarks:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	121.5 PK			1.20 H	58	80.3	41.2
2	*5240.00	111.5 AV			1.20 H	58	70.3	41.2
3	5350.00	60.8 PK	74.0	-13.2	1.22 H	61	48.4	12.4
4	5350.00	48.3 AV	54.0	-5.7	1.22 H	61	35.9	12.4
5	#10400.00	63.6 PK	68.2	-4.6	2.62 H	252	40.7	22.9
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	118.5 PK			3.88 V	49	77.3	41.2
2	*5240.00	108.5 AV			3.88 V	49	67.3	41.2
3	5350.00	60.3 PK	74.0	-13.7	3.53 V	28	47.9	12.4
4	5350.00	46.9 AV	54.0	-7.1	3.53 V	28	34.5	12.4
5	#10400.00	63.1 PK	68.2	-5.1	2.35 V	296	40.2	22.9

Remarks:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5635.20	64.0 PK	68.2	-4.2	1.00 H	336	51.3	12.7
2	*5745.00	117.4 PK			1.00 H	336	74.9	42.5
3	*5745.00	107.8 AV			1.00 H	336	65.3	42.5
4	#5977.60	64.3 PK	68.2	-3.9	1.00 H	336	50.5	13.8
5	11490.00	64.2 PK	74.0	-9.8	1.02 H	230	40.1	24.1
6	11490.00	52.7 AV	54.0	-1.3	1.02 H	230	28.6	24.1
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	#5612.00	63.7 PK	68.2	-4.5	3.89 V	20	51.0	12.7
2	*5745.00	118.0 PK			3.89 V	20	75.5	42.5
3	*5745.00	107.6 AV			3.89 V	20	65.1	42.5
4	#5926.40	64.0 PK	68.2	-4.2	3.89 V	20	50.4	13.6
5	11490.00	62.7 PK	74.0	-11.3	2.95 V	117	38.6	24.1
6	11490.00	51.1 AV	54.0	-2.9	2.95 V	117	27.0	24.1

Remarks:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5648.00	63.3 PK	68.2	-4.9	1.00 H	337	50.7	12.6
2	*5785.00	119.3 PK			1.00 H	337	76.7	42.6
3	*5785.00	110.2 AV			1.00 H	337	67.6	42.6
4	#5929.60	64.3 PK	68.2	-3.9	1.00 H	337	50.7	13.6
5	11570.00	64.3 PK	74.0	-9.7	1.00 H	267	40.3	24.0
6	11570.00	52.6 AV	54.0	-1.4	1.00 H	267	28.6	24.0
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	#5606.40	62.9 PK	68.2	-5.3	3.88 V	19	50.3	12.6
2	*5785.00	118.7 PK			3.88 V	19	76.1	42.6
3	*5785.00	108.6 AV			3.88 V	19	66.0	42.6
4	#5961.60	64.7 PK	68.2	-3.5	3.88 V	19	51.0	13.7
5	11570.00	62.9 PK	74.0	-11.1	1.64 V	250	38.9	24.0
6	11570.00	51.3 AV	54.0	-2.7	1.64 V	250	27.3	24.0

Remarks:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5635.20	63.2 PK	68.2	-5.0	1.00 H	334	50.5	12.7
2	*5825.00	119.2 PK			1.00 H	334	76.6	42.6
3	*5825.00	108.7 AV			1.00 H	334	66.1	42.6
4	#5978.40	63.8 PK	68.2	-4.4	1.00 H	334	50.0	13.8
5	11650.00	64.1 PK	74.0	-9.9	1.09 H	217	40.5	23.6
6	11650.00	52.8 AV	54.0	-1.2	1.09 H	217	29.2	23.6
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5629.60	62.6 PK	68.2	-5.6	3.89 V	22	49.9	12.7
2	*5825.00	117.5 PK			3.89 V	22	74.9	42.6
3	*5825.00	107.2 AV			3.89 V	22	64.6	42.6
4	#5933.60	64.3 PK	68.2	-3.9	3.89 V	22	50.7	13.6
5	11650.00	62.5 PK	74.0	-11.5	2.61 V	174	38.9	23.6
6	11650.00	52.3 AV	54.0	-1.7	2.61 V	174	28.7	23.6

Remarks:

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

802.11ax (HE40)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	71.3 PK	74.0	-2.7	1.17 H	72	58.7	12.6
2	5150.00	52.5 AV	54.0	-1.5	1.17 H	72	39.9	12.6
3	*5190.00	110.9 PK			1.17 H	55	69.4	41.5
4	*5190.00	100.7 AV			1.17 H	55	59.2	41.5
5	#10380.00	63.9 PK	68.2	-4.3	1.28 H	245	41.2	22.7
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	5150.00	68.3 PK	74.0	-5.7	3.99 V	36	55.7	12.6
2	5150.00	49.5 AV	54.0	-4.5	3.99 V	36	36.9	12.6
3	*5190.00	106.9 PK			3.89 V	32	65.4	41.5
4	*5190.00	96.7 AV			3.89 V	32	55.2	41.5
5	#10380.00	63.5 PK	68.2	-4.7	2.55 V	216	40.8	22.7

Remarks:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	68.7 PK	74.0	-5.3	1.16 H	53	56.1	12.6
2	5150.00	52.8 AV	54.0	-1.2	1.16 H	53	40.2	12.6
3	*5230.00	116.1 PK			1.19 H	66	74.8	41.3
4	*5230.00	105.4 AV			1.19 H	66	64.1	41.3
5	5350.00	60.6 PK	74.0	-13.4	1.35 H	66	48.2	12.4
6	5350.00	47.9 AV	54.0	-6.1	1.35 H	66	35.5	12.4
7	#10460.00	63.1 PK	68.2	-5.1	1.85 H	263	40.2	22.9
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	65.7 PK	74.0	-8.3	3.85 V	42	53.1	12.6
2	5150.00	49.7 AV	54.0	-4.3	3.85 V	42	37.1	12.6
3	*5230.00	112.1 PK			3.86 V	44	70.8	41.3
4	*5230.00	101.4 AV			3.86 V	44	60.1	41.3
5	5350.00	60.0 PK	74.0	-14.0	3.89 V	22	47.6	12.4
6	5350.00	47.6 AV	54.0	-6.4	3.89 V	22	35.2	12.4
7	#10460.00	62.5 PK	68.2	-5.7	2.65 V	244	39.6	22.9

Remarks:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5646.40	66.9 PK	68.2	-1.3	1.00 H	336	54.3	12.6
2	*5755.00	114.7 PK			1.00 H	336	72.2	42.5
3	*5755.00	104.8 AV			1.00 H	336	62.3	42.5
4	#5932.80	64.8 PK	68.2	-3.4	1.00 H	336	51.2	13.6
5	11510.00	64.0 PK	74.0	-10.0	1.70 H	225	40.1	23.9
6	11510.00	52.8 AV	54.0	-1.2	1.70 H	225	28.9	23.9
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5642.40	65.3 PK	68.2	-2.9	3.85 V	24	52.6	12.7
2	*5755.00	114.9 PK			3.85 V	24	72.4	42.5
3	*5755.00	104.5 AV			3.85 V	24	62.0	42.5
4	#5973.60	63.5 PK	68.2	-4.7	3.85 V	24	49.8	13.7
5	11510.00	63.0 PK	74.0	-11.0	2.21 V	140	39.1	23.9
6	11510.00	52.4 AV	54.0	-1.6	2.21 V	140	28.5	23.9

Remarks:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5649.60	63.9 PK	68.2	-4.3	1.00 H	339	51.3	12.6
2	*5795.00	117.0 PK			1.00 H	339	74.4	42.6
3	*5795.00	106.7 AV			1.00 H	339	64.1	42.6
4	#5930.40	66.4 PK	68.2	-1.8	1.00 H	339	52.8	13.6
5	11590.00	64.0 PK	74.0	-10.0	1.32 H	228	40.2	23.8
6	11590.00	52.7 AV	54.0	-1.3	1.32 H	228	28.9	23.8
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5621.60	63.8 PK	68.2	-4.4	3.90 V	23	51.1	12.7
2	*5795.00	115.2 PK			3.90 V	23	72.6	42.6
3	*5795.00	104.6 AV			3.90 V	23	62.0	42.6
4	#5928.00	64.4 PK	68.2	-3.8	3.90 V	23	50.8	13.6
5	11590.00	62.5 PK	74.0	-11.5	2.69 V	220	38.7	23.8
6	11590.00	51.8 AV	54.0	-2.2	2.69 V	220	28.0	23.8

Remarks:

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

802.11ax (HE80)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	70.9 PK	74.0	-3.1	1.24 H	66	58.3	12.6
2	5150.00	52.5 AV	54.0	-1.5	1.24 H	66	39.9	12.6
3	*5210.00	107.1 PK			1.14 H	61	65.7	41.4
4	*5210.00	97.4 AV			1.14 H	61	56.0	41.4
5	5350.00	60.4 PK	74.0	-13.6	1.19 H	69	48.0	12.4
6	5350.00	47.9 AV	54.0	-6.1	1.19 H	69	35.5	12.4
7	#10420.00	63.1 PK	68.2	-5.1	2.65 H	214	40.3	22.8
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	67.8 PK	74.0	-6.2	3.99 V	30	55.2	12.6
2	5150.00	49.4 AV	54.0	-4.6	3.99 V	30	36.8	12.6
3	*5210.00	103.5 PK			3.96 V	32	62.1	41.4
4	*5210.00	93.3 AV			3.96 V	32	51.9	41.4
5	5350.00	59.6 PK	74.0	-14.4	3.88 V	36	47.2	12.4
6	5350.00	47.0 AV	54.0	-7.0	3.88 V	36	34.6	12.4
7	#10420.00	62.6 PK	68.2	-5.6	2.66 V	214	39.8	22.8

Remarks:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5645.60	64.7 PK	68.2	-3.5	1.00 H	341	52.1	12.6
2	*5775.00	110.5 PK			1.00 H	341	67.9	42.6
3	*5775.00	99.9 AV			1.00 H	341	57.3	42.6
4	#5927.20	67.0 PK	68.2	-1.2	1.00 H	341	53.4	13.6
5	11550.00	63.6 PK	74.0	-10.4	1.66 H	245	39.7	23.9
6	11550.00	51.0 AV	54.0	-3.0	1.66 H	245	27.1	23.9
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5644.00	64.7 PK	68.2	-3.5	3.89 V	24	52.0	12.7
2	*5775.00	109.3 PK			3.89 V	24	66.7	42.6
3	*5775.00	99.2 AV			3.89 V	24	56.6	42.6
4	#5928.80	65.1 PK	68.2	-3.1	3.89 V	24	51.5	13.6
5	11550.00	62.8 PK	74.0	-11.2	3.01 V	114	38.9	23.9
6	11550.00	51.1 AV	54.0	-2.9	3.01 V	114	27.2	23.9

Remarks:

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

Test Mode I (External antenna + Eth7 Radio)

802.11a

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	70.5 PK	74.0	-3.5	1.00 H	59	57.9	12.6
2	5150.00	53.0 AV	54.0	-1.0	1.00 H	59	40.4	12.6
3	*5180.00	114.3 PK			1.00 H	57	72.8	41.5
4	*5180.00	105.0 AV			1.00 H	57	63.5	41.5
5	#10360.00	62.5 PK	68.2	-5.7	2.14 H	163	40.0	22.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	62.8 PK	74.0	-11.2	1.02 V	329	50.2	12.6
2	5150.00	47.9 AV	54.0	-6.1	1.02 V	329	35.3	12.6
3	*5180.00	109.3 PK			1.00 V	333	67.8	41.5
4	*5180.00	100.0 AV			1.00 V	333	58.5	41.5
5	#10360.00	62.3 PK	68.2	-5.9	2.66 V	252	39.8	22.5

Remarks:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	70.1 PK	74.0	-3.9	1.00 H	59	57.5	12.6
2	5150.00	53.0 AV	54.0	-1.0	1.00 H	59	40.4	12.6
3	*5200.00	118.0 PK			1.00 H	58	76.5	41.5
4	*5200.00	108.1 AV			1.00 H	58	66.6	41.5
5	#10400.00	62.7 PK	68.2	-5.5	1.93 H	251	39.8	22.9
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	62.7 PK	74.0	-11.3	1.02 V	336	50.1	12.6
2	5150.00	48.2 AV	54.0	-5.8	1.02 V	336	35.6	12.6
3	*5200.00	112.8 PK			1.02 V	323	71.3	41.5
4	*5200.00	102.9 AV			1.02 V	323	61.4	41.5
5	#10400.00	62.4 PK	68.2	-5.8	2.65 V	20	39.5	22.9

Remarks:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	119.0 PK			1.00 H	64	77.8	41.2
2	*5240.00	108.9 AV			1.00 H	64	67.7	41.2
3	5350.00	61.7 PK	74.0	-12.3	1.09 H	84	49.3	12.4
4	5350.00	48.2 AV	54.0	-5.8	1.09 H	84	35.8	12.4
5	#10480.00	63.4 PK	68.2	-4.8	1.63 H	276	40.6	22.8
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	114.0 PK			1.00 V	333	72.8	41.2
2	*5240.00	103.9 AV			1.00 V	333	62.7	41.2
3	5350.00	61.3 PK	74.0	-12.7	1.05 V	330	48.9	12.4
4	5350.00	47.6 AV	54.0	-6.4	1.05 V	330	35.2	12.4
5	#10480.00	62.9 PK	68.2	-5.3	2.52 V	111	40.1	22.8

Remarks:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5600.00	64.1 PK	68.2	-4.1	1.11 H	37	51.5	12.6
2	*5745.00	118.3 PK			1.11 H	37	75.8	42.5
3	*5745.00	108.4 AV			1.11 H	37	65.9	42.5
4	#5942.40	64.2 PK	68.2	-4.0	1.11 H	37	50.6	13.6
5	11490.00	64.6 PK	74.0	-9.4	2.22 H	285	40.5	24.1
6	11490.00	50.9 AV	54.0	-3.1	2.22 H	285	26.8	24.1
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	#5628.80	63.1 PK	68.2	-5.1	2.45 V	27	50.4	12.7
2	*5745.00	115.1 PK			2.45 V	27	72.6	42.5
3	*5745.00	105.0 AV			2.45 V	27	62.5	42.5
4	#5992.00	64.3 PK	68.2	-3.9	2.45 V	27	50.5	13.8
5	11490.00	64.2 PK	74.0	-9.8	2.69 V	210	40.1	24.1
6	11490.00	50.6 AV	54.0	-3.4	2.69 V	210	26.5	24.1

Remarks:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5605.60	63.2 PK	68.2	-5.0	1.21 H	40	50.6	12.6
2	*5785.00	118.7 PK			1.21 H	40	76.1	42.6
3	*5785.00	108.8 AV			1.21 H	40	66.2	42.6
4	#5985.60	63.9 PK	68.2	-4.3	1.21 H	40	50.1	13.8
5	11570.00	64.5 PK	74.0	-9.5	2.55 H	59	40.5	24.0
6	11570.00	50.7 AV	54.0	-3.3	2.55 H	59	26.7	24.0
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	#5600.00	64.2 PK	68.2	-4.0	2.40 V	33	51.6	12.6
2	*5785.00	114.3 PK			2.40 V	33	71.7	42.6
3	*5785.00	104.8 AV			2.40 V	33	62.2	42.6
4	#5997.60	64.6 PK	68.2	-3.6	2.40 V	33	50.8	13.8
5	11570.00	64.0 PK	74.0	-10.0	1.52 V	124	40.0	24.0
6	11570.00	50.5 AV	54.0	-3.5	1.52 V	124	26.5	24.0

Remarks:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5648.80	63.1 PK	68.2	-5.1	1.21 H	42	50.5	12.6
2	*5825.00	118.5 PK			1.21 H	42	75.9	42.6
3	*5825.00	108.6 AV			1.21 H	42	66.0	42.6
4	#5952.80	63.7 PK	68.2	-4.5	1.21 H	42	50.1	13.6
5	11650.00	63.8 PK	74.0	-10.2	2.69 H	262	40.2	23.6
6	11650.00	50.5 AV	54.0	-3.5	2.69 H	262	26.9	23.6

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5647.20	64.1 PK	68.2	-4.1	2.44 V	25	51.5	12.6
2	*5825.00	114.5 PK			2.44 V	25	71.9	42.6
3	*5825.00	104.6 AV			2.44 V	25	62.0	42.6
4	#5978.40	64.2 PK	68.2	-4.0	2.44 V	25	50.4	13.8
5	11650.00	63.3 PK	74.0	-10.7	2.30 V	215	39.7	23.6
6	11650.00	50.1 AV	54.0	-3.9	2.30 V	215	26.5	23.6

Remarks:

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

802.11ax (HE20)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	69.8 PK	74.0	-4.2	1.00 H	57	57.2	12.6
2	5150.00	53.0 AV	54.0	-1.0	1.00 H	57	40.4	12.6
3	*5180.00	114.6 PK			1.00 H	62	73.1	41.5
4	*5180.00	104.4 AV			1.00 H	62	62.9	41.5
5	#10360.00	63.0 PK	68.2	-5.2	1.99 H	142	40.5	22.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	62.8 PK	74.0	-11.2	1.08 V	300	50.2	12.6
2	5150.00	48.2 AV	54.0	-5.8	1.08 V	300	35.6	12.6
3	*5180.00	109.6 PK			1.02 V	326	68.1	41.5
4	*5180.00	99.4 AV			1.02 V	326	57.9	41.5
5	#10360.00	62.6 PK	68.2	-5.6	2.62 V	32	40.1	22.5

Remarks:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	69.9 PK	74.0	-4.1	1.00 H	53	57.3	12.6
2	5150.00	52.9 AV	54.0	-1.1	1.00 H	53	40.3	12.6
3	*5200.00	117.2 PK			1.00 H	55	75.7	41.5
4	*5200.00	107.3 AV			1.00 H	55	65.8	41.5
5	#10400.00	63.2 PK	68.2	-5.0	2.13 H	220	40.3	22.9
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	63.0 PK	74.0	-11.0	1.05 V	322	50.4	12.6
2	5150.00	47.8 AV	54.0	-6.2	1.05 V	322	35.2	12.6
3	*5200.00	112.0 PK			1.03 V	329	70.5	41.5
4	*5200.00	102.1 AV			1.03 V	329	60.6	41.5
5	#10400.00	62.7 PK	68.2	-5.5	2.62 V	222	39.8	22.9

Remarks:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	117.8 PK			1.00 H	55	76.6	41.2
2	*5240.00	108.2 AV			1.00 H	55	67.0	41.2
3	5350.00	60.9 PK	74.0	-13.1	1.00 H	63	48.5	12.4
4	5350.00	49.1 AV	54.0	-4.9	1.00 H	63	36.7	12.4
5	#10480.00	63.4 PK	68.2	-4.8	2.03 H	175	40.6	22.8
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	112.8 PK			1.04 V	330	71.6	41.2
2	*5240.00	103.2 AV			1.04 V	330	62.0	41.2
3	5350.00	60.6 PK	74.0	-13.4	1.02 V	323	48.2	12.4
4	5350.00	47.6 AV	54.0	-6.4	1.02 V	323	35.2	12.4
5	#10480.00	63.0 PK	68.2	-5.2	2.09 V	66	40.2	22.8

Remarks:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5628.80	64.6 PK	68.2	-3.6	1.23 H	43	51.9	12.7
2	*5745.00	119.3 PK			1.23 H	43	76.8	42.5
3	*5745.00	108.6 AV			1.23 H	43	66.1	42.5
4	#5961.60	65.2 PK	68.2	-3.0	1.23 H	43	51.5	13.7
5	11490.00	64.6 PK	74.0	-9.4	2.35 H	296	40.5	24.1
6	11490.00	51.0 AV	54.0	-3.0	2.35 H	296	26.9	24.1
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	#5632.80	63.1 PK	68.2	-5.1	2.40 V	19	50.4	12.7
2	*5745.00	115.3 PK			2.40 V	19	72.8	42.5
3	*5745.00	104.6 AV			2.40 V	19	62.1	42.5
4	#5979.20	63.5 PK	68.2	-4.7	2.40 V	19	49.7	13.8
5	11490.00	63.9 PK	74.0	-10.1	2.14 V	205	39.8	24.1
6	11490.00	50.6 AV	54.0	-3.4	2.14 V	205	26.5	24.1

Remarks:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5647.20	64.7 PK	68.2	-3.5	1.40 H	46	52.1	12.6
2	*5785.00	119.0 PK			1.40 H	46	76.4	42.6
3	*5785.00	108.5 AV			1.40 H	46	65.9	42.6
4	#5988.00	64.3 PK	68.2	-3.9	1.40 H	46	50.5	13.8
5	11570.00	64.3 PK	74.0	-9.7	2.69 H	263	40.3	24.0
6	11570.00	50.7 AV	54.0	-3.3	2.69 H	263	26.7	24.0
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	#5633.60	64.3 PK	68.2	-3.9	2.45 V	35	51.6	12.7
2	*5785.00	115.0 PK			2.45 V	35	72.4	42.6
3	*5785.00	104.5 AV			2.45 V	35	61.9	42.6
4	#5995.20	64.0 PK	68.2	-4.2	2.45 V	35	50.2	13.8
5	11570.00	63.8 PK	74.0	-10.2	2.14 V	215	39.8	24.0
6	11570.00	50.3 AV	54.0	-3.7	2.14 V	215	26.3	24.0

Remarks:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5607.20	64.4 PK	68.2	-3.8	1.41 H	47	51.7	12.7
2	*5825.00	118.4 PK			1.41 H	47	75.8	42.6
3	*5825.00	108.4 AV			1.41 H	47	65.8	42.6
4	#5976.80	64.8 PK	68.2	-3.4	1.41 H	47	51.0	13.8
5	11650.00	63.8 PK	74.0	-10.2	2.52 H	299	40.2	23.6
6	11650.00	50.4 AV	54.0	-3.6	2.52 H	299	26.8	23.6
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5627.20	62.9 PK	68.2	-5.3	2.44 V	19	50.2	12.7
2	*5825.00	114.4 PK			2.44 V	19	71.8	42.6
3	*5825.00	104.4 AV			2.44 V	19	61.8	42.6
4	#5994.40	64.2 PK	68.2	-4.0	2.44 V	19	50.4	13.8
5	11650.00	63.2 PK	74.0	-10.8	2.15 V	230	39.6	23.6
6	11650.00	49.9 AV	54.0	-4.1	2.15 V	230	26.3	23.6

Remarks:

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

802.11ax (HE40)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	68.7 PK	72.0	-3.3	1.05 H	57	56.1	12.6
2	5150.00	52.5 AV	54.0	-1.5	1.05 H	57	39.9	12.6
3	*5190.00	107.8 PK			1.00 H	58	66.3	41.5
4	*5190.00	98.1 AV			1.00 H	58	56.6	41.5
5	#10380.00	63.3 PK	68.2	-4.9	2.69 H	252	40.6	22.7
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	5150.00	62.1 PK	74.0	-11.9	1.00 V	322	49.5	12.6
2	5150.00	47.8 AV	54.0	-6.2	1.00 V	322	35.2	12.6
3	*5190.00	102.8 PK			1.00 V	333	61.3	41.5
4	*5190.00	93.1 AV			1.00 V	333	51.6	41.5
5	#10380.00	62.6 PK	68.2	-5.6	2.66 V	232	39.9	22.7

Remarks:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	65.8 PK	74.0	-8.2	1.20 H	57	53.2	12.6
2	5150.00	52.6 AV	54.0	-1.4	1.20 H	57	40.0	12.6
3	*5230.00	112.1 PK			1.15 H	50	70.8	41.3
4	*5230.00	102.5 AV			1.15 H	50	61.2	41.3
5	5350.00	61.2 PK	74.0	-12.8	1.21 H	50	48.8	12.4
6	5350.00	49.1 AV	54.0	-4.9	1.21 H	50	36.7	12.4
7	#10460.00	63.4 PK	68.2	-4.8	2.96 H	232	40.5	22.9
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	62.7 PK	74.0	-11.3	1.05 V	321	50.1	12.6
2	5150.00	48.2 AV	54.0	-5.8	1.05 V	321	35.6	12.6
3	*5230.00	107.1 PK			1.11 V	303	65.8	41.3
4	*5230.00	97.5 AV			1.11 V	303	56.2	41.3
5	5350.00	60.6 PK	74.0	-13.4	1.29 V	303	48.2	12.4
6	5350.00	47.6 AV	54.0	-6.4	1.29 V	303	35.2	12.4
7	#10460.00	62.7 PK	68.2	-5.5	2.56 V	263	39.8	22.9

Remarks:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5648.00	65.0 PK	68.2	-3.2	1.40 H	48	52.4	12.6
2	*5755.00	115.4 PK			1.40 H	48	72.9	42.5
3	*5755.00	105.0 AV			1.40 H	48	62.5	42.5
4	#5988.00	64.0 PK	68.2	-4.2	1.40 H	48	50.2	13.8
5	11510.00	64.4 PK	74.0	-9.6	2.69 H	252	40.5	23.9
6	11510.00	50.9 AV	54.0	-3.1	2.69 H	252	27.0	23.9
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5651.20	64.1 PK	69.1	-5.0	2.39 V	30	51.5	12.6
2	*5755.00	111.4 PK			2.39 V	30	68.9	42.5
3	*5755.00	101.0 AV			2.39 V	30	58.5	42.5
4	#5992.00	63.4 PK	68.2	-4.8	2.39 V	30	49.6	13.8
5	11510.00	64.0 PK	74.0	-10.0	2.10 V	278	40.1	23.9
6	11510.00	50.6 AV	54.0	-3.4	2.10 V	278	26.7	23.9

Remarks:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5644.80	63.4 PK	68.2	-4.8	1.36 H	47	50.7	12.7
2	*5795.00	115.3 PK			1.36 H	47	72.7	42.6
3	*5795.00	105.3 AV			1.36 H	47	62.7	42.6
4	#5926.40	65.4 PK	68.2	-2.8	1.36 H	47	51.8	13.6
5	11590.00	64.4 PK	74.0	-9.6	2.62 H	262	40.6	23.8
6	11590.00	51.0 AV	54.0	-3.0	2.62 H	262	27.2	23.8
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5628.80	63.8 PK	68.2	-4.4	2.48 V	22	51.1	12.7
2	*5795.00	111.3 PK			2.48 V	22	68.7	42.6
3	*5795.00	101.3 AV			2.48 V	22	58.7	42.6
4	#5975.20	65.1 PK	68.2	-3.1	2.48 V	22	51.3	13.8
5	11590.00	63.8 PK	74.0	-10.2	2.62 V	322	40.0	23.8
6	11590.00	50.6 AV	54.0	-3.4	2.62 V	322	26.8	23.8

Remarks:

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

802.11ax (HE80)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	69.1 PK	74.0	-4.9	1.20 H	52	56.5	12.6
2	5150.00	52.9 AV	54.0	-1.1	1.20 H	52	40.3	12.6
3	*5210.00	101.4 PK			1.15 H	44	60.0	41.4
4	*5210.00	91.8 AV			1.15 H	44	50.4	41.4
5	5350.00	61.3 PK	74.0	-12.7	1.22 H	58	48.9	12.4
6	5350.00	48.4 AV	54.0	-5.6	1.22 H	58	36.0	12.4
7	#10420.00	63.3 PK	68.2	-4.9	2.58 H	54	40.5	22.8
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	63.3 PK	74.0	-10.7	1.02 V	325	50.7	12.6
2	5150.00	48.2 AV	54.0	-5.8	1.02 V	325	35.6	12.6
3	*5210.00	96.6 PK			1.00 V	333	55.2	41.4
4	*5210.00	86.3 AV			1.00 V	333	44.9	41.4
5	5350.00	61.4 PK	74.0	-12.6	1.03 V	309	49.0	12.4
6	5350.00	47.5 AV	54.0	-6.5	1.03 V	309	35.1	12.4
7	#10420.00	63.0 PK	68.2	-5.2	2.59 V	266	40.2	22.8

Remarks:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5647.20	64.4 PK	68.2	-3.8	1.23 H	40	51.8	12.6
2	#5647.20	65.1 PK	68.2	-3.1	1.33 H	45	52.5	12.6
3	*5775.00	109.2 PK			1.39 H	46	66.6	42.6
4	*5775.00	99.2 AV			1.39 H	46	56.6	42.6
5	#5929.60	66.8 PK	68.2	-1.4	1.45 H	52	53.2	13.6
6	#5929.60	66.1 PK	68.2	-2.1	1.33 H	45	52.5	13.6
7	11550.00	64.0 PK	74.0	-10.0	2.63 H	269	40.1	23.9
8	11550.00	50.5 AV	54.0	-3.5	2.63 H	269	26.6	23.9
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5648.00	65.7 PK	68.2	-2.5	2.41 V	26	53.1	12.6
2	#5648.00	65.0 PK	68.2	-3.2	2.40 V	25	52.4	12.6
3	*5775.00	105.2 PK			2.40 V	25	62.6	42.6
4	*5775.00	95.2 AV			2.40 V	25	52.6	42.6
5	#5947.20	65.0 PK	68.2	-3.2	2.44 V	32	51.4	13.6
6	#5947.20	64.4 PK	68.2	-3.8	2.40 V	25	50.8	13.6
7	11550.00	63.7 PK	74.0	-10.3	2.65 V	210	39.8	23.9
8	11550.00	50.2 AV	54.0	-3.8	2.65 V	210	26.3	23.9

Remarks:

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

Below 1GHz Worst-Case Data:

Test Mode A (Internal antenna + Eth6 Radio)

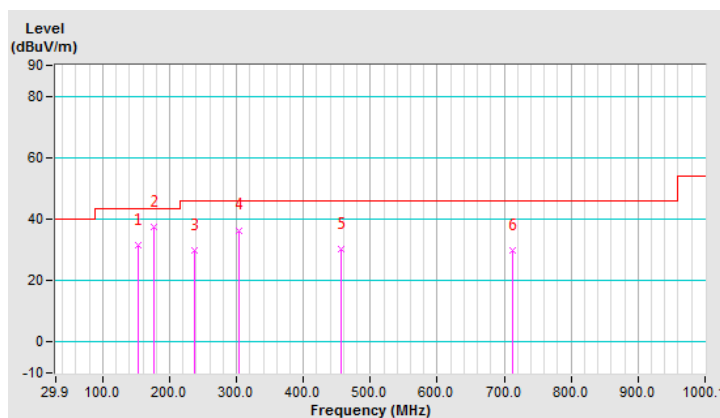
802.11a

CHANNEL	TX Channel 36	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		

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	152.39	31.5 QP	43.5	-12.0	1.00 H	220	40.2	-8.7
2	175.72	37.5 QP	43.5	-6.0	1.00 H	58	47.3	-9.8
3	237.94	29.7 QP	46.0	-16.3	1.00 H	90	39.6	-9.9
4	304.04	36.4 QP	46.0	-9.6	1.00 H	175	44.3	-7.9
5	455.70	30.4 QP	46.0	-15.6	1.00 H	190	35.9	-5.5
6	712.35	29.8 QP	46.0	-16.2	1.00 H	141	30.0	-0.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz
4. Margin value = Emission Level – Limit value
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report

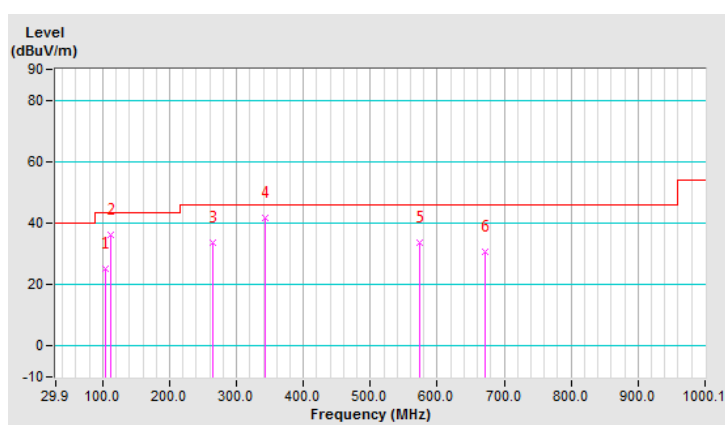


CHANNEL	TX Channel 36	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		

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	103.78	25.3 QP	43.5	-18.2	1.00 V	264	38.0	-12.7
2	111.56	36.2 QP	43.5	-7.3	1.00 V	70	48.1	-11.9
3	265.16	33.6 QP	46.0	-12.4	1.00 V	90	42.6	-9.0
4	342.93	41.7 QP	46.0	-4.3	1.00 V	164	49.1	-7.4
5	574.30	33.8 QP	46.0	-12.2	1.00 V	107	37.3	-3.5
6	671.52	30.8 QP	46.0	-15.2	1.00 V	104	32.0	-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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz
4. Margin value = Emission Level – Limit value
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report



Test Mode B (Internal antenna + Eth6 Radio)

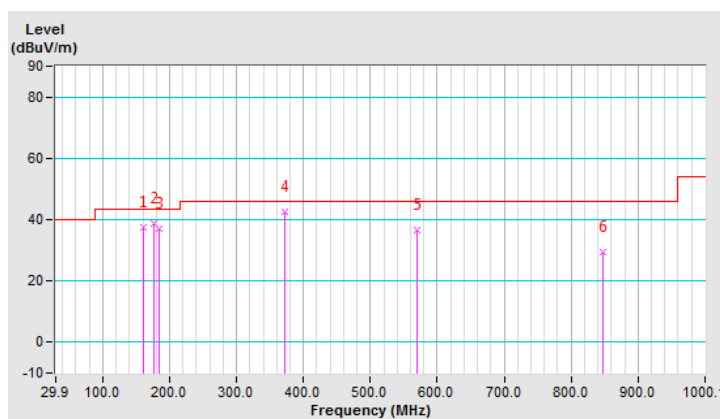
802.11a

CHANNEL	TX Channel 36	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		

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	160.17	37.4 QP	43.5	-6.1	1.50 H	69	46.3	-8.9
2	175.72	38.8 QP	43.5	-4.7	1.50 H	245	48.6	-9.8
3	183.50	36.9 QP	43.5	-6.6	1.50 H	79	47.5	-10.6
4	372.09	42.7 QP	46.0	-3.3	1.01 H	112	49.7	-7.0
5	570.41	36.6 QP	46.0	-9.4	1.50 H	347	40.2	-3.6
6	848.45	29.5 QP	46.0	-16.5	1.50 H	220	27.0	2.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz
4. Margin value = Emission Level – Limit value
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report

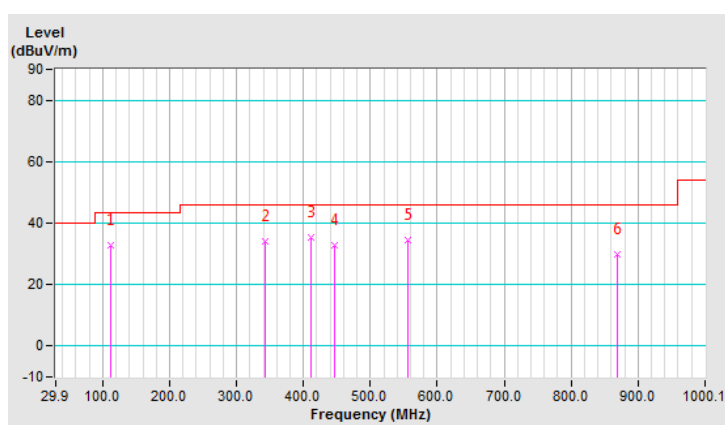


CHANNEL	TX Channel 36	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		

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	111.56	32.6 QP	43.5	-10.9	1.50 V	311	44.5	-11.9
2	342.93	34.2 QP	46.0	-11.8	1.50 V	122	41.6	-7.4
3	410.98	35.2 QP	46.0	-10.8	1.00 V	275	41.6	-6.4
4	445.98	32.7 QP	46.0	-13.3	1.00 V	214	38.5	-5.8
5	556.80	34.6 QP	46.0	-11.4	1.00 V	104	38.7	-4.1
6	869.83	29.7 QP	46.0	-16.3	1.00 V	182	27.0	2.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz
4. Margin value = Emission Level – Limit value
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report



Test Mode C (Internal antenna + Eth7 Radio)

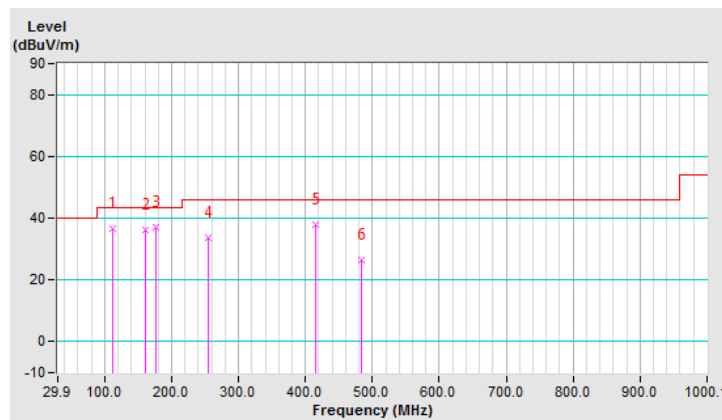
802.11a

CHANNEL	TX Channel 36	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		

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	111.56	36.5 QP	43.5	-7.0	1.50 H	68	48.4	-11.9
2	160.17	36.2 QP	43.5	-7.3	1.00 H	64	45.1	-8.9
3	175.72	37.1 QP	43.5	-6.4	1.00 H	75	46.9	-9.8
4	255.44	33.6 QP	46.0	-12.4	1.50 H	100	42.9	-9.3
5	414.87	37.8 QP	46.0	-8.2	1.00 H	189	44.2	-6.4
6	482.92	26.3 QP	46.0	-19.7	1.00 H	215	31.6	-5.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz
4. Margin value = Emission Level – Limit value
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report

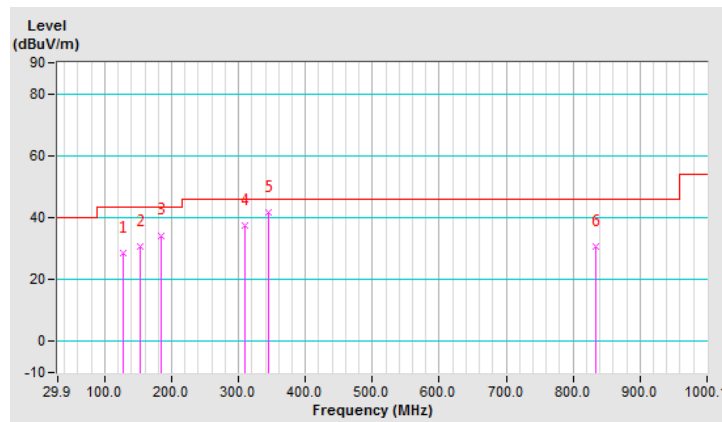


CHANNEL	TX Channel 36	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		

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	127.11	28.7 QP	43.5	-14.8	1.00 V	64	39.3	-10.6
2	152.39	30.8 QP	43.5	-12.7	2.00 V	62	39.5	-8.7
3	183.50	34.3 QP	43.5	-9.2	1.00 V	98	44.9	-10.6
4	309.88	37.4 QP	46.0	-8.6	1.50 V	168	45.2	-7.8
5	344.87	41.7 QP	46.0	-4.3	1.50 V	183	49.1	-7.4
6	832.89	30.7 QP	46.0	-15.3	1.00 V	166	28.4	2.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz
4. Margin value = Emission Level – Limit value
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report



Test Mode D (Internal antenna + Eth7 Radio)

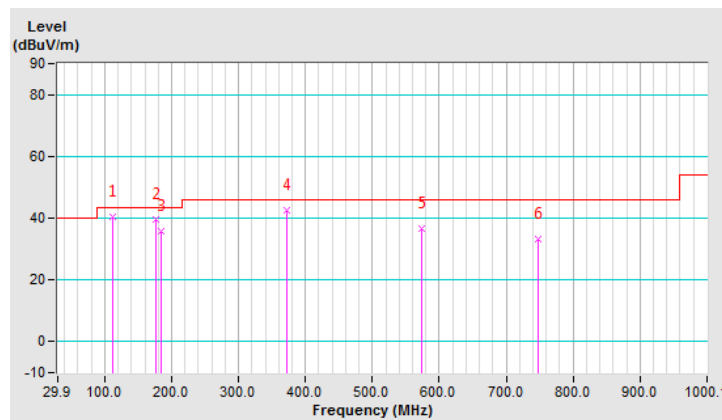
802.11a

CHANNEL	TX Channel 36	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		

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	111.56	40.5 QP	43.5	-3.0	1.49 H	64	52.4	-11.9
2	175.72	39.4 QP	43.5	-4.1	1.49 H	255	49.2	-9.8
3	183.50	35.6 QP	43.5	-7.9	1.49 H	75	46.2	-10.6
4	372.09	42.6 QP	46.0	-3.4	1.00 H	100	49.6	-7.0
5	574.30	36.6 QP	46.0	-9.4	1.49 H	117	40.1	-3.5
6	747.34	33.2 QP	46.0	-12.8	1.00 H	138	32.3	0.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz
4. Margin value = Emission Level – Limit value
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report

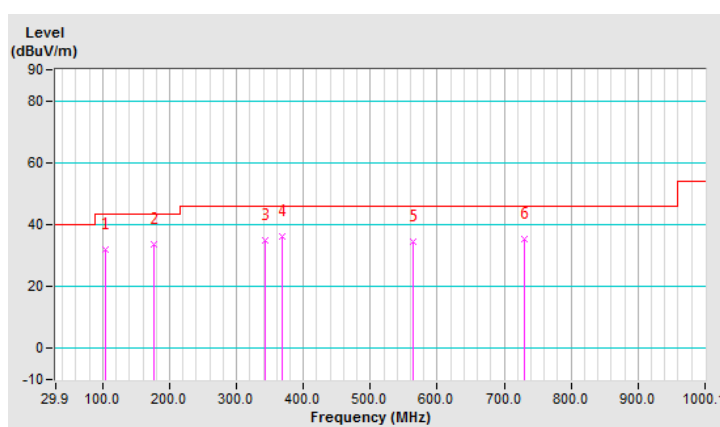


CHANNEL	TX Channel 36	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		

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	103.78	31.8 QP	43.5	-11.7	1.00 V	7	44.5	-12.7
2	175.72	33.7 QP	43.5	-9.8	1.00 V	214	43.5	-9.8
3	342.93	34.8 QP	46.0	-11.2	1.00 V	117	42.2	-7.4
4	368.21	36.3 QP	46.0	-9.7	1.50 V	195	43.3	-7.0
5	564.58	34.6 QP	46.0	-11.4	1.00 V	100	38.5	-3.9
6	729.84	35.5 QP	46.0	-10.5	1.50 V	112	35.2	0.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz
4. Margin value = Emission Level – Limit value
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report



Test Mode E (Internal antenna + Eth8 Radio)

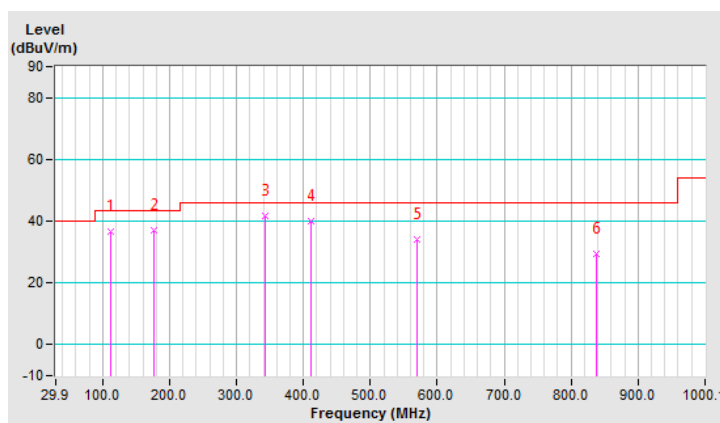
802.11a

CHANNEL	TX Channel 149	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		

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	111.56	36.5 QP	43.5	-7.0	1.00 H	87	48.4	-11.9
2	175.72	37.0 QP	43.5	-6.5	1.00 H	81	46.8	-9.8
3	342.93	41.6 QP	46.0	-4.4	1.00 H	166	49.0	-7.4
4	410.98	40.0 QP	46.0	-6.0	1.00 H	181	46.4	-6.4
5	570.41	34.0 QP	46.0	-12.0	1.00 H	98	37.6	-3.6
6	836.78	29.4 QP	46.0	-16.6	1.00 H	254	27.0	2.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz
4. Margin value = Emission Level – Limit value
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report

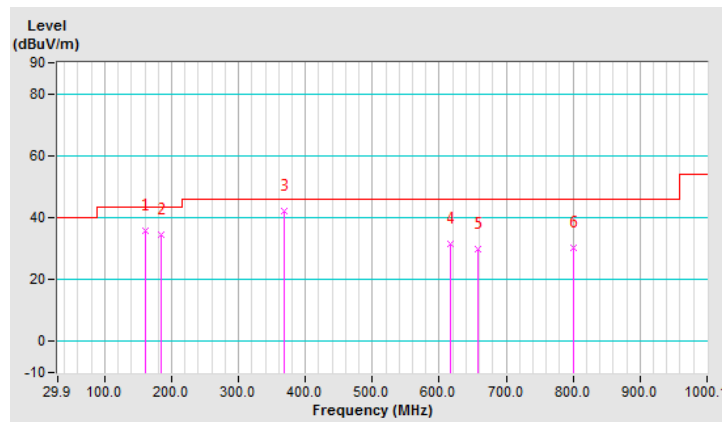


CHANNEL	TX Channel 149	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		

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	160.17	35.8 QP	43.5	-7.7	1.00 V	70	44.7	-8.9
2	183.50	34.4 QP	43.5	-9.1	1.50 V	73	45.0	-10.6
3	368.21	42.2 QP	46.0	-3.8	1.00 V	107	49.2	-7.0
4	617.08	31.5 QP	46.0	-14.5	1.00 V	98	33.5	-2.0
5	657.91	30.0 QP	46.0	-16.0	1.50 V	111	31.4	-1.4
6	799.84	30.1 QP	46.0	-15.9	1.00 V	130	28.4	1.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz
4. Margin value = Emission Level – Limit value
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report



Test Mode F (Internal antenna + Eth8 Radio)

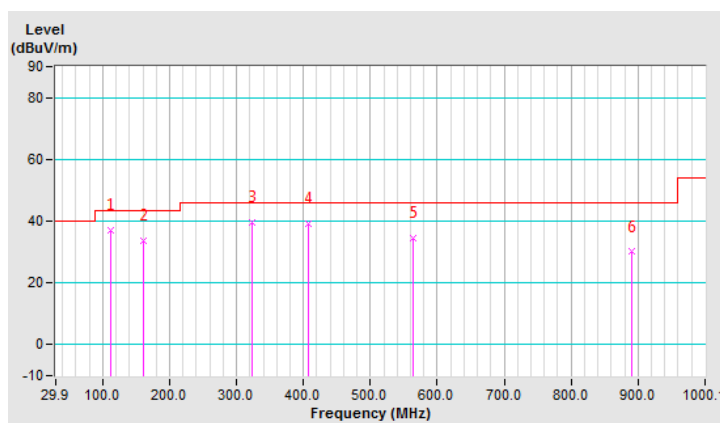
802.11a

CHANNEL	TX Channel 149	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		

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	111.56	37.2 QP	43.5	-6.3	1.50 H	58	49.1	-11.9
2	160.17	33.6 QP	43.5	-9.9	2.00 H	51	42.5	-8.9
3	323.49	39.7 QP	46.0	-6.3	1.00 H	163	47.1	-7.4
4	407.09	39.3 QP	46.0	-6.7	1.00 H	192	45.8	-6.5
5	564.58	34.5 QP	46.0	-11.5	1.00 H	104	38.4	-3.9
6	891.22	30.0 QP	46.0	-16.0	1.00 H	6	26.8	3.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz
4. Margin value = Emission Level – Limit value
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report

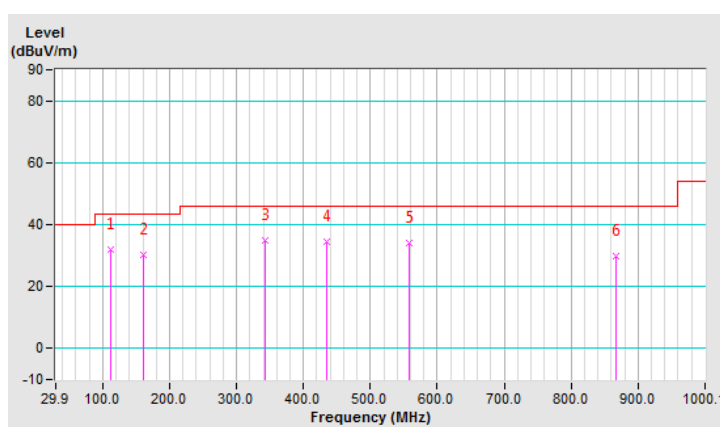


CHANNEL	TX Channel 149	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		

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	111.56	32.1 QP	43.5	-11.4	1.50 V	290	44.0	-11.9
2	160.17	30.4 QP	43.5	-13.1	1.00 V	284	39.3	-8.9
3	342.93	34.8 QP	46.0	-11.2	1.00 V	104	42.2	-7.4
4	434.31	34.3 QP	46.0	-11.7	2.00 V	200	40.2	-5.9
5	558.75	33.9 QP	46.0	-12.1	1.50 V	116	38.0	-4.1
6	867.89	29.7 QP	46.0	-16.3	1.00 V	28	27.0	2.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz
4. Margin value = Emission Level – Limit value
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report



Test Mode G (External antenna + Eth6 Radio)

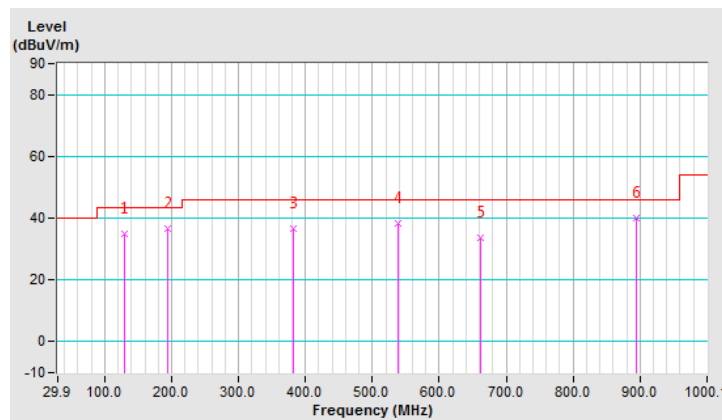
802.11a

CHANNEL	TX Channel 36	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		

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	128.86	35.0 QP	43.5	-8.5	2.00 H	338	45.4	-10.4
2	194.83	36.5 QP	43.5	-7.0	2.00 H	143	47.8	-11.3
3	381.11	36.7 QP	46.0	-9.3	1.01 H	79	43.6	-6.9
4	538.28	38.3 QP	46.0	-7.7	1.51 H	229	42.7	-4.4
5	662.47	33.6 QP	46.0	-12.4	1.01 H	163	35.0	-1.4
6	895.32	39.9 QP	46.0	-6.1	4.00 H	184	36.6	3.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz
4. Margin value = Emission Level – Limit value
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report

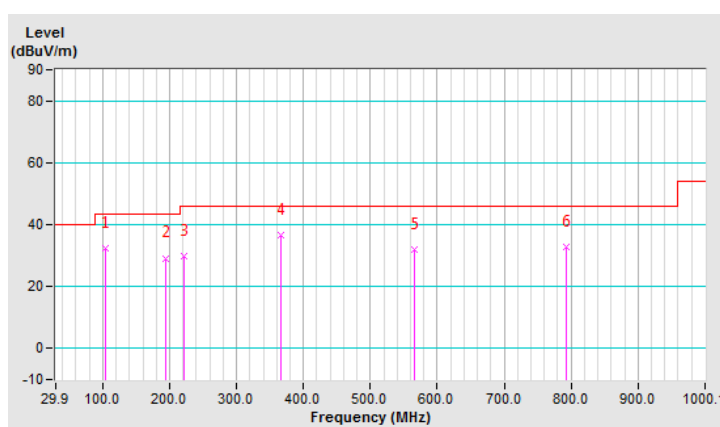


CHANNEL	TX Channel 36	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		

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	103.64	32.5 QP	43.5	-11.0	1.00 V	233	45.2	-12.7
2	194.83	29.2 QP	43.5	-14.3	2.00 V	203	40.5	-11.3
3	222.00	30.0 QP	46.0	-16.0	1.00 V	12	41.0	-11.0
4	365.59	36.6 QP	46.0	-9.4	1.49 V	272	43.7	-7.1
5	565.45	32.0 QP	46.0	-14.0	1.00 V	294	35.8	-3.8
6	792.48	32.9 QP	46.0	-13.1	1.49 V	12	31.2	1.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz
4. Margin value = Emission Level – Limit value
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report



Test Mode H (External antenna + Eth6 Radio)

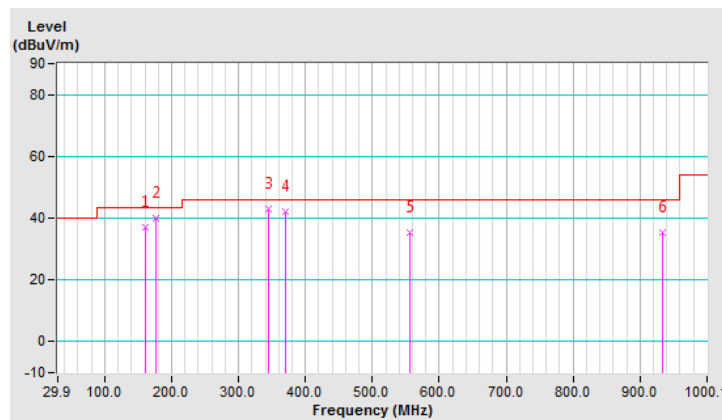
802.11a

CHANNEL	TX Channel 36	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		

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	160.17	37.2 QP	43.5	-6.3	1.99 H	76	46.1	-8.9
2	175.72	40.0 QP	43.5	-3.5	1.99 H	74	49.8	-9.8
3	344.87	42.8 QP	46.0	-3.2	1.00 H	175	50.2	-7.4
4	370.15	42.3 QP	46.0	-3.7	1.00 H	108	49.3	-7.0
5	556.80	35.4 QP	46.0	-10.6	1.99 H	2	39.5	-4.1
6	933.99	35.5 QP	46.0	-10.5	1.99 H	19	31.6	3.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz
4. Margin value = Emission Level – Limit value
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report

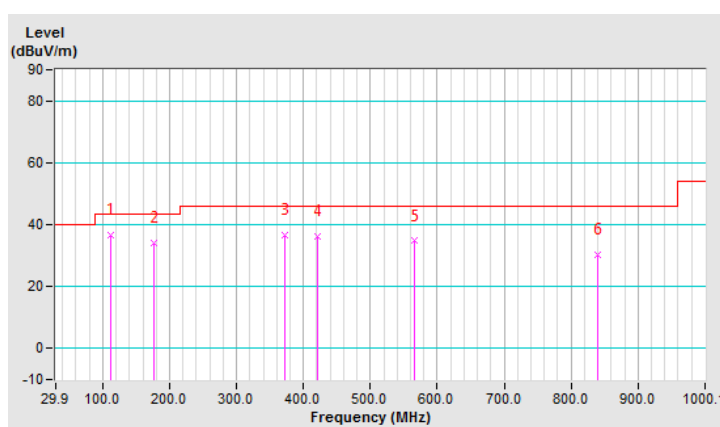


CHANNEL	TX Channel 36	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		

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	111.56	36.8 QP	43.5	-6.7	1.00 V	283	48.7	-11.9
2	175.72	34.0 QP	43.5	-9.5	2.00 V	146	43.8	-9.8
3	372.09	36.4 QP	46.0	-9.6	1.00 V	99	43.4	-7.0
4	420.70	36.1 QP	46.0	-9.9	1.00 V	205	42.3	-6.2
5	566.52	34.7 QP	46.0	-11.3	1.00 V	101	38.5	-3.8
6	840.67	30.2 QP	46.0	-15.8	2.00 V	227	27.8	2.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz
4. Margin value = Emission Level – Limit value
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report



Test Mode I (External antenna + Eth7 Radio)

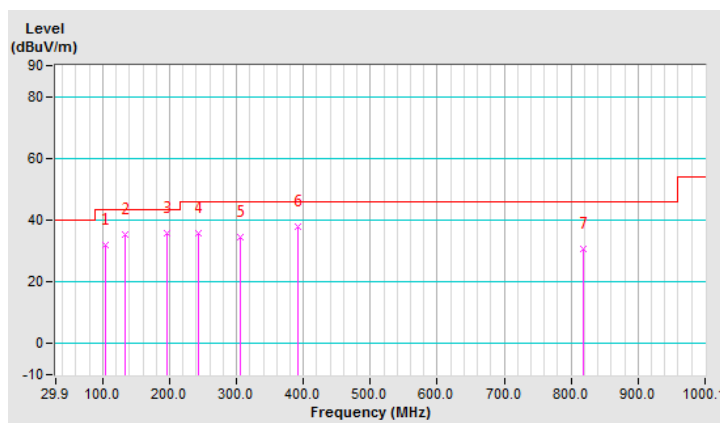
802.11a

CHANNEL	TX Channel 36	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		

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	103.64	32.1 QP	43.5	-11.4	2.00 H	328	44.8	-12.7
2	132.74	35.2 QP	43.5	-8.3	2.00 H	353	45.0	-9.8
3	196.77	35.8 QP	43.5	-7.7	2.00 H	133	47.1	-11.3
4	243.34	35.7 QP	46.0	-10.3	1.01 H	13	45.3	-9.6
5	305.44	34.4 QP	46.0	-11.6	1.01 H	101	42.3	-7.9
6	390.81	37.9 QP	46.0	-8.1	1.01 H	69	44.6	-6.7
7	817.70	30.7 QP	46.0	-15.3	1.01 H	339	28.6	2.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz
4. Margin value = Emission Level – Limit value
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report

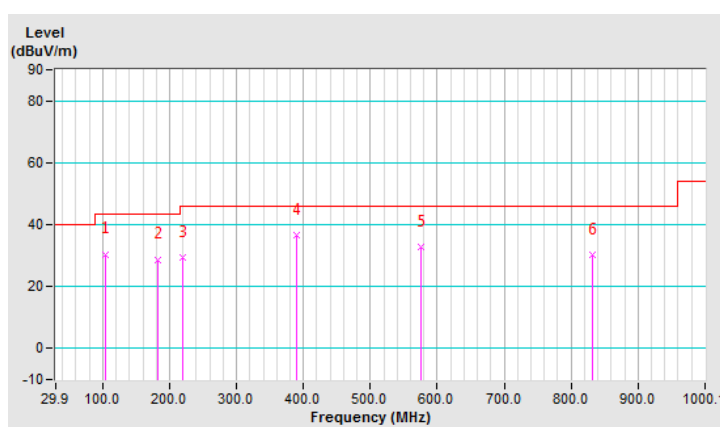


CHANNEL	TX Channel 36	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		

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	103.64	30.5 QP	43.5	-13.0	1.00 V	240	43.2	-12.7
2	183.19	28.8 QP	43.5	-14.7	2.00 V	215	39.4	-10.6
3	220.06	29.3 QP	46.0	-16.7	1.00 V	9	40.3	-11.0
4	388.87	36.5 QP	46.0	-9.5	2.00 V	42	43.2	-6.7
5	575.15	33.0 QP	46.0	-13.0	1.00 V	166	36.4	-3.4
6	831.29	30.2 QP	46.0	-15.8	2.00 V	285	27.9	2.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz
4. Margin value = Emission Level – Limit value
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report



Test Mode J (External antenna + Eth7 Radio)

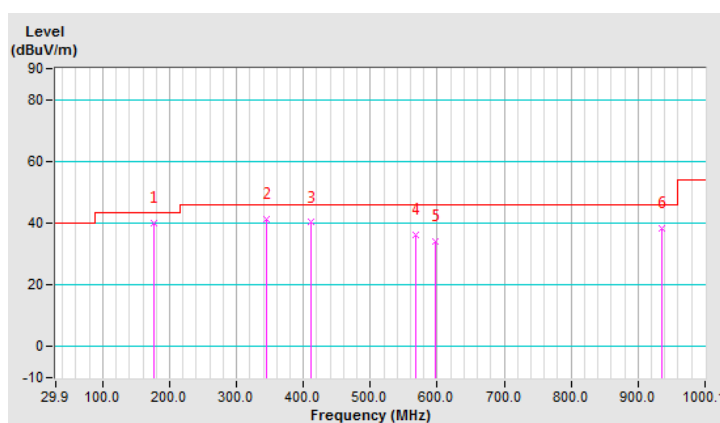
802.11a

CHANNEL	TX Channel 36	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		

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	175.72	40.0 QP	43.5	-3.5	1.50 H	240	49.8	-9.8
2	344.87	41.1 QP	46.0	-4.9	1.00 H	169	48.5	-7.4
3	410.98	40.2 QP	46.0	-5.8	1.00 H	198	46.6	-6.4
4	568.47	36.3 QP	46.0	-9.7	1.50 H	340	40.1	-3.8
5	597.63	34.1 QP	46.0	-11.9	1.50 H	249	36.7	-2.6
6	935.94	38.1 QP	46.0	-7.9	1.50 H	246	34.1	4.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz
4. Margin value = Emission Level – Limit value
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report

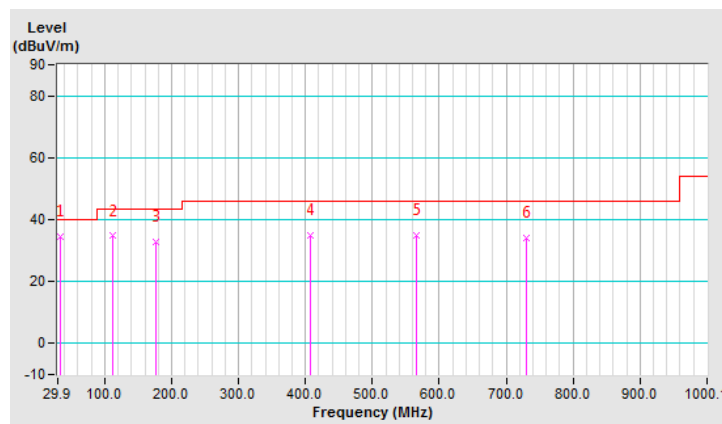


CHANNEL	TX Channel 36	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	33.79	34.7 QP	40.0	-5.3	1.50 V	358	45.3	-10.6
2	111.56	34.7 QP	43.5	-8.8	1.50 V	274	46.6	-11.9
3	175.72	32.9 QP	43.5	-10.6	1.50 V	146	42.7	-9.8
4	407.09	34.8 QP	46.0	-11.2	1.00 V	288	41.3	-6.5
5	566.52	34.9 QP	46.0	-11.1	1.00 V	105	38.7	-3.8
6	729.84	34.1 QP	46.0	-11.9	1.00 V	341	33.8	0.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz
4. Margin value = Emission Level – Limit value
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report



4.2 Conducted Emission Measurement

4.2.1 Limits of Conducted Emission Measurement

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

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

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

4.2.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver ROHDE & SCHWARZ	ESCS 30	100288	Jan. 03, 2019	Jan. 02, 2020
RF signal cable Woken	5D-FB	Cable-cond1-01	Sep. 05, 2018	Sep. 04, 2019
LISN ROHDE & SCHWARZ (EUT)	ENV216	101826	Feb. 21, 2019	Feb. 20, 2020
LISN ROHDE & SCHWARZ (Peripheral)	ESH3-Z5	100311	Aug. 19, 2018	Aug. 18, 2019
Software ADT	BV ADT_Conc_ V7.3.7.4	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-12040.

4.2.3 Test Procedures

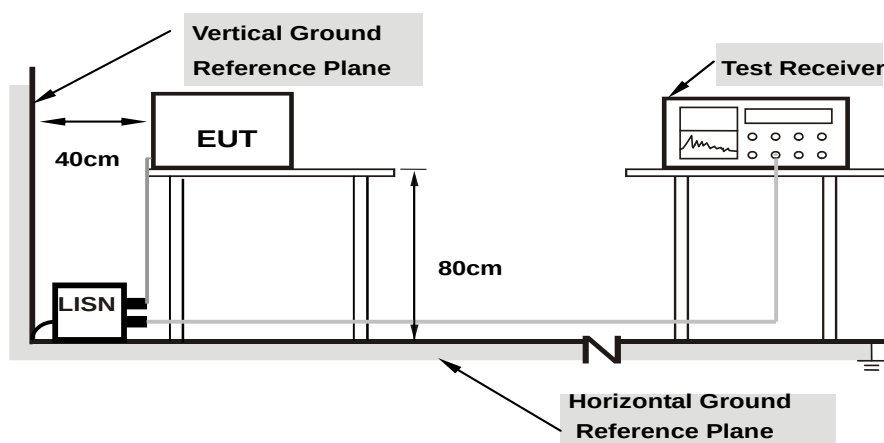
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance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

Worst-case data:

Test Mode A (Internal antenna + Eth6 Radio)

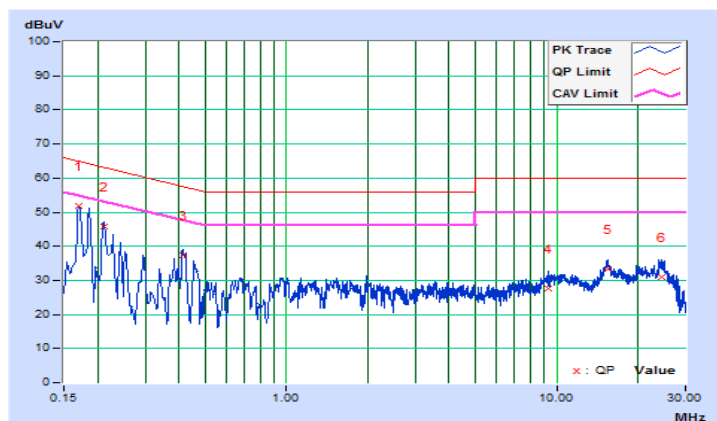
802.11a

Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16967	9.66	42.22	30.59	51.88	40.25	64.98	54.98	-13.10	-14.73
2	0.21115	9.66	36.29	25.68	45.95	35.34	63.16	53.16	-17.21	-17.82
3	0.41233	9.65	27.72	18.85	37.37	28.50	57.60	47.60	-20.23	-19.10
4	9.34632	9.82	17.93	12.08	27.75	21.90	60.00	50.00	-32.25	-28.10
5	15.47720	9.86	23.40	19.02	33.26	28.88	60.00	50.00	-26.74	-21.12
6	24.33335	9.88	21.22	15.91	31.10	25.79	60.00	50.00	-28.90	-24.21

Remarks:

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

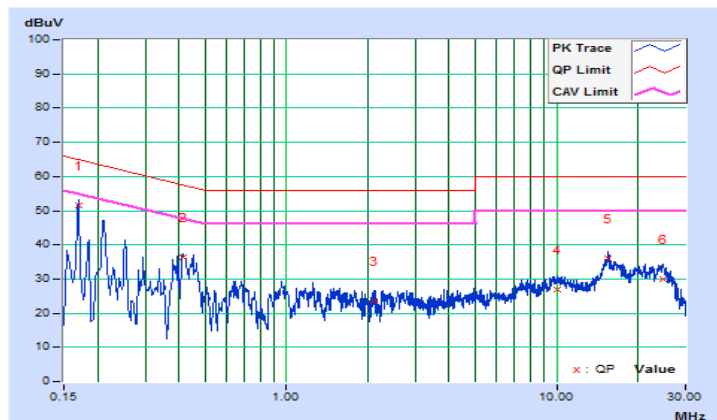


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16955	9.66	41.79	29.84	51.45	39.50	64.98	54.98	-13.53	-15.48
2	0.41233	9.65	26.70	18.00	36.35	27.65	57.60	47.60	-21.25	-19.95
3	2.09718	9.66	13.78	5.95	23.44	15.61	56.00	46.00	-32.56	-30.39
4	10.05794	9.84	17.04	11.39	26.88	21.23	60.00	50.00	-33.12	-28.77
5	15.46938	9.90	26.15	22.08	36.05	31.98	60.00	50.00	-23.95	-18.02
6	24.70089	9.97	19.91	14.74	29.88	24.71	60.00	50.00	-30.12	-25.29

Remarks:

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



Test Mode B (Internal antenna + Eth6 Radio)

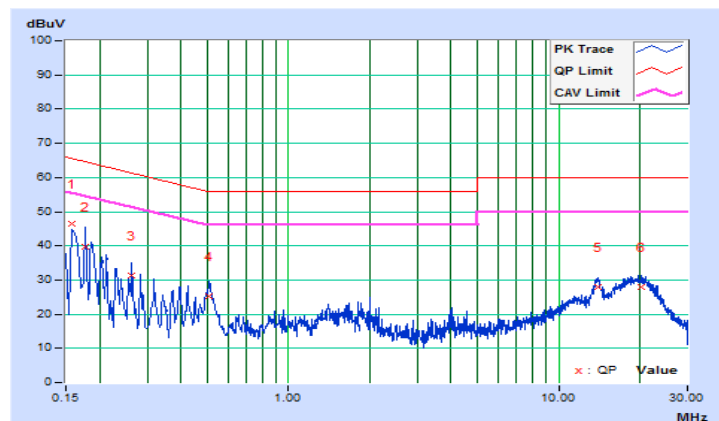
802.11a

Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15802	9.66	36.73	21.99	46.39	31.65	65.57	55.57	-19.18	-23.92
2	0.17744	9.66	30.15	13.78	39.81	23.44	64.60	54.60	-24.79	-31.16
3	0.26339	9.66	21.70	7.82	31.36	17.48	61.32	51.32	-29.96	-33.84
4	0.51043	9.65	15.69	5.57	25.34	15.22	56.00	46.00	-30.66	-30.78
5	13.90929	9.85	18.09	12.12	27.94	21.97	60.00	50.00	-32.06	-28.03
6	20.25522	9.87	17.95	12.48	27.82	22.35	60.00	50.00	-32.18	-27.65

Remarks:

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

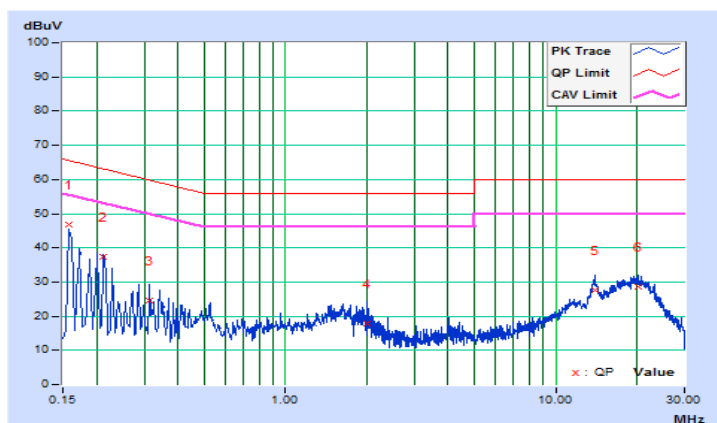


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15802	9.66	37.15	21.66	46.81	31.32	65.57	55.57	-18.76	-24.25
2	0.21256	9.66	27.71	12.33	37.37	21.99	63.10	53.10	-25.73	-31.11
3	0.31422	9.65	15.05	4.60	24.70	14.25	59.86	49.86	-35.16	-35.61
4	2.01507	9.66	8.33	1.23	17.99	10.89	56.00	46.00	-38.01	-35.11
5	13.99531	9.88	17.71	11.54	27.59	21.42	60.00	50.00	-32.41	-28.58
6	20.25913	9.94	18.62	13.17	28.56	23.11	60.00	50.00	-31.44	-26.89

Remarks:

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



Test Mode C (Internal antenna + Eth7 Radio)

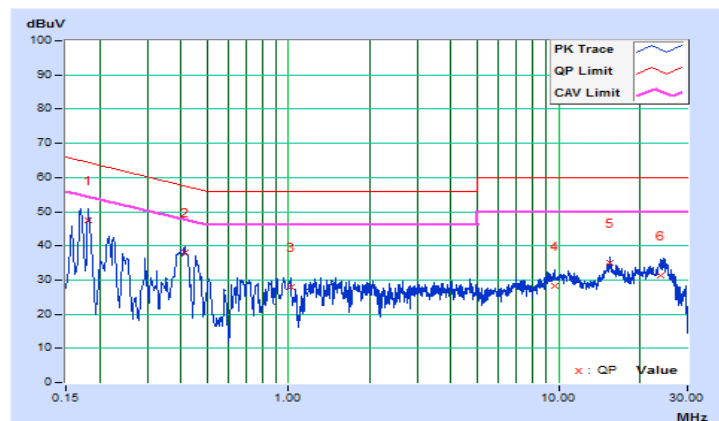
802.11a

Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.18122	9.66	37.87	20.44	47.53	30.10	64.43	54.43	-16.90	-24.33
2	0.41233	9.65	28.41	20.15	38.06	29.80	57.60	47.60	-19.54	-17.80
3	1.01799	9.64	18.18	8.91	27.82	18.55	56.00	46.00	-28.18	-27.45
4	9.72168	9.82	18.42	12.81	28.24	22.63	60.00	50.00	-31.76	-27.37
5	15.46156	9.86	25.01	21.14	34.87	31.00	60.00	50.00	-25.13	-19.00
6	23.94626	9.88	21.32	16.05	31.20	25.93	60.00	50.00	-28.80	-24.07

Remarks:

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

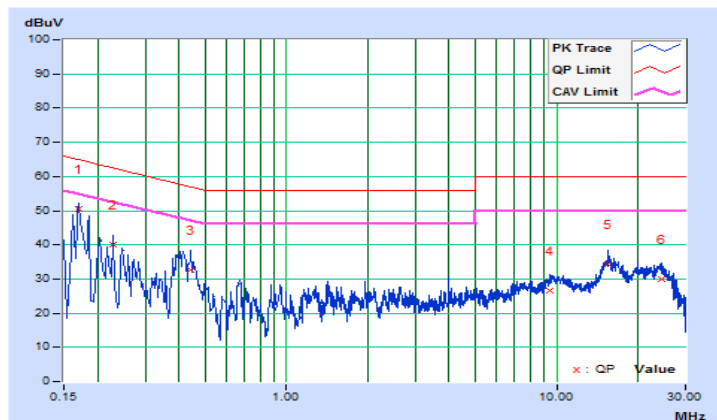


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16955	9.66	40.99	29.05	50.65	38.71	64.98	54.98	-14.33	-16.27
2	0.22820	9.66	30.29	11.64	39.95	21.30	62.51	52.51	-22.56	-31.21
3	0.44325	9.65	22.91	8.76	32.56	18.41	57.00	47.00	-24.44	-28.59
4	9.43234	9.83	16.81	10.99	26.64	20.82	60.00	50.00	-33.36	-29.18
5	15.46547	9.90	24.40	19.96	34.30	29.86	60.00	50.00	-25.70	-20.14
6	24.57577	9.97	20.07	14.88	30.04	24.85	60.00	50.00	-29.96	-25.15

Remarks:

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



Test Mode D (Internal antenna + Eth7 Radio)

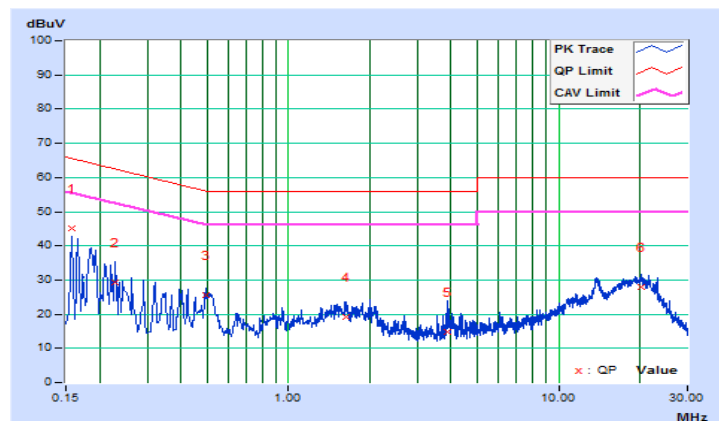
802.11a

Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15782	9.66	35.59	20.89	45.25	30.55	65.58	55.58	-20.33	-25.03
2	0.22820	9.66	19.72	2.42	29.38	12.08	62.51	52.51	-33.13	-40.43
3	0.49408	9.65	16.05	8.62	25.70	18.27	56.10	46.10	-30.40	-27.83
4	1.64362	9.65	9.38	3.73	19.03	13.38	56.00	46.00	-36.97	-32.62
5	3.90360	9.71	4.95	2.96	14.66	12.67	56.00	46.00	-41.34	-33.33
6	20.25563	9.87	18.13	12.75	28.00	22.62	60.00	50.00	-32.00	-27.38

Remarks:

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

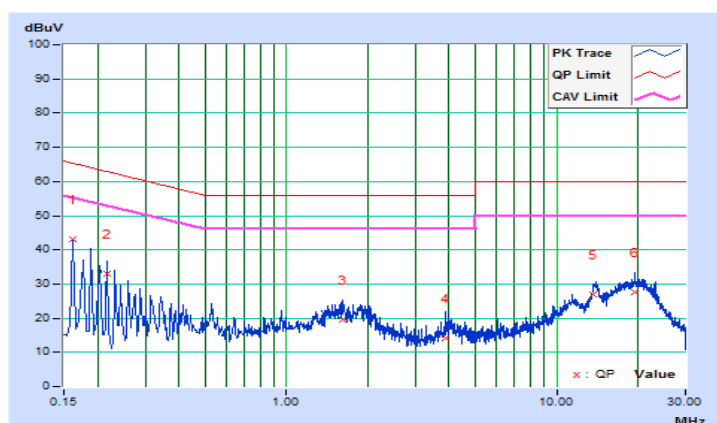


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16173	9.66	33.33	17.43	42.99	27.09	65.37	55.37	-22.38	-28.28
2	0.21647	9.66	23.47	6.63	33.13	16.29	62.95	52.95	-29.82	-36.66
3	1.60452	9.65	9.93	4.10	19.58	13.75	56.00	46.00	-36.42	-32.25
4	3.88796	9.71	4.46	3.65	14.17	13.36	56.00	46.00	-41.83	-32.64
5	13.72161	9.88	16.90	10.70	26.78	20.58	60.00	50.00	-33.22	-29.42
6	19.45758	9.94	17.53	11.85	27.47	21.79	60.00	50.00	-32.53	-28.21

Remarks:

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



Test Mode E (Internal antenna + Eth8 Radio)

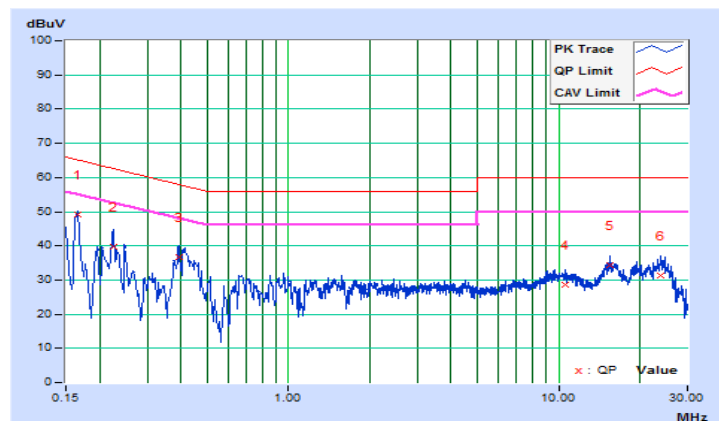
802.11a

Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16526	9.66	39.36	27.22	49.02	36.88	65.20	55.20	-16.18	-18.32
2	0.22434	9.66	30.20	14.70	39.86	24.36	62.66	52.66	-22.80	-28.30
3	0.39219	9.65	27.00	14.31	36.65	23.96	58.02	48.02	-21.37	-24.06
4	10.58188	9.83	18.70	13.37	28.53	23.20	60.00	50.00	-31.47	-26.80
5	15.45374	9.86	24.55	20.75	34.41	30.61	60.00	50.00	-25.59	-19.39
6	23.78595	9.88	21.34	16.07	31.22	25.95	60.00	50.00	-28.78	-24.05

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.

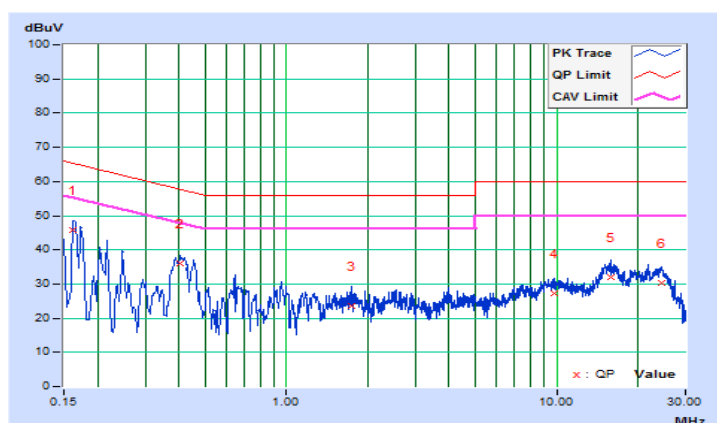


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16181	9.66	36.11	21.08	45.77	30.74	65.37	55.37	-19.60	-24.63
2	0.40479	9.65	26.40	15.36	36.05	25.01	57.75	47.75	-21.70	-22.74
3	1.73355	9.65	14.06	4.89	23.71	14.54	56.00	46.00	-32.29	-31.46
4	9.85462	9.84	17.59	11.95	27.43	21.79	60.00	50.00	-32.57	-28.21
5	15.84474	9.90	21.92	16.48	31.82	26.38	60.00	50.00	-28.18	-23.62
6	24.59141	9.97	20.39	15.36	30.36	25.33	60.00	50.00	-29.64	-24.67

Remarks:

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



Test Mode F (Internal antenna + Eth8 Radio)

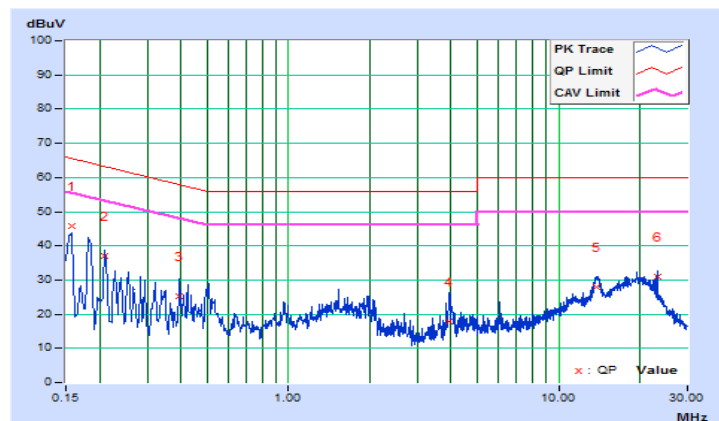
802.11a

Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15760	9.66	36.24	21.79	45.90	31.45	65.59	55.59	-19.69	-24.14
2	0.20865	9.66	27.49	14.55	37.15	24.21	63.26	53.26	-26.11	-29.05
3	0.39635	9.65	15.76	6.00	25.41	15.65	57.93	47.93	-32.52	-32.28
4	3.94270	9.71	8.24	1.20	17.95	10.91	56.00	46.00	-38.05	-35.09
5	13.85064	9.85	17.98	11.95	27.83	21.80	60.00	50.00	-32.17	-28.20
6	23.12907	9.88	20.95	17.21	30.83	27.09	60.00	50.00	-29.17	-22.91

Remarks:

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

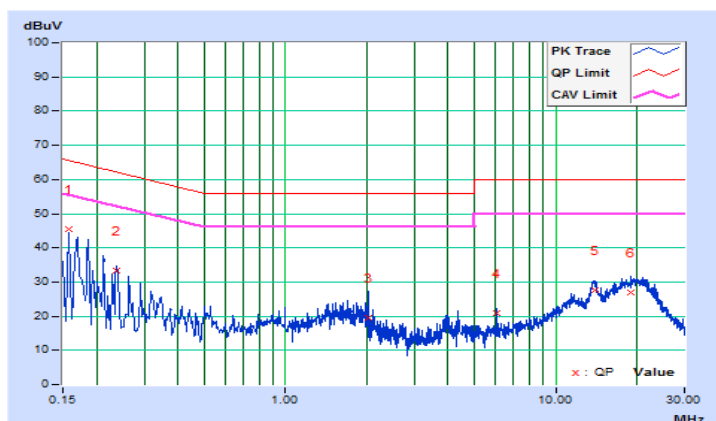


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15782	9.66	35.95	21.12	45.61	30.78	65.58	55.58	-19.97	-24.80
2	0.23602	9.66	23.53	11.15	33.19	20.81	62.24	52.24	-29.05	-31.43
3	2.01898	9.66	9.83	1.55	19.49	11.21	56.00	46.00	-36.51	-34.79
4	6.07365	9.75	10.97	8.25	20.72	18.00	60.00	50.00	-39.28	-32.00
5	13.92884	9.88	17.69	11.67	27.57	21.55	60.00	50.00	-32.43	-28.45
6	19.08222	9.93	17.16	11.38	27.09	21.31	60.00	50.00	-32.91	-28.69

Remarks:

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



Test Mode G (External antenna + Eth6 Radio)

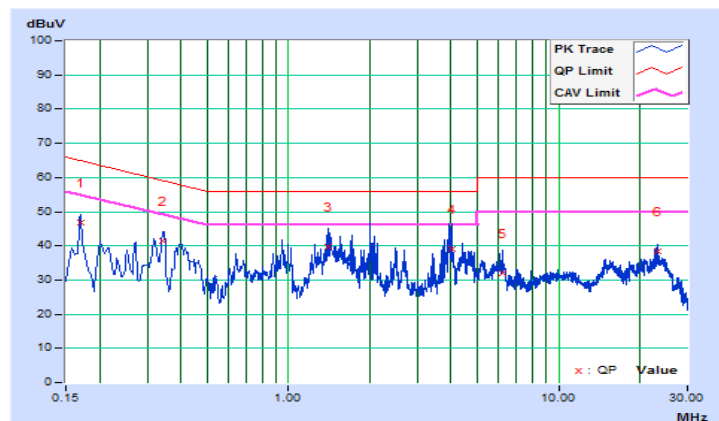
802.11a

Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16955	9.66	37.14	26.96	46.80	36.62	64.98	54.98	-18.18	-18.36
2	0.34469	9.65	31.79	31.28	41.44	40.93	59.09	49.09	-17.65	-8.16
3	1.40902	9.65	29.99	23.05	39.64	32.70	56.00	46.00	-16.36	-13.30
4	4.02872	9.71	29.43	20.86	39.14	30.57	56.00	46.00	-16.86	-15.43
5	6.17531	9.75	22.07	14.42	31.82	24.17	60.00	50.00	-28.18	-25.83
6	23.12516	9.88	28.40	24.94	38.28	34.82	60.00	50.00	-21.72	-15.18

Remarks:

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

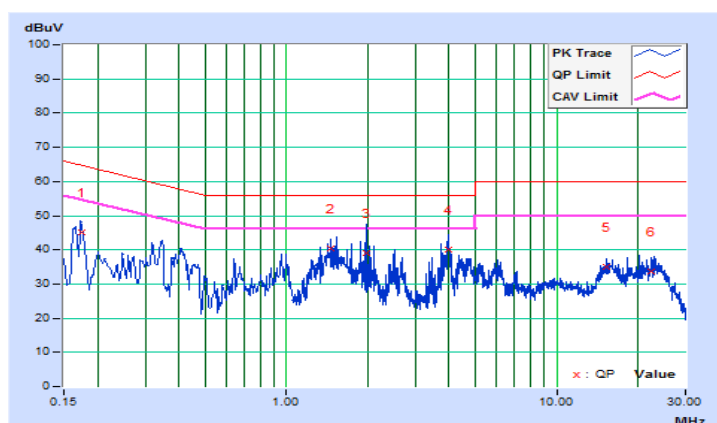


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.17374	9.66	35.34	25.18	45.00	34.84	64.78	54.78	-19.78	-19.94
2	1.45203	9.64	30.63	23.19	40.27	32.83	56.00	46.00	-15.73	-13.17
3	1.97597	9.66	29.52	16.46	39.18	26.12	56.00	46.00	-16.82	-19.88
4	3.96616	9.71	30.32	21.27	40.03	30.98	56.00	46.00	-15.97	-15.02
5	15.25042	9.90	25.10	19.94	35.00	29.84	60.00	50.00	-25.00	-20.16
6	22.51911	9.96	23.68	18.68	33.64	28.64	60.00	50.00	-26.36	-21.36

Remarks:

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



Test Mode H (External antenna + Eth6 Radio)

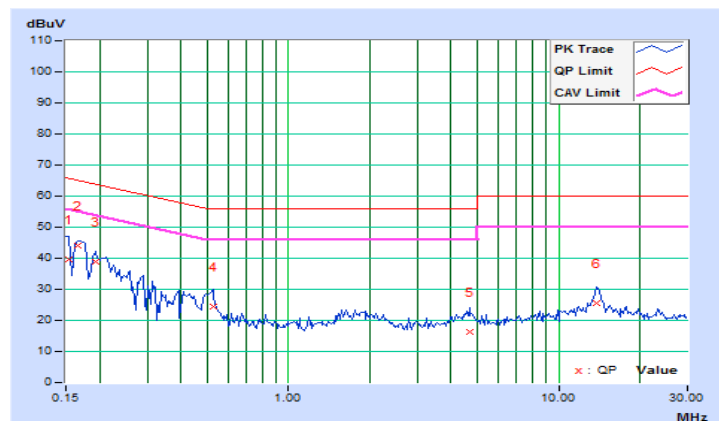
802.11a

Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15391	9.69	29.90	3.79	39.59	13.48	65.79	55.79	-26.20	-42.31
2	0.16562	9.69	34.35	20.25	44.04	29.94	65.18	55.18	-21.14	-25.24
3	0.19297	9.68	29.29	16.11	38.97	25.79	63.91	53.91	-24.94	-28.12
4	0.52500	9.68	14.62	5.66	24.30	15.34	56.00	46.00	-31.70	-30.66
5	4.69141	9.76	6.56	1.24	16.32	11.00	56.00	46.00	-39.68	-35.00
6	13.88281	9.90	15.69	9.93	25.59	19.83	60.00	50.00	-34.41	-30.17

Remarks:

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

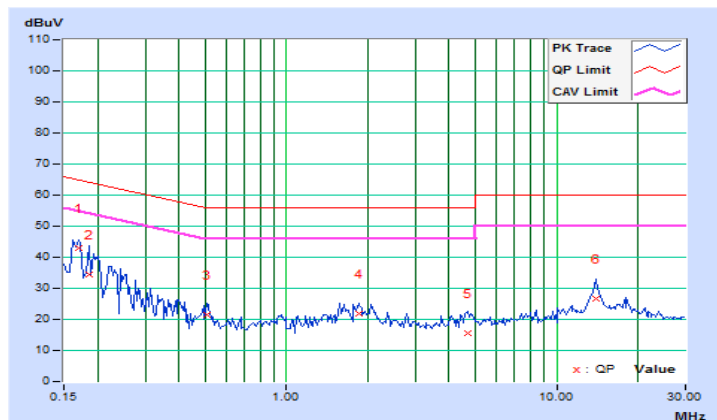


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16953	9.66	33.40	19.42	43.06	29.08	64.98	54.98	-21.92	-25.90
2	0.18516	9.66	24.91	3.06	34.57	12.72	64.25	54.25	-29.68	-41.53
3	0.50547	9.65	11.91	2.33	21.56	11.98	56.00	46.00	-34.44	-34.02
4	1.85547	9.67	12.13	5.40	21.80	15.07	56.00	46.00	-34.20	-30.93
5	4.66797	9.73	5.79	1.55	15.52	11.28	56.00	46.00	-40.48	-34.72
6	14.03125	9.91	16.75	10.80	26.66	20.71	60.00	50.00	-33.34	-29.29

Remarks:

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



Test Mode I (External antenna + Eth7 Radio)

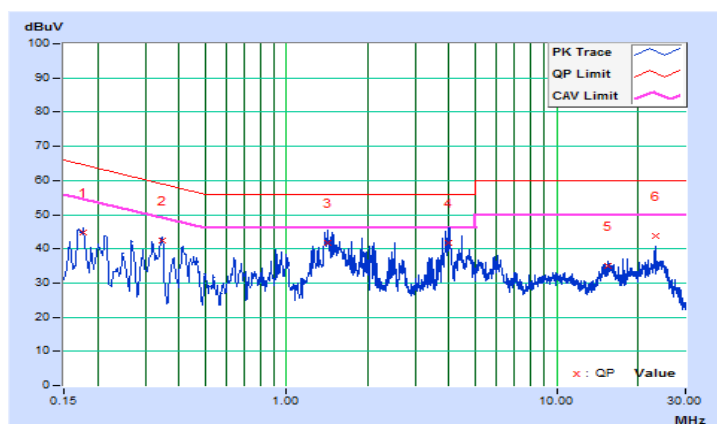
802.11a

Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.17737	9.66	34.96	25.87	44.62	35.53	64.61	54.61	-19.99	-19.08
2	0.34550	9.65	32.74	32.43	42.39	42.08	59.07	49.07	-16.68	-6.99
3	1.42466	9.65	32.18	25.21	41.83	34.86	56.00	46.00	-14.17	-11.14
4	3.97398	9.71	32.13	23.32	41.84	33.03	56.00	46.00	-14.16	-12.97
5	15.44201	9.86	25.28	21.78	35.14	31.64	60.00	50.00	-24.86	-18.36
6	23.12907	9.88	33.81	30.40	43.69	40.28	60.00	50.00	-16.31	-9.72

Remarks:

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

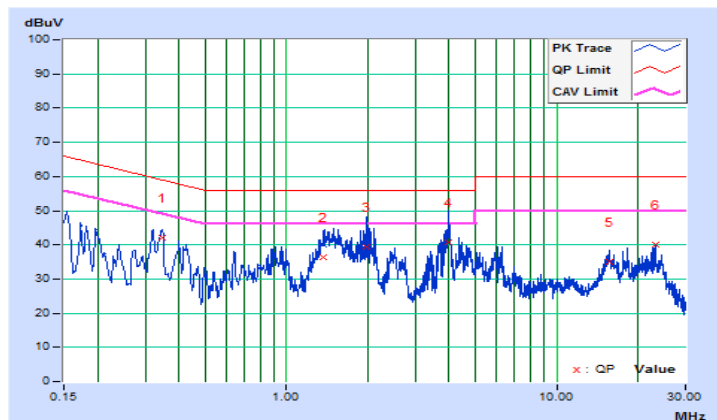


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.34560	9.65	32.50	32.03	42.15	41.68	59.07	49.07	-16.92	-7.39
2	1.36601	9.64	26.67	20.09	36.31	29.73	56.00	46.00	-19.69	-16.27
3	1.96815	9.66	29.59	18.69	39.25	28.35	56.00	46.00	-16.75	-17.65
4	3.99353	9.71	30.90	22.14	40.61	31.85	56.00	46.00	-15.39	-14.15
5	15.61796	9.90	25.19	19.89	35.09	29.79	60.00	50.00	-24.91	-20.21
6	23.12516	9.96	30.09	27.02	40.05	36.98	60.00	50.00	-19.95	-13.02

Remarks:

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



Test Mode J (External antenna + Eth7 Radio)

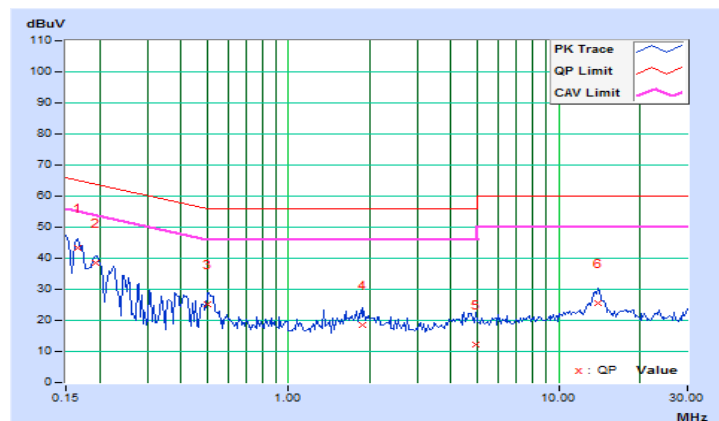
802.11a

Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16562	9.69	33.52	19.86	43.21	29.55	65.18	55.18	-21.97	-25.63
2	0.19297	9.68	28.83	14.83	38.51	24.51	63.91	53.91	-25.40	-29.40
3	0.50156	9.68	15.68	7.59	25.36	17.27	56.00	46.00	-30.64	-28.73
4	1.88672	9.70	8.77	1.60	18.47	11.30	56.00	46.00	-37.53	-34.70
5	4.96484	9.77	2.57	1.33	12.34	11.10	56.00	46.00	-43.66	-34.90
6	13.98828	9.90	15.68	9.74	25.58	19.64	60.00	50.00	-34.42	-30.36

Remarks:

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

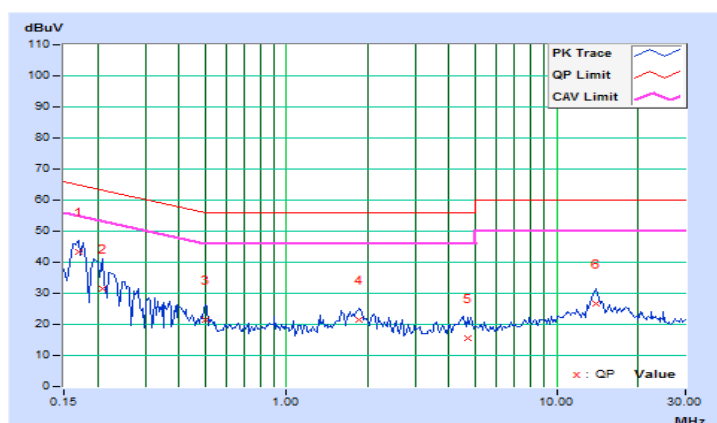


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16953	9.66	33.52	19.52	43.18	29.18	64.98	54.98	-21.80	-25.80
2	0.20859	9.66	21.77	1.57	31.43	11.23	63.26	53.26	-31.83	-42.03
3	0.50156	9.65	11.83	1.84	21.48	11.49	56.00	46.00	-34.52	-34.51
4	1.85156	9.67	11.95	5.42	21.62	15.09	56.00	46.00	-34.38	-30.91
5	4.67188	9.73	5.71	1.39	15.44	11.12	56.00	46.00	-40.56	-34.88
6	14.04688	9.91	16.61	10.21	26.52	20.12	60.00	50.00	-33.48	-29.88

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



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

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

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

Test Mode A (Internal antenna + Eth6 Radio)

CDD Mode

802.11a

Chan.	Freq. (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	15.86	17.13	15.67	16.03	167.175	22.23	30.00	Pass
40	5200	17.08	18.31	17.30	17.42	227.725	23.57	30.00	Pass
48	5240	17.11	18.27	17.32	17.29	226.078	23.54	30.00	Pass
149	5745	20.04	20.39	19.61	19.32	387.239	25.88	30.00	Pass
157	5785	20.13	20.33	19.54	19.41	388.181	25.89	30.00	Pass
165	5825	20.11	20.42	19.68	19.38	392.312	25.94	30.00	Pass

802.11ax (HE20)

Chan.	Freq. (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	15.75	16.60	15.14	15.66	152.765	21.84	30.00	Pass
40	5200	17.02	18.41	17.62	17.23	230.348	23.62	30.00	Pass
48	5240	17.10	18.37	17.49	17.26	229.309	23.60	30.00	Pass
149	5745	20.15	20.34	19.63	19.32	388.997	25.90	30.00	Pass
157	5785	20.12	20.35	19.55	19.36	387.650	25.88	30.00	Pass
165	5825	20.16	20.29	19.61	19.27	386.597	25.87	30.00	Pass

802.11ax (HE40)

Chan.	Freq. (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	13.32	14.98	13.06	13.43	95.214	19.79	30.00	Pass
46	5230	17.52	18.72	18.59	17.65	261.454	24.17	30.00	Pass
151	5755	20.55	20.14	19.33	19.30	387.595	25.88	30.00	Pass
159	5795	20.63	20.07	19.51	19.33	392.271	25.94	30.00	Pass

802.11ax (HE80)

Chan.	Freq. (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	13.41	14.27	13.27	13.27	91.122	19.60	30.00	Pass
155	5775	14.29	14.64	14.74	13.66	108.972	20.37	30.00	Pass

Beamforming Mode

802.11ax (HE20)

Chan.	Freq. (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	15.75	16.60	15.14	15.66	152.765	21.84	24.55	Pass
40	5200	17.02	18.41	17.62	17.23	230.348	23.62	24.55	Pass
48	5240	17.10	18.37	17.49	17.26	229.309	23.60	24.55	Pass
149	5745	17.93	18.12	17.41	17.10	233.317	23.68	24.55	Pass
157	5785	17.90	18.13	17.33	17.14	232.509	23.66	24.55	Pass
165	5825	17.94	18.07	17.39	17.05	231.878	23.65	24.55	Pass

Note: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/4] = 11.45\text{dBi} > 6\text{dBi}$, so the power limit shall be reduced to $30 - (11.45 - 6) = 24.55\text{dBm}$.

802.11ax (HE40)

Chan.	Freq. (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	13.32	14.98	13.06	13.43	95.214	19.79	24.55	Pass
46	5230	17.09	18.29	18.16	17.22	236.808	23.74	24.55	Pass
151	5755	18.33	17.92	17.11	17.08	232.475	23.66	24.55	Pass
159	5795	18.41	17.85	17.29	17.11	235.281	23.72	24.55	Pass

Note: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/4] = 11.45\text{dBi} > 6\text{dBi}$, so the power limit shall be reduced to $30 - (11.45 - 6) = 24.55\text{dBm}$.

802.11ax (HE80)

Chan.	Freq. (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	13.41	14.27	13.27	13.27	91.122	19.60	24.55	Pass
155	5775	14.29	14.64	14.74	13.66	108.972	20.37	24.55	Pass

Note: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/4] = 11.45\text{dBi} > 6\text{dBi}$, so the power limit shall be reduced to $30 - (11.45 - 6) = 24.55\text{dBm}$.

Test Mode C (Internal antenna + Eth7 Radio)

802.11a

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
36	5180	18.40	16.80	117.046	20.68	30.00	Pass
40	5200	23.12	21.47	345.397	25.38	30.00	Pass
48	5240	20.32	18.88	184.915	22.67	30.00	Pass
149	5745	23.24	21.35	347.321	25.41	30.00	Pass
157	5785	23.10	21.33	340.005	25.31	30.00	Pass
165	5825	22.85	21.20	324.578	25.11	30.00	Pass

802.11ax (HE20)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
36	5180	17.99	16.23	104.927	20.21	30.00	Pass
40	5200	22.10	20.49	274.125	24.38	30.00	Pass
48	5240	20.58	18.91	192.092	22.84	30.00	Pass
149	5745	23.28	21.35	349.272	25.43	30.00	Pass
157	5785	23.22	21.30	344.790	25.38	30.00	Pass
165	5825	23.08	21.32	338.755	25.30	30.00	Pass

802.11ax (HE40)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
38	5190	16.14	14.75	70.969	18.51	30.00	Pass
46	5230	19.73	18.55	165.586	22.19	30.00	Pass
151	5755	23.00	21.36	336.299	25.27	30.00	Pass
159	5795	23.12	21.23	337.855	25.29	30.00	Pass

802.11ax (HE80)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
42	5210	16.07	14.77	70.450	18.48	30.00	Pass
155	5775	18.98	17.05	129.767	21.13	30.00	Pass

Test Mode E (Internal antenna + Eth8 Radio)

CDD Mode

802.11a

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
149	5745	21.52	22.64	22.73	22.38	686.041	28.36	30.00	Pass
157	5785	21.34	22.24	22.45	22.33	650.432	28.13	30.00	Pass
165	5825	21.15	21.98	22.44	22.18	628.662	27.98	30.00	Pass

802.11ax (HE20)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
149	5745	21.72	22.75	22.92	22.53	711.904	28.52	30.00	Pass
157	5785	21.46	22.62	22.55	22.15	666.715	28.24	30.00	Pass
165	5825	21.23	22.42	22.30	21.83	629.550	27.99	30.00	Pass

802.11ax (HE40)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
151	5755	20.50	21.16	21.56	21.01	512.221	27.09	30.00	Pass
159	5795	21.43	22.29	22.49	22.11	648.403	28.12	30.00	Pass

802.11ax (HE80)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
155	5775	16.64	17.37	17.06	17.23	204.369	23.10	30.00	Pass

Beamforming Mode

802.11ax (HE20)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
149	5745	17.73	18.76	18.93	18.54	284.068	24.53	25.04	Pass
157	5785	17.70	18.86	18.79	18.39	280.504	24.48	25.04	Pass
165	5825	17.47	18.66	18.54	18.07	264.869	24.23	25.04	Pass

Note: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/4] = 10.96\text{dBi} > 6\text{dBi}$, so the power limit shall be reduced to $30 - (10.96 - 6) = 25.04\text{dBm}$.

802.11ax (HE40)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
151	5755	17.73	18.39	18.79	18.24	270.681	24.32	25.04	Pass
159	5795	17.67	18.53	18.73	18.35	272.800	24.36	25.04	Pass

Note: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/4] = 10.96\text{dBi} > 6\text{dBi}$, so the power limit shall be reduced to $30 - (10.96 - 6) = 25.04\text{dBm}$.

802.11ax (HE80)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
155	5775	16.64	17.37	17.06	17.23	204.369	23.10	25.04	Pass

Note: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/4] = 10.96\text{dBi} > 6\text{dBi}$, so the power limit shall be reduced to $30 - (10.96 - 6) = 25.04\text{dBm}$.

Test Mode G (External antenna + Eth6 Radio)

CDD Mode

802.11a

Chan.	Freq. (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	15.86	17.13	15.67	16.03	167.175	22.23	30.00	Pass
40	5200	17.08	18.31	17.30	17.42	227.725	23.57	30.00	Pass
48	5240	17.11	18.27	17.32	17.29	226.078	23.54	30.00	Pass
149	5745	20.04	20.39	19.61	19.32	387.239	25.88	30.00	Pass
157	5785	20.13	20.33	19.54	19.41	388.181	25.89	30.00	Pass
165	5825	20.11	20.42	19.68	19.38	392.312	25.94	30.00	Pass

802.11ax (HE20)

Chan.	Freq. (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	15.75	16.60	15.14	15.66	152.765	21.84	30.00	Pass
40	5200	17.02	18.41	17.62	17.23	230.348	23.62	30.00	Pass
48	5240	17.10	18.37	17.49	17.26	229.309	23.60	30.00	Pass
149	5745	20.15	20.34	19.63	19.32	388.997	25.90	30.00	Pass
157	5785	20.12	20.35	19.55	19.36	387.650	25.88	30.00	Pass
165	5825	20.16	20.29	19.61	19.27	386.597	25.87	30.00	Pass

802.11ax (HE40)

Chan.	Freq. (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	13.32	14.98	13.06	13.43	95.214	19.79	30.00	Pass
46	5230	17.52	18.72	18.59	17.65	261.454	24.17	30.00	Pass
151	5755	20.55	20.14	19.33	19.30	387.595	25.88	30.00	Pass
159	5795	20.63	20.07	19.51	19.33	392.271	25.94	30.00	Pass

802.11ax (HE80)

Chan.	Freq. (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	13.41	14.27	13.27	13.27	91.122	19.60	30.00	Pass
155	5775	14.29	14.64	14.74	13.66	108.972	20.37	30.00	Pass

Beamforming Mode

802.11ax (HE20)

Chan.	Freq. (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	15.75	16.60	15.14	15.66	152.765	21.84	23.98	Pass
40	5200	17.02	18.41	17.62	17.23	230.348	23.62	23.98	Pass
48	5240	17.10	18.37	17.49	17.26	229.309	23.60	23.98	Pass
149	5745	17.93	18.12	17.41	17.10	233.317	23.68	23.98	Pass
157	5785	17.90	18.13	17.33	17.14	232.509	23.66	23.98	Pass
165	5825	17.94	18.07	17.39	17.05	231.878	23.65	23.98	Pass

Note: Directional gain = $6\text{dBi} + 10\log(4) = 12.02\text{dBi} > 6\text{dBi}$, so the power limit shall be reduced to $30 - (12.02 - 6) = 23.98\text{dBm}$.

802.11ax (HE40)

Chan.	Freq. (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	13.32	14.98	13.06	13.43	95.214	19.79	23.98	Pass
46	5230	17.09	18.29	18.16	17.22	236.808	23.74	23.98	Pass
151	5755	18.33	17.92	17.11	17.08	232.475	23.66	23.98	Pass
159	5795	18.41	17.85	17.29	17.11	235.281	23.72	23.98	Pass

Note: Directional gain = $6\text{dBi} + 10\log(4) = 12.02\text{dBi} > 6\text{dBi}$, so the power limit shall be reduced to $30 - (12.02 - 6) = 23.98\text{dBm}$.

802.11ax (HE80)

Chan.	Freq. (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	13.41	14.27	13.27	13.27	91.122	19.60	23.98	Pass
155	5775	14.29	14.64	14.74	13.66	108.972	20.37	23.98	Pass

Note: Directional gain = $6\text{dBi} + 10\log(4) = 12.02\text{dBi} > 6\text{dBi}$, so the power limit shall be reduced to $30 - (12.02 - 6) = 23.98\text{dBm}$.

Test Mode I (External antenna + Eth7 Radio)

802.11a

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
36	5180	18.40	16.80	117.046	20.68	30.00	Pass
40	5200	23.12	21.47	345.397	25.38	30.00	Pass
48	5240	20.32	18.88	184.915	22.67	30.00	Pass
149	5745	23.24	21.35	347.321	25.41	30.00	Pass
157	5785	23.10	21.33	340.005	25.31	30.00	Pass
165	5825	22.85	21.20	324.578	25.11	30.00	Pass

802.11ax (HE20)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
36	5180	17.99	16.23	104.927	20.21	30.00	Pass
40	5200	22.10	20.49	274.125	24.38	30.00	Pass
48	5240	20.58	18.91	192.092	22.84	30.00	Pass
149	5745	23.28	21.35	349.272	25.43	30.00	Pass
157	5785	23.22	21.30	344.790	25.38	30.00	Pass
165	5825	23.08	21.32	338.755	25.30	30.00	Pass

802.11ax (HE40)

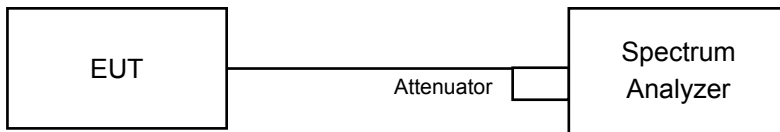
Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
38	5190	16.14	14.75	70.969	18.51	30.00	Pass
46	5230	19.73	18.55	165.586	22.19	30.00	Pass
151	5755	23.00	21.36	336.299	25.27	30.00	Pass
159	5795	23.12	21.23	337.855	25.29	30.00	Pass

802.11ax (HE80)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
42	5210	16.07	14.77	70.450	18.48	30.00	Pass
155	5775	18.98	17.05	129.767	21.13	30.00	Pass

4.4 Occupied Bandwidth Measurement

4.4.1 Test Setup



4.4.2 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.4.3 Test Procedure

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

4.4.4 Test Result

Test Mode A (Internal antenna + Eth6 Radio)

802.11a

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
36	5180	17.16	17.28	17.04	17.04
40	5200	17.16	17.64	17.16	17.28
48	5240	17.16	17.52	17.28	17.40
149	5745	27.74	28.00	37.05	33.74
157	5785	28.08	28.32	42.12	35.40
165	5825	27.00	35.04	36.84	34.20

802.11ax (HE20)

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
36	5180	19.08	19.20	19.08	19.20
40	5200	19.32	19.32	19.32	19.32
48	5240	19.32	19.32	19.32	19.32
149	5745	28.44	36.00	36.84	28.26
157	5785	28.92	37.20	37.08	28.80
165	5825	27.48	36.00	37.80	30.12

802.11ax (HE40)

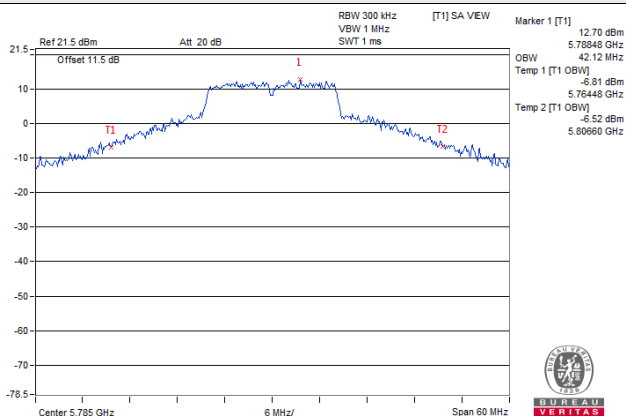
Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
38	5190	37.80	37.80	37.80	37.80
46	5230	37.80	37.92	38.04	37.80
151	5755	45.00	48.36	47.16	45.36
159	5795	46.44	48.72	46.92	44.16

802.11ax (HE80)

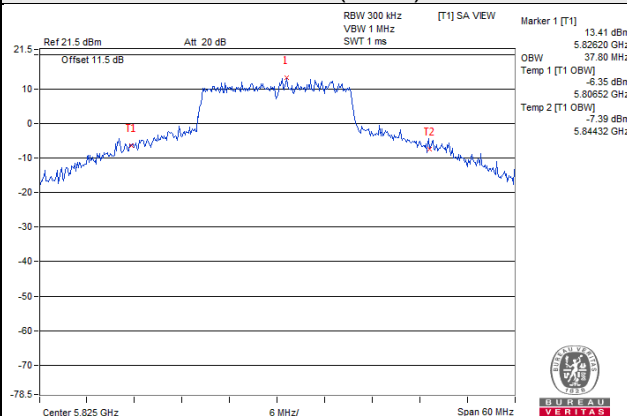
Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
42	5210	77.04	77.04	77.04	77.04
155	5775	77.28	77.76	77.39	83.52

Spectrum Plot of Worst Value

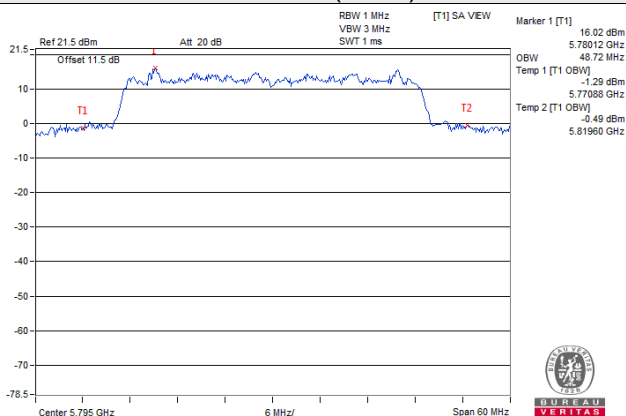
802.11a



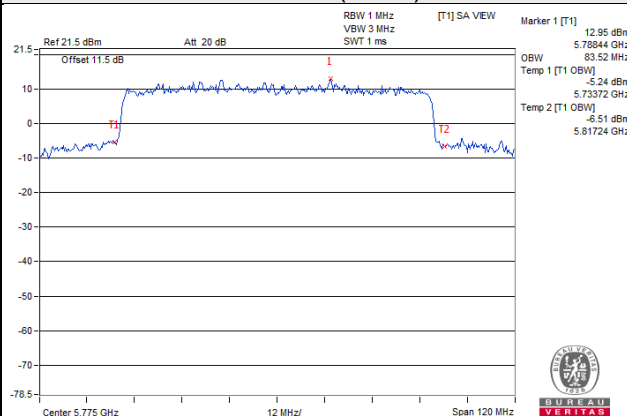
802.11ax (HE20)



802.11ax (HE40)



802.11ax (HE80)



Test Mode C (Internal antenna + Eth7 Radio)

802.11a

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	17.16	16.92
40	5200	26.64	21.84
48	5240	18.12	17.40
149	5745	30.60	22.56
157	5785	29.52	19.92
165	5825	30.60	19.32

802.11ax (HE20)

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	19.20	19.20
40	5200	22.80	19.56
48	5240	19.68	19.08
149	5745	32.76	23.88
157	5785	31.44	19.92
165	5825	31.92	19.80

802.11ax (HE40)

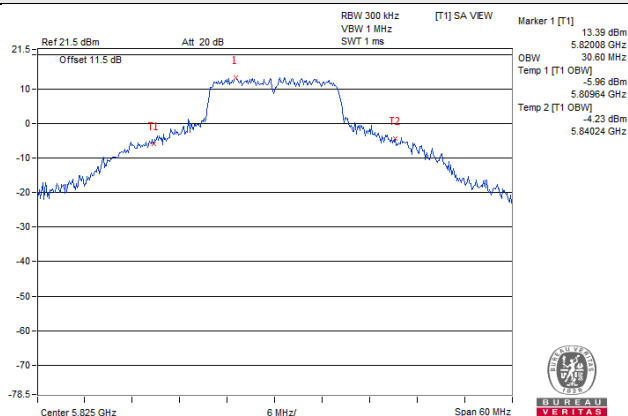
Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
38	5190	37.80	37.80
46	5230	38.04	37.80
151	5755	45.00	38.40
159	5795	44.28	38.16

802.11ax (HE80)

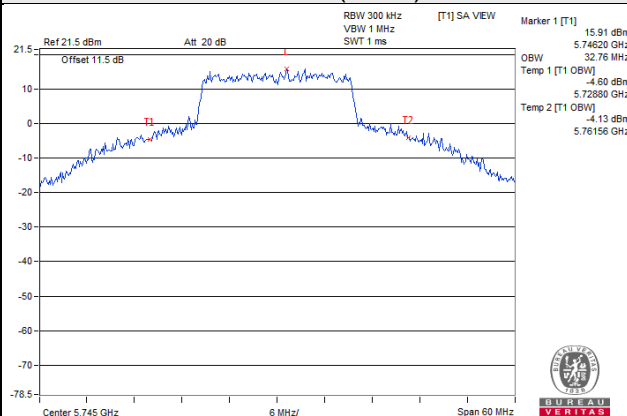
Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
42	5210	77.28	77.28
155	5775	77.76	77.28

Spectrum Plot of Worst Value

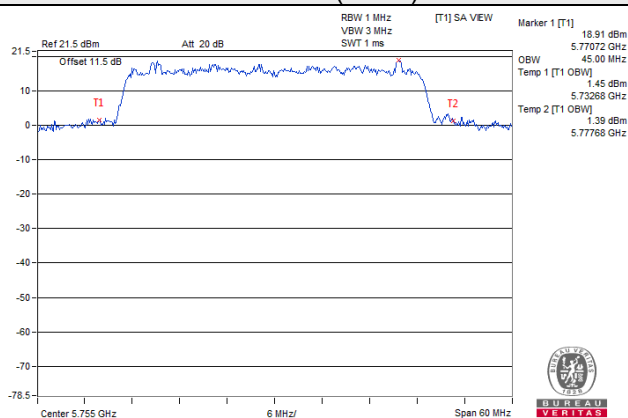
802.11a



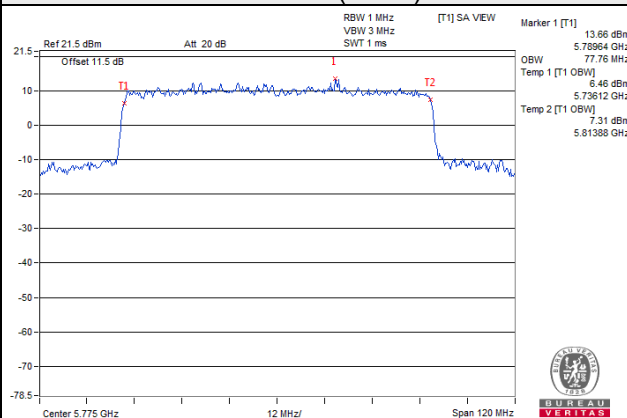
802.11ax (HE20)



802.11ax (HE40)



802.11ax (HE80)



Test Mode E (Internal antenna + Eth8 Radio)

802.11a

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
149	5745	21.56	24.61	26.26	22.87
157	5785	21.60	26.04	26.64	22.92
165	5825	20.40	24.36	25.92	21.72

802.11ax (HE20)

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
149	5745	21.84	26.09	23.22	23.28
157	5785	21.72	26.64	24.12	22.92
165	5825	20.40	23.28	21.60	22.20

802.11ax (HE40)

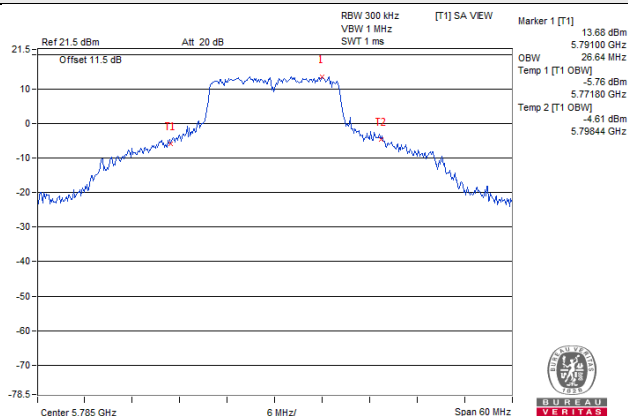
Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
151	5755	38.44	38.52	38.96	38.52
159	5795	38.40	38.52	38.64	38.52

802.11ax (HE80)

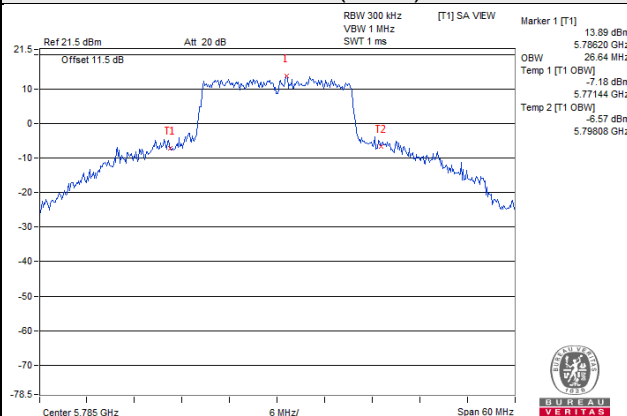
Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
155	5775	77.28	77.28	77.22	77.28

Spectrum Plot of Worst Value

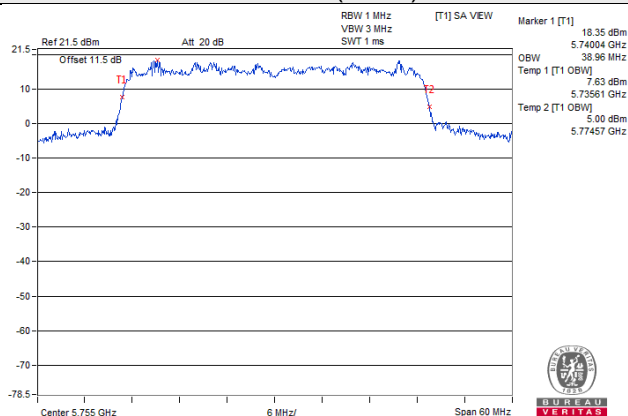
802.11a



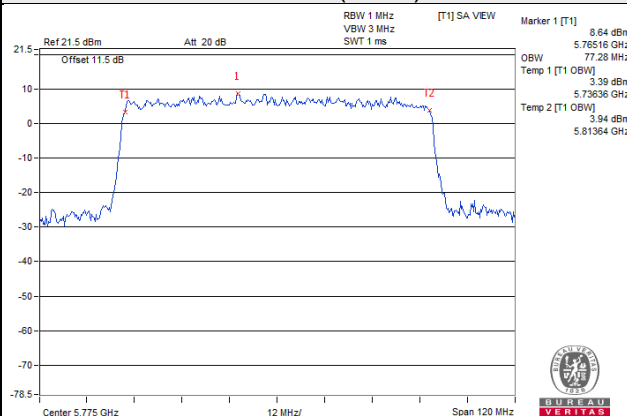
802.11ax (HE20)



802.11ax (HE40)



802.11ax (HE80)



Test Mode G (External antenna + Eth6 Radio)

802.11a

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
36	5180	17.16	17.28	17.04	17.04
40	5200	17.16	17.64	17.16	17.28
48	5240	17.16	17.52	17.28	17.40
149	5745	27.74	28.00	37.05	33.74
157	5785	28.08	28.32	42.12	35.40
165	5825	27.00	35.04	36.84	34.20

802.11ax (HE20)

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
36	5180	19.08	19.20	19.08	19.20
40	5200	19.32	19.32	19.32	19.32
48	5240	19.32	19.32	19.32	19.32
149	5745	28.44	36.00	36.84	28.26
157	5785	28.92	37.20	37.08	28.80
165	5825	27.48	36.00	37.80	30.12

802.11ax (HE40)

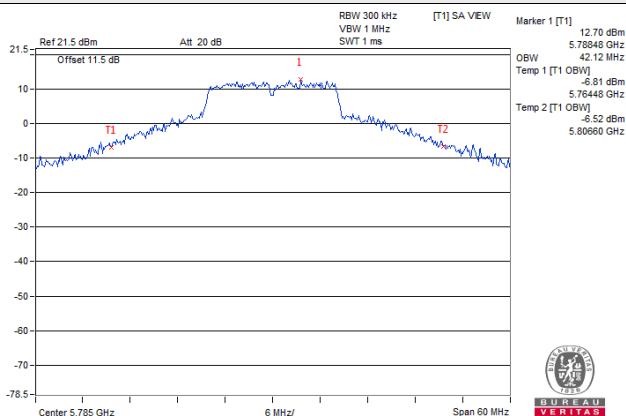
Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
38	5190	37.80	37.80	37.80	37.80
46	5230	37.80	37.92	38.04	37.80
151	5755	45.00	48.36	47.16	45.36
159	5795	46.44	48.72	46.92	44.16

802.11ax (HE80)

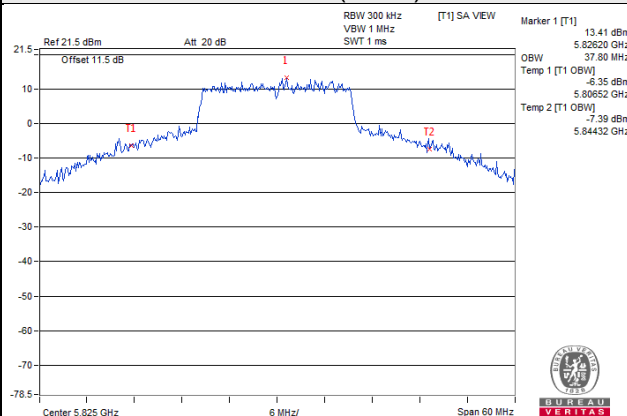
Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
42	5210	77.04	77.04	77.04	77.04
155	5775	77.28	77.76	77.39	83.52

Spectrum Plot of Worst Value

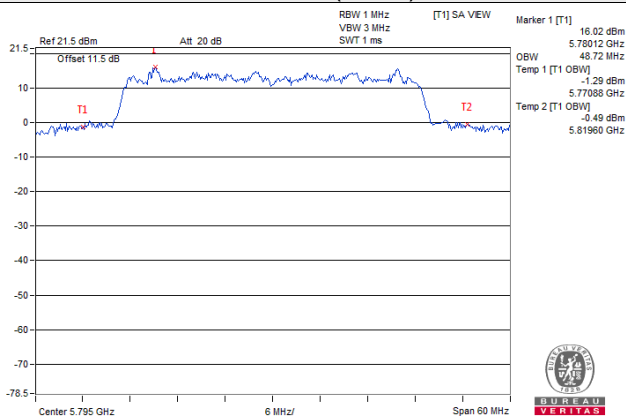
802.11a



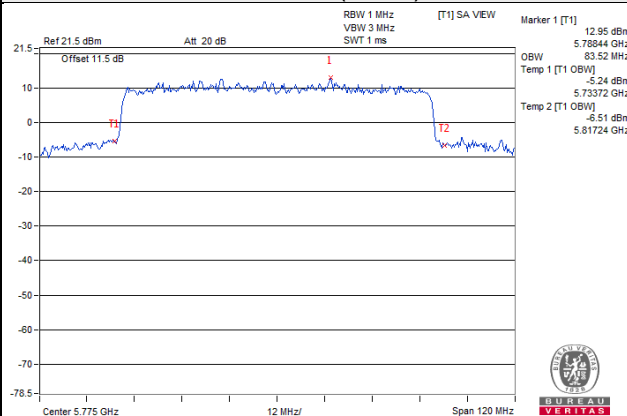
802.11ax (HE20)



802.11ax (HE40)



802.11ax (HE80)



Test Mode I (External antenna + Eth7 Radio)

802.11a

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	17.16	16.92
40	5200	26.64	21.84
48	5240	18.12	17.40
149	5745	30.60	22.56
157	5785	29.52	19.92
165	5825	30.60	19.32

802.11ax (HE20)

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	19.20	19.20
40	5200	22.80	19.56
48	5240	19.68	19.08
149	5745	32.76	23.88
157	5785	31.44	19.92
165	5825	31.92	19.80

802.11ax (HE40)

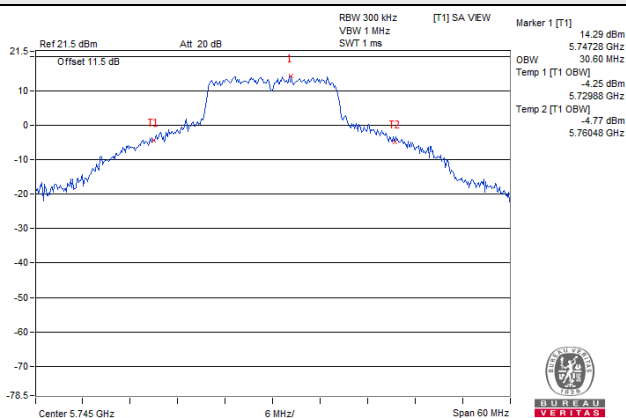
Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
38	5190	37.80	37.80
46	5230	38.04	37.80
151	5755	45.00	38.40
159	5795	44.28	38.16

802.11ax (HE80)

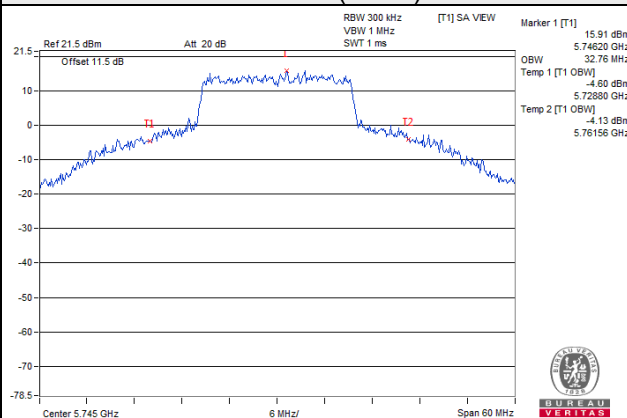
Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
42	5210	77.28	77.28
155	5775	77.76	77.28

Spectrum Plot of Worst Value

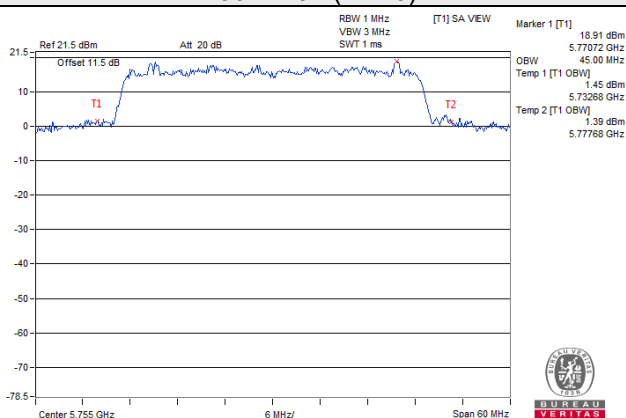
802.11a



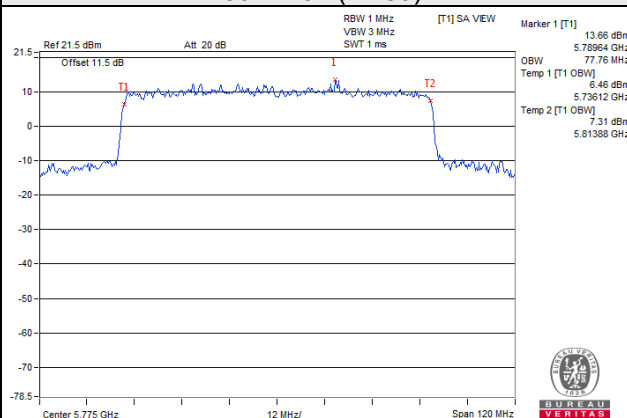
802.11ax (HE20)



802.11ax (HE40)



802.11ax (HE80)

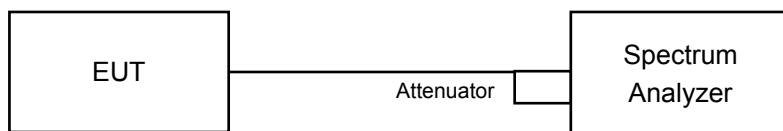


4.5 Peak Power Spectral Density Measurement

4.5.1 Limits of Peak Power Spectral Density Measurement

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

4.5.2 Test Setup



4.5.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.5.4 Test Procedures

For U-NII-1 band:

Using method SA-2

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

For U-NII-3 band:

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 300 kHz, Set VBW ≥ 1 MHz, Detector = RMS
- Use the peak marker function to determine the maximum power level in any 300 kHz band segment within the fundamental EBW.
- 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 $BWCF = 10\log(500 \text{ kHz} / 300 \text{ kHz})$
- Sweep time = auto, trigger set to “free run”.
- Trace average at least 100 traces in power averaging mode.
- Record the max value and add 10 log (1/duty cycle)

4.5.5 Deviation from Test Standard

No deviation.

4.5.6 EUT Operating Conditions

Same as 4.3.6.

4.5.7 Test Results

Test Mode A (Internal antenna + Eth6 Radio)

For U-NII-1 band:

802.11a

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)				Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	1.31	3.01	1.46	1.83	0.48	8.46	11.55	Pass
40	5200	2.96	4.91	3.33	2.85	0.48	10.10	11.55	Pass
48	5240	2.60	4.39	2.91	3.18	0.48	9.83	11.55	Pass

Note:

1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/4] = 11.45\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $17-(11.45-6) = 11.55\text{dBm}$.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE20)

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)				Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	1.47	2.52	1.55	1.60	0.29	8.12	11.55	Pass
40	5200	3.48	4.28	2.82	3.44	0.29	9.85	11.55	Pass
48	5240	2.72	3.90	3.00	2.95	0.29	9.48	11.55	Pass

Note:

1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/4] = 11.45\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $17-(11.45-6) = 11.55\text{dBm}$.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE40)

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)				Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
38	5190	-3.54	-2.32	-3.93	-3.98	0.24	2.87	11.55	Pass
46	5230	0.63	1.52	1.34	0.80	0.24	7.35	11.55	Pass

Note:

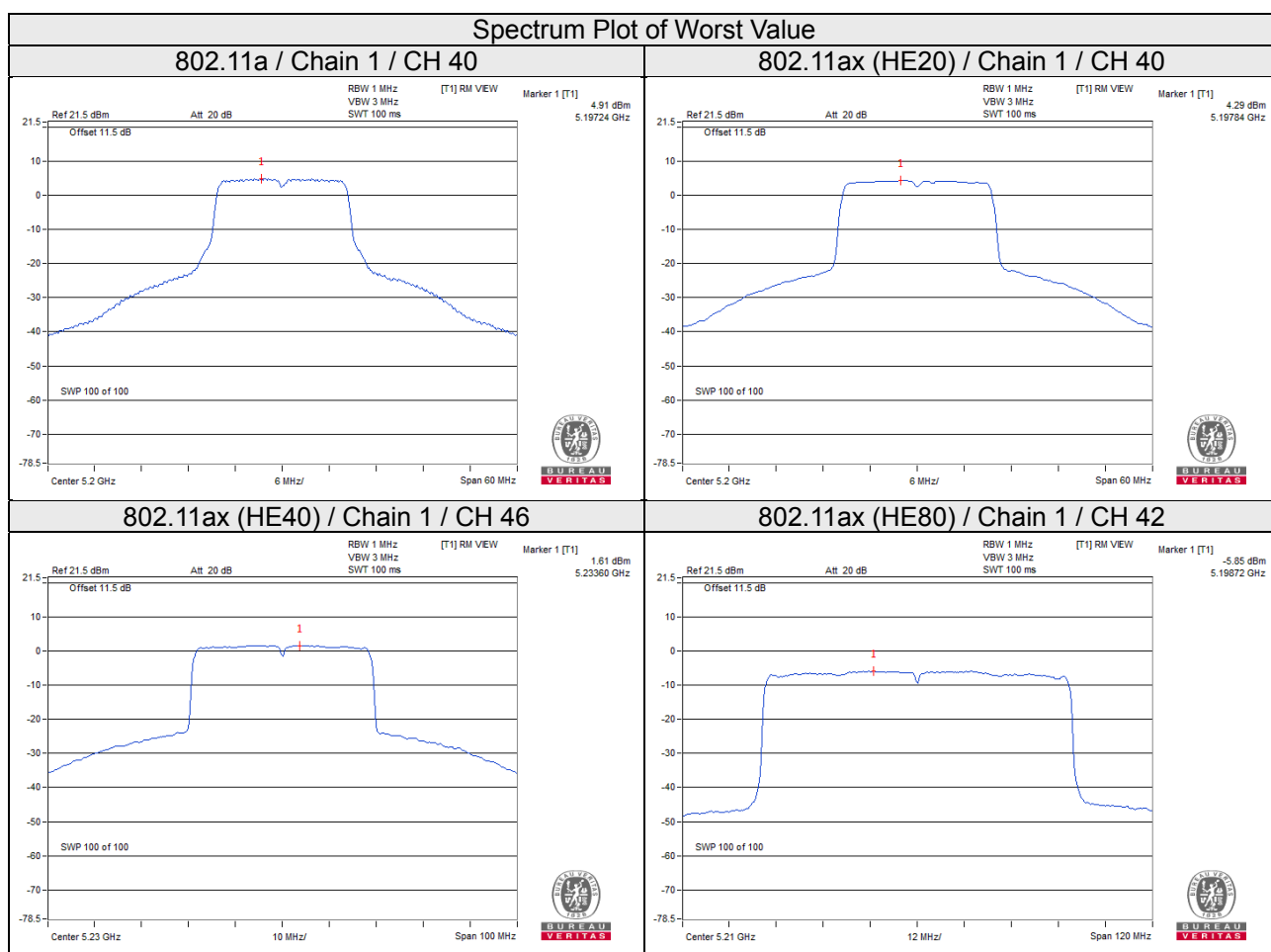
1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/4] = 11.45\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $17-(11.45-6) = 11.55\text{dBm}$.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE80)

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)				Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
42	5210	-6.93	-5.85	-6.55	-6.97	0.33	-0.20	11.55	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 = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/4] = 11.45\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $17 - (11.45 - 6) = 11.55\text{dBm}$.
- Refer to section 3.3 for duty cycle spectrum plot.



For U-NII-3 band:

802.11a

TX chain	Chan.	Freq. (MHz)	PSD w/o Duty Factor		10 log (N=4) dB	Duty Factor (dB)	Total PSD with Duty Factor (dBm/500kHz)	Limit (dBm/500 kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	149	5745	-1.32	0.90	6.02	0.48	7.40	24.55	Pass
	157	5785	-1.59	0.63	6.02	0.48	7.13	24.55	Pass
	165	5825	-1.29	0.93	6.02	0.48	7.43	24.55	Pass
1	149	5745	-1.26	0.96	6.02	0.48	7.46	24.55	Pass
	157	5785	-1.41	0.81	6.02	0.48	7.31	24.55	Pass
	165	5825	-1.36	0.86	6.02	0.48	7.36	24.55	Pass
2	149	5745	-1.33	0.89	6.02	0.48	7.39	24.55	Pass
	157	5785	-1.07	1.15	6.02	0.48	7.65	24.55	Pass
	165	5825	-1.04	1.18	6.02	0.48	7.68	24.55	Pass
3	149	5745	-1.30	0.92	6.02	0.48	7.42	24.55	Pass
	157	5785	-1.52	0.70	6.02	0.48	7.20	24.55	Pass
	165	5825	-1.56	0.66	6.02	0.48	7.16	24.55	Pass

Note:

1. Method 3 of power density measurement of KDB 662911 is using for calculating total power density, Measure and add $10 \log (N_{ANT})$ dB.
2. Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/4] = 11.45\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $30 - (11.45 - 6) = 24.55\text{dBm}$.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE20)

TX chain	Chan.	Freq. (MHz)	PSD w/o Duty Factor		10 log (N=4) dB	Duty Factor (dB)	Total PSD with Duty Factor (dBm/500kHz)	Limit (dBm/500 kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	149	5745	-2.54	-0.32	6.02	0.29	5.99	24.55	Pass
	157	5785	-2.49	-0.27	6.02	0.29	6.04	24.55	Pass
	165	5825	-2.47	-0.25	6.02	0.29	6.06	24.55	Pass
1	149	5745	-2.46	-0.24	6.02	0.29	6.07	24.55	Pass
	157	5785	-2.78	-0.56	6.02	0.29	5.75	24.55	Pass
	165	5825	-2.76	-0.54	6.02	0.29	5.77	24.55	Pass
2	149	5745	-2.72	-0.50	6.02	0.29	5.81	24.55	Pass
	157	5785	-2.77	-0.55	6.02	0.29	5.76	24.55	Pass
	165	5825	-2.29	-0.07	6.02	0.29	6.24	24.55	Pass
3	149	5745	-2.29	-0.07	6.02	0.29	6.24	24.55	Pass
	157	5785	-2.71	-0.49	6.02	0.29	5.82	24.55	Pass
	165	5825	-2.63	-0.41	6.02	0.29	5.90	24.55	Pass

Note:

1. Method 3 of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N_{ANT}) dB.
2. Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/4] = 11.45\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $30 - (11.45 - 6) = 24.55\text{dBm}$.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE40)

TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=4) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	151	5755	-4.74	-2.52	6.02	0.24	3.74	24.55	Pass
	159	5795	-4.71	-2.49	6.02	0.24	3.77	24.55	Pass
1	151	5755	-5.56	-3.34	6.02	0.24	2.92	24.55	Pass
	159	5795	-5.86	-3.64	6.02	0.24	2.62	24.55	Pass
2	151	5755	-5.94	-3.72	6.02	0.24	2.54	24.55	Pass
	159	5795	-6.04	-3.82	6.02	0.24	2.44	24.55	Pass
3	151	5755	-4.54	-2.32	6.02	0.24	3.94	24.55	Pass
	159	5795	-5.21	-2.99	6.02	0.24	3.27	24.55	Pass

Note:

1. Method 3 of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N_{ANT}) dB.
2. Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/4] = 11.45\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $30 - (11.45 - 6) = 24.55\text{dBm}$.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE80)

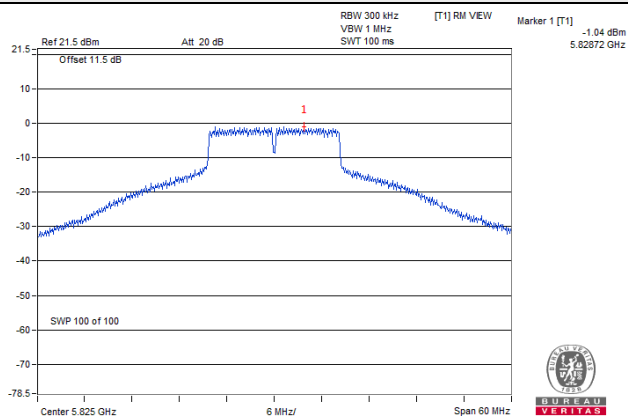
TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=4) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	155	5775	-12.45	-10.23	6.02	0.33	-3.88	24.55	Pass
1	155	5775	-12.30	-10.08	6.02	0.33	-3.73	24.55	Pass
2	155	5775	-13.17	-10.95	6.02	0.33	-4.60	24.55	Pass
3	155	5775	-8.05	-5.83	6.02	0.33	0.52	24.55	Pass

Note:

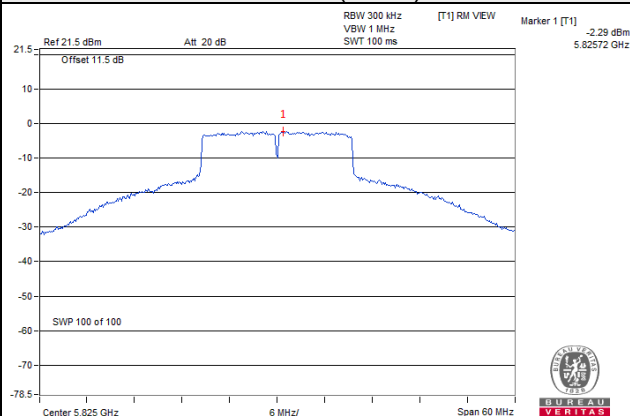
1. Method 3 of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N_{ANT}) dB.
2. Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/4] = 11.45\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $30 - (11.45 - 6) = 24.55\text{dBm}$.
3. Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

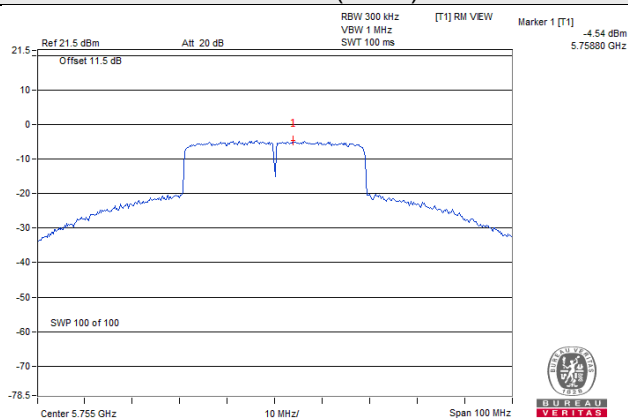
802.11a



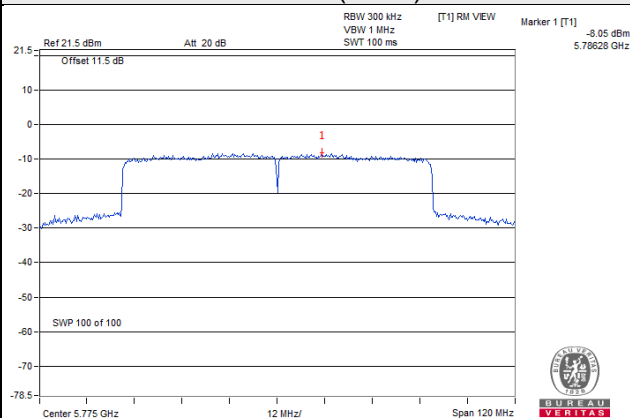
802.11ax (HE20)



802.11ax (HE40)



802.11ax (HE80)



Test Mode C (Internal antenna + Eth7 Radio)

For U-NII-1 band:

802.11a

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
36	5180	5.09	3.25	0.24	7.52	14.54	Pass
40	5200	9.51	7.79	0.24	11.98	14.54	Pass
48	5240	5.87	3.19	0.24	7.98	14.54	Pass

Note:

1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 8.46\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $17-(8.46-6) = 14.54\text{dBm}$.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE20)

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
36	5180	4.49	3.00	0.19	7.01	14.54	Pass
40	5200	8.31	6.58	0.19	10.73	14.54	Pass
48	5240	4.92	2.34	0.19	7.02	14.54	Pass

Note:

1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 8.46\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $17-(8.46-6) = 14.54\text{dBm}$.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE40)

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
38	5190	-0.41	-2.00	0.18	2.06	14.54	Pass
46	5230	3.65	1.91	0.18	6.06	14.54	Pass

Note:

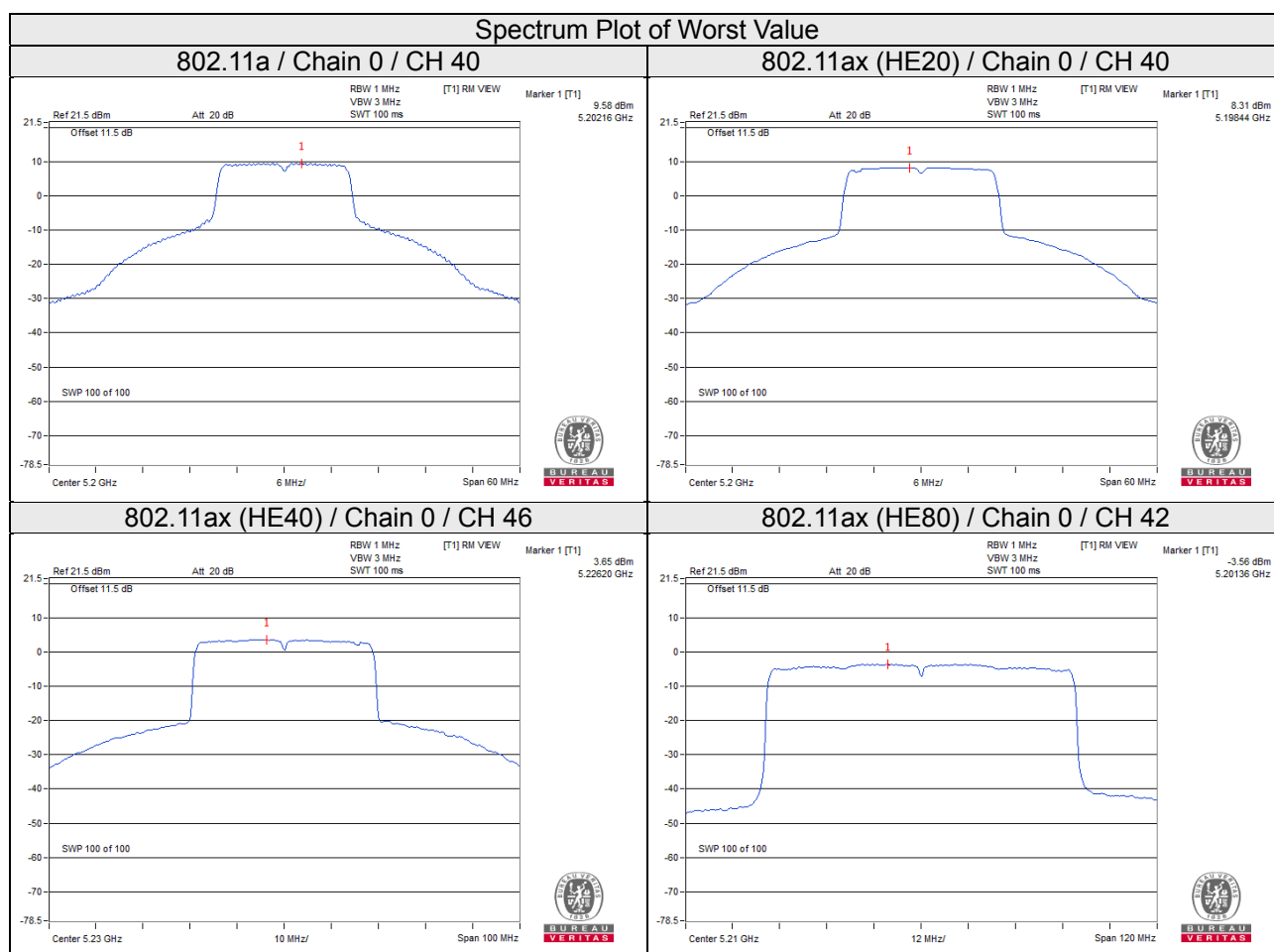
1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 8.46\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $17-(8.46-6) = 14.54\text{dBm}$.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE80)

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
42	5210	-3.58	-4.61	0.42	-0.63	14.54	Pass

Note:

1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 8.46\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $17 - (8.46 - 6) = 14.54\text{dBm}$.
3. Refer to section 3.3 for duty cycle spectrum plot.



For U-NII-3 band:

802.11a

TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	149	5745	1.42	3.64	3.01	0.24	6.89	27.54	Pass
	157	5785	0.98	3.20	3.01	0.24	6.45	27.54	Pass
	165	5825	0.53	2.75	3.01	0.24	6.00	27.54	Pass
1	149	5745	0.15	2.37	3.01	0.24	5.62	27.54	Pass
	157	5785	-0.12	2.10	3.01	0.24	5.35	27.54	Pass
	165	5825	-0.27	1.95	3.01	0.24	5.20	27.54	Pass

Note:

1. Method 3 of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N_{ANT}) dB.
2. Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 8.46\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $30 - (8.46 - 6) = 27.54\text{dBm}$.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE20)

TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	149	5745	0.27	2.49	3.01	0.19	5.69	27.54	Pass
	157	5785	0.24	2.46	3.01	0.19	5.66	27.54	Pass
	165	5825	-0.49	1.73	3.01	0.19	4.93	27.54	Pass
1	149	5745	-1.11	1.11	3.01	0.19	4.31	27.54	Pass
	157	5785	-1.35	0.87	3.01	0.19	4.07	27.54	Pass
	165	5825	-1.27	0.95	3.01	0.19	4.15	27.54	Pass

Note:

1. Method 3 of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N_{ANT}) dB.
2. Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 8.46\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $30 - (8.46 - 6) = 27.54\text{dBm}$.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE40)

TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	151	5755	-2.62	-0.40	3.01	0.18	2.79	27.54	Pass
	159	5795	-2.74	-0.52	3.01	0.18	2.67	27.54	Pass
1	151	5755	-4.16	-1.94	3.01	0.18	1.25	27.54	Pass
	159	5795	-4.31	-2.09	3.01	0.18	1.10	27.54	Pass

Note:

1. Method 3 of power density measurement of KDB 662911 is using for calculating total power density, Measure and add $10 \log (N_{ANT})$ dB.
2. Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 8.46\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $30 - (8.46 - 6) = 27.54\text{dBm}$.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE80)

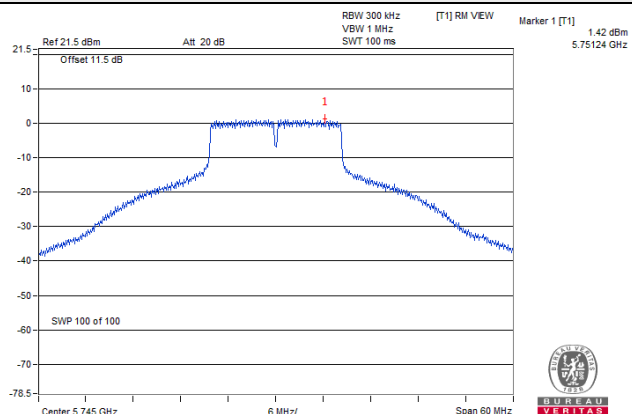
TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	155	5775	-7.82	-5.60	3.01	0.42	-2.17	27.54	Pass
1	155	5775	-10.66	-8.44	3.01	0.42	-5.01	27.54	Pass

Note:

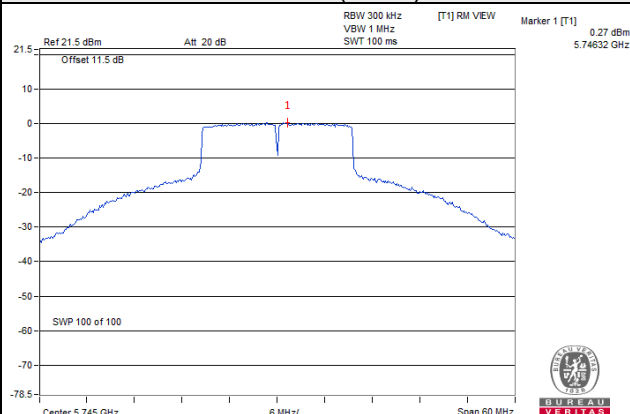
1. Method 3 of power density measurement of KDB 662911 is using for calculating total power density, Measure and add $10 \log (N_{ANT})$ dB.
2. Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 8.46\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $30 - (8.46 - 6) = 27.54\text{dBm}$.
3. Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

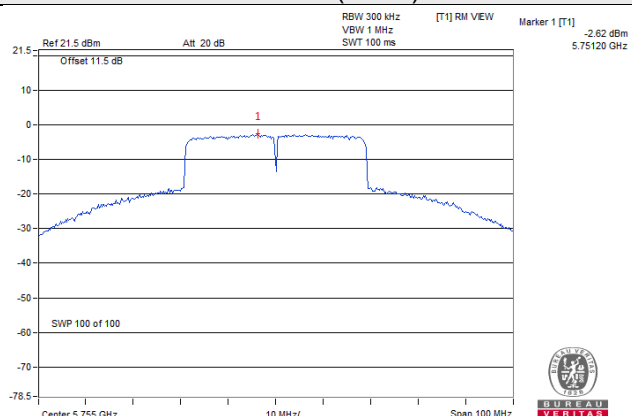
802.11a



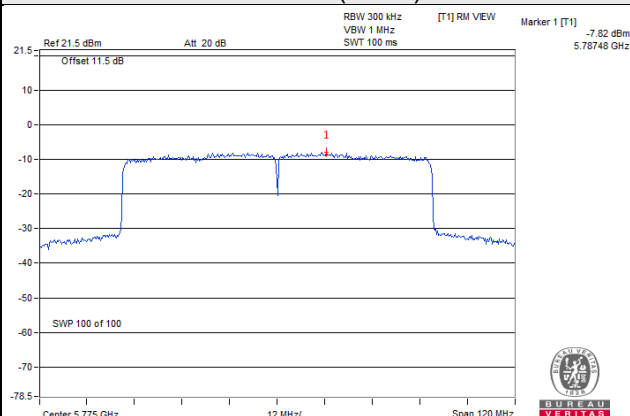
802.11ax (HE20)



802.11ax (HE40)



802.11ax (HE80)



Test Mode E (Internal antenna + Eth8 Radio)

For U-NII-3 band:

802.11a

TX chain	Chan.	Freq. (MHz)	PSD w/o Duty Factor		10 log (N=4) dB	Duty Factor (dB)	Total PSD with Duty Factor (dBm/500kHz)	Limit (dBm/500 kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	149	5745	-0.37	1.85	6.02	0.29	8.16	25.04	Pass
	157	5785	-0.18	2.04	6.02	0.29	8.35	25.04	Pass
	165	5825	-0.58	1.64	6.02	0.29	7.95	25.04	Pass
1	149	5745	-0.31	1.91	6.02	0.29	8.22	25.04	Pass
	157	5785	0.65	2.87	6.02	0.29	9.18	25.04	Pass
	165	5825	-0.75	1.47	6.02	0.29	7.78	25.04	Pass
2	149	5745	0.92	3.14	6.02	0.29	9.45	25.04	Pass
	157	5785	0.92	3.14	6.02	0.29	9.45	25.04	Pass
	165	5825	0.52	2.74	6.02	0.29	9.05	25.04	Pass
3	149	5745	0.36	2.58	6.02	0.29	8.89	25.04	Pass
	157	5785	0.45	2.67	6.02	0.29	8.98	25.04	Pass
	165	5825	0.34	2.56	6.02	0.29	8.87	25.04	Pass

Note:

1. Method 3 of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N_{ANT}) dB.
2. Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/4] = 10.96\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $30 - (10.96 - 6) = 25.04\text{dBm}$.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE20)

TX chain	Chan.	Freq. (MHz)	PSD w/o Duty Factor		10 log (N=4) dB	Duty Factor (dB)	Total PSD with Duty Factor (dBm/500kHz)	Limit (dBm/500 kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	149	5745	-1.51	0.71	6.02	0.10	6.83	25.04	Pass
	157	5785	-1.48	0.74	6.02	0.10	6.86	25.04	Pass
	165	5825	-1.82	0.40	6.02	0.10	6.52	25.04	Pass
1	149	5745	-0.46	1.76	6.02	0.10	7.88	25.04	Pass
	157	5785	-1.34	0.88	6.02	0.10	7.00	25.04	Pass
	165	5825	-2.05	0.17	6.02	0.10	6.29	25.04	Pass
2	149	5745	-0.32	1.90	6.02	0.10	8.02	25.04	Pass
	157	5785	-0.27	1.95	6.02	0.10	8.07	25.04	Pass
	165	5825	-0.58	1.64	6.02	0.10	7.76	25.04	Pass
3	149	5745	-0.71	1.51	6.02	0.10	7.63	25.04	Pass
	157	5785	-0.60	1.62	6.02	0.10	7.74	25.04	Pass
	165	5825	-0.80	1.42	6.02	0.10	7.54	25.04	Pass

Note:

1. Method 3 of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N_{ANT}) dB.
2. Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/4] = 10.96\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $30 - (10.96 - 6) = 25.04\text{dBm}$.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE40)

TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=4) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	151	5755	-4.50	-2.28	6.02	0.17	3.91	25.04	Pass
	159	5795	-4.01	-1.79	6.02	0.17	4.40	25.04	Pass
1	151	5755	-4.92	-2.70	6.02	0.17	3.49	25.04	Pass
	159	5795	-3.81	-1.59	6.02	0.17	4.60	25.04	Pass
2	151	5755	-3.23	-1.01	6.02	0.17	5.18	25.04	Pass
	159	5795	-3.56	-1.34	6.02	0.17	4.85	25.04	Pass
3	151	5755	-3.81	-1.59	6.02	0.17	4.60	25.04	Pass
	159	5795	-3.71	-1.49	6.02	0.17	4.70	25.04	Pass

Note:

1. Method 3 of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N_{ANT}) dB.
2. Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/4] = 10.96\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $30 - (10.96 - 6) = 25.04\text{dBm}$.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE80)

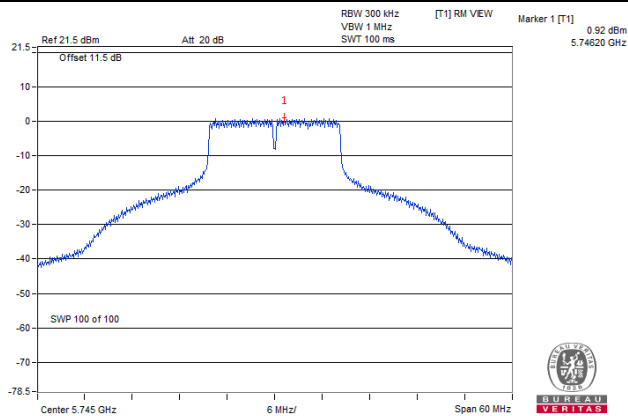
TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=4) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	155	5775	-11.82	-9.60	6.02	0.35	-3.23	25.04	Pass
1	155	5775	-10.50	-8.28	6.02	0.35	-1.91	25.04	Pass
2	155	5775	-10.93	-8.71	6.02	0.35	-2.34	25.04	Pass
3	155	5775	-10.55	-8.33	6.02	0.35	-1.96	25.04	Pass

Note:

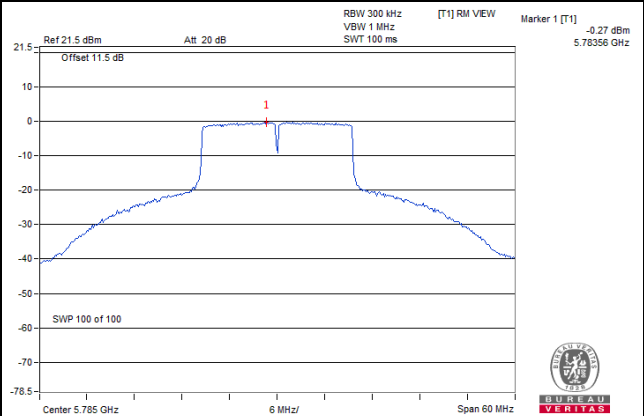
1. Method 3 of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N_{ANT}) dB.
2. Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/4] = 10.96\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $30 - (10.96 - 6) = 25.04\text{dBm}$.
3. Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

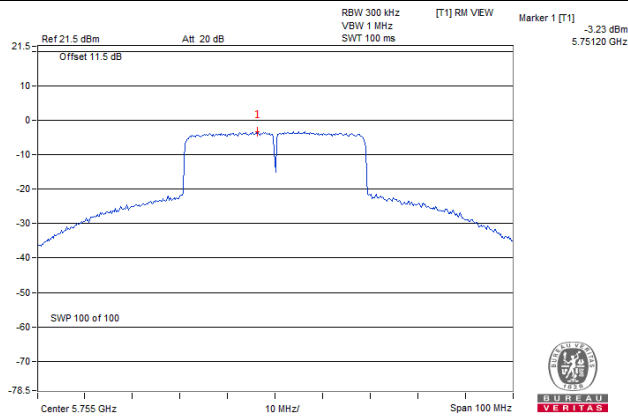
802.11a



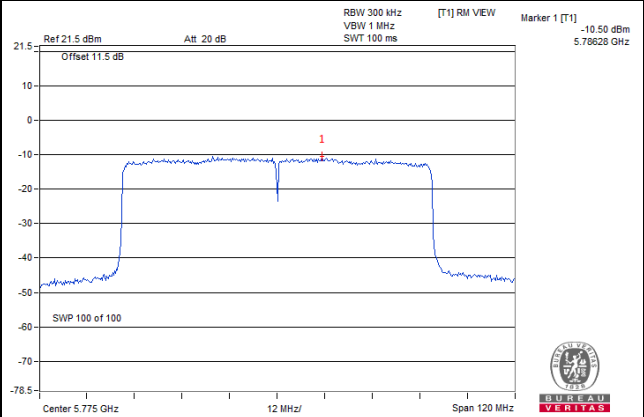
802.11ax (HE20)



802.11ax (HE40)



802.11ax (HE80)



Test Mode G (External antenna + Eth6 Radio)

For U-NII-1 band:

802.11a

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)				Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	1.31	3.01	1.46	1.83	0.48	8.46	10.98	Pass
40	5200	2.96	4.91	3.33	2.85	0.48	10.10	10.98	Pass
48	5240	2.60	4.39	2.91	3.18	0.48	9.83	10.98	Pass

Note:

1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = $6\text{dBi} + 10\log(4) = 12.02\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $17 - (12.02 - 6) = 10.98\text{dBm}$.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE20)

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)				Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	1.47	2.52	1.55	1.60	0.29	8.12	10.98	Pass
40	5200	3.48	4.28	2.82	3.44	0.29	9.85	10.98	Pass
48	5240	2.72	3.90	3.00	2.95	0.29	9.48	10.98	Pass

Note:

1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = $6\text{dBi} + 10\log(4) = 12.02\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $17 - (12.02 - 6) = 10.98\text{dBm}$.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE40)

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)				Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
38	5190	-3.54	-2.32	-3.93	-3.98	0.24	2.87	10.98	Pass
46	5230	0.63	1.52	1.34	0.80	0.24	7.35	10.98	Pass

Note:

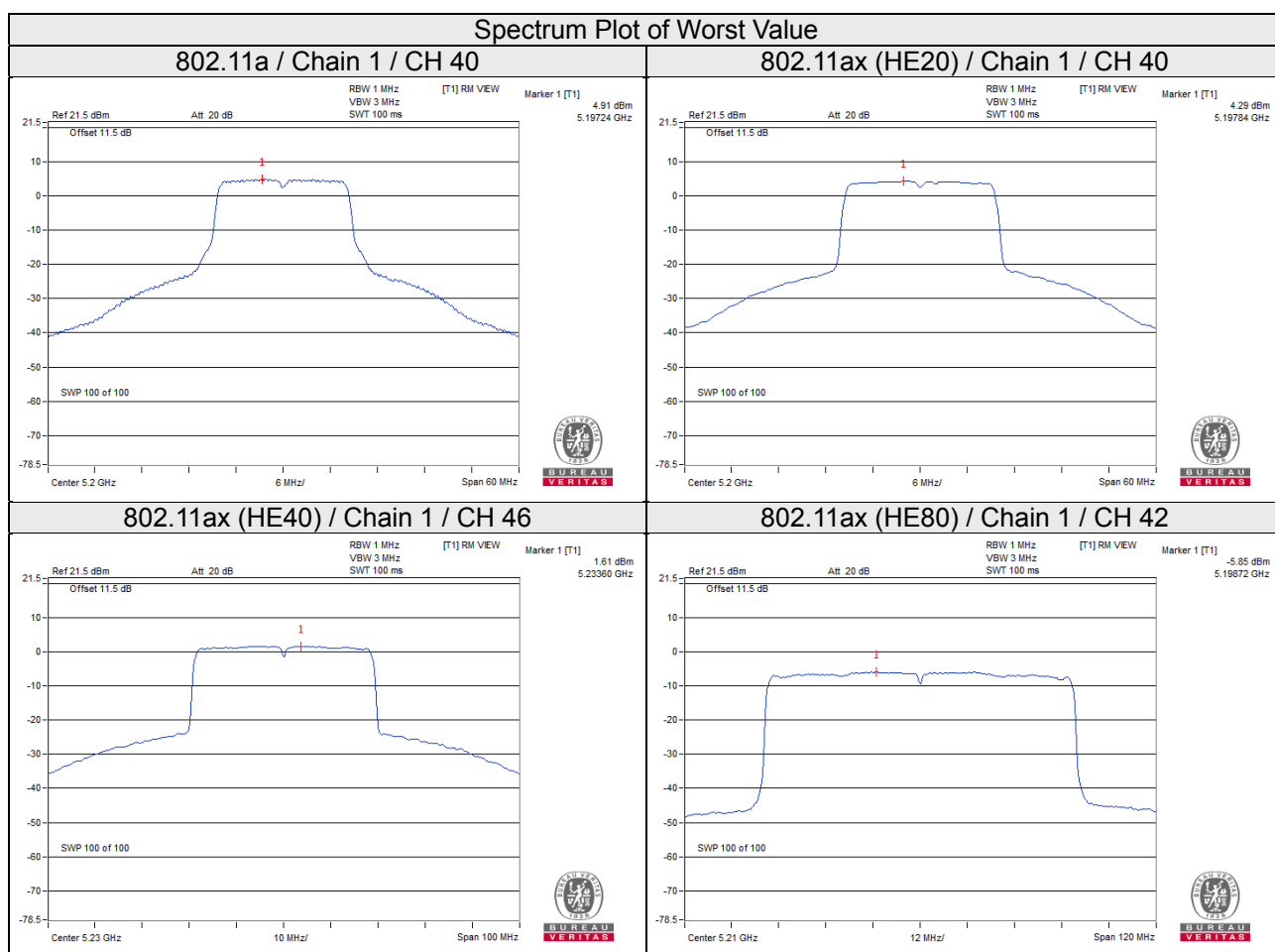
1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = $6\text{dBi} + 10\log(4) = 12.02\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $17 - (12.02 - 6) = 10.98\text{dBm}$.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE80)

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)				Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
42	5210	-6.93	-5.85	-6.55	-6.97	0.33	-0.20	10.98	Pass

Note:

1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = $6\text{dBi} + 10\log(4) = 12.02\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $17 - (12.02 - 6) = 10.98\text{dBm}$.
3. Refer to section 3.3 for duty cycle spectrum plot.



For U-NII-3 band:

802.11a

TX chain	Chan.	Freq. (MHz)	PSD w/o Duty Factor		10 log (N=4) dB	Duty Factor (dB)	Total PSD with Duty Factor (dBm/500kHz)	Limit (dBm/500 kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	149	5745	-1.32	0.90	6.02	0.48	7.40	23.98	Pass
	157	5785	-1.59	0.63	6.02	0.48	7.13	23.98	Pass
	165	5825	-1.29	0.93	6.02	0.48	7.43	23.98	Pass
1	149	5745	-1.26	0.96	6.02	0.48	7.46	23.98	Pass
	157	5785	-1.41	0.81	6.02	0.48	7.31	23.98	Pass
	165	5825	-1.36	0.86	6.02	0.48	7.36	23.98	Pass
2	149	5745	-1.33	0.89	6.02	0.48	7.39	23.98	Pass
	157	5785	-1.07	1.15	6.02	0.48	7.65	23.98	Pass
	165	5825	-1.04	1.18	6.02	0.48	7.68	23.98	Pass
3	149	5745	-1.30	0.92	6.02	0.48	7.42	23.98	Pass
	157	5785	-1.52	0.70	6.02	0.48	7.20	23.98	Pass
	165	5825	-1.56	0.66	6.02	0.48	7.16	23.98	Pass

Note:

1. Method 3 of power density measurement of KDB 662911 is using for calculating total power density, Measure and add $10 \log (N_{ANT})$ dB.
2. Directional gain = $6\text{dBi} + 10\log(4) = 12.02\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $30 - (12.02 - 6) = 23.98\text{dBm}$.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE20)

TX chain	Chan.	Freq. (MHz)	PSD w/o Duty Factor		10 log (N=4) dB	Duty Factor (dB)	Total PSD with Duty Factor (dBm/500kHz)	Limit (dBm/500 kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	149	5745	-2.54	-0.32	6.02	0.29	5.99	23.98	Pass
	157	5785	-2.49	-0.27	6.02	0.29	6.04	23.98	Pass
	165	5825	-2.47	-0.25	6.02	0.29	6.06	23.98	Pass
1	149	5745	-2.46	-0.24	6.02	0.29	6.07	23.98	Pass
	157	5785	-2.78	-0.56	6.02	0.29	5.75	23.98	Pass
	165	5825	-2.76	-0.54	6.02	0.29	5.77	23.98	Pass
2	149	5745	-2.72	-0.50	6.02	0.29	5.81	23.98	Pass
	157	5785	-2.77	-0.55	6.02	0.29	5.76	23.98	Pass
	165	5825	-2.29	-0.07	6.02	0.29	6.24	23.98	Pass
3	149	5745	-2.29	-0.07	6.02	0.29	6.24	23.98	Pass
	157	5785	-2.71	-0.49	6.02	0.29	5.82	23.98	Pass
	165	5825	-2.63	-0.41	6.02	0.29	5.90	23.98	Pass

Note:

1. Method 3 of power density measurement of KDB 662911 is using for calculating total power density, Measure and add $10 \log (N_{ANT})$ dB.
2. Directional gain = $6\text{dBi} + 10\log(4) = 12.02\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $30 - (12.02 - 6) = 23.98\text{dBm}$.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE40)

TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=4) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	151	5755	-4.74	-2.52	6.02	0.24	3.74	23.98	Pass
	159	5795	-4.71	-2.49	6.02	0.24	3.77	23.98	Pass
1	151	5755	-5.56	-3.34	6.02	0.24	2.92	23.98	Pass
	159	5795	-5.86	-3.64	6.02	0.24	2.62	23.98	Pass
2	151	5755	-5.94	-3.72	6.02	0.24	2.54	23.98	Pass
	159	5795	-6.04	-3.82	6.02	0.24	2.44	23.98	Pass
3	151	5755	-4.54	-2.32	6.02	0.24	3.94	23.98	Pass
	159	5795	-5.21	-2.99	6.02	0.24	3.27	23.98	Pass

Note:

1. Method 3 of power density measurement of KDB 662911 is using for calculating total power density, Measure and add $10 \log (N_{ANT})$ dB.
2. Directional gain = $6\text{dBi} + 10\log(4) = 12.02\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $30 - (12.02 - 6) = 23.98\text{dBm}$.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE80)

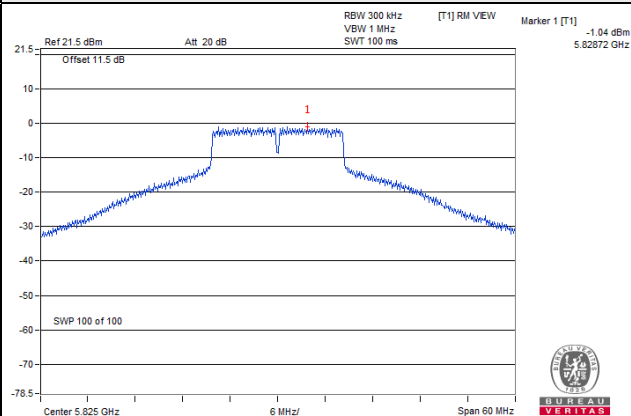
TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=4) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	155	5775	-12.45	-10.23	6.02	0.33	-3.88	23.98	Pass
1	155	5775	-12.30	-10.08	6.02	0.33	-3.73	23.98	Pass
2	155	5775	-13.17	-10.95	6.02	0.33	-4.60	23.98	Pass
3	155	5775	-8.05	-5.83	6.02	0.33	0.52	23.98	Pass

Note:

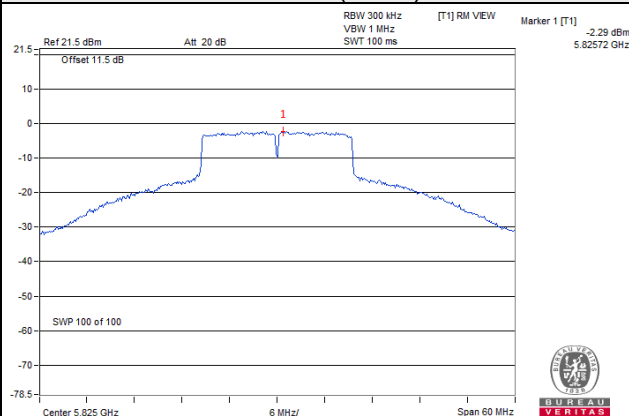
1. Method 3 of power density measurement of KDB 662911 is using for calculating total power density, Measure and add $10 \log (N_{ANT})$ dB.
2. Directional gain = $6\text{dBi} + 10\log(4) = 12.02\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $30 - (12.02 - 6) = 23.98\text{dBm}$.
3. Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

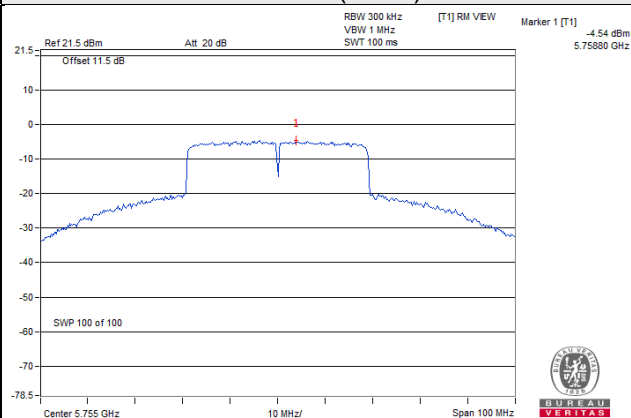
802.11a



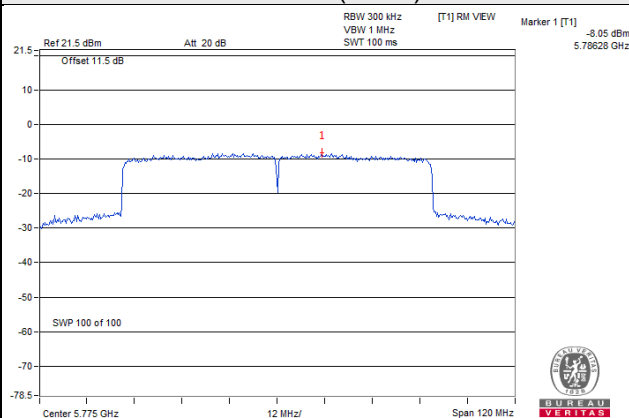
802.11ax (HE20)



802.11ax (HE40)



802.11ax (HE80)



Test Mode I (External antenna + Eth7 Radio)

For U-NII-1 band:

802.11a

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
36	5180	5.09	3.25	0.24	7.52	13.99	Pass
40	5200	9.51	7.79	0.24	11.98	13.99	Pass
48	5240	5.87	3.19	0.24	7.98	13.99	Pass

Note:

1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = $6\text{dBi} + 10\log(2) = 9.01\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $17-(9.01-6) = 13.99\text{dBm}$.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE20)

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
36	5180	4.49	3.00	0.19	7.01	13.99	Pass
40	5200	8.31	6.58	0.19	10.73	13.99	Pass
48	5240	4.92	2.34	0.19	7.02	13.99	Pass

Note:

1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = $6\text{dBi} + 10\log(2) = 9.01\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $17-(9.01-6) = 13.99\text{dBm}$.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE40)

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
38	5190	-0.41	-2.00	0.18	2.06	13.99	Pass
46	5230	3.65	1.91	0.18	6.06	13.99	Pass

Note:

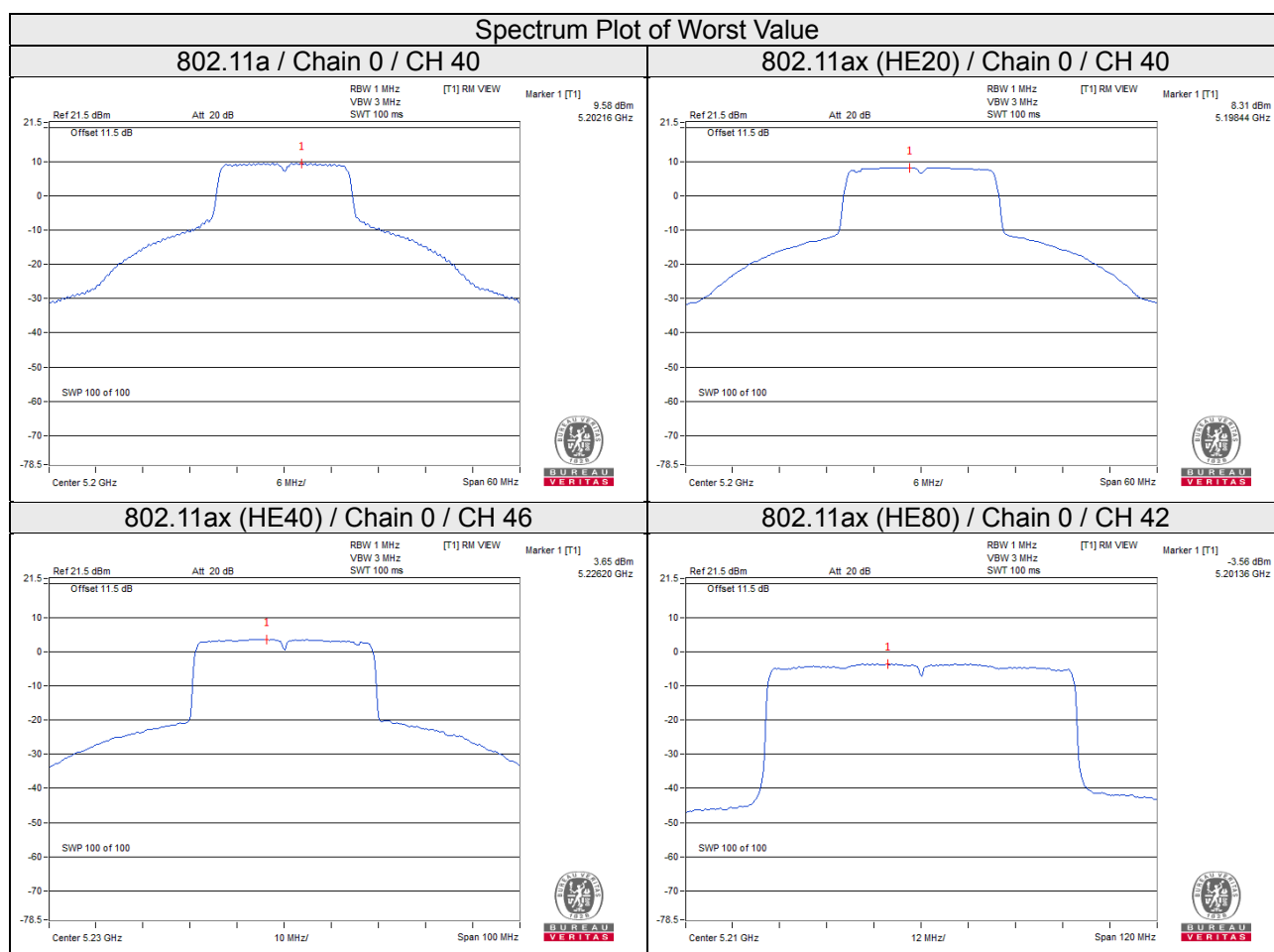
1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = $6\text{dBi} + 10\log(2) = 9.01\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $17-(9.01-6) = 13.99\text{dBm}$.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE80)

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
42	5210	-3.58	-4.61	0.42	-0.63	13.99	Pass

Note:

1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = $6\text{dBi} + 10\log(2) = 9.01\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $17-(9.01-6) = 13.99\text{dBm}$.
3. Refer to section 3.3 for duty cycle spectrum plot.



For U-NII-3 band:

802.11a

TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	149	5745	1.42	3.64	3.01	0.24	6.89	26.99	Pass
	157	5785	0.98	3.20	3.01	0.24	6.45	26.99	Pass
	165	5825	0.53	2.75	3.01	0.24	6.00	26.99	Pass
1	149	5745	0.15	2.37	3.01	0.24	5.62	26.99	Pass
	157	5785	-0.12	2.10	3.01	0.24	5.35	26.99	Pass
	165	5825	-0.27	1.95	3.01	0.24	5.20	26.99	Pass

Note:

1. Method 3 of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N_{ANT}) dB.
2. Directional gain = 6dBi + 10log(2) = 9.01dBi > 6dBi, so the power density limit shall be reduced to 30-(9.01-6) = 26.99dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE20)

TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	149	5745	0.27	2.49	3.01	0.19	5.69	26.99	Pass
	157	5785	0.24	2.46	3.01	0.19	5.66	26.99	Pass
	165	5825	-0.49	1.73	3.01	0.19	4.93	26.99	Pass
1	149	5745	-1.11	1.11	3.01	0.19	4.31	26.99	Pass
	157	5785	-1.35	0.87	3.01	0.19	4.07	26.99	Pass
	165	5825	-1.27	0.95	3.01	0.19	4.15	26.99	Pass

Note:

1. Method 3 of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N_{ANT}) dB.
2. Directional gain = 6dBi + 10log(2) = 9.01dBi > 6dBi, so the power density limit shall be reduced to 30-(9.01-6) = 26.99dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE40)

TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	151	5755	-2.62	-0.40	3.01	0.18	2.79	26.99	Pass
	159	5795	-2.74	-0.52	3.01	0.18	2.67	26.99	Pass
1	151	5755	-4.16	-1.94	3.01	0.18	1.25	26.99	Pass
	159	5795	-4.31	-2.09	3.01	0.18	1.10	26.99	Pass

Note:

1. Method 3 of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N_{ANT}) dB.
2. Directional gain = 6dBi + 10log(2) = 9.01dBi > 6dBi, so the power density limit shall be reduced to 30-(9.01-6) = 26.99dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE80)

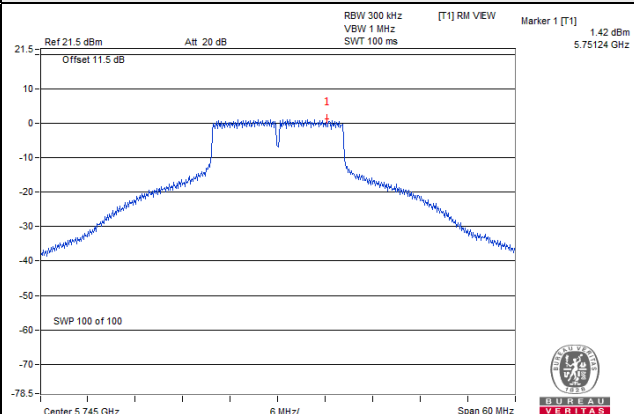
TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	155	5775	-7.82	-5.60	3.01	0.42	-2.17	26.99	Pass
1	155	5775	-10.66	-8.44	3.01	0.42	-5.01	26.99	Pass

Note:

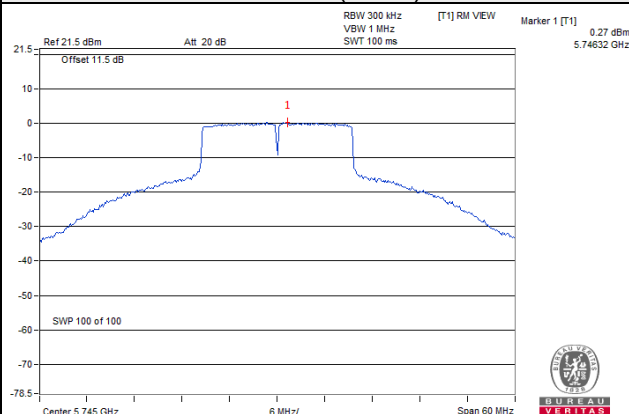
1. Method 3 of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N_{ANT}) dB.
2. Directional gain = 6dBi + 10log(2) = 9.01dBi > 6dBi, so the power density limit shall be reduced to 30-(9.01-6) = 26.99dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

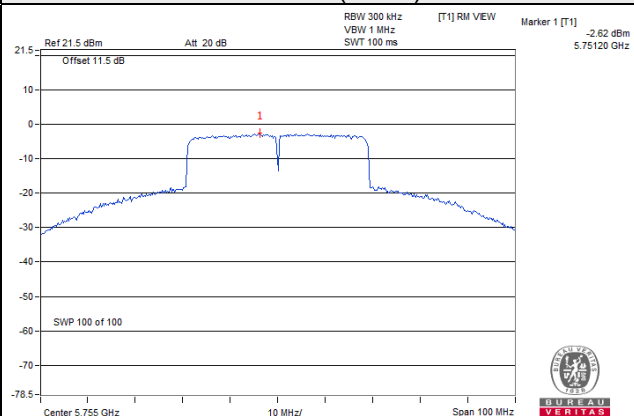
802.11a



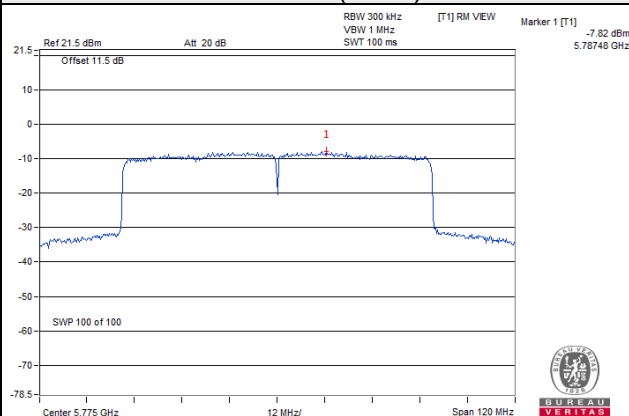
802.11ax (HE20)



802.11ax (HE40)



802.11ax (HE80)

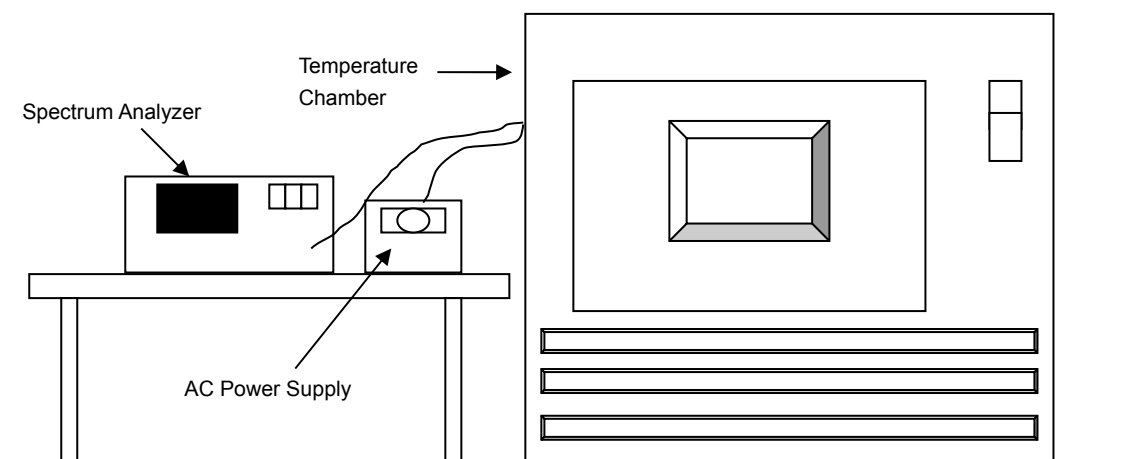


4.6 Frequency Stability

4.6.1 Limits of Frequency Stability Measurement

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

4.6.2 Test Setup



4.6.3 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100039	Jun. 11, 2018	Jun. 10, 2019
WIT Standard Temperature And Humidity Chamber	TH-4S-C	W981030	Jun. 04, 2018	Jun. 03, 2019
Digital Multimeter Fluke	87-III	70360742	Jun. 29, 2018	Jun. 28, 2019
AC Power Supply Extech	CFW-105	E000603	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.

4.6.4 Test Procedure

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

4.6.5 Deviation from Test Standard

No deviation.

4.6.6 EUT Operating Condition

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

4.6.7 Test Results

Test Mode A (Internal antenna + Eth6 Radio)

Frequency Stability Versus Temp.									
Operating Frequency: 5180MHz									
Temp. (°C)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result
50	120	5179.9947	Pass	5179.9939	Pass	5179.994	Pass	5179.9932	Pass
40	120	5179.9726	Pass	5179.972	Pass	5179.9741	Pass	5179.972	Pass
30	120	5180.0225	Pass	5180.0251	Pass	5180.0225	Pass	5180.0258	Pass
20	120	5179.9788	Pass	5179.979	Pass	5179.9742	Pass	5179.9775	Pass
10	120	5180.0216	Pass	5180.023	Pass	5180.0196	Pass	5180.0206	Pass
0	120	5179.9831	Pass	5179.9797	Pass	5179.9819	Pass	5179.9787	Pass
-10	120	5179.9861	Pass	5179.9872	Pass	5179.9862	Pass	5179.9886	Pass
-20	120	5180.0262	Pass	5180.0271	Pass	5180.0238	Pass	5180.0226	Pass
-30	120	5180.0224	Pass	5180.0225	Pass	5180.0229	Pass	5180.0234	Pass

Frequency Stability Versus Voltage									
Operating Frequency: 5180MHz									
Temp. (°C)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result
20	138	5179.9788	Pass	5179.9788	Pass	5179.9743	Pass	5179.9782	Pass
	120	5179.9788	Pass	5179.979	Pass	5179.9742	Pass	5179.9775	Pass
	102	5179.9793	Pass	5179.9796	Pass	5179.9745	Pass	5179.977	Pass

Test Mode C (Internal antenna + Eth7 Radio)

Frequency Stability Versus Temp.									
Operating Frequency: 5180MHz									
Temp. (°C)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result
50	120	5180.0054	Pass	5180.0036	Pass	5180.0046	Pass	5180.0078	Pass
40	120	5179.992	Pass	5179.9953	Pass	5179.9925	Pass	5179.995	Pass
30	120	5180.014	Pass	5180.0179	Pass	5180.0171	Pass	5180.014	Pass
20	120	5180.004	Pass	5180.0011	Pass	5179.9995	Pass	5180.0012	Pass
10	120	5180.0181	Pass	5180.0195	Pass	5180.019	Pass	5180.0181	Pass
0	120	5180.0175	Pass	5180.0149	Pass	5180.0163	Pass	5180.0157	Pass
-10	120	5180.0198	Pass	5180.0221	Pass	5180.023	Pass	5180.0187	Pass
-20	120	5179.9777	Pass	5179.9738	Pass	5179.9737	Pass	5179.9758	Pass
-30	120	5180.0105	Pass	5180.0123	Pass	5180.0103	Pass	5180.0093	Pass

Frequency Stability Versus Voltage									
Operating Frequency: 5180MHz									
Temp. (°C)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result
20	138	5180.0043	Pass	5180.0021	Pass	5180.0002	Pass	5180.0015	Pass
	120	5180.004	Pass	5180.0011	Pass	5179.9995	Pass	5180.0012	Pass
	102	5180.0049	Pass	5180.0012	Pass	5179.9985	Pass	5180.0003	Pass

Test Mode E (Internal antenna + Eth8 Radio)

Frequency Stability Versus Temp.									
Operating Frequency: 5745MHz									
Temp. (°C)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result
50	120	5744.9935	Pass	5744.9977	Pass	5744.9954	Pass	5744.9927	Pass
40	120	5744.9988	Pass	5744.9964	Pass	5744.995	Pass	5744.9962	Pass
30	120	5744.9916	Pass	5744.995	Pass	5744.9948	Pass	5744.9899	Pass
20	120	5745.0237	Pass	5745.0237	Pass	5745.0245	Pass	5745.0221	Pass
10	120	5745.0262	Pass	5745.0253	Pass	5745.0243	Pass	5745.0254	Pass
0	120	5745.0132	Pass	5745.0153	Pass	5745.0141	Pass	5745.0137	Pass
-10	120	5745.0235	Pass	5745.0223	Pass	5745.0209	Pass	5745.0238	Pass
-20	120	5744.9995	Pass	5744.999	Pass	5744.9994	Pass	5744.9983	Pass
-30	120	5745.007	Pass	5745.0075	Pass	5745.0022	Pass	5745.0052	Pass

Frequency Stability Versus Voltage									
Operating Frequency: 5745MHz									
Temp. (°C)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result
20	138	5745.024	Pass	5745.0227	Pass	5745.024	Pass	5745.0215	Pass
	120	5745.0237	Pass	5745.0237	Pass	5745.0245	Pass	5745.0221	Pass
	102	5745.0243	Pass	5745.0244	Pass	5745.0237	Pass	5745.0219	Pass

Test Mode G (External antenna + Eth6 Radio)

Frequency Stability Versus Temp.									
Operating Frequency: 5180MHz									
Temp. (°C)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result
50	120	5179.9845	Pass	5179.9856	Pass	5179.986	Pass	5179.9874	Pass
40	120	5180.0065	Pass	5180.0043	Pass	5180.004	Pass	5180.0044	Pass
30	120	5180.0053	Pass	5180.0038	Pass	5180.0038	Pass	5180.0075	Pass
20	120	5180.0205	Pass	5180.018	Pass	5180.0194	Pass	5180.0202	Pass
10	120	5180.0208	Pass	5180.0228	Pass	5180.0182	Pass	5180.021	Pass
0	120	5179.989	Pass	5179.9916	Pass	5179.9892	Pass	5179.99	Pass
-10	120	5179.9782	Pass	5179.9789	Pass	5179.9797	Pass	5179.9798	Pass
-20	120	5179.9914	Pass	5179.9941	Pass	5179.9938	Pass	5179.9943	Pass
-30	120	5179.9967	Pass	5179.9963	Pass	5179.9986	Pass	5179.9967	Pass

Frequency Stability Versus Voltage									
Operating Frequency: 5180MHz									
Temp. (°C)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result
20	138	5180.0207	Pass	5180.0182	Pass	5180.0203	Pass	5180.0203	Pass
	120	5180.0205	Pass	5180.018	Pass	5180.0194	Pass	5180.0202	Pass
	102	5180.0213	Pass	5180.0179	Pass	5180.0193	Pass	5180.021	Pass

Test Mode I (External antenna + Eth7 Radio)

Frequency Stability Versus Temp.									
Operating Frequency: 5180MHz									
Temp. (°C)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result
50	120	5180.0054	Pass	5180.0036	Pass	5180.0046	Pass	5180.0078	Pass
40	120	5179.992	Pass	5179.9953	Pass	5179.9925	Pass	5179.995	Pass
30	120	5180.014	Pass	5180.0179	Pass	5180.0171	Pass	5180.014	Pass
20	120	5180.004	Pass	5180.0011	Pass	5179.9995	Pass	5180.0012	Pass
10	120	5180.0181	Pass	5180.0195	Pass	5180.019	Pass	5180.0181	Pass
0	120	5180.0175	Pass	5180.0149	Pass	5180.0163	Pass	5180.0157	Pass
-10	120	5180.0198	Pass	5180.0221	Pass	5180.023	Pass	5180.0187	Pass
-20	120	5179.9777	Pass	5179.9738	Pass	5179.9737	Pass	5179.9758	Pass
-30	120	5180.0105	Pass	5180.0123	Pass	5180.0103	Pass	5180.0093	Pass

Frequency Stability Versus Voltage									
Operating Frequency: 5180MHz									
Temp. (°C)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result
20	138	5180.0043	Pass	5180.0021	Pass	5180.0002	Pass	5180.0015	Pass
	120	5180.004	Pass	5180.0011	Pass	5179.9995	Pass	5180.0012	Pass
	102	5180.0049	Pass	5180.0012	Pass	5179.9985	Pass	5180.0003	Pass

4.7 6dB Bandwidth Measurement

4.7.1 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is 0.5MHz.

4.7.2 Test Setup



4.7.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.7.4 Test Procedure

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

4.7.5 Deviation from Test Standard

No deviation.

4.7.6 EUT Operating Condition

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

4.7.7 Test Results

Test Mode A (Internal antenna + Eth6 Radio)

802.11a

Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
149	5745	16.38	16.39	16.39	16.40	0.5	Pass
157	5785	16.40	16.43	16.46	16.43	0.5	Pass
165	5825	16.42	16.42	16.43	16.41	0.5	Pass

802.11ax (HE20)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
149	5745	18.92	18.80	18.70	18.86	0.5	Pass
157	5785	18.92	18.77	18.69	18.92	0.5	Pass
165	5825	18.96	18.74	18.62	18.89	0.5	Pass

802.11ax (HE40)

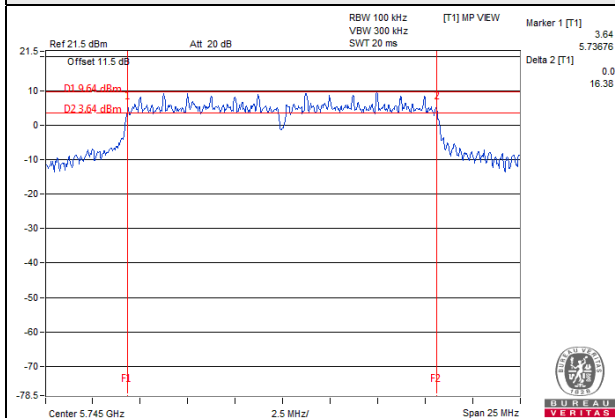
Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
151	5755	37.76	36.47	37.68	37.76	0.5	Pass
159	5795	37.72	36.37	37.68	37.73	0.5	Pass

802.11ax (HE80)

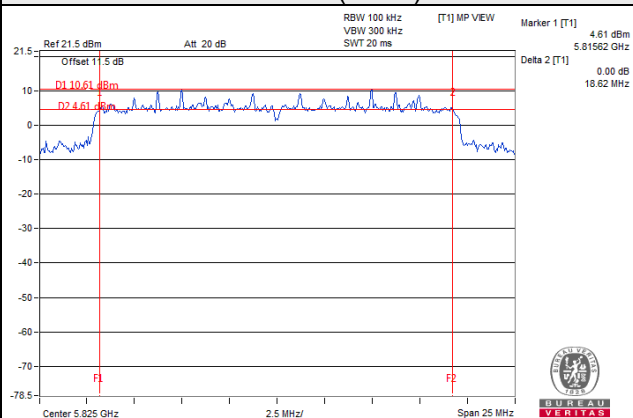
Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
155	5775	77.35	76.14	75.61	76.39	0.5	Pass

Spectrum Plot of Worst Value

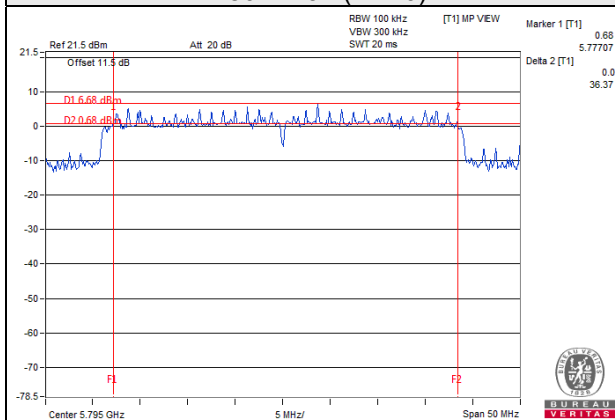
802.11a



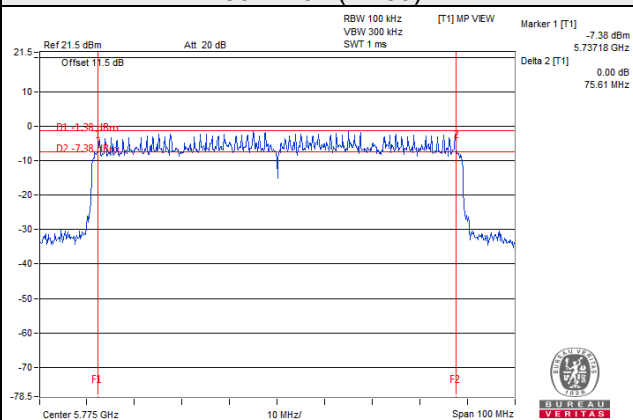
802.11ax (HE20)



802.11ax (HE40)



802.11ax (HE80)



Test Mode C (Internal antenna + Eth7 Radio)

802.11a

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
149	5745	16.38	16.39	0.5	Pass
157	5785	16.38	16.38	0.5	Pass
165	5825	16.39	16.40	0.5	Pass

802.11ax (HE20)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
149	5745	18.57	18.90	0.5	Pass
157	5785	18.75	18.81	0.5	Pass
165	5825	18.77	18.84	0.5	Pass

802.11ax (HE40)

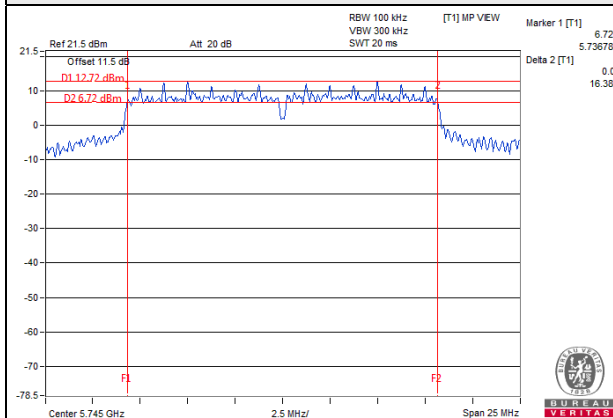
Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
151	5755	37.75	37.74	0.5	Pass
159	5795	37.74	37.65	0.5	Pass

802.11ax (HE80)

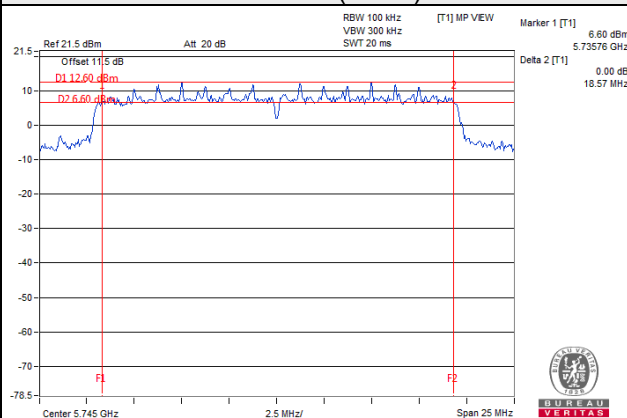
Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
155	5775	76.21	75.75	0.5	Pass

Spectrum Plot of Worst Value

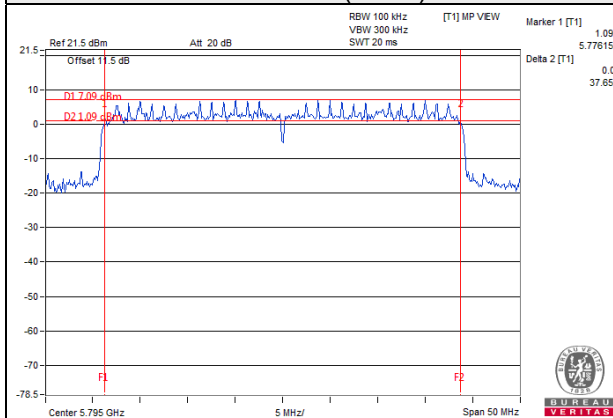
802.11a



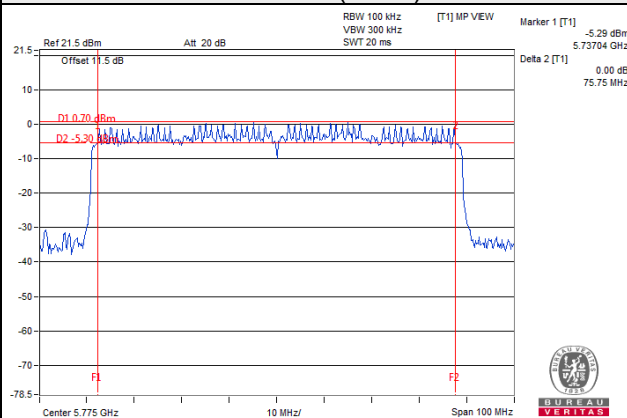
802.11ax (HE20)



802.11ax (HE40)



802.11ax (HE80)



Test Mode E (Internal antenna + Eth8 Radio)

802.11a

Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
149	5745	16.38	16.37	16.37	16.39	0.5	Pass
157	5785	16.40	16.40	16.41	16.41	0.5	Pass
165	5825	16.41	16.39	16.40	16.40	0.5	Pass

802.11ax (HE20)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
149	5745	18.96	18.79	18.80	18.94	0.5	Pass
157	5785	18.97	18.87	18.80	18.95	0.5	Pass
165	5825	18.99	18.83	18.89	18.86	0.5	Pass

802.11ax (HE40)

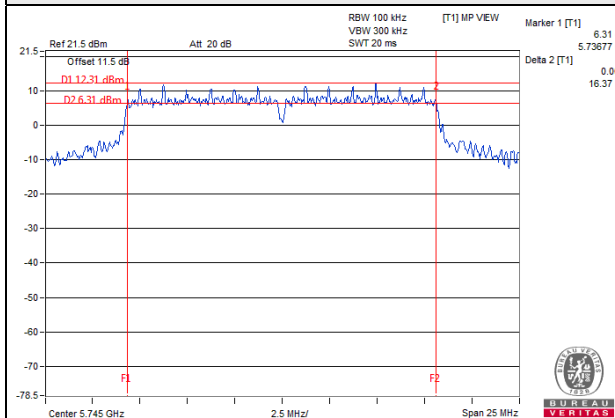
Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
151	5755	37.39	37.44	37.41	36.97	0.5	Pass
159	5795	37.44	37.04	37.44	37.06	0.5	Pass

802.11ax (HE80)

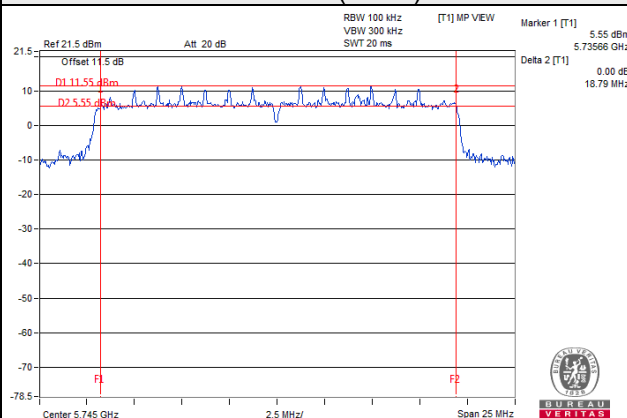
Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
155	5775	77.27	77.46	76.51	76.36	0.5	Pass

Spectrum Plot of Worst Value

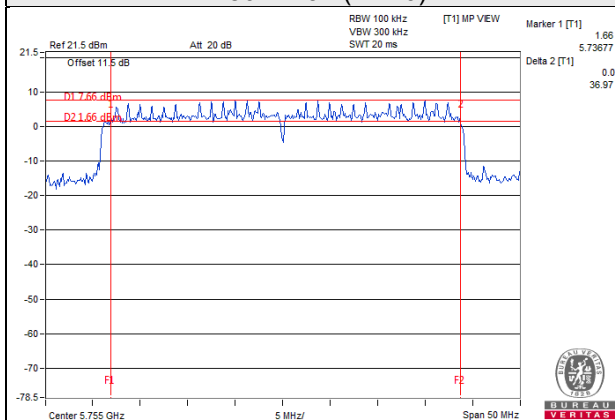
802.11a



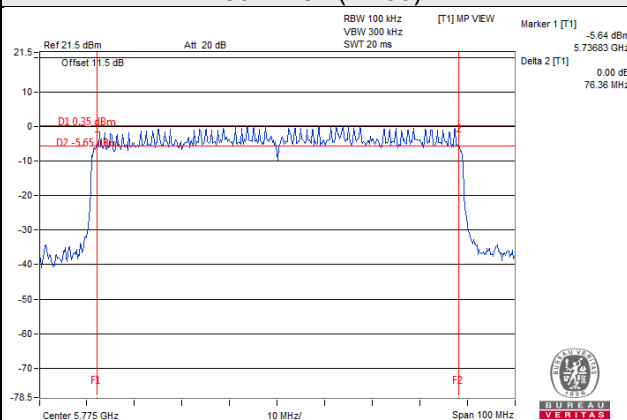
802.11ax (HE20)



802.11ax (HE40)



802.11ax (HE80)



Test Mode G (External antenna + Eth6 Radio)

802.11a

Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
149	5745	16.38	16.39	16.39	16.40	0.5	Pass
157	5785	16.40	16.43	16.46	16.43	0.5	Pass
165	5825	16.42	16.42	16.43	16.41	0.5	Pass

802.11ax (HE20)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
149	5745	18.92	18.80	18.70	18.86	0.5	Pass
157	5785	18.92	18.77	18.69	18.92	0.5	Pass
165	5825	18.96	18.74	18.62	18.89	0.5	Pass

802.11ax (HE40)

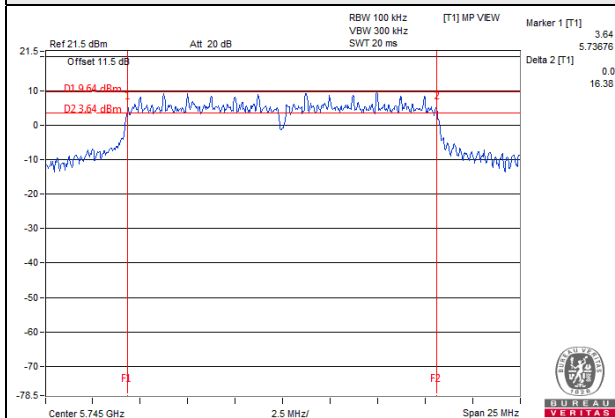
Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
151	5755	37.76	36.47	37.68	37.76	0.5	Pass
159	5795	37.72	36.37	37.68	37.73	0.5	Pass

802.11ax (HE80)

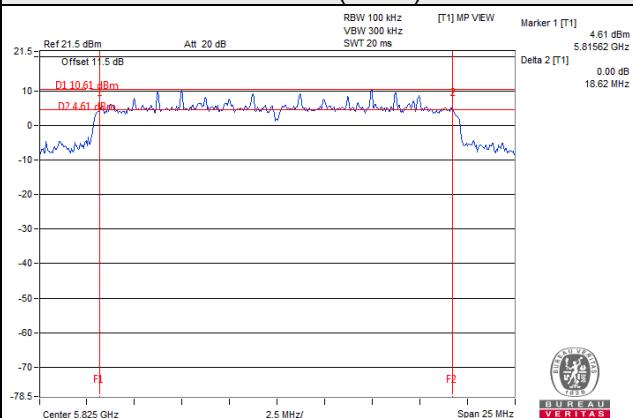
Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
155	5775	77.35	76.14	75.61	76.39	0.5	Pass

Spectrum Plot of Worst Value

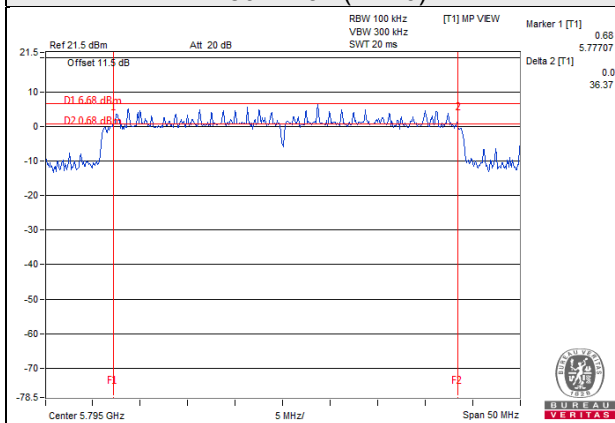
802.11a



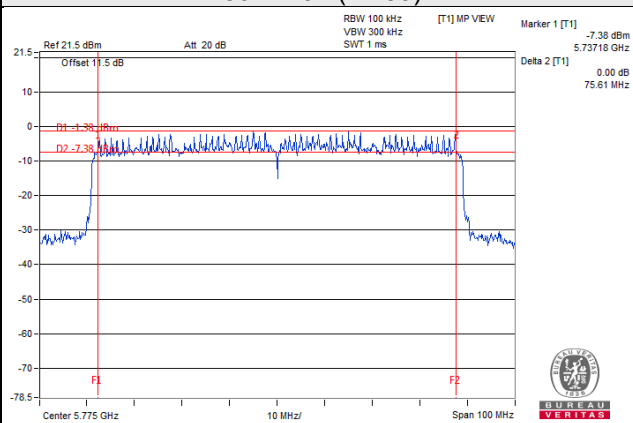
802.11ax (HE20)



802.11ax (HE40)



802.11ax (HE80)



Test Mode I (External antenna + Eth7 Radio)

802.11a

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
149	5745	16.38	16.39	0.5	Pass
157	5785	16.38	16.38	0.5	Pass
165	5825	16.39	16.40	0.5	Pass

802.11ax (HE20)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
149	5745	18.57	18.90	0.5	Pass
157	5785	18.75	18.81	0.5	Pass
165	5825	18.77	18.84	0.5	Pass

802.11ax (HE40)

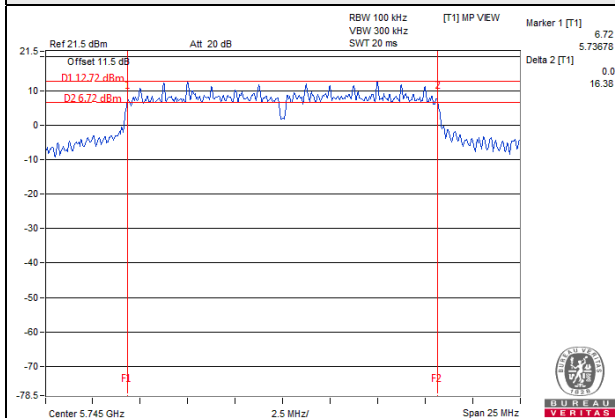
Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
151	5755	37.75	37.74	0.5	Pass
159	5795	37.74	37.65	0.5	Pass

802.11ax (HE80)

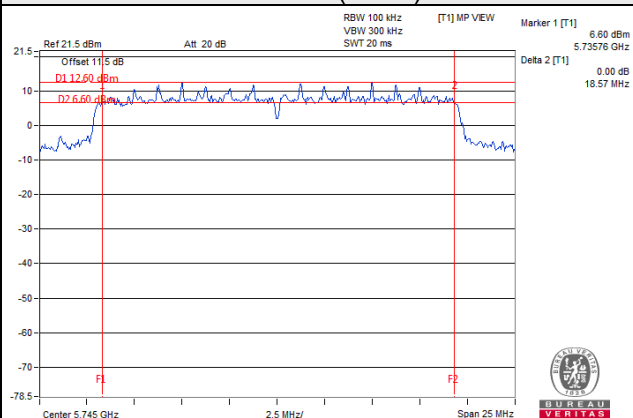
Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
155	5775	76.21	75.75	0.5	Pass

Spectrum Plot of Worst Value

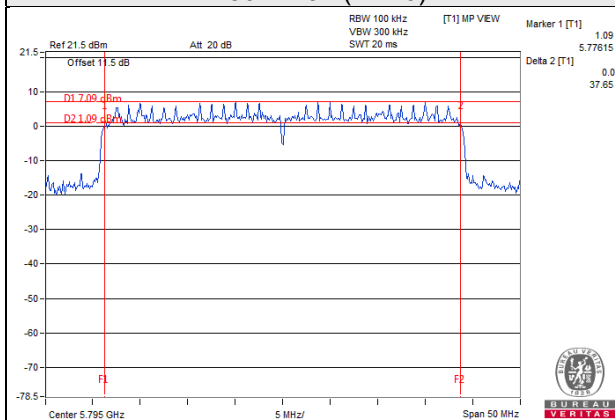
802.11a



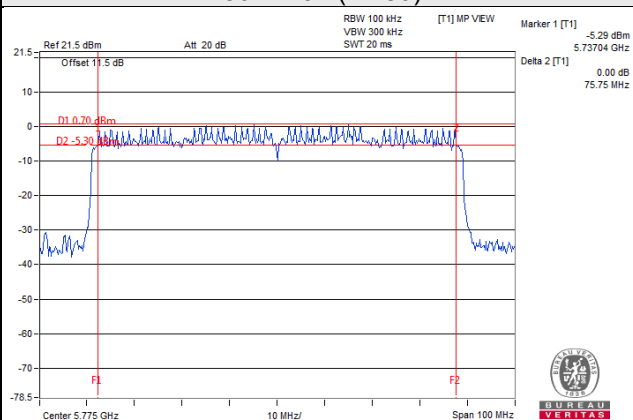
802.11ax (HE20)



802.11ax (HE40)



802.11ax (HE80)



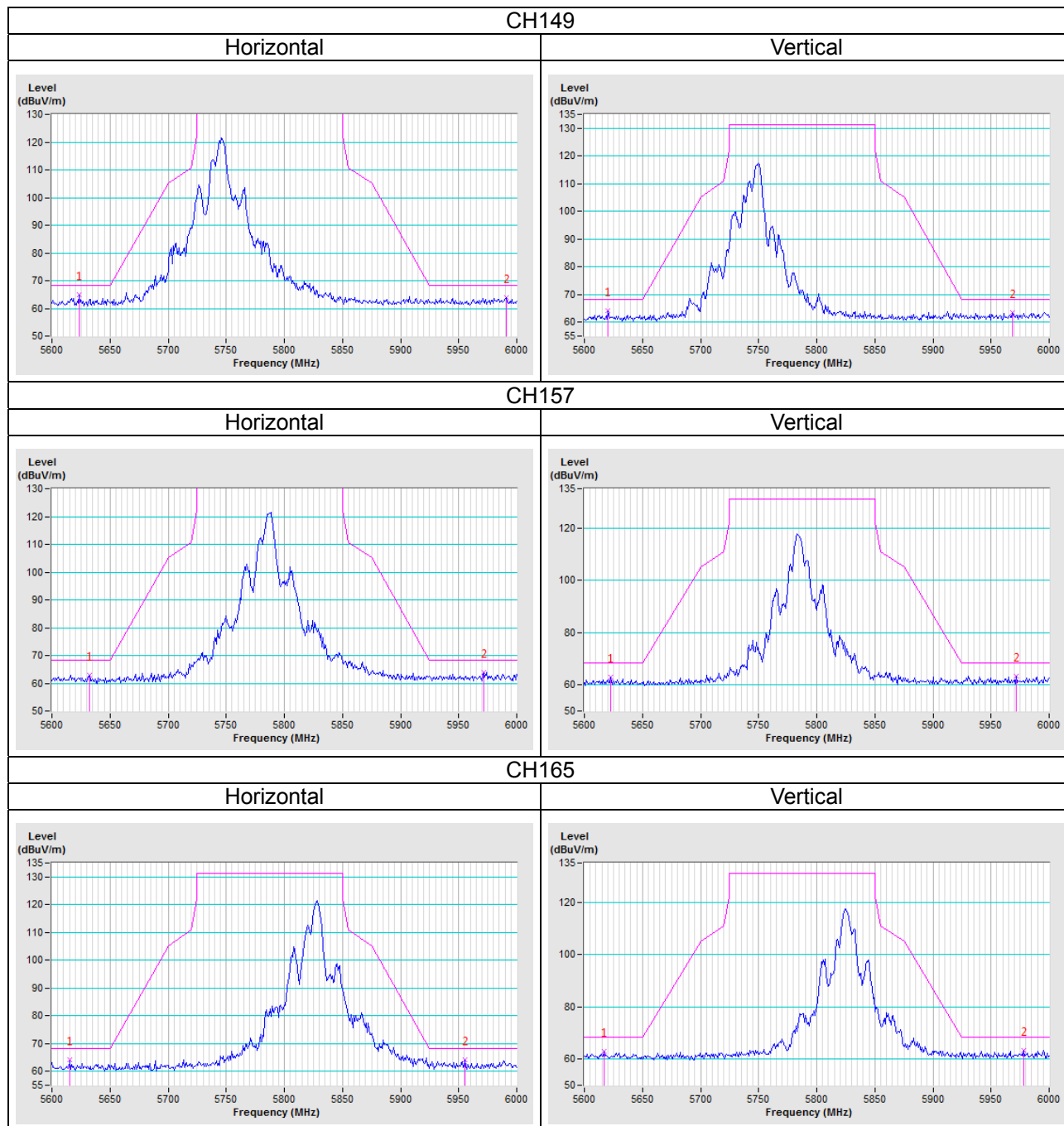
5 Pictures of Test Arrangements

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

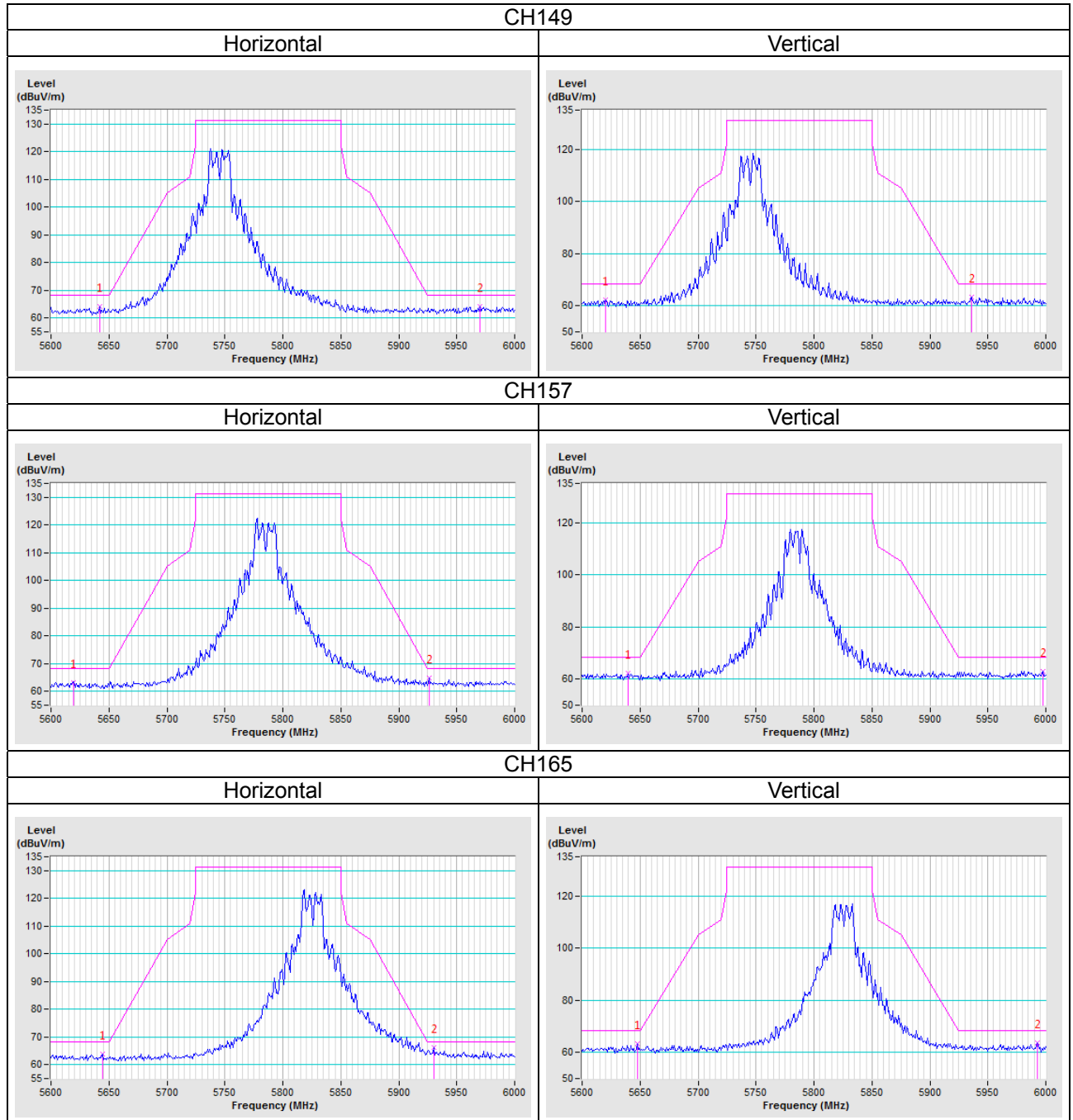
Annex A- Radiated Out of Band Emission (OOBE) Measurement (For U-NII-3 band)

Test Mode A (Internal antenna + Eth6 Radio)

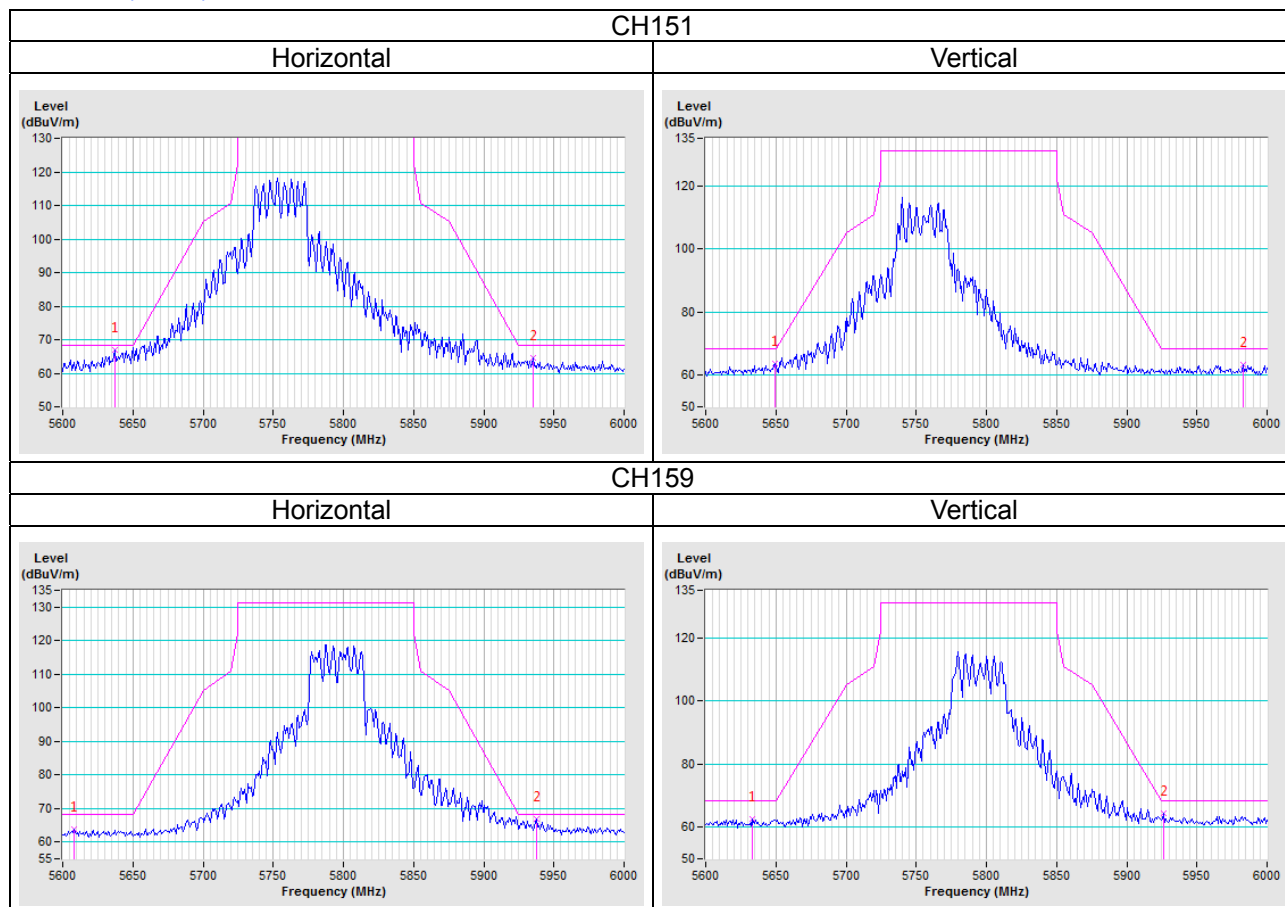
802.11a



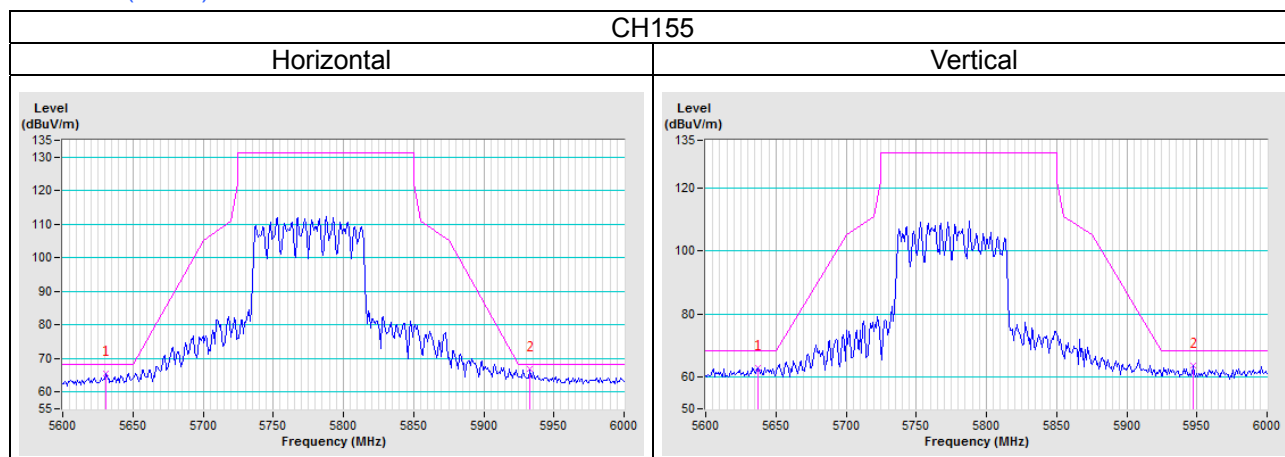
802.11ax (HE20)



802.11ax (HE40)

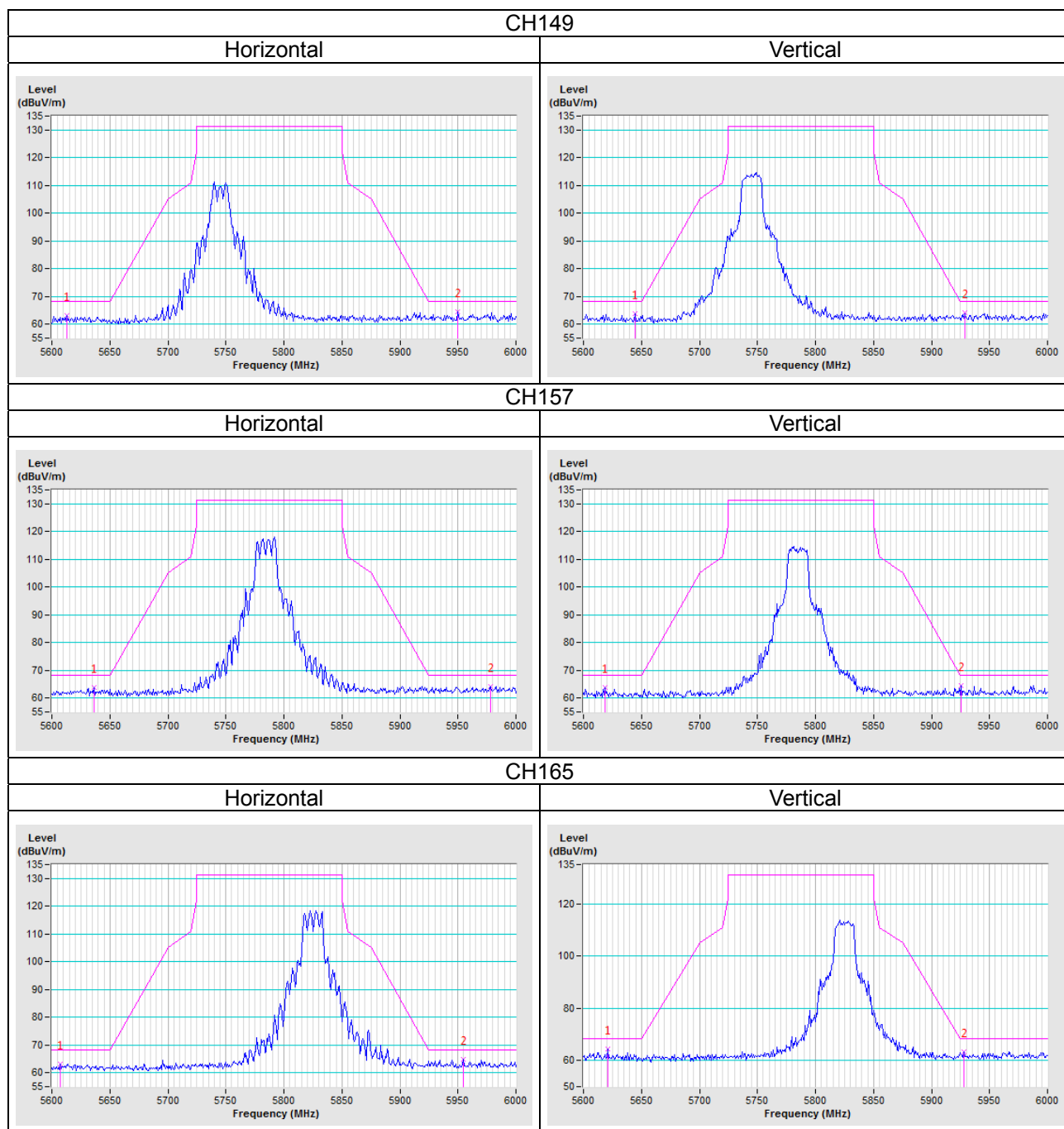


802.11ax (HE80)



Test Mode C (Internal antenna + Eth7 Radio)

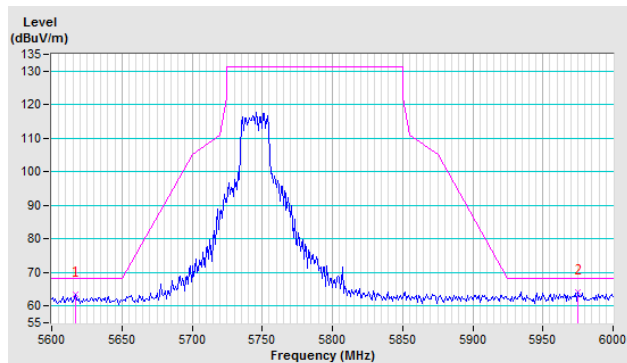
802.11a



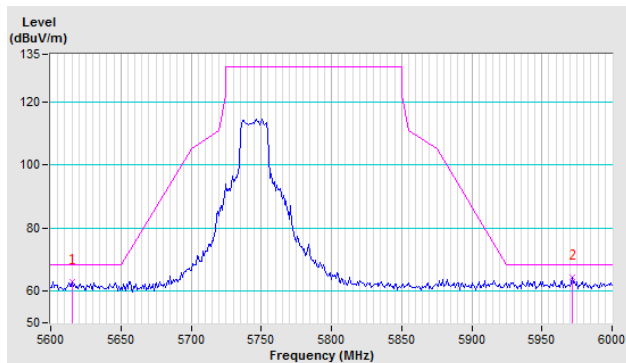
802.11ax (HE20)

CH149

Horizontal

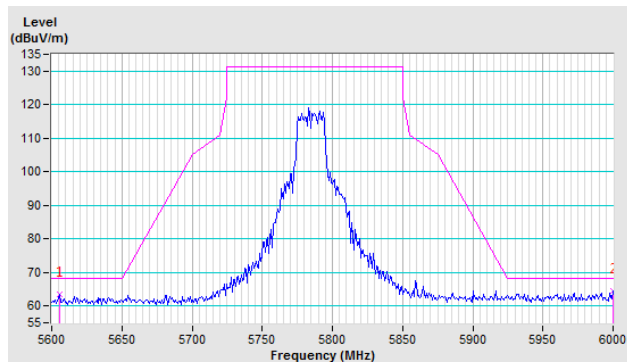


Vertical

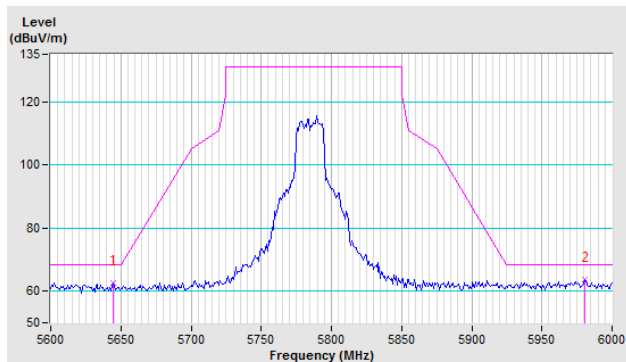


CH157

Horizontal

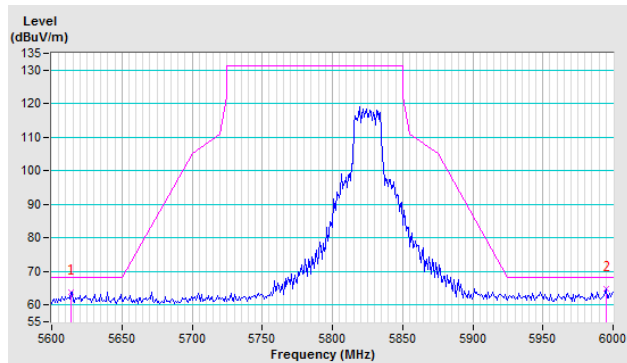


Vertical

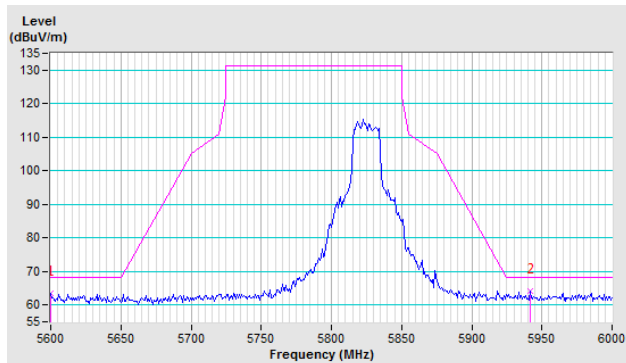


CH165

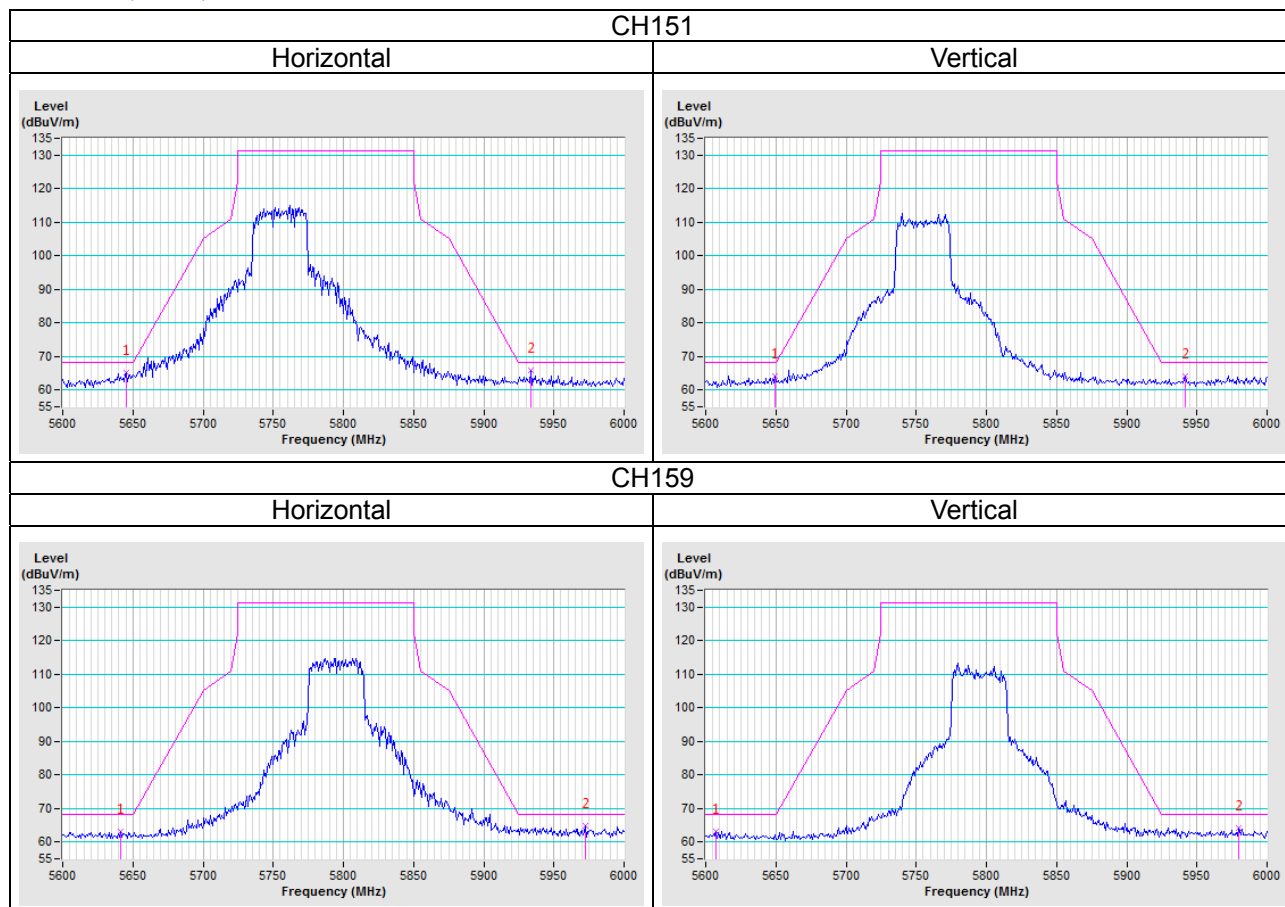
Horizontal



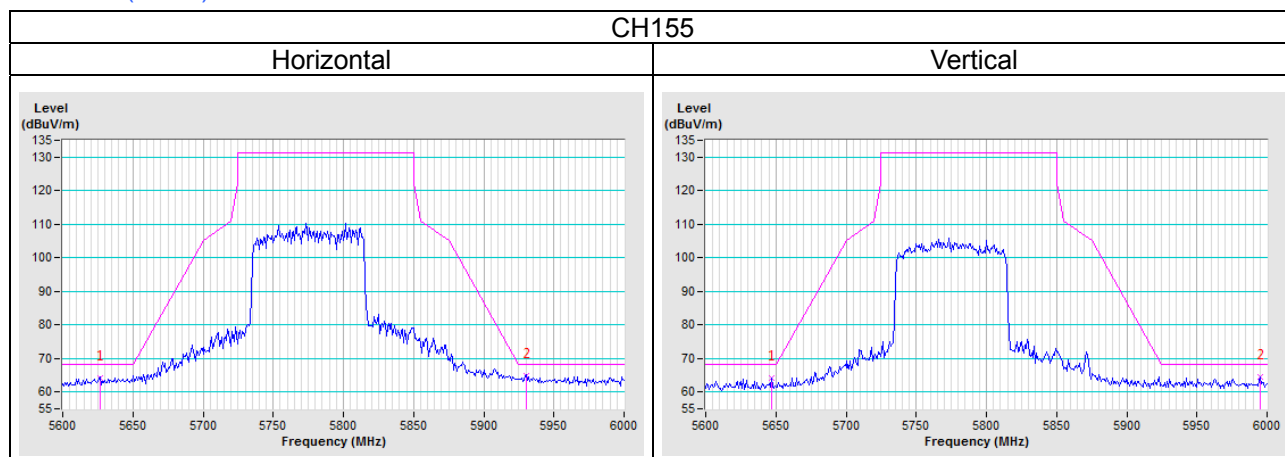
Vertical



802.11ax (HE40)

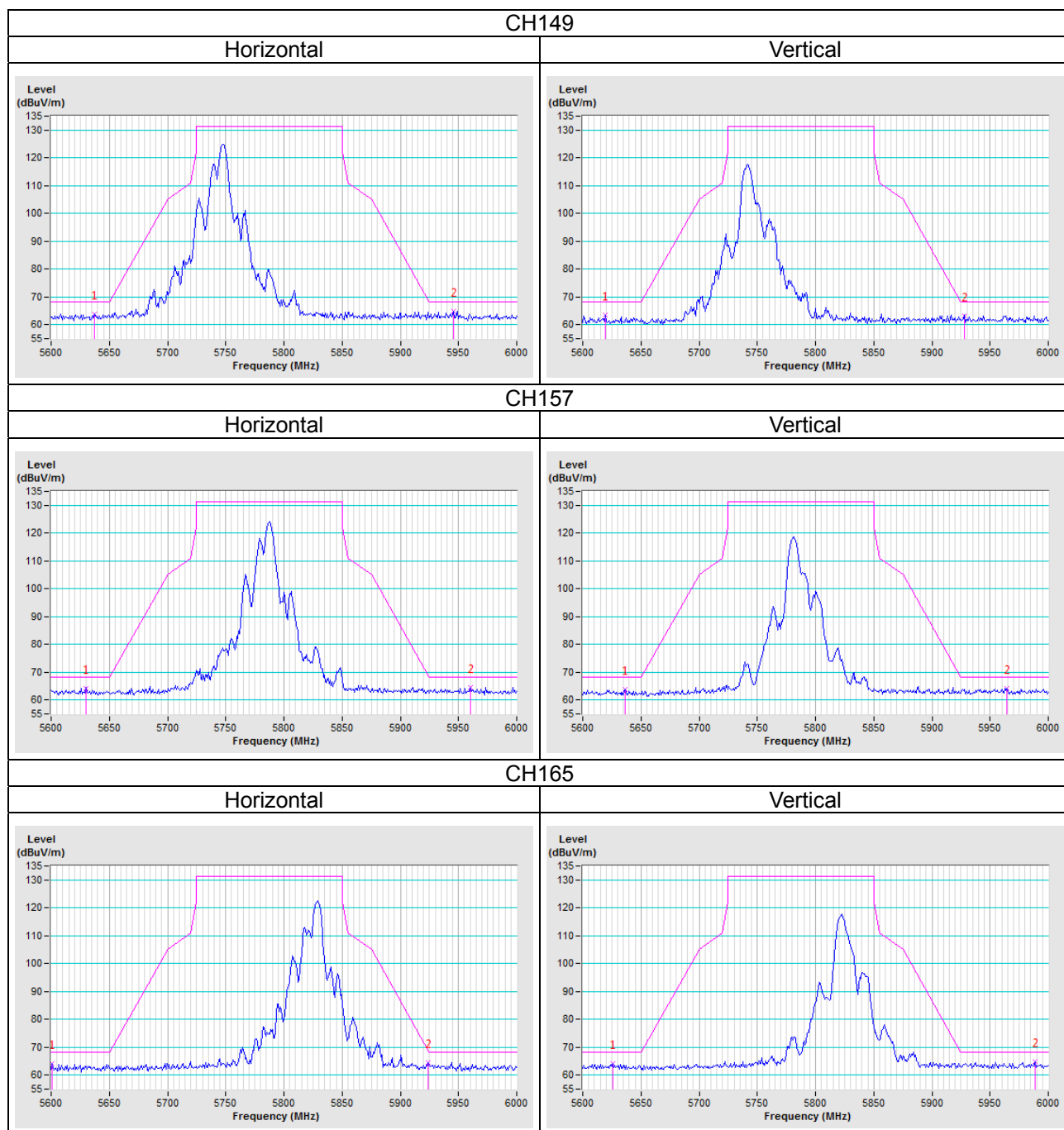


802.11ax (HE80)



Test Mode E (Internal antenna + Eth8 Radio)

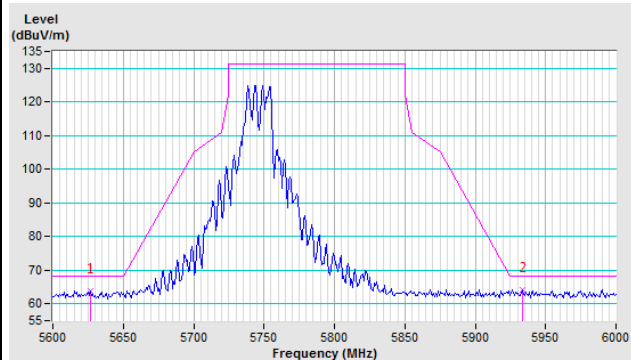
802.11a



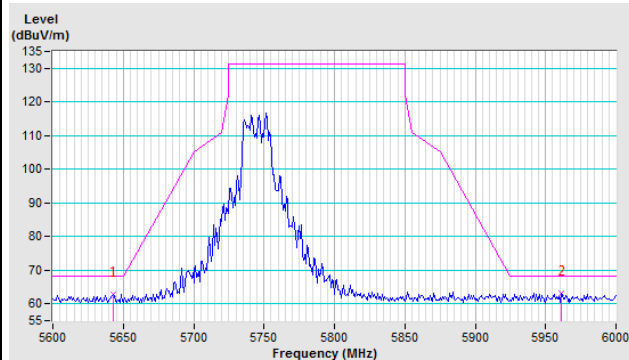
802.11ax (HE20)

CH149

Horizontal

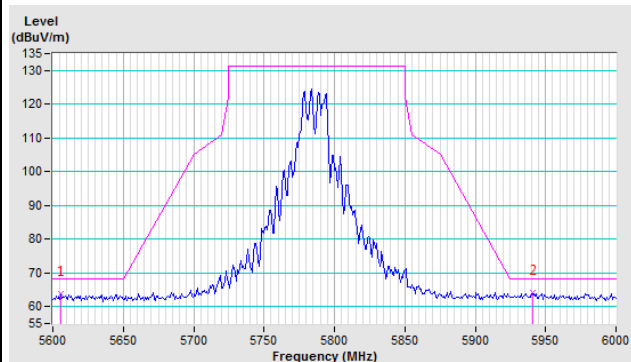


Vertical

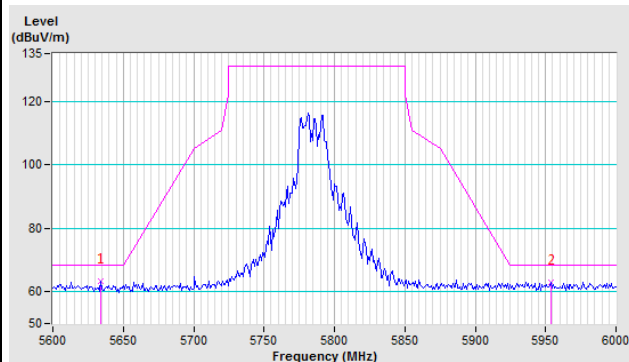


CH157

Horizontal

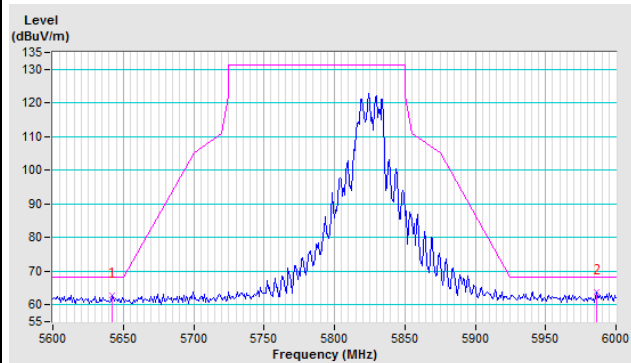


Vertical

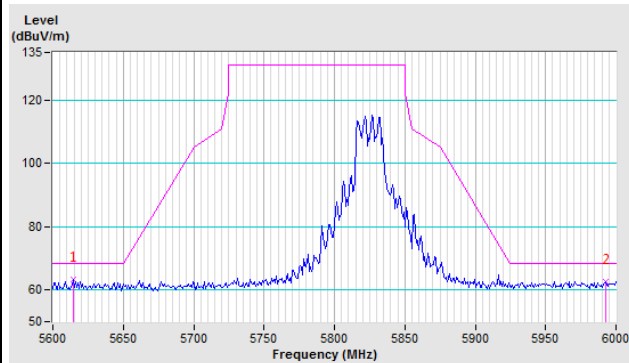


CH165

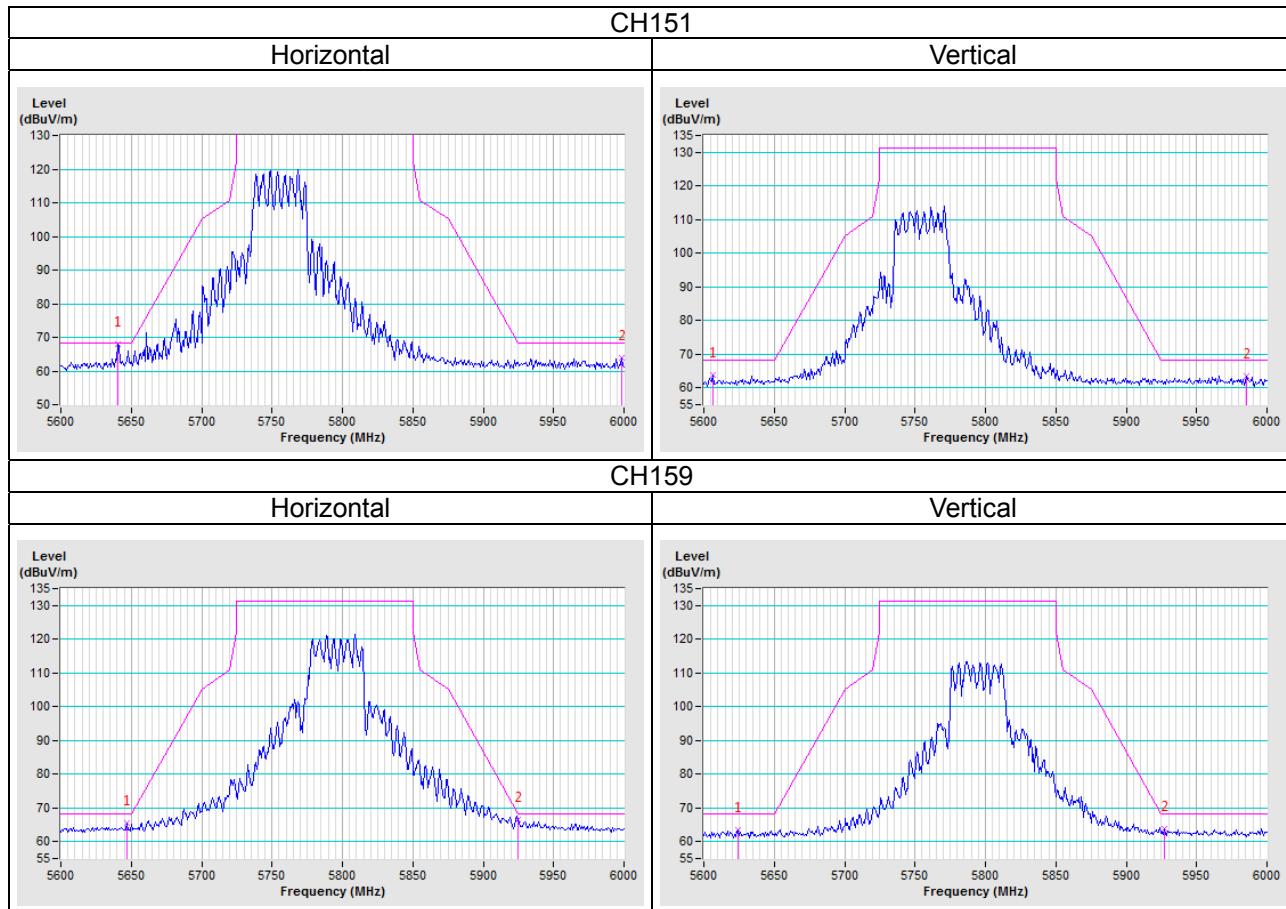
Horizontal



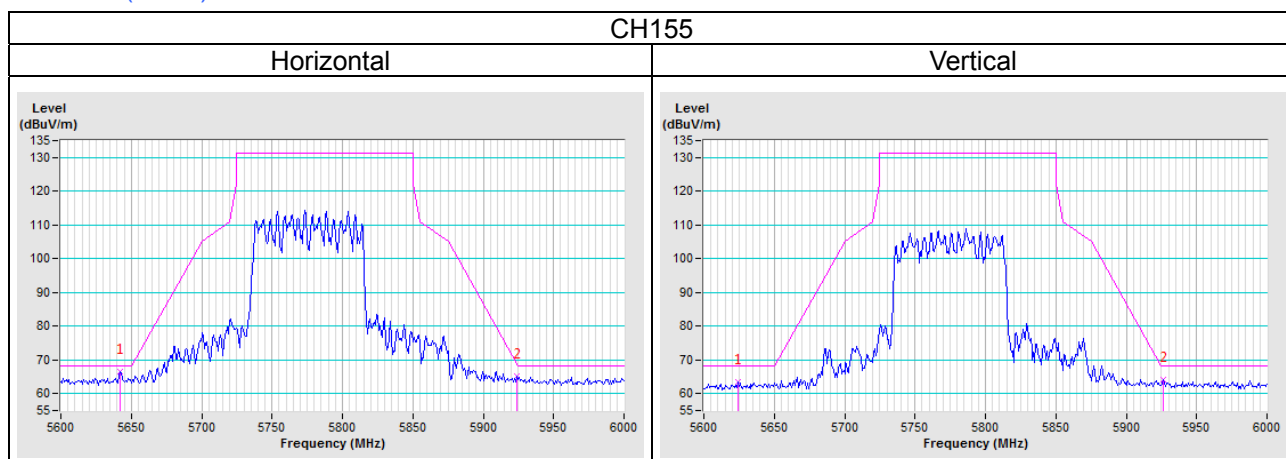
Vertical



802.11ax (HE40)

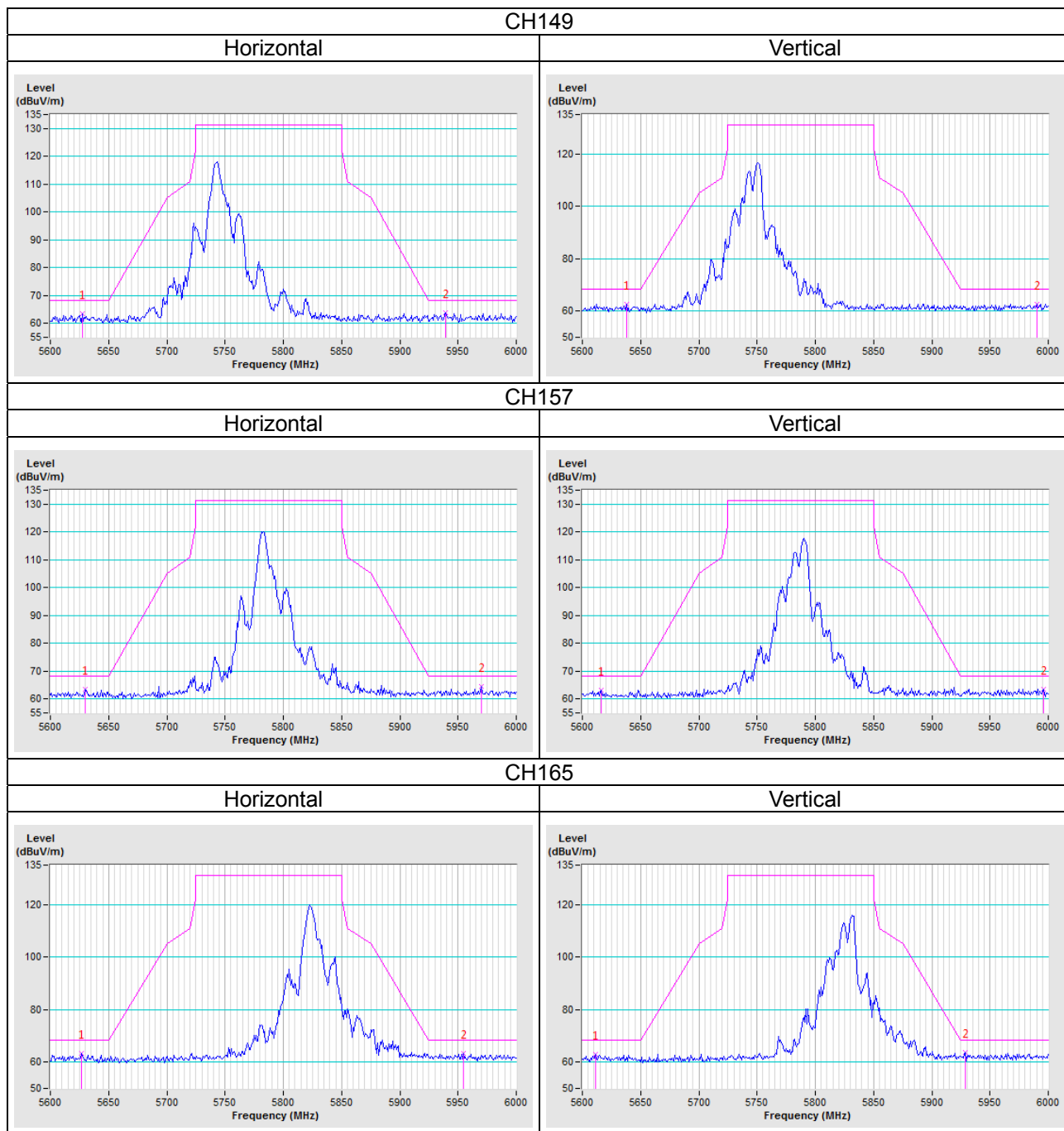


802.11ax (HE80)



Test Mode G (External antenna + Eth6 Radio)

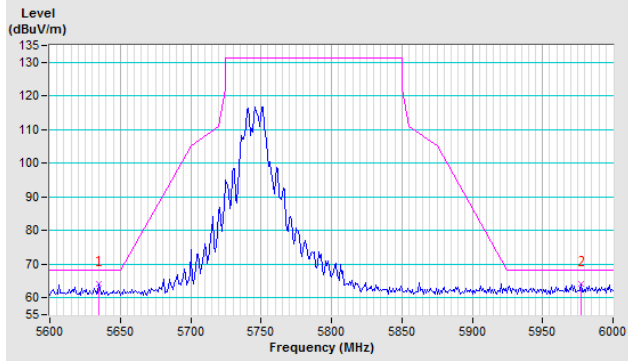
802.11a



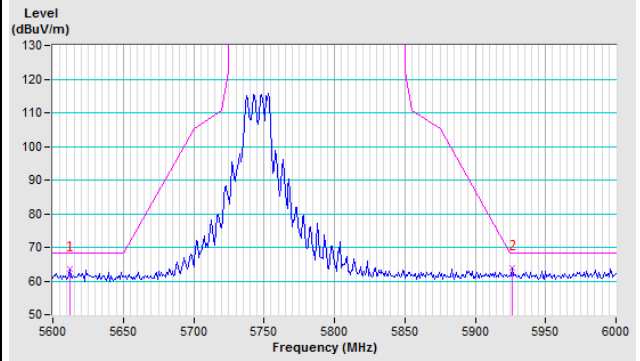
802.11ax (HE20)

CH149

Horizontal

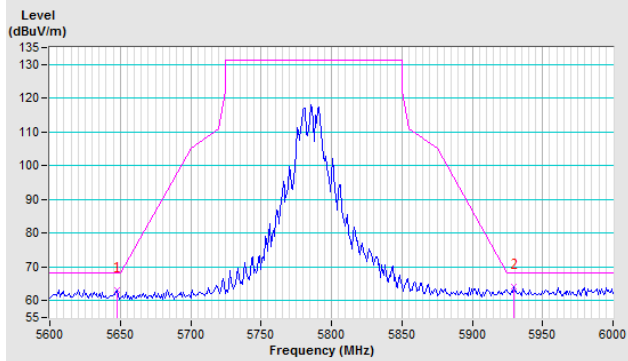


Vertical

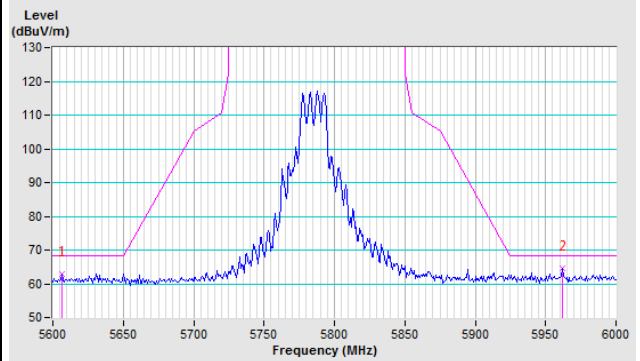


CH157

Horizontal

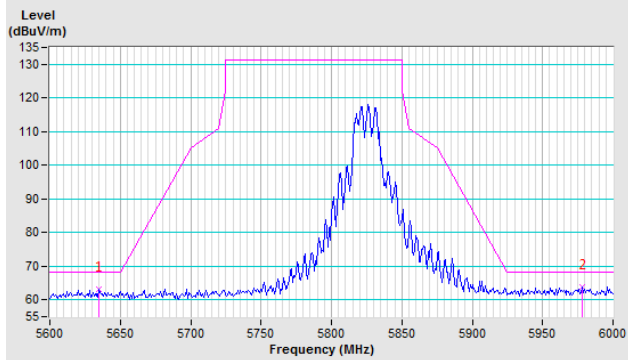


Vertical

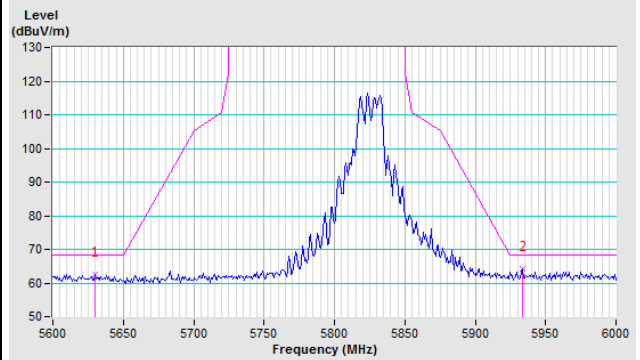


CH165

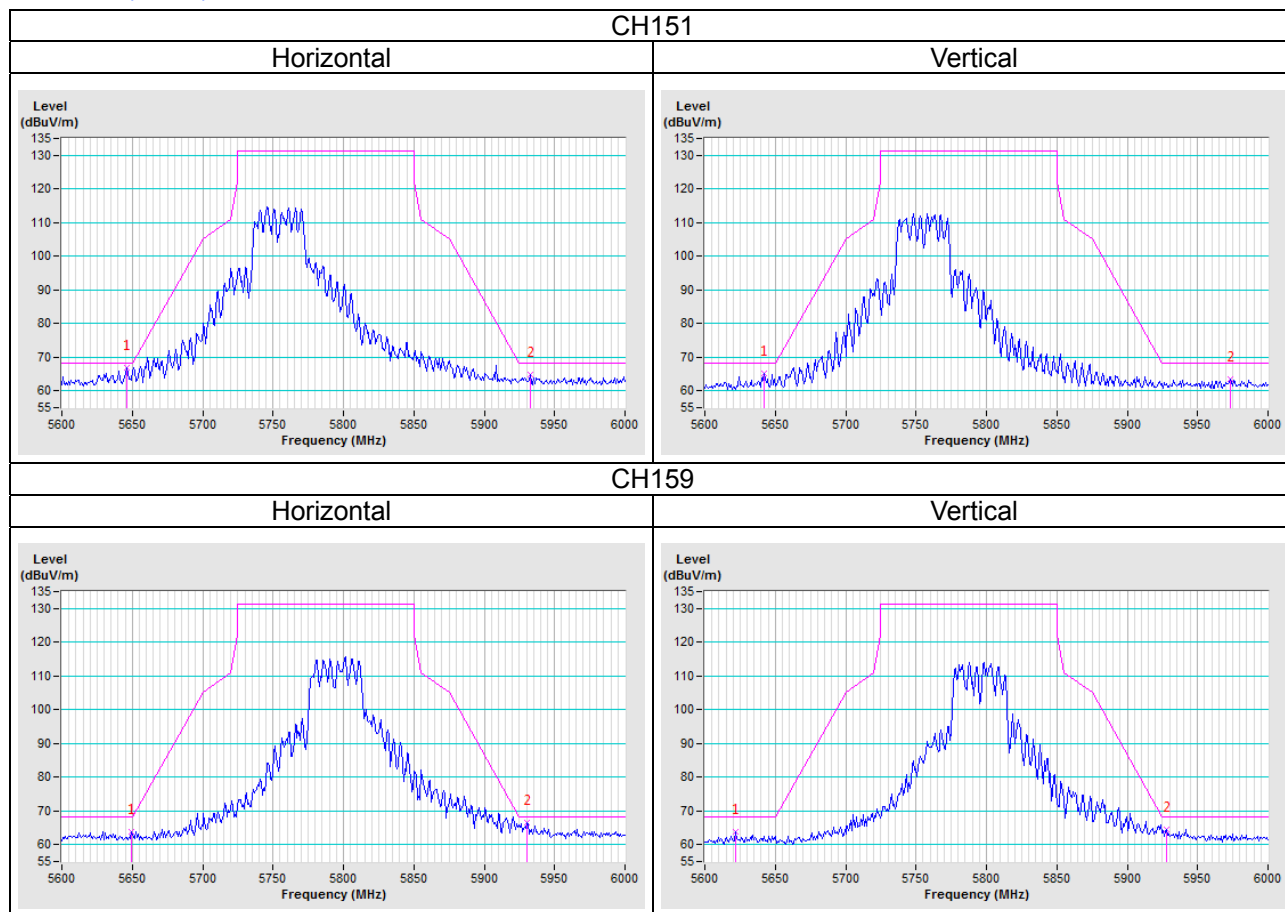
Horizontal



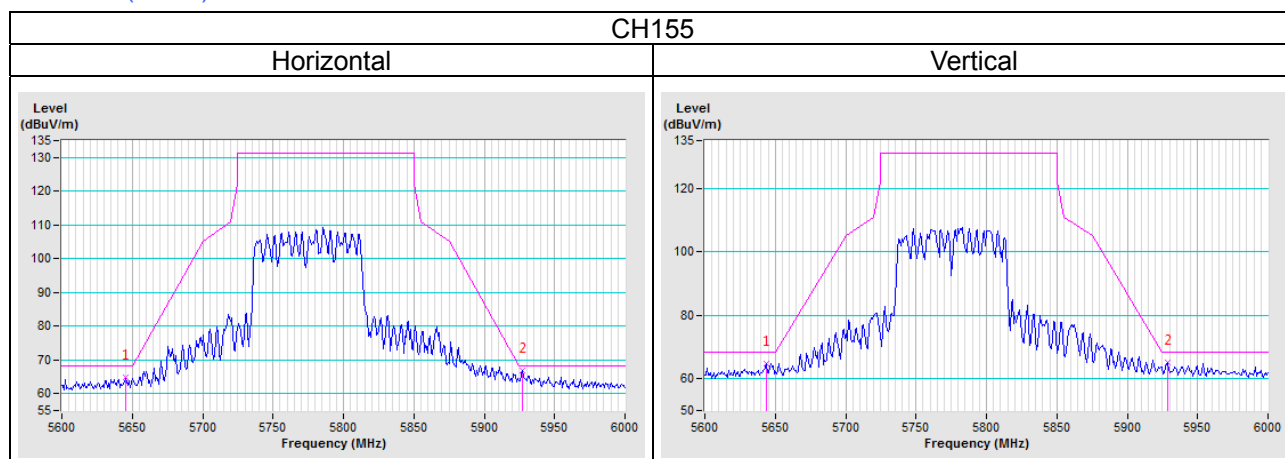
Vertical



802.11ax (HE40)

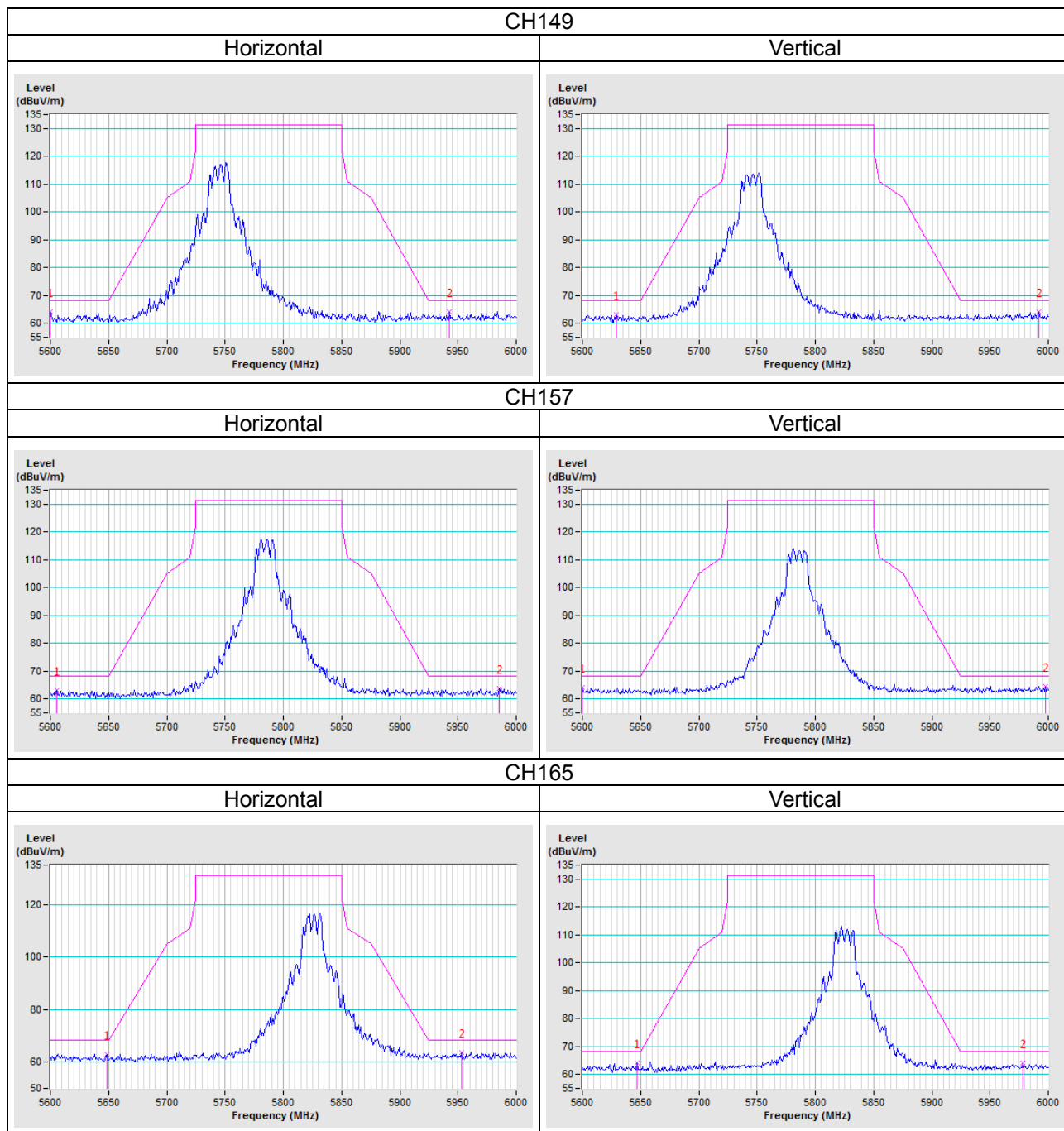


802.11ax (HE80)



Test Mode I (External antenna + Eth7 Radio)

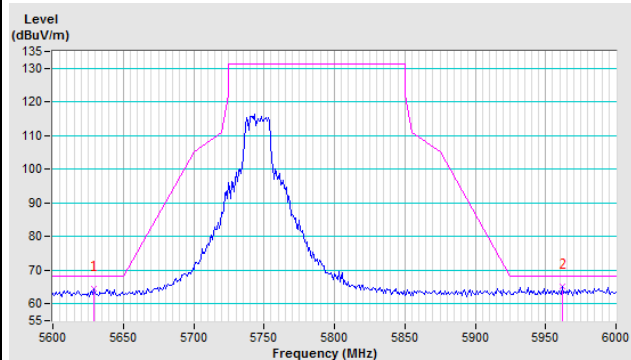
802.11a



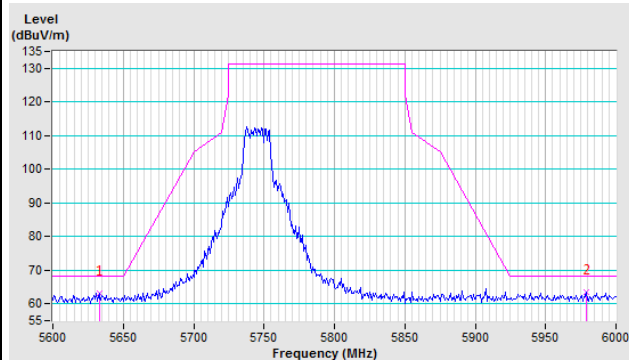
802.11ax (HE20)

CH149

Horizontal

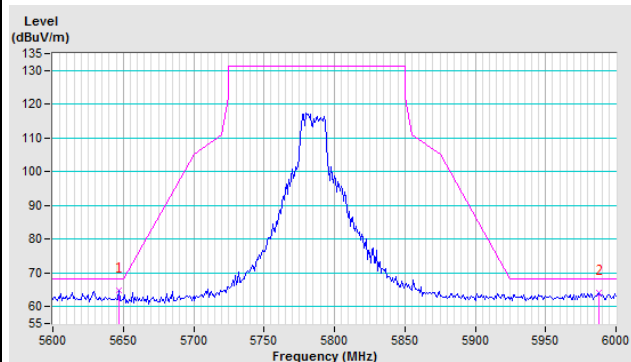


Vertical

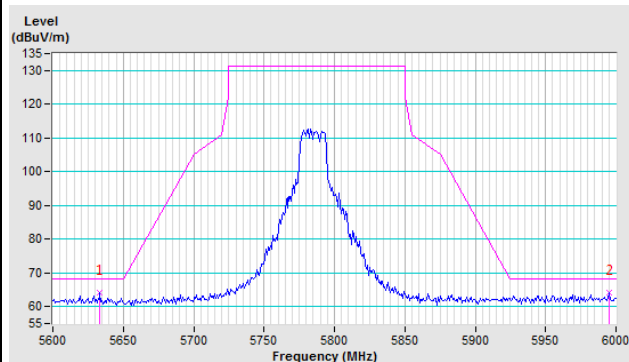


CH157

Horizontal

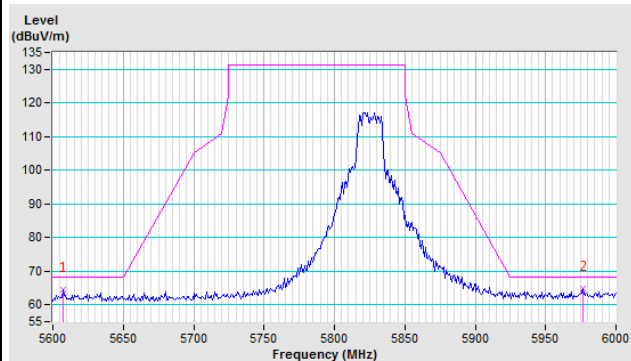


Vertical

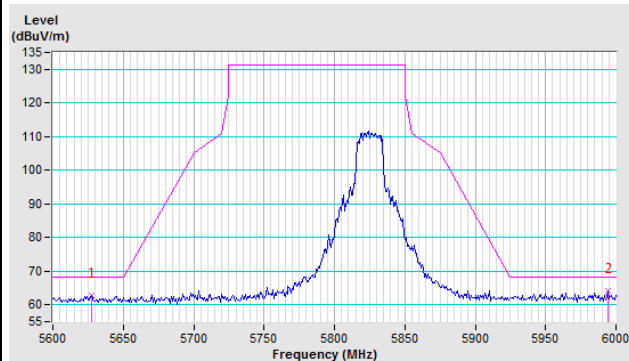


CH165

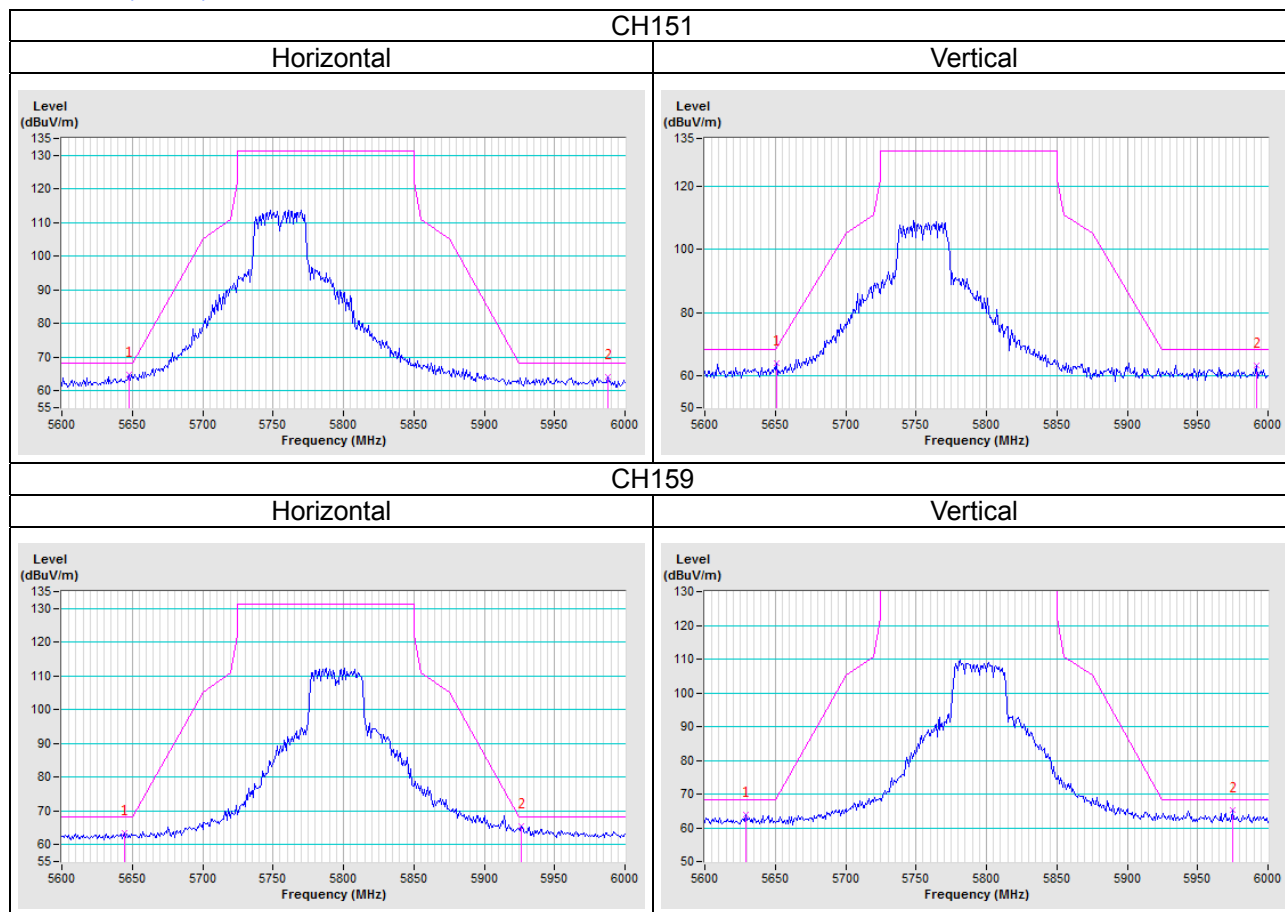
Horizontal



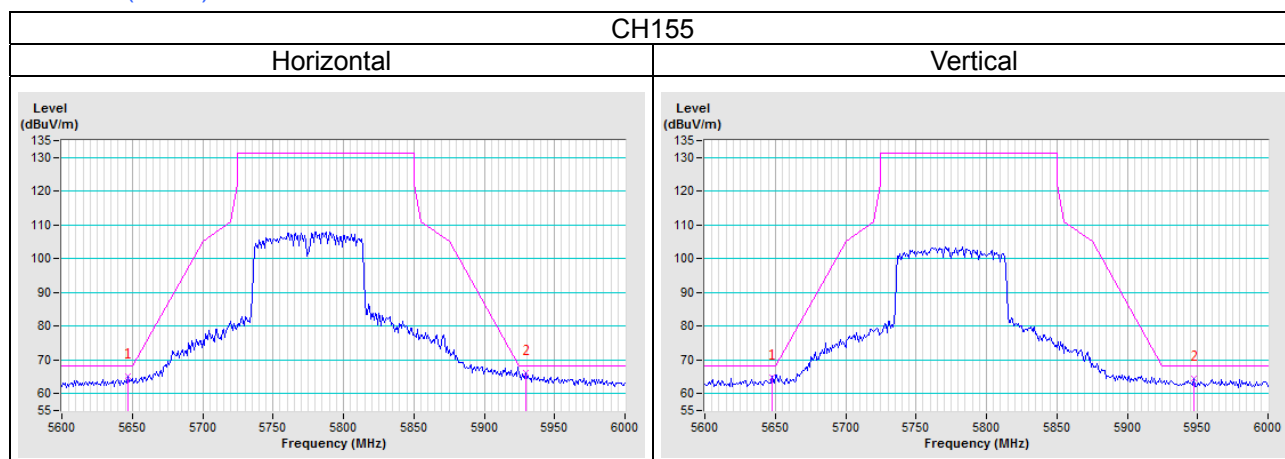
Vertical



802.11ax (HE40)



802.11ax (HE80)



Appendix – Information of the Testing Laboratories

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

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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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