

FCC Test Report

Report No.: RF190211C09B

FCC ID: 2AHBN-AP43

Test Model: AP43E, AP43

Received Date: Feb. 11, 2019

Test Date: Apr. 25, 2019 ~ Mar. 02, 2020

Issued Date: Apr. 15, 2020

Applicant: Mist Systems, Inc.

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FCC Registration / 788550 / TW0003
Designation Number:



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Release Control Record

Issue No.	Description	Date Issued
RF190211C09B	Original release	Apr. 15, 2020

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: Apr. 25, 2019 ~ Mar. 02, 2020

Standards: 47 CFR FCC Part 15, Subpart C (Section 15.247)
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. 15, 2020
Celine Chou / Senior Specialist

Approved by : Bruce Chen , **Date:** Apr. 15, 2020
Bruce Chen / Senior Project Engineer

2 Summary of Test Results

47 CFR FCC Part 15, Subpart C (Section 15.247)			
FCC Clause	Test Item	Result	Remarks
15.207	AC Power Conducted Emission	Pass	Meet the requirement of limit. Minimum passing margin is -6.37dB at 13.62777MHz.
15.205 / 15.209 / 15.247(d)	Radiated Emissions and Band Edge Measurement	Pass	Meet the requirement of limit. Minimum passing margin is -0.1dB at 2390.00MHz, 2483.50MHz and 4824.00MHz.
15.247(d)	Antenna Port Emission	Pass	Meet the requirement of limit.
15.247(a)(2)	6dB bandwidth	Pass	Meet the requirement of limit.
15.247(b)	Conducted power	Pass	Meet the requirement of limit.
15.247(e)	Power Spectral Density	Pass	Meet the requirement of limit.
15.203	Antenna Requirement	Pass	Antenna connector are IPEX and RPSMA not a standard connector.

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

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	2.79 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	CCK, DQPSK, DBPSK for DSSS 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM 1024QAM for OFDMA
Modulation Technology	DSSS, OFDM, OFDMA
Transfer Rate	802.11b: 11/5.5/2/1Mbps 802.11g: 54/48/36/24/18/12/9/6Mbps 802.11n: up to 800Mbps 802.11ax: up to 1148Mbps
Operating Frequency	2412 ~ 2462MHz
Number of Channel	802.11b, 802.11g, 802.11n (HT20), 802.11n (VHT20), 802.11ax (HE20): 11 802.11n (HT40), 802.11n (VHT40), 802.11ax (HE40): 7
Output Power	Refer to note
Antenna Type	Refer to note
Antenna Connector	Refer to note
Accessory Device	N/A
Cable Supplied	N/A

Note:

- This report is prepared for FCC class II permissive change. The difference compared with the original report (BV CPS report no.: RF190211C09) are listing as below:
 - Software enable 1TX function for Radio card Eth7
 - Software enable 1TX, 2TX, 3TX function for Radio card Eth6 and Eth8.
 - Added one external antenna (Part Number: ATS-OP-245-810-4RPSP-36) for Radio card Eth6, Eth7 and Eth8.
 - Software enable 5.26GHz to 5.32GHz and 5.50GHz to 5.70GHz bands.

Radio Card	Initial Certified		C2PC added modes			
	Internal /External antenna	TX Function	Initial Internal /External antenna	TX Function	New External antenna	TX Function
Eth6	WLAN U-NII 1 & 3	4TX	WLAN U-NII 2A & 2C	1TX / 2TX / 3TX / 4TX	WLAN U-NII 1 / 2A / 2C / 3	1TX / 2TX / 3TX / 4TX
			WLAN U-NII 1 & 3	1TX / 2TX / 3TX		
Eth7	WLAN 2.4G, WLAN U-NII 1 & 3 (U-NII 2A / 2C only RX function)	2TX	WLAN 2.4G, WLAN U-NII 1 & 3 (U-NII 2A / 2C only RX function)	1TX	WLAN 2.4G	1TX / 2TX
					WLAN U-NII 1 & 3 (U-NII 2A / 2C only RX function)	1TX / 2TX
Eth8	Internal antenna WLAN 2.4G, 5G U-NII 3	4TX	Internal antenna WLAN 2.4G, & U-NII 3	1TX / 2TX / 3TX	WLAN 2.4G	1TX / 2TX / 3TX / 4TX
			Internal antenna 5G U-NII-2C	1TX / 2TX / 3TX / 4TX		
	External antenna WLAN 2.4G	4TX	External antenna WLAN 2.4G	1TX / 2TX / 3TX		

- 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

- 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

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

Radio: Eth7

Modulation Mode	TX Function	Beamforming
802.11b	1TX/2TX	Not Support
802.11g	1TX/2TX	Not Support
802.11n (HT20)	1TX/2TX	Not Support
802.11n (HT40)	1TX/2TX	Not Support
802.11n (VHT20)	1TX/2TX	Not Support
802.11n (VHT40)	1TX/2TX	Not Support
802.11ax (HE20)	1TX/2TX	Not Support
802.11ax (HE40)	1TX/2TX	Not Support

* The bandwidth and modulation are similar for HT20/HT40 on 802.11n mode and VHT20/VHT40 on 802.11n mode and HE20/HE40 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
802.11b	1TX/2TX/3TX/4TX	Not Support
802.11g	1TX/2TX/3TX/4TX	Not Support
802.11n (HT20)	1TX/2TX/3TX/4TX	Support
802.11n (HT40)	1TX/2TX/3TX/4TX	Support
802.11n (VHT20)	1TX/2TX/3TX/4TX	Support
802.11n (VHT40)	1TX/2TX/3TX/4TX	Support
802.11ax (HE20)	1TX/2TX/3TX/4TX	Support
802.11ax (HE40)	1TX/2TX/3TX/4TX	Support

* The bandwidth and modulation are similar for HT20/HT40 on 802.11n mode and VHT20/VHT40 on 802.11n mode and HE20/HE40 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.

5. The following antennas were provided to the EUT.

For Internal Antenna (original 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 Mode	0.1					
BT-Directional Mode	4.5					

For External Antenna (support unit only) (original antenna)

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

For External Antenna (support unit only) (new antenna)

Antenna Type	Patch	
Antenna Connector	RPSMA	
Part Number	ATS-OP-245-810-4RPSP-36	
Gain (dBi)	Frequency	
	2.4GHz	5GHz
Ext. WIFI Ant. 2	8	10

6. Output Power as below.

Mode	Frequency Band (MHz)	Output Power (mW)							
		CDD				Beamforming			
		1TX	2TX	3TX	4TX	1TX	2TX	3TX	4TX
Internal antenna + Eth7 Radio	2412-2462	82.794	153.509	-	-	-	-	-	-
Internal antenna + Eth8 Radio	2412-2462	85.507	228.393	337.484	350.273	-	214.373	309.416	323.727
External antenna – PN: ATS-OO-245-46-4RPSP-36 + Eth7 Radio	2412-2462	82.794	154.328	-	-	-	-	-	-
External antenna – PN: ATS-OO-245-46-4RPSP-36 + Eth8 Radio	2412-2462	85.507	178.618	243.745	350.273	-	161.021	239.004	323.727
External antenna – PN: ATS-OP-245-810-4RPSP-36 + Eth7 Radio	2412-2462	82.794	162.954	-	-	-	-	-	-
External antenna – PN: ATS-OP-245-810-4RPSP-36 + Eth8 Radio	2412-2462	85.507	178.618	348.422	350.273	-	161.021	206.169	150.894

3.2 Description of Test Modes

11 channels are provided for 802.11b, 802.11g, 802.11n (HT20), 802.11n (VHT20), 802.11ax (HE20):

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

7 channels are provided for 802.11n (HT40), 802.11n (VHT40), 802.11ax (HE40):

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

3.2.1 Test Mode Applicability and Tested Channel Detail

EUT Configure Mode	Applicable to				Description
	RE $\geq$ 1G	RE<1G	PLC	APCM	
A	√	√	√	√	AP43 (Internal antenna) + Eth7 Radio + POE
B	-	√	√	-	AP43 (Internal antenna) + Eth7 Radio + Adapter
C	√	√	√	√	AP43 (Internal antenna) + Eth8 Radio + POE
D	-	√	√	-	AP43 (Internal antenna) + Eth8 Radio + Adapter
E	√	√	√	√	AP43E (External antenna – PN: ATS-OO-245-46-4RPSP-36) + Eth7 Radio + POE
F	-	√	√	-	AP43E (External antenna – PN: ATS-OO-245-46-4RPSP-36) + Eth7 Radio + Adapter
G	√	√	√	√	AP43E (External antenna – PN: ATS-OO-245-46-4RPSP-36) + Eth8 Radio + POE
H	-	√	√	-	AP43E (External antenna – PN: ATS-OO-245-46-4RPSP-36) + Eth8 Radio + Adapter
I	√	√	√	√	AP43E (External antenna – PN: ATS-OP-245-810-4RPSP-36) + Eth7 Radio + POE
J	-	√	√	-	AP43E (External antenna – PN: ATS-OP-245-810-4RPSP-36) + Eth7 Radio + Adapter
K	√	√	√	√	AP43E (External antenna – PN: ATS-OP-245-810-4RPSP-36) + Eth8 Radio + POE
L	-	√	√	-	AP43E (External antenna – PN: ATS-OP-245-810-4RPSP-36) + Eth8 Radio + Adapter

Where RE $\geq$ 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 **X-plane for test mode A to H and Z-plane for test mode I to L.**
- Radiated emission test (below 1GHz) and power line conducted emission test items chosen the worst maximum power.

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	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)	TX Function
A, E	802.11b	1 to 11	1, 6, 11	DSSS	DBPSK	1.0	1TX
I							1TX, 2TX
C, G							1TX, 2TX, 3TX
K							1TX, 2TX, 3TX, 4TX
A, E	802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6.0	1TX
I							1TX, 2TX
C, G							1TX, 2TX, 3TX
K							1TX, 2TX, 3TX, 4TX
A, E	802.11ax (HE20)	1 to 11	1, 6, 11	OFDMA	BPSK	MCS0	1TX
I							1TX, 2TX
C, G							1TX, 2TX, 3TX
K							1TX, 2TX, 3TX, 4TX
A, E	802.11ax (HE40)	3 to 9	3, 6, 9	OFDMA	BPSK	MCS0	1TX
I							1TX, 2TX
C, G							1TX, 2TX, 3TX
K							1TX, 2TX, 3TX, 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	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)	TX Function
A, B, E, F	802.11b	1 to 11	6	DSSS	DBPSK	1.0	1TX
C, D			1				3TX
K, L			11				4TX
G, H	802.11g	1 to 11	6	OFDM	BPSK	6.0	3TX
I, J	802.11ax (HE20)	1 to 11	6	OFDMA	BPSK	MCS0	2TX

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	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)	TX Function
A, B, E, F	802.11b	1 to 11	6	DSSS	DBPSK	1.0	1TX
C, D			1				3TX
K, L			11				4TX
G, H	802.11g	1 to 11	6	OFDM	BPSK	6.0	3TX
I, J	802.11ax (HE20)	1 to 11	6	OFDMA	BPSK	MCS0	2TX

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	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)	TX Function
A, E	802.11b	1 to 11	1, 6, 11	DSSS	DBPSK	1.0	1TX
I							1TX, 2TX
C, G							1TX, 2TX, 3TX
K							1TX, 2TX, 3TX, 4TX
A, E	802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6.0	1TX
I							1TX, 2TX
C, G							1TX, 2TX, 3TX
K							1TX, 2TX, 3TX, 4TX
A, E	802.11ax (HE20)	1 to 11	1, 6, 11	OFDMA	BPSK	MCS0	1TX
I							1TX, 2TX
C, G							1TX, 2TX, 3TX
K							1TX, 2TX, 3TX, 4TX
A, E	802.11ax (HE40)	3 to 9	3, 6, 9	OFDMA	BPSK	MCS0	1TX
I							1TX, 2TX
C, G							1TX, 2TX, 3TX
K							1TX, 2TX, 3TX, 4TX

Test Condition:

Applicable to	Environmental Conditions	Test Mode	Input Power	Tested by
RE≥1G	25 deg. C, 70% RH	A	55Vdc	Noah Chang
	25 deg. C, 70% RH	C		Luis Lee
	24 deg. C, 67% RH	E		Willy Cheng
	26 deg. C, 69% RH 25 deg. C, 68% RH 25 deg. C, 70% RH	G		Willy Cheng Luis Lee
	25 deg. C, 70% RH	I		Noah Chang
	25 deg. C, 69% RH	K		Noah Chang
	RE<1G	22 deg. C, 71% RH		A ~ L
PLC	25 deg. C, 75% RH	A ~ L	120Vac, 60Hz 55Vdc	Jones Chang
APCM	25 deg. C, 60% RH	A, C, E, G, I, K	55Vdc	Alan Wu

3.3 Duty Cycle of Test Signal

Test Mode A (Internal antenna + Eth7 Radio)

1TX

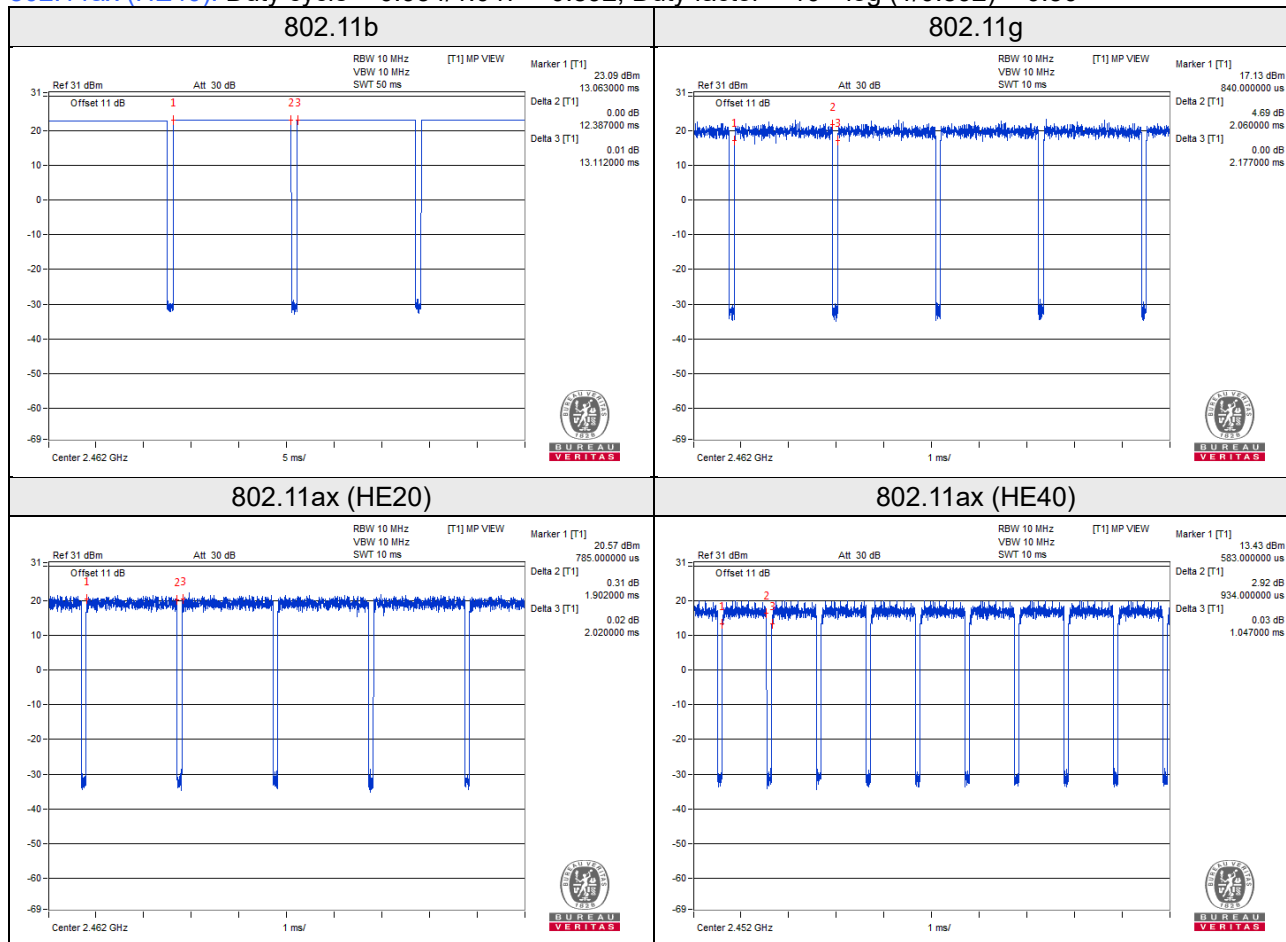
Duty cycle of test signal is < 98%, duty factor is required.

802.11b: Duty cycle = $12.387/13.112 = 0.945$, Duty factor = $10 * \log(1/0.945) = 0.25$

802.11g: Duty cycle = $2.060/2.177 = 0.946$, Duty factor = $10 * \log(1/0.946) = 0.24$

802.11ax (HE20): Duty cycle = $1.902/2.020 = 0.942$, Duty factor = $10 * \log(1/0.942) = 0.26$

802.11ax (HE40): Duty cycle = $0.934/1.047 = 0.892$, Duty factor = $10 * \log(1/0.892) = 0.50$



Test Mode C (Internal antenna + Eth8 Radio)

1TX

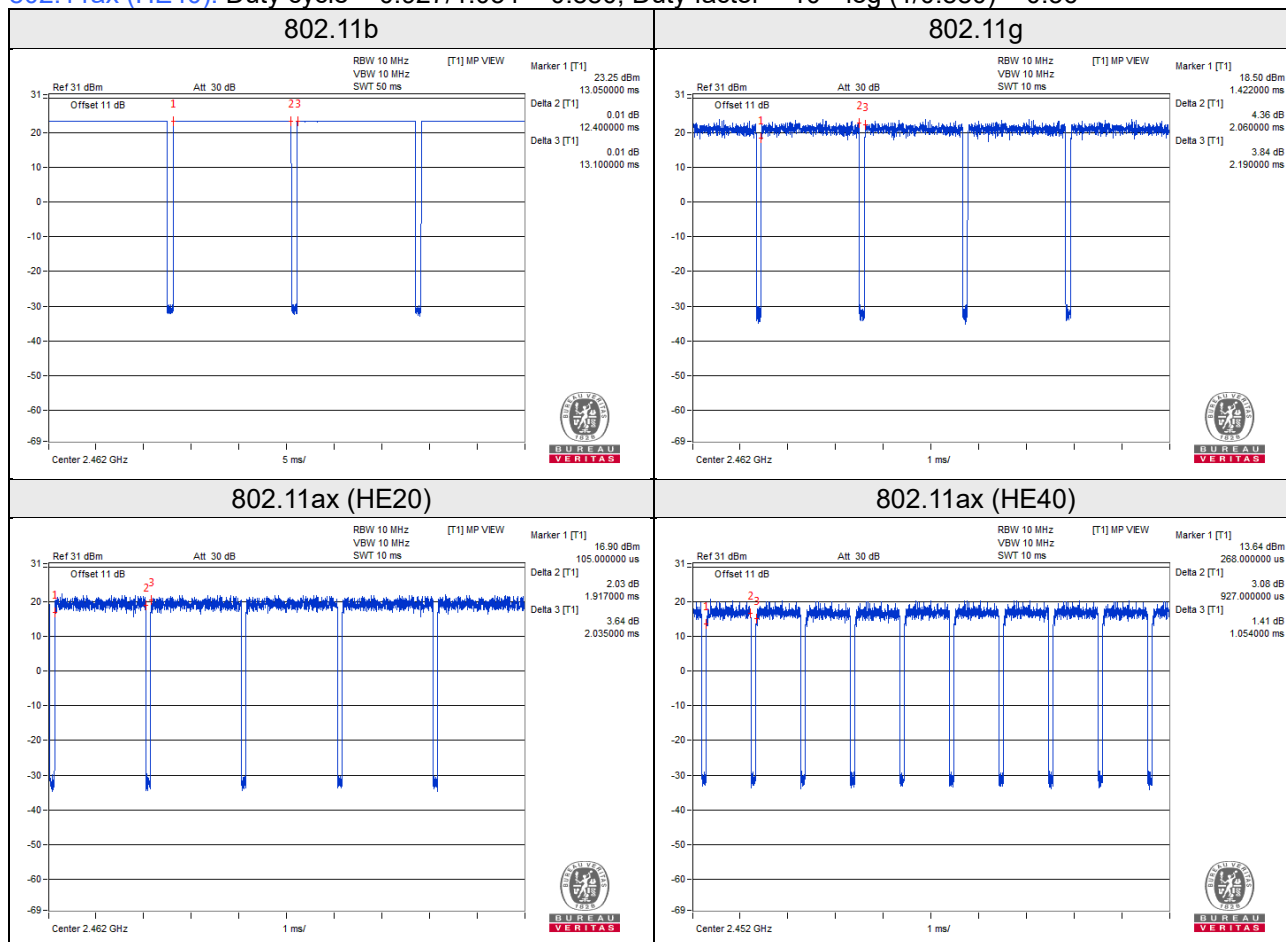
Duty cycle of test signal is < 98%, duty factor is required.

802.11b: Duty cycle = $12.400/13.100 = 0.947$, Duty factor = $10 * \log(1/0.947) = 0.24$

802.11g: Duty cycle = $2.060/2.190 = 0.941$, Duty factor = $10 * \log(1/0.941) = 0.27$

802.11ax (HE20): Duty cycle = $1.917/2.035 = 0.942$, Duty factor = $10 * \log(1/0.942) = 0.26$

802.11ax (HE40): Duty cycle = $0.927/1.054 = 0.880$, Duty factor = $10 * \log(1/0.880) = 0.56$



2TX

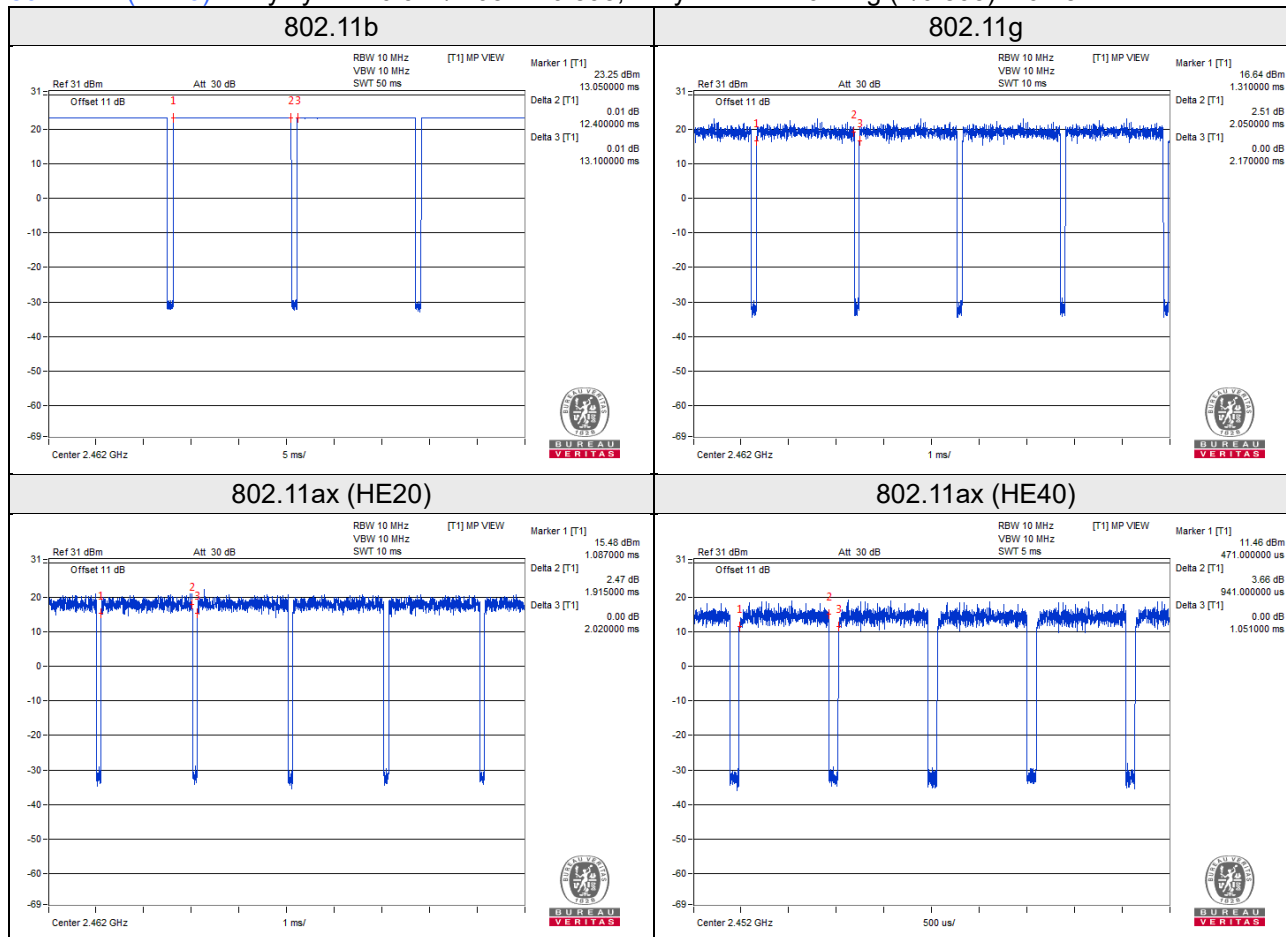
Duty cycle of test signal is < 98%, duty factor is required.

802.11b: Duty cycle = $12.400/13.100 = 0.947$, Duty factor = $10 * \log(1/0.947) = 0.24$

802.11g: Duty cycle = $2.050/2.170 = 0.945$, Duty factor = $10 * \log(1/0.945) = 0.25$

802.11ax (HE20): Duty cycle = $1.915/2.020 = 0.948$, Duty factor = $10 * \log(1/0.948) = 0.23$

802.11ax (HE40): Duty cycle = $0.941/1.051 = 0.895$, Duty factor = $10 * \log(1/0.895) = 0.48$



3TX

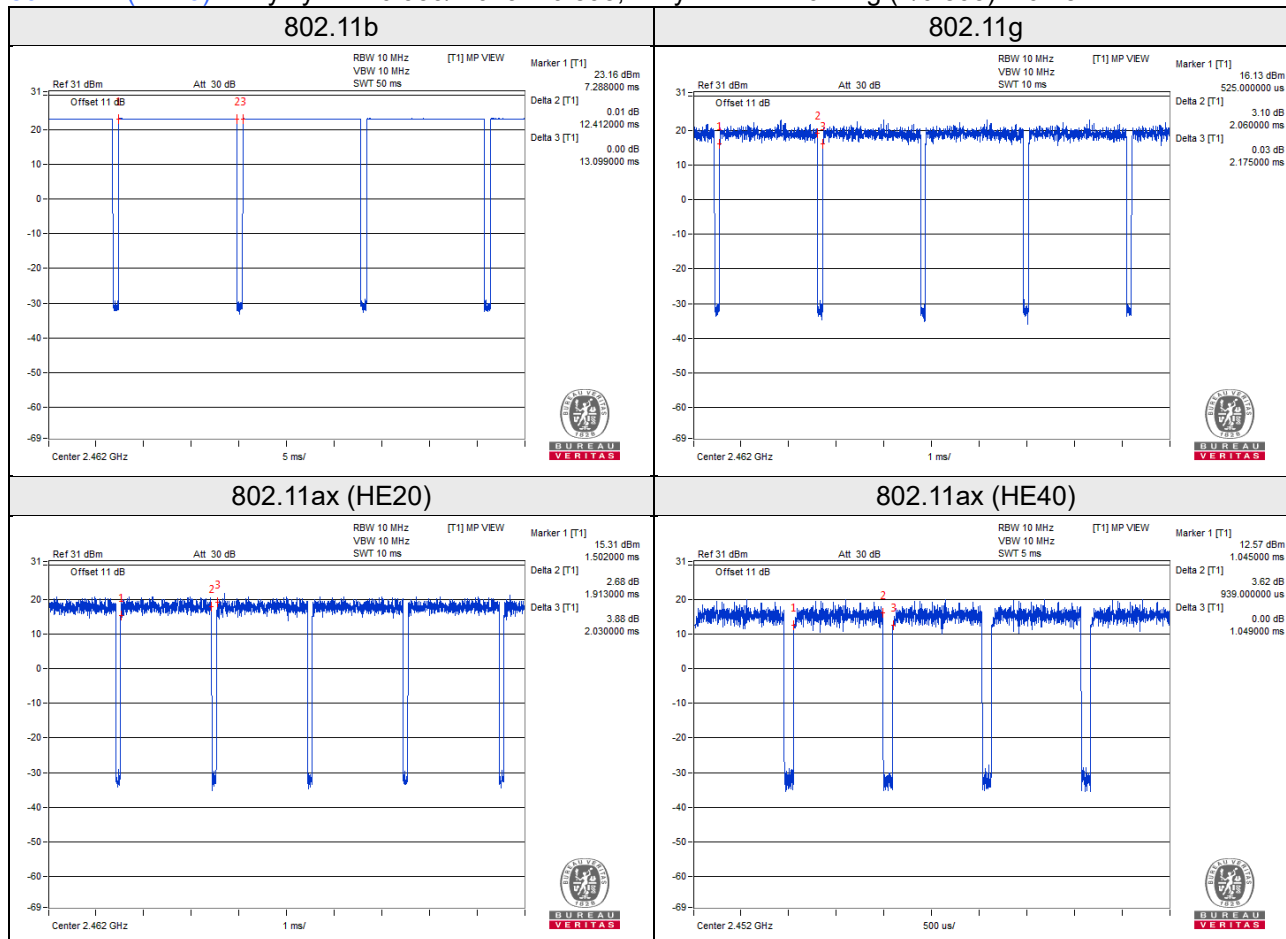
Duty cycle of test signal is < 98%, duty factor is required.

802.11b: Duty cycle = $12.412/13.099 = 0.948$, Duty factor = $10 * \log(1/0.948) = 0.23$

802.11g: Duty cycle = $2.060/2.175 = 0.947$, Duty factor = $10 * \log(1/0.947) = 0.24$

802.11ax (HE20): Duty cycle = $1.913/2.030 = 0.942$, Duty factor = $10 * \log(1/0.942) = 0.26$

802.11ax (HE40): Duty cycle = $0.939/1.049 = 0.895$, Duty factor = $10 * \log(1/0.895) = 0.48$



Test Mode E (External antenna – PN: ATS-OO-245-46-4RPSP-36 + Eth7 Radio)

1TX

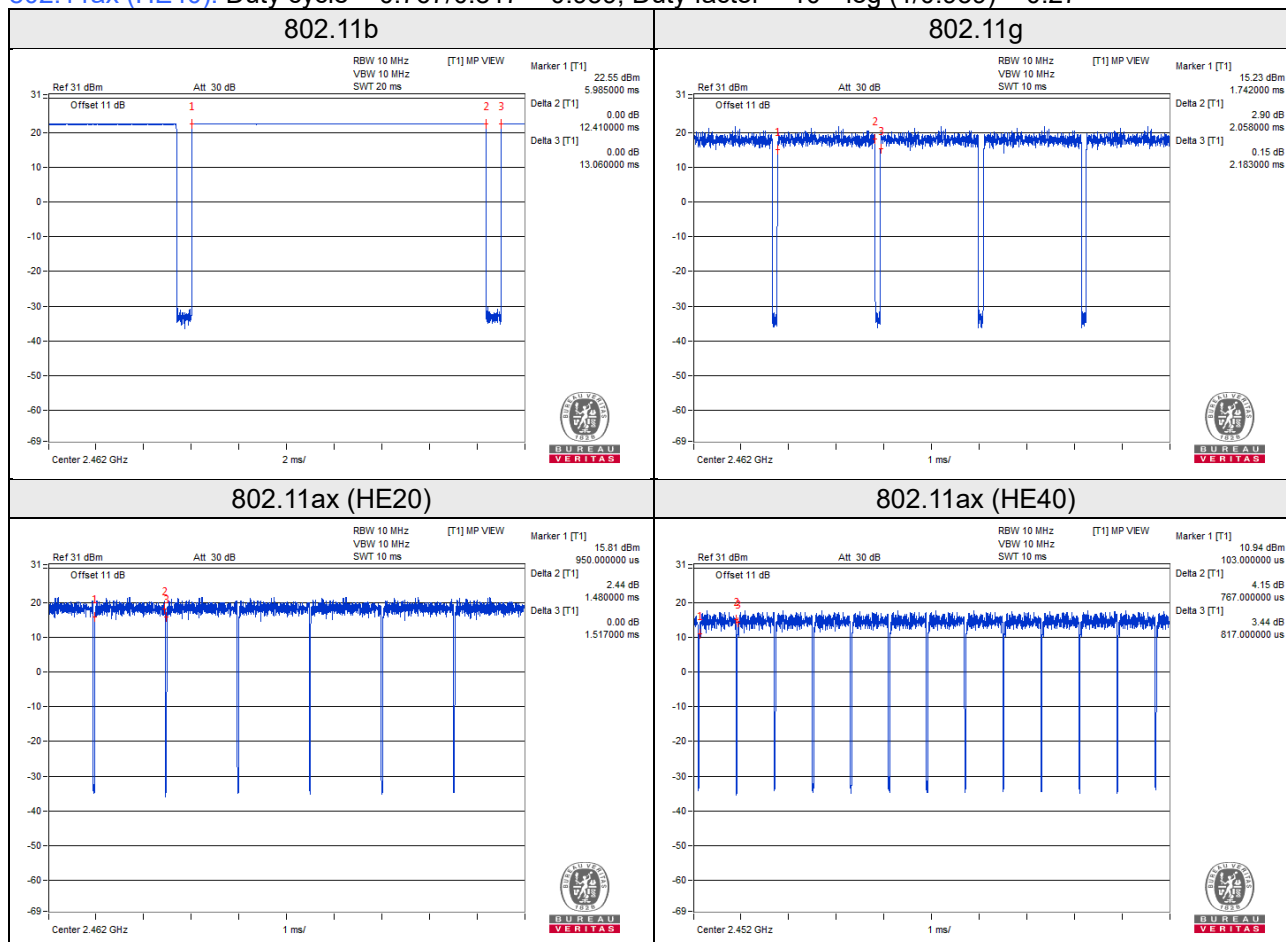
Duty cycle of test signal is < 98%, duty factor is required.

802.11b: Duty cycle = $12.410/13.060 = 0.950$, Duty factor = $10 * \log(1/0.950) = 0.22$

802.11g: Duty cycle = $2.058/2.183 = 0.943$, Duty factor = $10 * \log(1/0.943) = 0.26$

802.11ax (HE20): Duty cycle = $1.480/1.517 = 0.976$, Duty factor = $10 * \log(1/0.976) = 0.11$

802.11ax (HE40): Duty cycle = $0.767/0.817 = 0.939$, Duty factor = $10 * \log(1/0.939) = 0.27$



Test Mode G (External antenna – PN: ATS-OO-245-46-4RPSP-36 + Eth8 Radio)

1TX

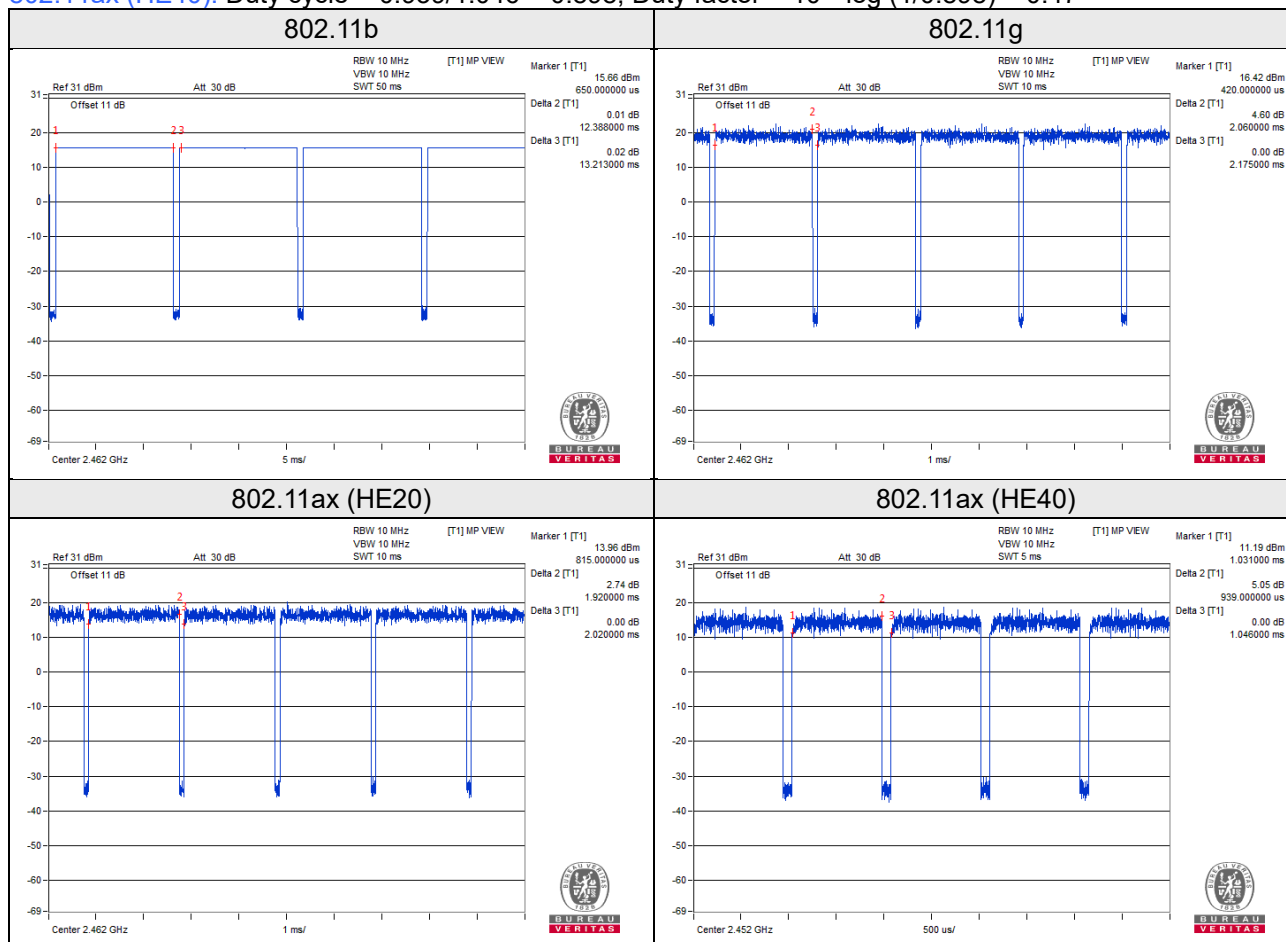
Duty cycle of test signal is < 98%, duty factor is required.

802.11b: Duty cycle = $12.388/13.213 = 0.938$, Duty factor = $10 * \log(1/0.938) = 0.28$

802.11g: Duty cycle = $2.060/2.175 = 0.947$, Duty factor = $10 * \log(1/0.947) = 0.24$

802.11ax (HE20): Duty cycle = $1.920/2.020 = 0.950$, Duty factor = $10 * \log(1/0.950) = 0.22$

802.11ax (HE40): Duty cycle = $0.939/1.046 = 0.898$, Duty factor = $10 * \log(1/0.898) = 0.47$



2TX

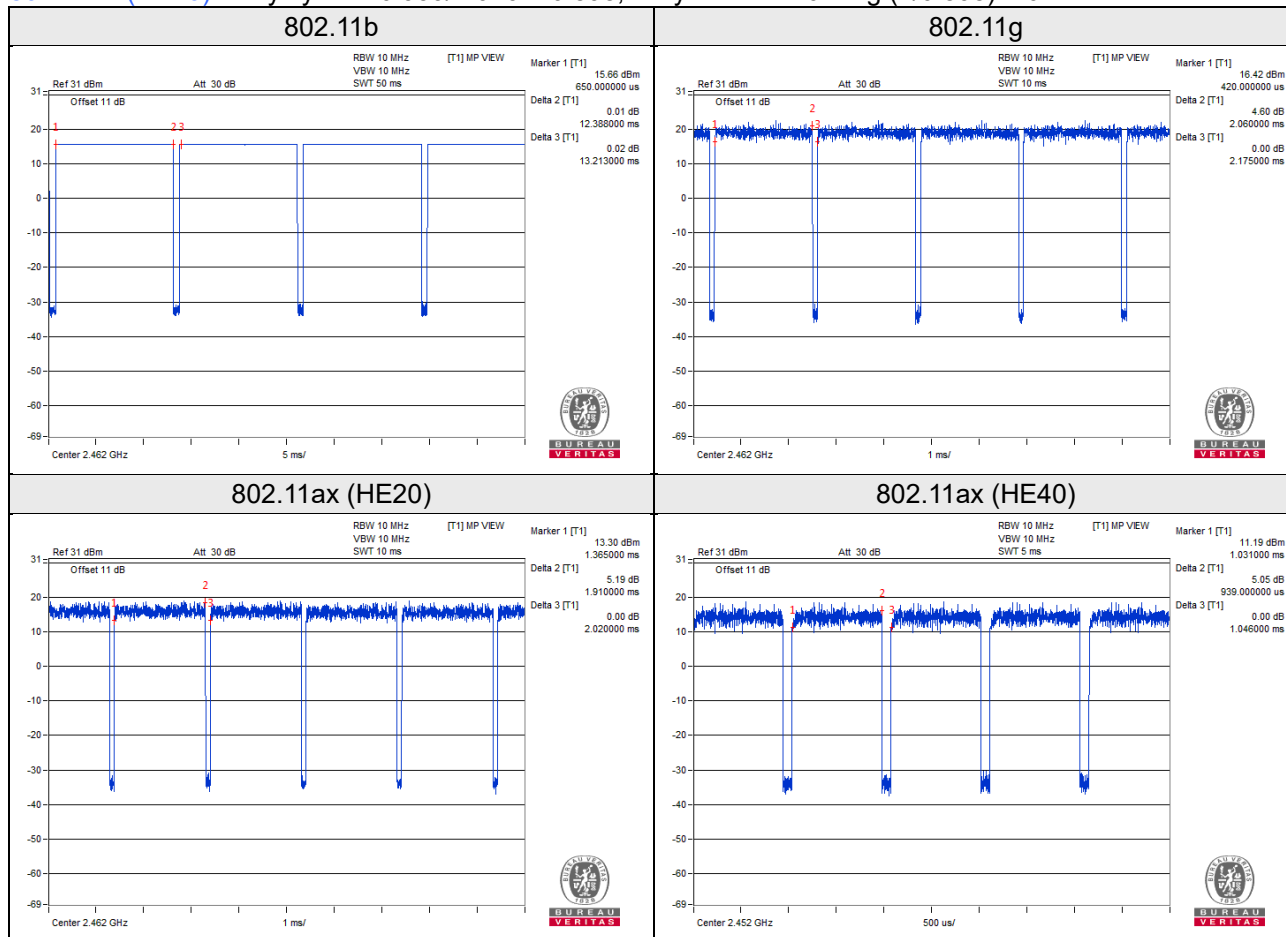
Duty cycle of test signal is < 98%, duty factor is required.

802.11b: Duty cycle = $12.388/13.213 = 0.938$, Duty factor = $10 * \log(1/0.938) = 0.28$

802.11g: Duty cycle = $2.060/2.175 = 0.947$, Duty factor = $10 * \log(1/0.947) = 0.24$

802.11ax (HE20): Duty cycle = $1.910/2.020 = 0.946$, Duty factor = $10 * \log(1/0.946) = 0.24$

802.11ax (HE40): Duty cycle = $0.939/1.046 = 0.898$, Duty factor = $10 * \log(1/0.898) = 0.47$



3TX

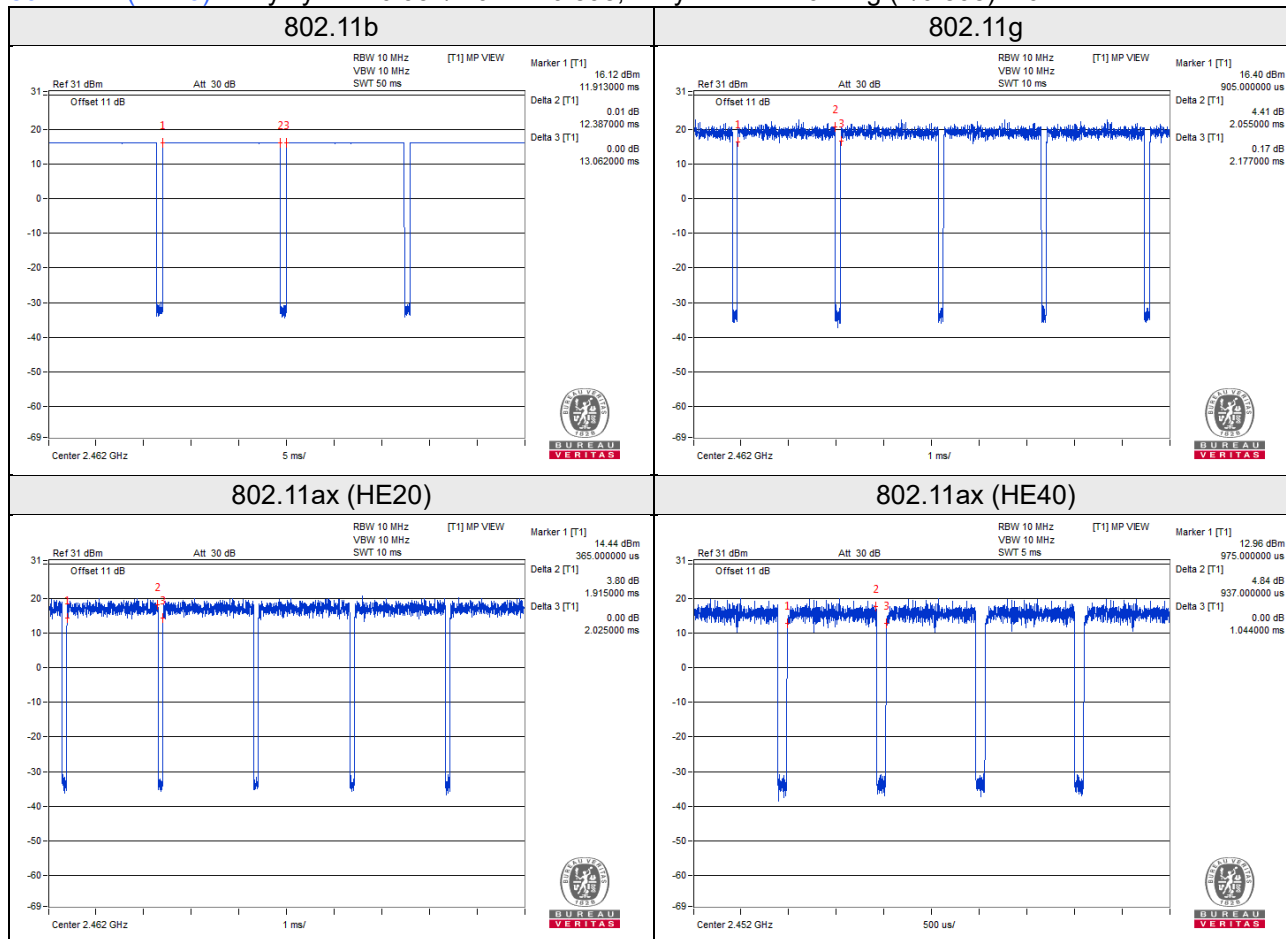
Duty cycle of test signal is < 98%, duty factor is required.

802.11b: Duty cycle = $12.387/13.062 = 0.948$, Duty factor = $10 * \log(1/0.948) = 0.23$

802.11g: Duty cycle = $2.055/2.177 = 0.944$, Duty factor = $10 * \log(1/0.944) = 0.25$

802.11ax (HE20): Duty cycle = $1.915/2.025 = 0.946$, Duty factor = $10 * \log(1/0.946) = 0.24$

802.11ax (HE40): Duty cycle = $0.937/1.044 = 0.898$, Duty factor = $10 * \log(1/0.898) = 0.47$



Test Mode I (External antenna – PN: ATS-OP-245-810-4RPSP-36 + Eth7 Radio)

1TX

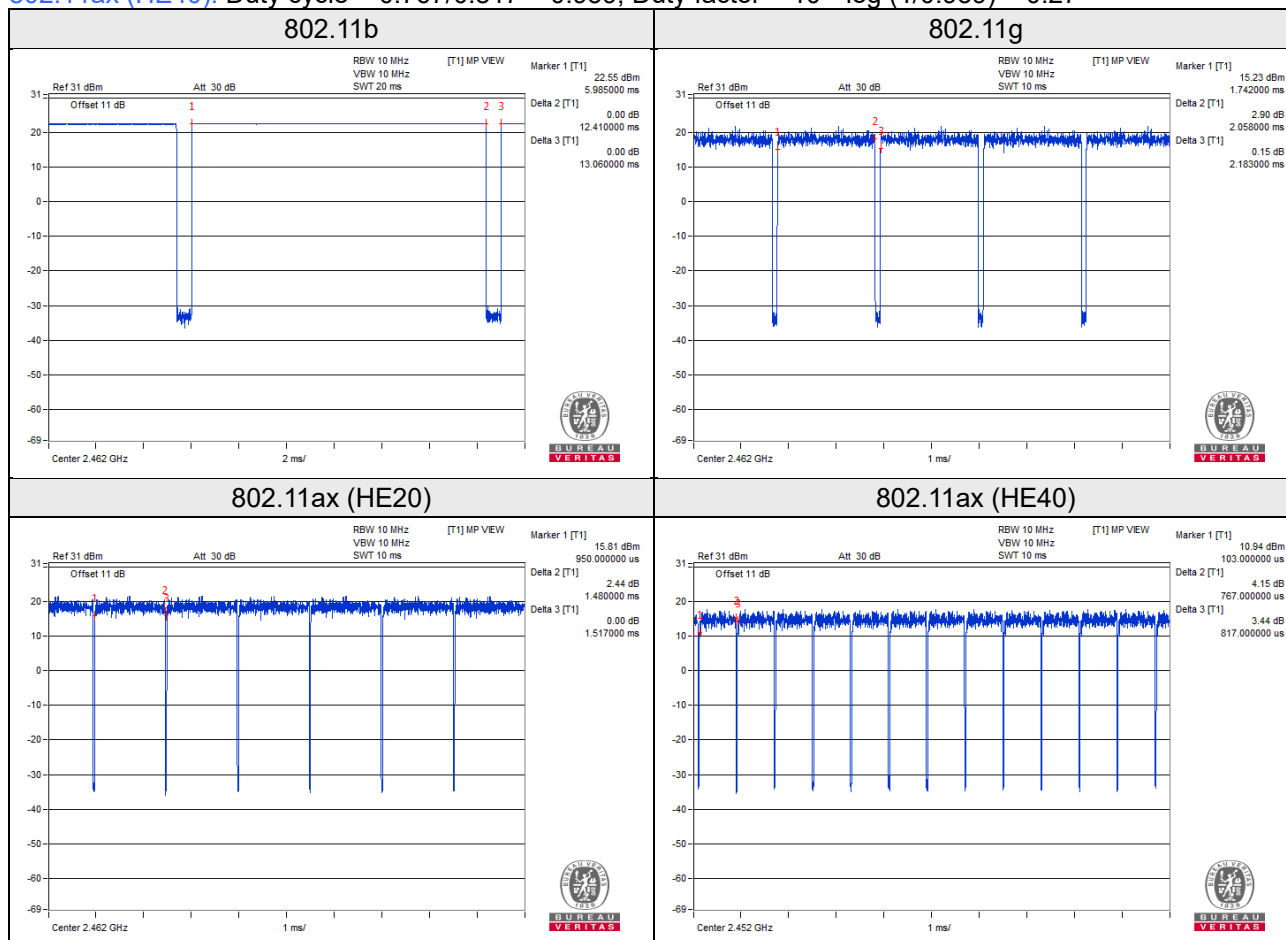
Duty cycle of test signal is < 98%, duty factor is required.

802.11b: Duty cycle = $12.410/13.060 = 0.950$, Duty factor = $10 * \log(1/0.950) = 0.22$

802.11g: Duty cycle = $2.058/2.183 = 0.943$, Duty factor = $10 * \log(1/0.943) = 0.26$

802.11ax (HE20): Duty cycle = $1.480/1.517 = 0.976$, Duty factor = $10 * \log(1/0.976) = 0.11$

802.11ax (HE40): Duty cycle = $0.767/0.817 = 0.939$, Duty factor = $10 * \log(1/0.939) = 0.27$



2TX

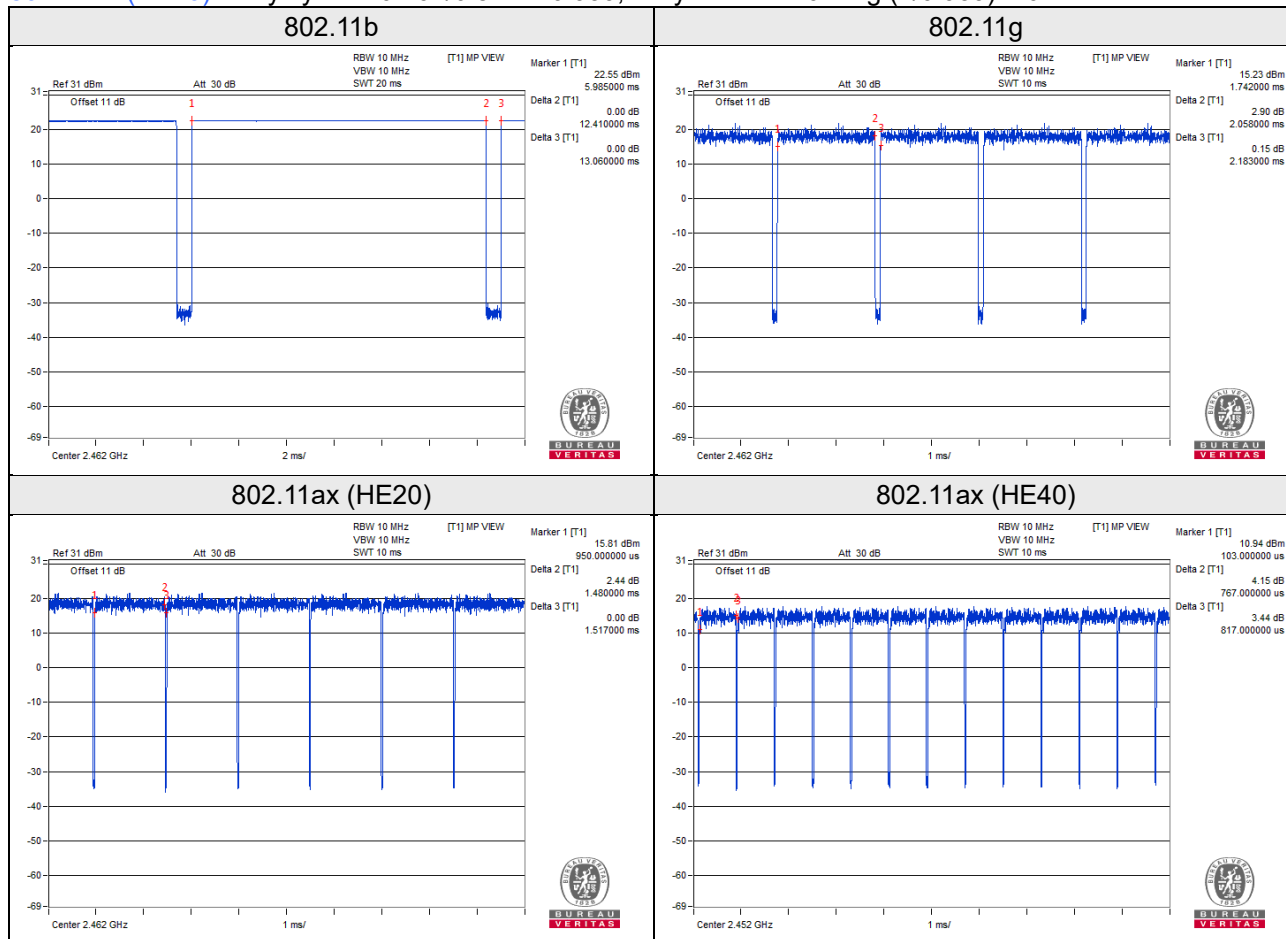
Duty cycle of test signal is < 98%, duty factor is required.

802.11b: Duty cycle = $12.410/13.060 = 0.950$, Duty factor = $10 * \log(1/0.950) = 0.22$

802.11g: Duty cycle = $2.058/2.183 = 0.943$, Duty factor = $10 * \log(1/0.943) = 0.26$

802.11ax (HE20): Duty cycle = $1.480/1.517 = 0.976$, Duty factor = $10 * \log(1/0.976) = 0.11$

802.11ax (HE40): Duty cycle = $0.767/0.817 = 0.939$, Duty factor = $10 * \log(1/0.939) = 0.27$



Test Mode K (External antenna – PN: ATS-OP-245-810-4RPSP-36 + Eth8 Radio)

1TX

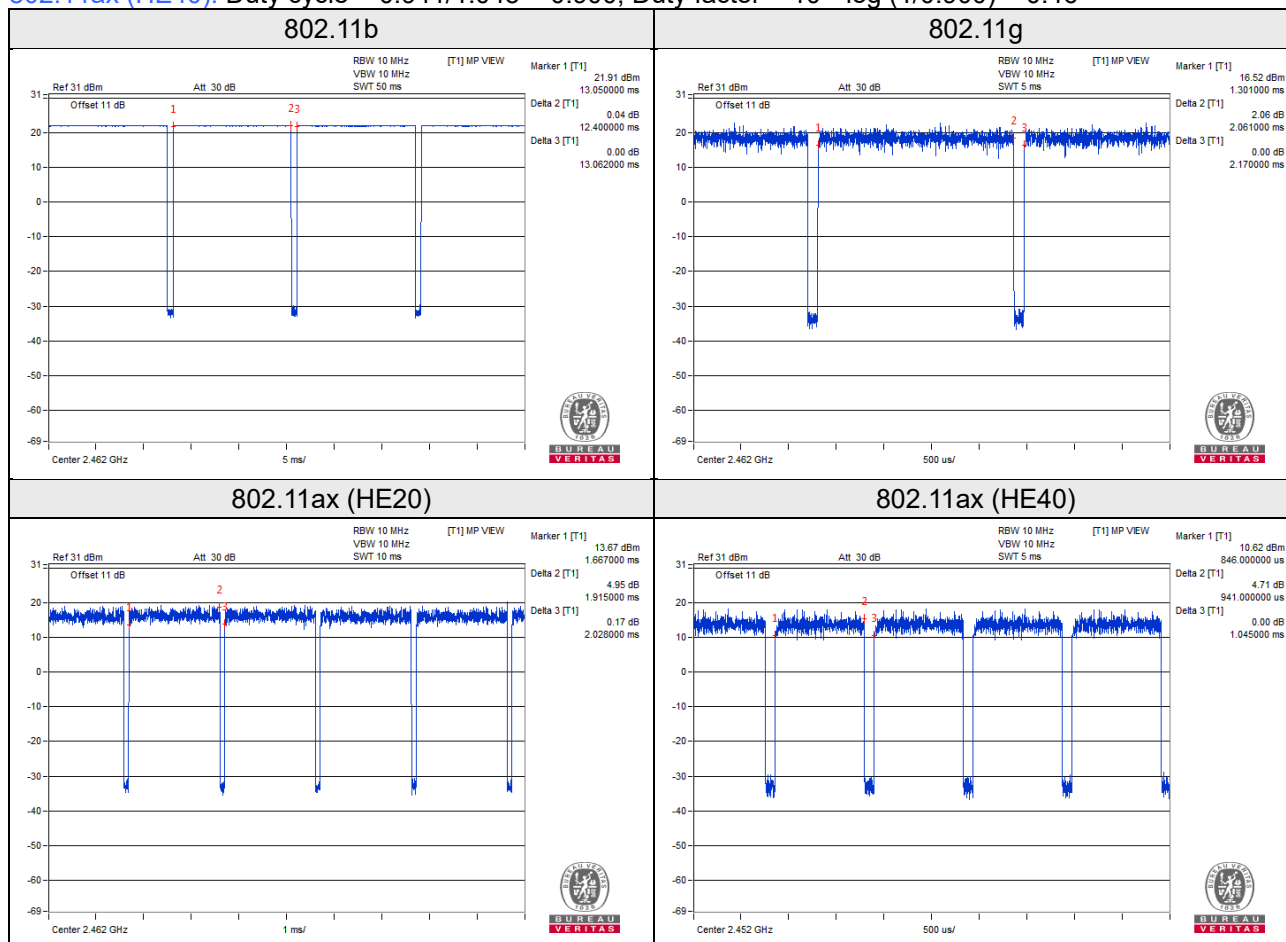
Duty cycle of test signal is < 98%, duty factor is required.

802.11b: Duty cycle = 12.400/13.062 = 0.949, Duty factor = 10 * log (1/0.949) = 0.23

802.11g: Duty cycle = 2.061/2.170 = 0.950, Duty factor = 10 * log (1/0.950) = 0.22

802.11ax (HE20): Duty cycle = 1.915/2.028 = 0.944, Duty factor = 10 * log (1/0.944) = 0.25

802.11ax (HE40): Duty cycle = 0.941/1.045 = 0.900, Duty factor = 10 * log (1/0.900) = 0.46



2TX

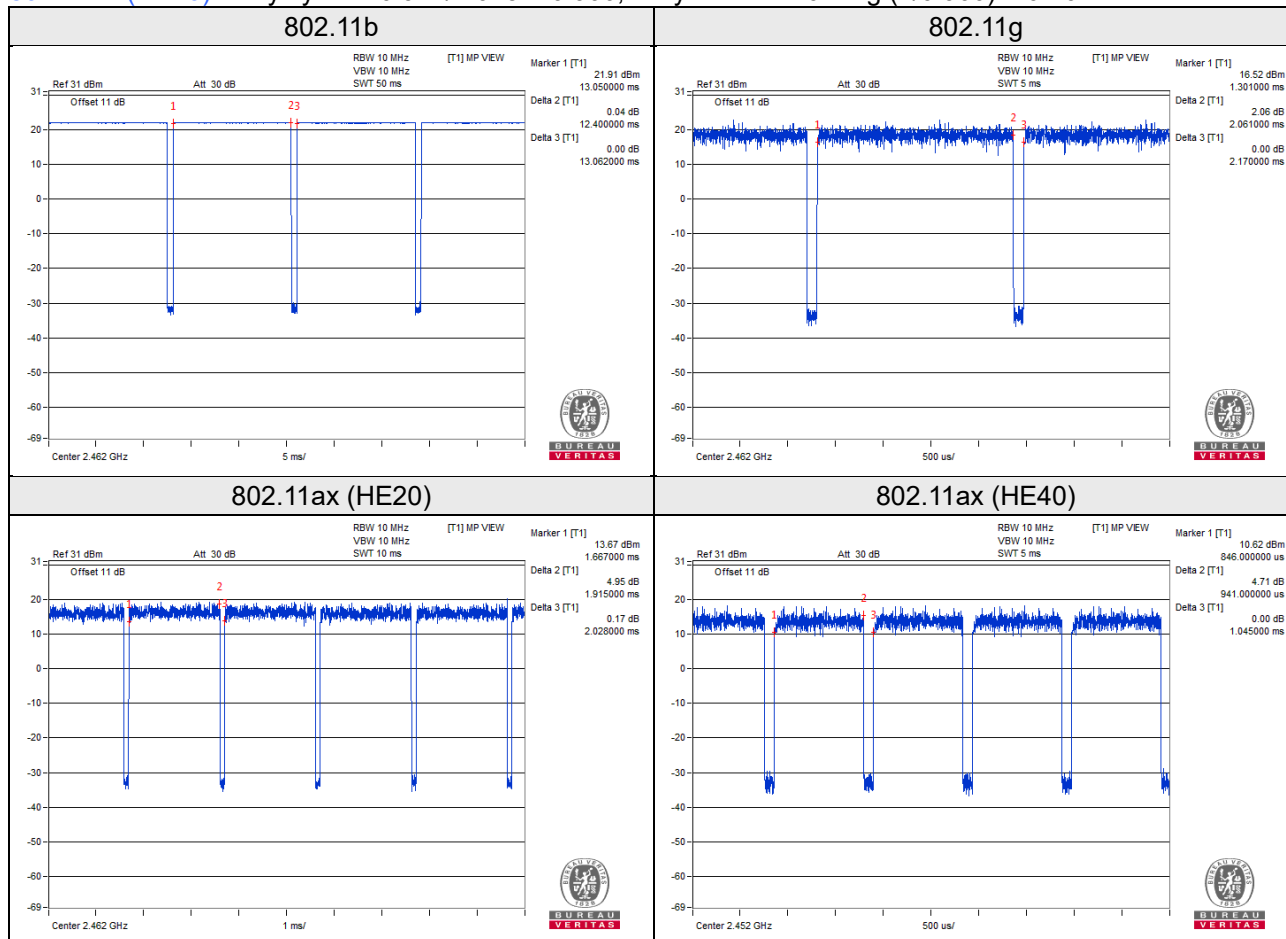
Duty cycle of test signal is < 98%, duty factor is required.

802.11b: Duty cycle = $12.400/13.062 = 0.949$, Duty factor = $10 * \log(1/0.949) = 0.23$

802.11g: Duty cycle = $2.061/2.170 = 0.950$, Duty factor = $10 * \log(1/0.950) = 0.22$

802.11ax (HE20): Duty cycle = $1.915/2.028 = 0.944$, Duty factor = $10 * \log(1/0.944) = 0.25$

802.11ax (HE40): Duty cycle = $0.941/1.045 = 0.900$, Duty factor = $10 * \log(1/0.900) = 0.46$



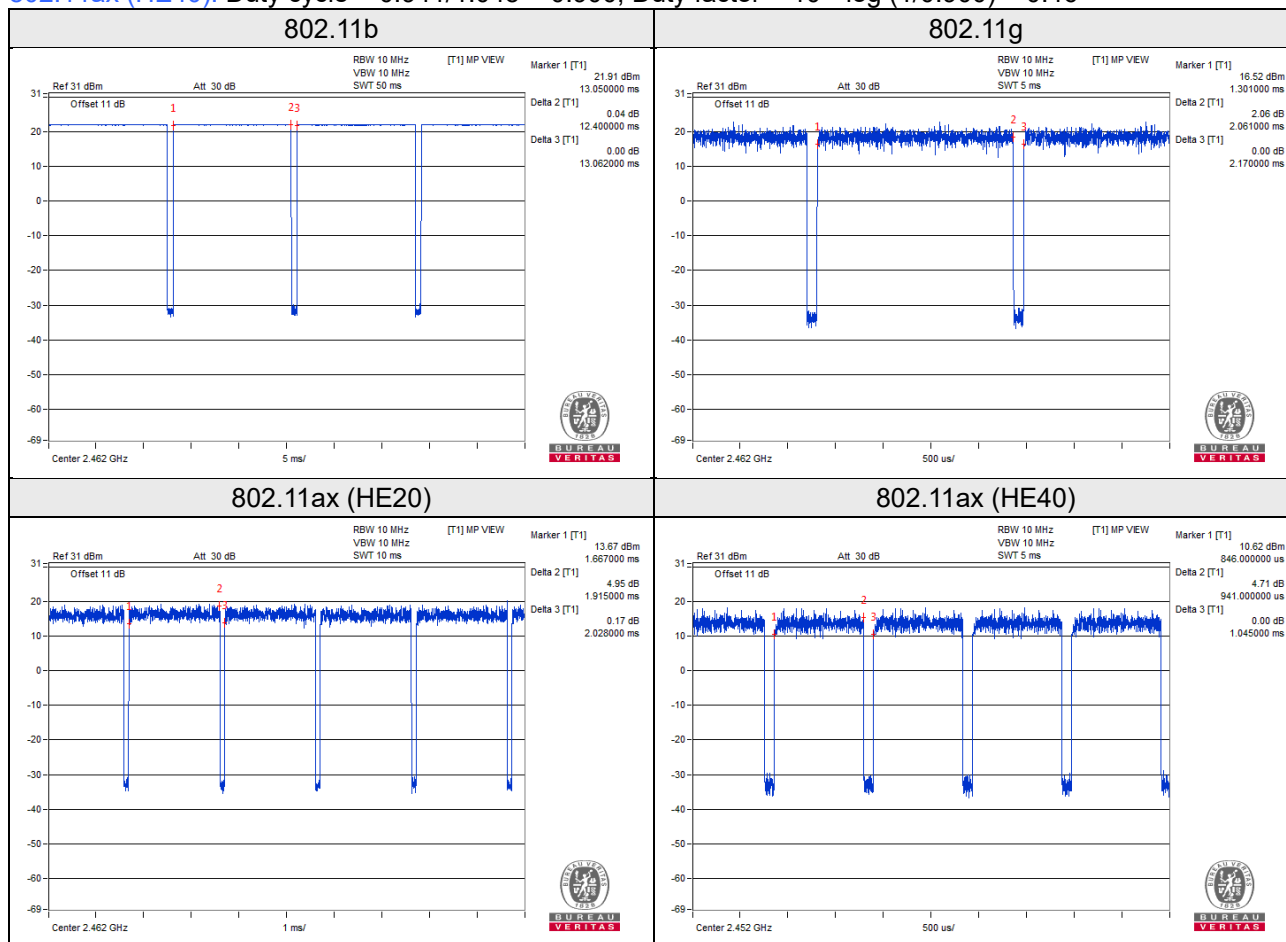
3TX

802.11b: Duty cycle = $12.400/13.062 = 0.949$, Duty factor = $10 * \log (1/0.949) = 0.23$

802.11g: Duty cycle = $2.061/2.170 = 0.950$, Duty factor = $10 * \log (1/0.950) = 0.22$

802.11ax (HE20): Duty cycle = $1.915/2.028 = 0.944$, Duty factor = $10 * \log (1/0.944) = 0.25$

802.11ax (HE40): Duty cycle = $0.941/1.045 = 0.900$, Duty factor = $10 * \log (1/0.900) = 0.46$



4TX

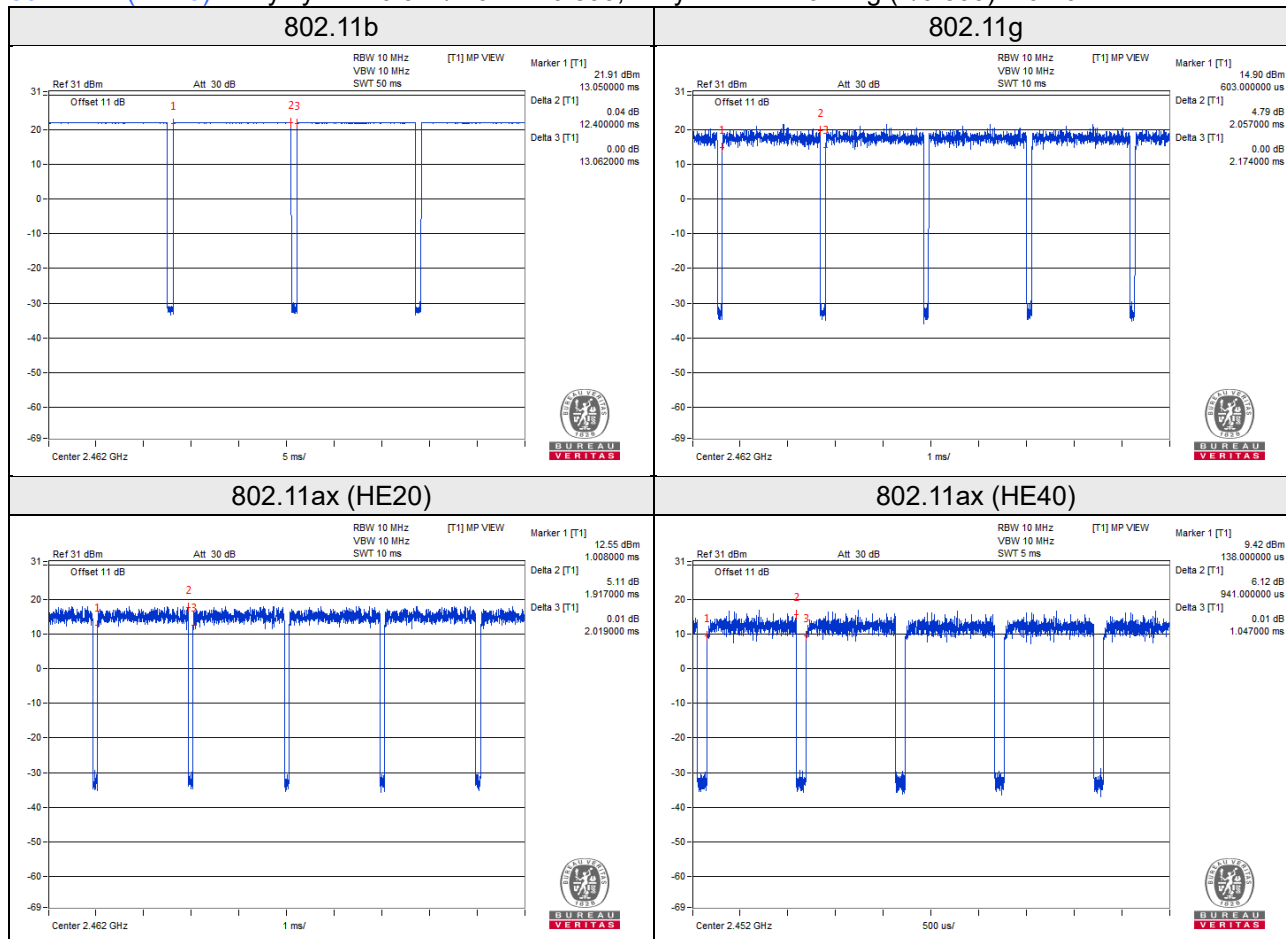
Duty cycle of test signal is < 98%, duty factor is required.

802.11b: Duty cycle = $12.400/13.062 = 0.949$, Duty factor = $10 * \log(1/0.949) = 0.23$

802.11g: Duty cycle = $2.057/2.174 = 0.946$, Duty factor = $10 * \log(1/0.946) = 0.24$

802.11ax (HE20): Duty cycle = $1.917/2.019 = 0.949$, Duty factor = $10 * \log(1/0.949) = 0.23$

802.11ax (HE40): Duty cycle = $0.941/1.047 = 0.899$, Duty factor = $10 * \log(1/0.899) = 0.46$



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

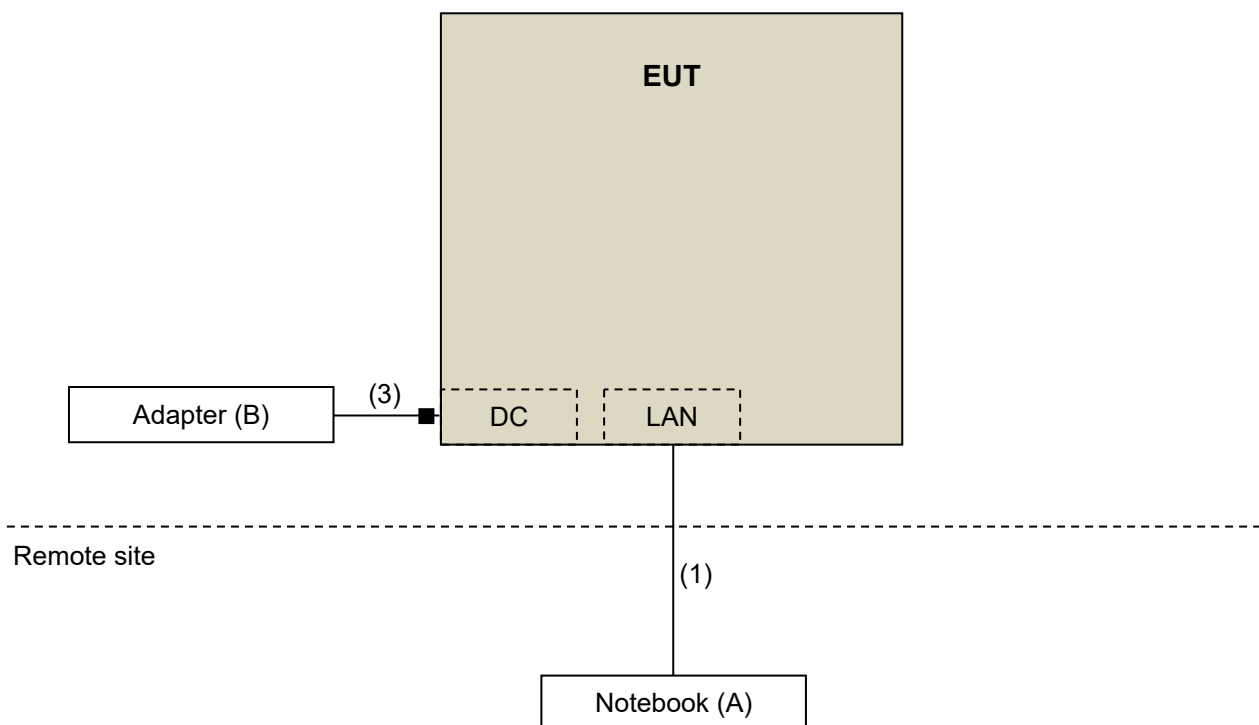
Note:

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.

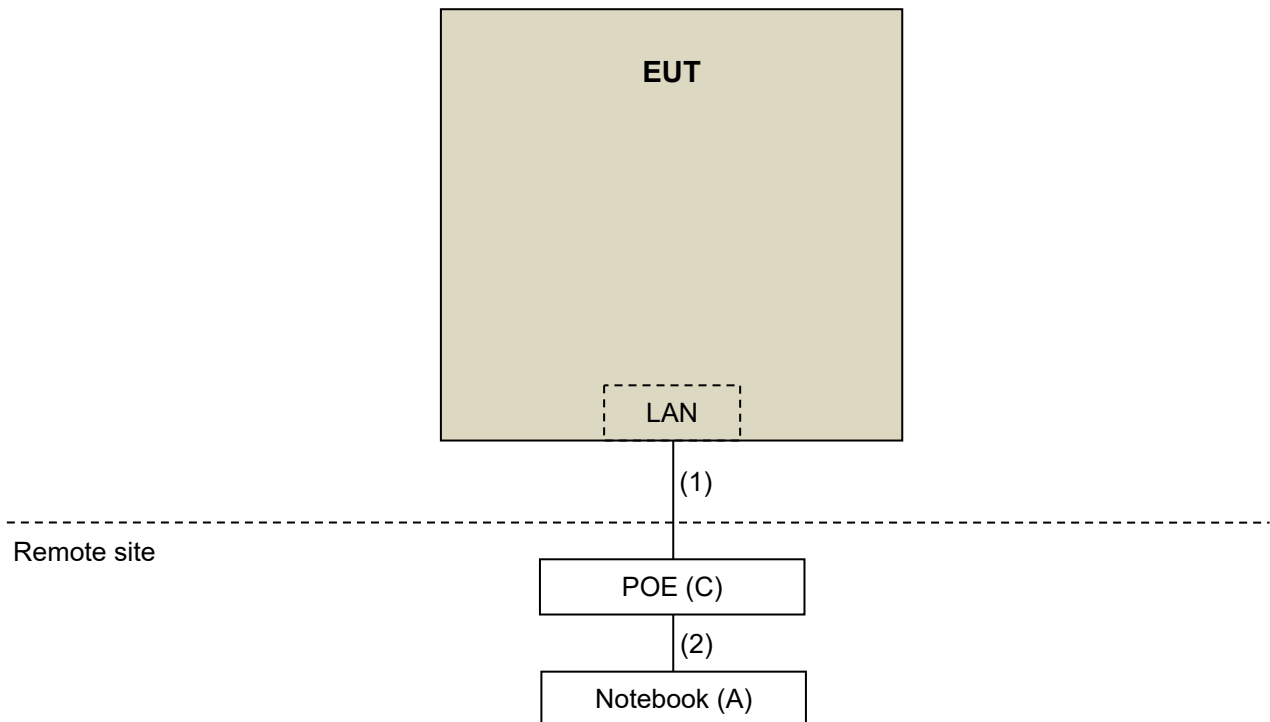
ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	RJ45 cable	1	6	N	0	Cat5e
2.	RJ45 cable	1	1.5	N	0	Cat5e
3.	DC cable	1	1.5	-	1	Provided by manufacturer

3.4.1 Configuration of System under Test

Adapter Mode



POE Mode



3.5 General Description of Applied Standards and References

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

Test standard:

FCC Part 15, Subpart C (15.247)

ANSI C63.10-2013

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

References Test Guidance:

KDB 558074 D01 15.247 Meas Guidance v05r02

KDB 662911 D01 Multiple Transmitter Output v02r01

All test items have been performed as a reference to the above KDB test guidance.

4 Test Types and Results

4.1 Radiated Emission and Bandedge Measurement

4.1.1 Limits of Radiated Emission and Bandedge Measurement

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 30dB below the highest level of the desired power:

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

Note:

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

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
			Dec. 31, 2019	Dec. 30, 2020
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100040	Sep. 25, 2018	Sep. 24, 2019
			Sep. 23, 2019	Sep. 22, 2020
BILOG Antenna SCHWARZBECK	VULB9168	9168-155	Nov. 21, 2018	Nov. 20, 2019
			Nov. 11, 2019	Nov. 10, 2020
HORN Antenna SCHWARZBECK	9120D	9120D-1170	Nov. 25, 2018	Nov. 24, 2019
			Nov. 24, 2019	Nov. 23, 2020
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170241	Nov. 25, 2018	Nov. 24, 2019
			Nov. 24, 2019	Nov. 23, 2020
Loop Antenna TESEQ	EM-6879	269	Sep. 07, 2018	Sep. 06, 2019
	HLA 6121	45745	Jul. 01, 2019	Jun. 30, 2020
Preamplifier Agilent (Below 1GHz)	8447D	2944A10631	Aug. 08, 2018	Aug. 07, 2019
			Jul. 11, 2019	Jul. 10, 2020
Preamplifier KEYSIGHT (Above 1GHz)	83017A	MY53270295	Jul. 02, 2018	Jul. 01, 2019
			Jun. 11, 2019	Jun. 10, 2020
RF Coaxial Cable WORKEN With 5dB PAD	8D-FB	Cable-CH4-01	Aug. 21, 2018	Aug. 20, 2019
			Aug. 20, 2019	Aug. 19, 2020
RF Coaxial Cable EMCI	EMC102-KM-KM-3000	150929	Aug. 21, 2018	Aug. 20, 2019
			Aug. 20, 2019	Aug. 19, 2020
RF Coaxial Cable EMCI	EMC102-KM-KM-600	150928	Aug. 21, 2018	Aug. 20, 2019
			Aug. 20, 2019	Aug. 19, 2020
RF signal cable HUBER+SUHNER	SUCOFLEX 104	MY 13380+295012/04	Aug. 08, 2018	Aug. 07, 2019
			Jul. 11, 2019	Jul. 10, 2020
RF signal cable HUBER+SUHNER	SUCOFLEX 104	Cable-CH4-03 (250724)	Aug. 08, 2018	Aug. 07, 2019
			Jul. 11, 2019	Jul. 10, 2020
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
			Sep. 05, 2019	Sep. 04, 2020
USB Wideband Power Sensor KEYSIGHT	U2021XA	MY55050005/MY55190004/MY55190007/MY55210005	Jul. 17, 2018	Jul. 16, 2019
			Jul. 15, 2019	Jul. 14, 2020

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.

Test Mode A (Internal antenna + Eth7 Radio): 802.11b: RBW = 1MHz, VBW = 100Hz; 802.11g: RBW = 1MHz, VBW = 1kHz; 802.11ax (HE20): RBW = 1MHz, VBW = 1kHz; 802.11ax (HE40): RBW = 1MHz, VBW = 3kHz

Test Mode C (Internal antenna + Eth8 Radio): 802.11b: RBW = 1MHz, VBW = 100Hz; 802.11g: RBW = 1MHz, VBW = 1kHz; 802.11ax (HE20): RBW = 1MHz, VBW = 1kHz; 802.11ax (HE40): RBW = 1MHz, VBW = 3kHz

Test Mode E (External antenna – PN: ATS-OO-245-46-4RPSP-36 + Eth7 Radio): 802.11b: RBW = 1MHz, VBW = 100Hz; 802.11g: RBW = 1MHz, VBW = 1kHz; 802.11ax (HE20): RBW = 1MHz, VBW = 1kHz; 802.11ax (HE40): RBW = 1MHz, VBW = 3kHz

Test Mode G (External antenna – PN: ATS-OO-245-46-4RPSP-36 + Eth8 Radio): 802.11b: RBW = 1MHz, VBW = 100Hz; 802.11g: RBW = 1MHz, VBW = 1kHz; 802.11ax (HE20): RBW = 1MHz, VBW = 1kHz; 802.11ax (HE40): RBW = 1MHz, VBW = 3kHz

Test Mode I (External antenna – PN: ATS-OP-245-810-4RPSP-36 + Eth7 Radio): 802.11b: RBW = 1MHz, VBW = 100Hz; 802.11g: RBW = 1MHz, VBW = 1kHz; 802.11ax (HE20): RBW = 1MHz, VBW = 1kHz; 802.11ax (HE40): RBW = 1MHz, VBW = 3kHz

Test Mode K (External antenna – PN: ATS-OP-245-810-4RPSP-36 + Eth8 Radio): 802.11b: RBW = 1MHz, VBW = 100Hz; 802.11g: RBW = 1MHz, VBW = 1kHz; 802.11ax (HE20): RBW = 1MHz, VBW = 1kHz; 802.11ax (HE40): RBW = 1MHz, VBW = 3kHz

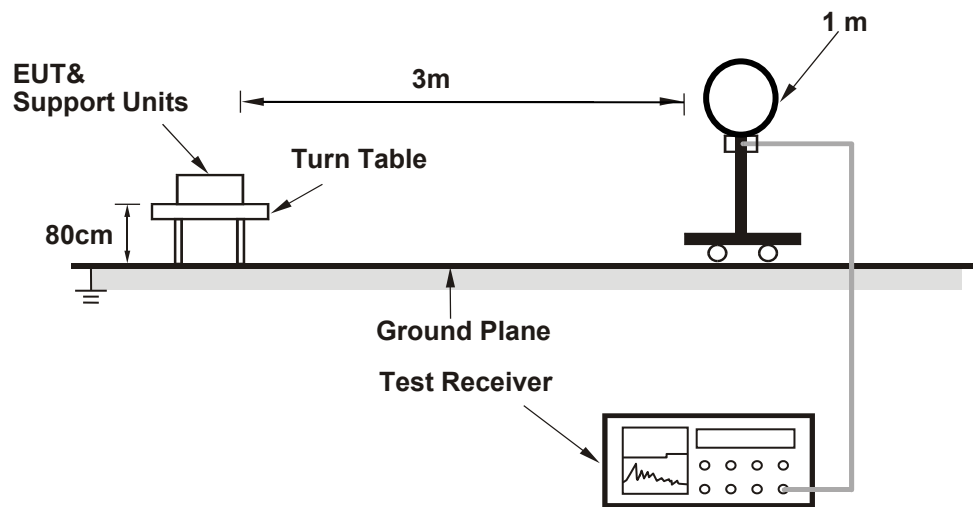
4. All modes of operation were investigated and the worst-case emissions are reported.

4.1.4 Deviation from Test Standard

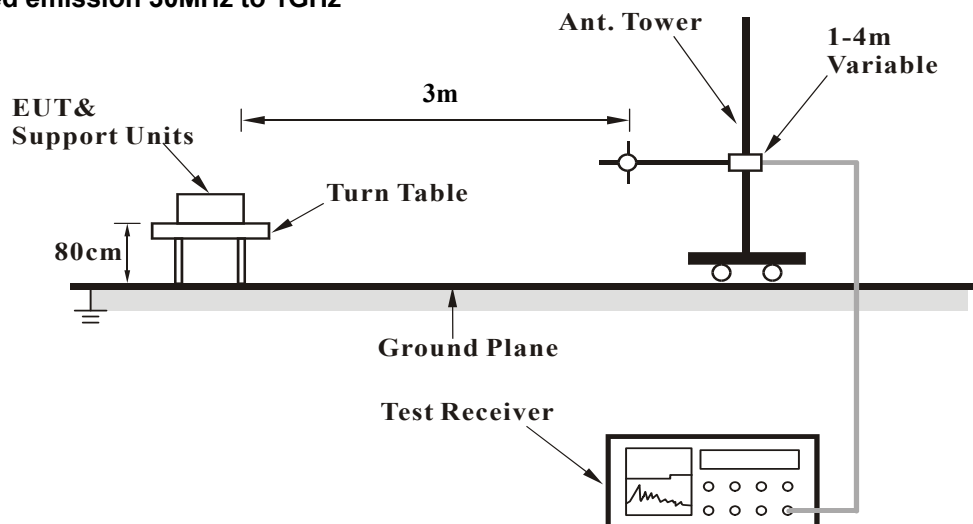
No deviation.

4.1.5 Test Setup

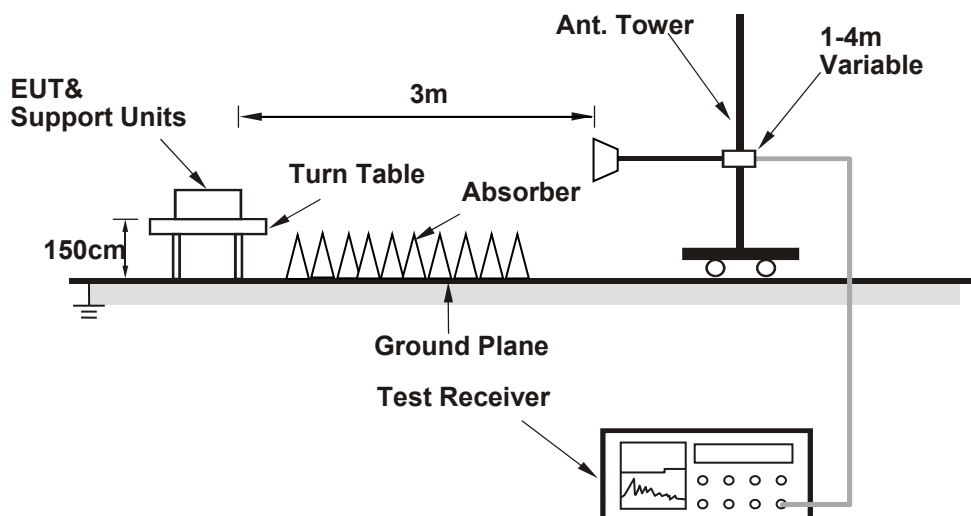
For Radiated emission below 30MHz



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 + Eth7 Radio)

1TX

802.11b

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	58.0 PK	74.0	-16.0	1.03 H	111	24.2	33.8
2	2390.00	46.3 AV	54.0	-7.7	1.03 H	111	12.5	33.8
3	*2412.00	99.7 PK			1.05 H	100	65.9	33.8
4	*2412.00	96.1 AV			1.05 H	100	62.3	33.8
5	4824.00	50.1 PK	74.0	-23.9	3.00 H	211	36.9	13.2
6	4824.00	38.0 AV	54.0	-16.0	3.00 H	211	24.8	13.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	58.3 PK	74.0	-15.7	3.29 V	251	24.5	33.8
2	2390.00	46.8 AV	54.0	-7.2	3.29 V	251	13.0	33.8
3	*2412.00	109.7 PK			3.27 V	255	75.9	33.8
4	*2412.00	106.1 AV			3.27 V	255	72.3	33.8
5	4824.00	50.5 PK	74.0	-23.5	2.56 V	211	37.3	13.2
6	4824.00	38.1 AV	54.0	-15.9	2.56 V	211	24.9	13.2

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

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	97.5 PK			1.09 H	109	63.7	33.8
2	*2437.00	94.2 AV			1.09 H	109	60.4	33.8
3	4874.00	50.1 PK	74.0	-23.9	2.00 H	333	36.9	13.2
4	4874.00	37.6 AV	54.0	-16.4	2.00 H	333	24.4	13.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	107.5 PK			3.39 V	262	73.7	33.8
2	*2437.00	104.2 AV			3.39 V	262	70.4	33.8
3	4874.00	50.2 PK	74.0	-23.8	1.59 V	115	37.0	13.2
4	4874.00	37.7 AV	54.0	-16.3	1.59 V	115	24.5	13.2

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

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	97.8 PK			1.09 H	125	63.9	33.9
2	*2462.00	94.2 AV			1.09 H	125	60.3	33.9
3	2483.50	58.4 PK	74.0	-15.6	1.09 H	103	24.5	33.9
4	2483.50	46.0 AV	54.0	-8.0	1.09 H	103	12.1	33.9
5	4924.00	50.4 PK	74.0	-23.6	3.09 H	311	37.1	13.3
6	4924.00	38.3 AV	54.0	-15.7	3.09 H	311	25.0	13.3
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	107.8 PK			1.90 V	169	73.9	33.9
2	*2462.00	104.2 AV			1.90 V	169	70.3	33.9
3	2483.50	59.0 PK	74.0	-15.0	2.00 V	152	25.1	33.9
4	2483.50	49.2 AV	54.0	-4.8	2.00 V	152	15.3	33.9
5	4924.00	50.8 PK	74.0	-23.2	3.09 V	255	37.5	13.3
6	4924.00	38.5 AV	54.0	-15.5	3.09 V	255	25.2	13.3

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

802.11g

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	63.3 PK	74.0	-10.7	1.20 H	119	29.5	33.8
2	2390.00	46.7 AV	54.0	-7.3	1.20 H	119	12.9	33.8
3	*2412.00	97.1 PK			1.09 H	100	63.3	33.8
4	*2412.00	86.9 AV			1.09 H	100	53.1	33.8
5	4824.00	50.2 PK	74.0	-23.8	4.00 H	211	37.0	13.2
6	4824.00	38.4 AV	54.0	-15.6	4.00 H	211	25.2	13.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	73.3 PK	74.0	-0.7	3.22 V	251	39.5	33.8
2	2390.00	52.0 AV	54.0	-2.0	3.22 V	251	18.2	33.8
3	*2412.00	107.1 PK			3.28 V	253	73.3	33.8
4	*2412.00	96.9 AV			3.28 V	253	63.1	33.8
5	4824.00	50.3 PK	74.0	-23.7	1.99 V	222	37.1	13.2
6	4824.00	38.5 AV	54.0	-15.5	1.99 V	222	25.3	13.2

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

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	97.1 PK			1.09 H	116	63.3	33.8
2	*2437.00	87.5 AV			1.09 H	116	53.7	33.8
3	4874.00	50.3 PK	74.0	-23.7	2.11 H	144	37.1	13.2
4	4874.00	38.5 AV	54.0	-15.5	2.11 H	144	25.3	13.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	107.1 PK			3.26 V	258	73.3	33.8
2	*2437.00	97.5 AV			3.26 V	258	63.7	33.8
3	4874.00	50.7 PK	74.0	-23.3	3.06 V	333	37.5	13.2
4	4874.00	38.8 AV	54.0	-15.2	3.06 V	333	25.6	13.2

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

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	92.2 PK			1.00 H	99	58.3	33.9
2	*2462.00	82.2 AV			1.00 H	99	48.3	33.9
3	2483.50	63.5 PK	74.0	-10.5	1.15 H	109	29.6	33.9
4	2483.50	46.4 AV	54.0	-7.6	1.15 H	109	12.5	33.9
5	4924.00	50.3 PK	74.0	-23.7	2.55 H	210	37.0	13.3
6	4924.00	38.1 AV	54.0	-15.9	2.55 H	210	24.8	13.3
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	102.2 PK			3.26 V	248	68.3	33.9
2	*2462.00	92.2 AV			3.26 V	248	58.3	33.9
3	2483.50	73.5 PK	74.0	-0.5	3.15 V	233	39.6	33.9
4	2483.50	50.2 AV	54.0	-3.8	3.15 V	233	16.3	33.9
5	4924.00	50.5 PK	74.0	-23.5	2.96 V	211	37.2	13.3
6	4924.00	38.3 AV	54.0	-15.7	2.96 V	211	25.0	13.3

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

802.11ax (HE20)

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	62.9 PK	74.0	-11.1	1.05 H	109	29.1	33.8
2	2390.00	47.3 AV	54.0	-6.7	1.05 H	109	13.5	33.8
3	*2412.00	97.0 PK			1.00 H	100	63.2	33.8
4	*2412.00	85.5 AV			1.00 H	100	51.7	33.8
5	4824.00	50.1 PK	74.0	-23.9	3.01 H	333	36.9	13.2
6	4824.00	38.0 AV	54.0	-16.0	3.01 H	333	24.8	13.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	72.9 PK	74.0	-1.1	3.29 V	257	39.1	33.8
2	2390.00	53.6 AV	54.0	-0.4	3.29 V	257	19.8	33.8
3	*2412.00	107.0 PK			3.21 V	255	73.2	33.8
4	*2412.00	95.5 AV			3.21 V	255	61.7	33.8
5	4824.00	50.3 PK	74.0	-23.7	2.11 V	100	37.1	13.2
6	4824.00	38.1 AV	54.0	-15.9	2.11 V	100	24.9	13.2

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

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	100.4 PK			1.10 H	119	66.6	33.8
2	*2437.00	87.1 AV			1.10 H	119	53.3	33.8
3	4874.00	50.4 PK	74.0	-23.6	3.09 H	315	37.2	13.2
4	4874.00	38.3 AV	54.0	-15.7	3.09 H	315	25.1	13.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	110.4 PK			3.22 V	260	76.6	33.8
2	*2437.00	97.1 AV			3.22 V	260	63.3	33.8
3	4874.00	50.7 PK	74.0	-23.3	3.11 V	153	37.5	13.2
4	4874.00	38.5 AV	54.0	-15.5	3.11 V	153	25.3	13.2

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

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	96.5 PK			1.10 H	102	62.6	33.9
2	*2462.00	83.4 AV			1.10 H	102	49.5	33.9
3	2483.50	63.1 PK	74.0	-10.9	1.08 H	120	29.2	33.9
4	2483.50	46.5 AV	54.0	-7.5	1.08 H	120	12.6	33.9
5	4924.00	50.2 PK	74.0	-23.8	3.01 H	142	36.9	13.3
6	4924.00	38.3 AV	54.0	-15.7	3.01 H	142	25.0	13.3
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	106.5 PK			3.24 V	283	72.6	33.9
2	*2462.00	93.4 AV			3.24 V	283	59.5	33.9
3	2483.50	73.1 PK	74.0	-0.9	3.12 V	281	39.2	33.9
4	2483.50	52.2 AV	54.0	-1.8	3.12 V	281	18.3	33.9
5	4924.00	50.4 PK	74.0	-23.6	2.21 V	102	37.1	13.3
6	4924.00	38.4 AV	54.0	-15.6	2.21 V	102	25.1	13.3

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

802.11ax (HE40)

CHANNEL	TX Channel 3	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	59.5 PK	74.0	-14.5	1.00 H	109	25.7	33.8
2	2390.00	47.4 AV	54.0	-6.6	1.00 H	109	13.6	33.8
3	*2422.00	94.0 PK			1.05 H	106	60.2	33.8
4	*2422.00	81.5 AV			1.05 H	106	47.7	33.8
5	2483.50	57.6 PK	74.0	-16.4	1.07 H	112	23.7	33.9
6	2483.50	45.9 AV	54.0	-8.1	1.07 H	112	12.0	33.9
7	4844.00	50.4 PK	74.0	-23.6	1.52 H	210	37.2	13.2
8	4844.00	38.5 AV	54.0	-15.5	1.52 H	210	25.3	13.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	69.5 PK	74.0	-4.5	3.25 V	245	35.7	33.8
2	2390.00	53.0 AV	54.0	-1.0	3.25 V	245	19.2	33.8
3	*2422.00	104.0 PK			3.25 V	256	70.2	33.8
4	*2422.00	91.5 AV			3.25 V	256	57.7	33.8
5	2483.50	57.9 PK	74.0	-16.1	3.15 V	255	24.0	33.9
6	2483.50	46.1 AV	54.0	-7.9	3.15 V	255	12.2	33.9
7	4844.00	50.7 PK	74.0	-23.3	2.15 V	147	37.5	13.2
8	4844.00	38.8 AV	54.0	-15.2	2.15 V	147	25.6	13.2

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

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	63.3 PK	74.0	-10.7	1.00 H	99	29.5	33.8
2	2390.00	49.0 AV	54.0	-5.0	1.00 H	99	15.2	33.8
3	*2437.00	95.4 PK			1.09 H	102	61.6	33.8
4	*2437.00	82.6 AV			1.09 H	102	48.8	33.8
5	2483.50	59.4 PK	74.0	-14.6	2.00 H	101	25.5	33.9
6	2483.50	46.8 AV	54.0	-7.2	2.00 H	101	12.9	33.9
7	4874.00	50.2 PK	74.0	-23.8	1.11 H	301	37.0	13.2
8	4874.00	38.2 AV	54.0	-15.8	1.11 H	301	25.0	13.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	69.5 PK	74.0	-4.5	3.84 V	255	35.7	33.8
2	2390.00	53.8 AV	54.0	-0.2	3.84 V	255	20.0	33.8
3	*2437.00	105.4 PK			3.84 V	259	71.6	33.8
4	*2437.00	92.6 AV			3.84 V	259	58.8	33.8
5	2483.50	65.4 PK	74.0	-8.6	3.77 V	251	31.5	33.9
6	2483.50	49.6 AV	54.0	-4.4	3.77 V	251	15.7	33.9
7	4874.00	50.4 PK	74.0	-23.6	2.11 V	141	37.2	13.2
8	4874.00	38.4 AV	54.0	-15.6	2.11 V	141	25.2	13.2

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

CHANNEL	TX Channel 9	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	57.3 PK	74.0	-16.7	1.06 H	100	23.5	33.8
2	2390.00	45.9 AV	54.0	-8.1	1.06 H	100	12.1	33.8
3	*2452.00	94.1 PK			1.00 H	99	60.3	33.8
4	*2452.00	81.4 AV			1.00 H	99	47.6	33.8
5	2483.50	63.7 PK	74.0	-10.3	1.00 H	102	29.8	33.9
6	2483.50	47.1 AV	54.0	-6.9	1.00 H	102	13.2	33.9
7	4904.00	50.2 PK	74.0	-23.8	2.31 H	200	36.8	13.4
8	4904.00	38.2 AV	54.0	-15.8	2.31 H	200	24.8	13.4
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	60.4 PK	74.0	-13.6	3.65 V	266	26.6	33.8
2	2390.00	47.5 AV	54.0	-6.5	3.65 V	266	13.7	33.8
3	*2452.00	104.0 PK			3.88 V	270	70.2	33.8
4	*2452.00	91.0 AV			3.88 V	270	57.2	33.8
5	2483.50	73.3 PK	74.0	-0.7	3.80 V	266	39.4	33.9
6	2483.50	51.7 AV	54.0	-2.3	3.80 V	266	17.8	33.9
7	4904.00	50.3 PK	74.0	-23.7	2.11 V	111	36.9	13.4
8	4904.00	38.4 AV	54.0	-15.6	2.11 V	111	25.0	13.4

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

Test Mode C (Internal antenna + Eth8 Radio)

1TX

802.11b

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	57.8 PK	74.0	-16.2	1.06 H	251	24.0	33.8
2	2390.00	46.6 AV	54.0	-7.4	1.06 H	251	12.8	33.8
3	*2412.00	100.7 PK			1.00 H	266	66.9	33.8
4	*2412.00	96.3 AV			1.00 H	266	62.5	33.8
5	4824.00	52.2 PK	74.0	-21.8	1.54 H	166	39.0	13.2
6	4824.00	39.2 AV	54.0	-14.8	1.54 H	166	26.0	13.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	58.1 PK	74.0	-15.9	2.85 V	169	24.3	33.8
2	2390.00	46.9 AV	54.0	-7.1	2.85 V	169	13.1	33.8
3	*2412.00	106.9 PK			3.03 V	162	73.1	33.8
4	*2412.00	103.0 AV			3.03 V	162	69.2	33.8
5	4824.00	52.6 PK	74.0	-21.4	1.46 V	251	39.4	13.2
6	4824.00	39.8 AV	54.0	-14.2	1.46 V	251	26.6	13.2

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

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	100.6 PK			1.08 H	265	66.8	33.8
2	*2437.00	96.4 AV			1.08 H	265	62.6	33.8
3	4874.00	52.4 PK	74.0	-21.6	2.30 H	155	39.2	13.2
4	4874.00	39.1 AV	54.0	-14.9	2.30 H	155	25.9	13.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	107.0 PK			3.03 V	174	73.2	33.8
2	*2437.00	103.4 AV			3.03 V	174	69.6	33.8
3	4874.00	52.8 PK	74.0	-21.2	1.97 V	225	39.6	13.2
4	4874.00	40.0 AV	54.0	-14.0	1.97 V	225	26.8	13.2

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

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	100.8 PK			1.13 H	259	66.9	33.9
2	*2462.00	97.0 AV			1.13 H	259	63.1	33.9
3	2483.50	58.1 PK	74.0	-15.9	1.20 H	279	24.2	33.9
4	2483.50	46.5 AV	54.0	-7.5	1.20 H	279	12.6	33.9
5	4924.00	52.8 PK	74.0	-21.2	2.00 H	149	39.5	13.3
6	4924.00	39.6 AV	54.0	-14.4	2.00 H	149	26.3	13.3
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	107.1 PK			3.03 V	169	73.2	33.9
2	*2462.00	103.4 AV			3.03 V	169	69.5	33.9
3	2483.50	58.8 PK	74.0	-15.2	2.96 V	180	24.9	33.9
4	2483.50	46.8 AV	54.0	-7.2	2.96 V	180	12.9	33.9
5	4924.00	53.0 PK	74.0	-21.0	1.98 V	114	39.7	13.3
6	4924.00	39.8 AV	54.0	-14.2	1.98 V	114	26.5	13.3

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

802.11g

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	68.0 PK	74.0	-6.0	1.05 H	224	34.2	33.8
2	2390.00	48.0 AV	54.0	-6.0	1.05 H	224	14.2	33.8
3	*2412.00	100.1 PK			1.33 H	260	66.3	33.8
4	*2412.00	90.2 AV			1.33 H	260	56.4	33.8
5	4824.00	52.2 PK	74.0	-21.8	1.33 H	260	39.0	13.2
6	4824.00	39.0 AV	54.0	-15.0	1.33 H	260	25.8	13.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	73.7 PK	74.0	-0.3	2.78 V	226	39.9	33.8
2	2390.00	52.6 AV	54.0	-1.4	2.78 V	226	18.8	33.8
3	*2412.00	106.6 PK			2.78 V	246	72.8	33.8
4	*2412.00	96.6 AV			2.78 V	246	62.8	33.8
5	4824.00	52.7 PK	74.0	-21.3	1.98 V	254	39.5	13.2
6	4824.00	39.8 AV	54.0	-14.2	1.98 V	254	26.6	13.2

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

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	103.3 PK			1.00 H	267	69.5	33.8
2	*2437.00	93.0 AV			1.00 H	267	59.2	33.8
3	4874.00	52.5 PK	74.0	-21.5	3.00 H	154	39.3	13.2
4	4874.00	39.3 AV	54.0	-14.7	3.00 H	154	26.1	13.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	109.1 PK			2.22 V	226	75.3	33.8
2	*2437.00	99.1 AV			2.22 V	226	65.3	33.8
3	4874.00	53.1 PK	74.0	-20.9	1.68 V	279	39.9	13.2
4	4874.00	40.0 AV	54.0	-14.0	1.68 V	279	26.8	13.2

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

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	100.4 PK			1.14 H	253	66.5	33.9
2	*2462.00	90.2 AV			1.14 H	253	56.3	33.9
3	2483.50	68.8 PK	74.0	-5.2	1.25 H	241	34.9	33.9
4	2483.50	47.1 AV	54.0	-6.9	1.25 H	241	13.2	33.9
5	4924.00	52.1 PK	74.0	-21.9	2.61 H	152	38.8	13.3
6	4924.00	39.2 AV	54.0	-14.8	2.61 H	152	25.9	13.3
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	106.5 PK			2.71 V	225	72.6	33.9
2	*2462.00	96.6 AV			2.71 V	225	62.7	33.9
3	2483.50	73.7 PK	74.0	-0.3	2.27 V	230	39.8	33.9
4	2483.50	49.7 AV	54.0	-4.3	2.27 V	230	15.8	33.9
5	4924.00	52.8 PK	74.0	-21.2	1.74 V	163	39.5	13.3
6	4924.00	40.1 AV	54.0	-13.9	1.74 V	163	26.8	13.3

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

802.11ax (HE20)

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	68.6 PK	74.0	-5.4	1.28 H	266	34.8	33.8
2	2390.00	48.3 AV	54.0	-5.7	1.28 H	266	14.5	33.8
3	*2412.00	102.3 PK			1.12 H	253	68.5	33.8
4	*2412.00	89.5 AV			1.12 H	253	55.7	33.8
5	4824.00	52.1 PK	74.0	-21.9	2.30 H	199	38.9	13.2
6	4824.00	39.3 AV	54.0	-14.7	2.30 H	199	26.1	13.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	73.9 PK	74.0	-0.1	2.77 V	230	40.1	33.8
2	2390.00	52.7 AV	54.0	-1.3	2.77 V	230	18.9	33.8
3	*2412.00	108.3 PK			2.83 V	245	74.5	33.8
4	*2412.00	95.2 AV			2.83 V	245	61.4	33.8
5	4824.00	52.7 PK	74.0	-21.3	1.97 V	105	39.5	13.2
6	4824.00	39.9 AV	54.0	-14.1	1.97 V	105	26.7	13.2

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

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	106.3 PK			1.26 H	241	72.5	33.8
2	*2437.00	93.2 AV			1.26 H	241	59.4	33.8
3	4874.00	52.4 PK	74.0	-21.6	1.05 H	177	39.2	13.2
4	4874.00	39.5 AV	54.0	-14.5	1.05 H	177	26.3	13.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	112.6 PK			2.83 V	226	78.8	33.8
2	*2437.00	99.4 AV			2.83 V	226	65.6	33.8
3	4874.00	52.9 PK	74.0	-21.1	1.98 V	220	39.7	13.2
4	4874.00	39.7 AV	54.0	-14.3	1.98 V	220	26.5	13.2

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

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	101.3 PK			1.00 H	267	67.4	33.9
2	*2462.00	89.2 AV			1.00 H	267	55.3	33.9
3	2483.50	68.8 PK	74.0	-5.2	1.38 H	277	34.9	33.9
4	2483.50	48.4 AV	54.0	-5.6	1.38 H	277	14.5	33.9
5	4924.00	52.3 PK	74.0	-21.7	1.69 H	214	39.0	13.3
6	4924.00	39.1 AV	54.0	-14.9	1.69 H	214	25.8	13.3
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	107.7 PK			2.58 V	229	73.8	33.9
2	*2462.00	95.1 AV			2.58 V	229	61.2	33.9
3	2483.50	73.9 PK	74.0	-0.1	2.49 V	235	40.0	33.9
4	2483.50	49.8 AV	54.0	-4.2	2.49 V	235	15.9	33.9
5	4924.00	52.8 PK	74.0	-21.2	2.03 V	188	39.5	13.3
6	4924.00	39.6 AV	54.0	-14.4	2.03 V	188	26.3	13.3

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

802.11ax (HE40)

CHANNEL	TX Channel 3	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	68.5 PK	74.0	-5.5	1.21 H	283	34.7	33.8
2	2390.00	48.3 AV	54.0	-5.7	1.21 H	283	14.5	33.8
3	*2422.00	99.1 PK			1.00 H	260	65.3	33.8
4	*2422.00	86.8 AV			1.00 H	260	53.0	33.8
5	4844.00	52.0 PK	74.0	-22.0	1.30 H	244	38.8	13.2
6	4844.00	39.3 AV	54.0	-14.7	1.30 H	244	26.1	13.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	73.7 PK	74.0	-0.3	2.35 V	219	39.9	33.8
2	2390.00	53.7 AV	54.0	-0.3	2.35 V	219	19.9	33.8
3	*2422.00	105.3 PK			2.35 V	218	71.5	33.8
4	*2422.00	93.1 AV			2.35 V	218	59.3	33.8
5	4844.00	52.9 PK	74.0	-21.1	2.54 V	188	39.7	13.2
6	4844.00	40.1 AV	54.0	-13.9	2.54 V	188	26.9	13.2

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

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	68.4 PK	74.0	-5.6	1.14 H	288	34.6	33.8
2	2390.00	48.1 AV	54.0	-5.9	1.14 H	288	14.3	33.8
3	*2437.00	100.8 PK			1.01 H	269	67.0	33.8
4	*2437.00	87.6 AV			1.01 H	269	53.8	33.8
5	2483.50	68.6 PK	74.0	-5.4	1.06 H	271	34.7	33.9
6	2483.50	48.1 AV	54.0	-5.9	1.06 H	271	14.2	33.9
7	4874.00	52.1 PK	74.0	-21.9	1.63 H	175	38.9	13.2
8	4874.00	39.0 AV	54.0	-15.0	1.63 H	175	25.8	13.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	71.2 PK	74.0	-2.8	2.76 V	225	37.4	33.8
2	2390.00	53.4 AV	54.0	-0.6	2.76 V	225	19.6	33.8
3	*2437.00	107.1 PK			2.89 V	221	73.3	33.8
4	*2437.00	93.9 AV			2.89 V	221	60.1	33.8
5	2483.50	73.8 PK	74.0	-0.2	2.62 V	238	39.9	33.9
6	2483.50	53.7 AV	54.0	-0.3	2.62 V	238	19.8	33.9
7	4874.00	52.9 PK	74.0	-21.1	1.98 V	200	39.7	13.2
8	4874.00	39.7 AV	54.0	-14.3	1.98 V	200	26.5	13.2

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

CHANNEL	TX Channel 9	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2452.00	97.3 PK			1.00 H	267	63.5	33.8
2	*2452.00	86.3 AV			1.00 H	267	52.5	33.8
3	2483.50	68.3 PK	74.0	-5.7	1.05 H	289	34.4	33.9
4	2483.50	48.5 AV	54.0	-5.5	1.05 H	289	14.6	33.9
5	4904.00	52.4 PK	74.0	-21.6	2.78 H	190	39.0	13.4
6	4904.00	39.6 AV	54.0	-14.4	2.78 H	190	26.2	13.4
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2452.00	105.0 PK			2.62 V	228	71.2	33.8
2	*2452.00	92.5 AV			2.62 V	228	58.7	33.8
3	2483.50	73.9 PK	74.0	-0.1	2.62 V	237	40.0	33.9
4	2483.50	51.9 AV	54.0	-2.1	2.62 V	237	18.0	33.9
5	4904.00	53.2 PK	74.0	-20.8	1.80 V	126	39.8	13.4
6	4904.00	40.1 AV	54.0	-13.9	1.80 V	126	26.7	13.4

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

2TX

802.11b

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	57.9 PK	74.0	-16.1	2.45 H	59	24.1	33.8
2	2390.00	46.8 AV	54.0	-7.2	2.45 H	59	13.0	33.8
3	*2412.00	108.0 PK			2.35 H	55	74.2	33.8
4	*2412.00	104.9 AV			2.35 H	55	71.1	33.8
5	4824.00	51.1 PK	74.0	-22.9	1.64 H	225	37.9	13.2
6	4824.00	41.7 AV	54.0	-12.3	1.64 H	225	28.5	13.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	58.0 PK	74.0	-16.0	3.30 V	142	24.2	33.8
2	2390.00	46.9 AV	54.0	-7.1	3.30 V	142	13.1	33.8
3	*2412.00	113.5 PK			3.42 V	158	79.7	33.8
4	*2412.00	109.8 AV			3.42 V	158	76.0	33.8
5	4824.00	51.9 PK	74.0	-22.1	3.08 V	187	38.7	13.2
6	4824.00	42.5 AV	54.0	-11.5	3.08 V	187	29.3	13.2

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

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	109.1 PK			2.33 H	54	75.3	33.8
2	*2437.00	103.8 AV			2.33 H	54	70.0	33.8
3	4874.00	51.0 PK	74.0	-23.0	1.42 H	201	37.8	13.2
4	4874.00	41.9 AV	54.0	-12.1	1.42 H	201	28.7	13.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	114.0 PK			3.06 V	175	80.2	33.8
2	*2437.00	109.5 AV			3.06 V	175	75.7	33.8
3	4874.00	52.1 PK	74.0	-21.9	2.95 V	188	38.9	13.2
4	4874.00	43.0 AV	54.0	-11.0	2.95 V	188	29.8	13.2

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

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	108.4 PK			2.40 H	59	74.5	33.9
2	*2462.00	106.0 AV			2.40 H	59	72.1	33.9
3	2483.50	58.2 PK	74.0	-15.8	2.30 H	65	24.3	33.9
4	2483.50	47.0 AV	54.0	-7.0	2.30 H	65	13.1	33.9
5	4924.00	52.0 PK	74.0	-22.0	1.95 H	211	38.7	13.3
6	4924.00	42.2 AV	54.0	-11.8	1.95 H	211	28.9	13.3
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	113.6 PK			3.25 V	157	79.7	33.9
2	*2462.00	109.9 AV			3.25 V	157	76.0	33.9
3	2483.50	59.3 PK	74.0	-14.7	3.36 V	142	25.4	33.9
4	2483.50	47.5 AV	54.0	-6.5	3.36 V	142	13.6	33.9
5	4924.00	52.3 PK	74.0	-21.7	3.02 V	166	39.0	13.3
6	4924.00	43.2 AV	54.0	-10.8	3.02 V	166	29.9	13.3

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

802.11g

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	69.4 PK	74.0	-4.6	2.40 H	59	35.6	33.8
2	2390.00	48.6 AV	54.0	-5.4	2.40 H	59	14.8	33.8
3	*2412.00	103.2 PK			2.33 H	51	69.4	33.8
4	*2412.00	93.8 AV			2.33 H	51	60.0	33.8
5	4824.00	52.1 PK	74.0	-21.9	1.74 H	236	38.9	13.2
6	4824.00	39.3 AV	54.0	-14.7	1.74 H	236	26.1	13.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	73.5 PK	74.0	-0.5	3.50 V	80	39.7	33.8
2	2390.00	50.4 AV	54.0	-3.6	3.50 V	80	16.6	33.8
3	*2412.00	108.8 PK			3.41 V	58	75.0	33.8
4	*2412.00	99.2 AV			3.41 V	58	65.4	33.8
5	4824.00	52.6 PK	74.0	-21.4	2.61 V	155	39.4	13.2
6	4824.00	39.7 AV	54.0	-14.3	2.61 V	155	26.5	13.2

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

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	108.0 PK			2.36 H	59	74.2	33.8
2	*2437.00	97.9 AV			2.36 H	59	64.1	33.8
3	4874.00	51.7 PK	74.0	-22.3	1.24 H	303	38.5	13.2
4	4874.00	39.2 AV	54.0	-14.8	1.24 H	303	26.0	13.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	113.2 PK			2.46 V	129	79.4	33.8
2	*2437.00	103.3 AV			2.46 V	129	69.5	33.8
3	4874.00	52.1 PK	74.0	-21.9	2.97 V	142	38.9	13.2
4	4874.00	39.6 AV	54.0	-14.4	2.97 V	142	26.4	13.2

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

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	104.0 PK			2.37 H	58	70.1	33.9
2	*2462.00	93.9 AV			2.37 H	58	60.0	33.9
3	2483.50	71.1 PK	74.0	-2.9	2.45 H	49	37.2	33.9
4	2483.50	47.8 AV	54.0	-6.2	2.45 H	49	13.9	33.9
5	4924.00	51.7 PK	74.0	-22.3	1.50 H	214	38.4	13.3
6	4924.00	39.3 AV	54.0	-14.7	1.50 H	214	26.0	13.3
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	109.2 PK			2.72 V	124	75.3	33.9
2	*2462.00	99.5 AV			2.72 V	124	65.6	33.9
3	2483.50	73.9 PK	74.0	-0.1	1.95 V	124	40.0	33.9
4	2483.50	49.4 AV	54.0	-4.6	1.95 V	124	15.5	33.9
5	4924.00	52.1 PK	74.0	-21.9	1.76 V	230	38.8	13.3
6	4924.00	39.6 AV	54.0	-14.4	1.76 V	230	26.3	13.3

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

802.11ax (HE20)

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	71.5 PK	74.0	-2.5	2.47 H	68	37.7	33.8
2	2390.00	50.0 AV	54.0	-4.0	2.47 H	68	16.2	33.8
3	*2412.00	105.2 PK			2.36 H	55	71.4	33.8
4	*2412.00	94.3 AV			2.36 H	55	60.5	33.8
5	4824.00	50.7 PK	74.0	-23.3	1.26 H	174	37.5	13.2
6	4824.00	39.1 AV	54.0	-14.9	1.26 H	174	25.9	13.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	72.1 PK	74.0	-1.9	2.69 V	134	38.3	33.8
2	2390.00	53.7 AV	54.0	-0.3	2.69 V	134	19.9	33.8
3	*2412.00	110.4 PK			2.82 V	124	76.6	33.8
4	*2412.00	98.5 AV			2.82 V	124	64.7	33.8
5	4824.00	51.9 PK	74.0	-22.1	1.63 V	201	38.7	13.2
6	4824.00	39.2 AV	54.0	-14.8	1.63 V	201	26.0	13.2

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

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	111.4 PK			2.27 H	49	77.6	33.8
2	*2437.00	101.3 AV			2.27 H	49	67.5	33.8
3	4874.00	51.7 PK	74.0	-22.3	1.16 H	214	38.5	13.2
4	4874.00	39.2 AV	54.0	-14.8	1.16 H	214	26.0	13.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	115.8 PK			2.82 V	133	82.0	33.8
2	*2437.00	102.5 AV			2.82 V	133	68.7	33.8
3	4874.00	52.4 PK	74.0	-21.6	2.22 V	141	39.2	13.2
4	4874.00	39.5 AV	54.0	-14.5	2.22 V	141	26.3	13.2

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

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	104.0 PK			2.33 H	51	70.1	33.9
2	*2462.00	93.8 AV			2.33 H	51	59.9	33.9
3	2483.50	71.7 PK	74.0	-2.3	2.50 H	60	37.8	33.9
4	2483.50	47.0 AV	54.0	-7.0	2.50 H	60	13.1	33.9
5	4924.00	52.2 PK	74.0	-21.8	1.65 H	205	38.9	13.3
6	4924.00	39.0 AV	54.0	-15.0	1.65 H	205	25.7	13.3
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	109.4 PK			2.44 V	132	75.5	33.9
2	*2462.00	97.2 AV			2.44 V	132	63.3	33.9
3	2483.50	73.9 PK	74.0	-0.1	2.49 V	178	40.0	33.9
4	2483.50	47.8 AV	54.0	-6.2	2.49 V	178	13.9	33.9
5	4924.00	51.9 PK	74.0	-22.1	1.63 V	225	38.6	13.3
6	4924.00	39.3 AV	54.0	-14.7	1.63 V	225	26.0	13.3

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

802.11ax (HE40)

CHANNEL	TX Channel 3	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	71.6 PK	74.0	-2.4	2.46 H	50	37.8	33.8
2	2390.00	48.4 AV	54.0	-5.6	2.46 H	50	14.6	33.8
3	*2422.00	101.5 PK			2.38 H	59	67.7	33.8
4	*2422.00	90.7 AV			2.38 H	59	56.9	33.8
5	4844.00	51.4 PK	74.0	-22.6	1.66 H	207	38.2	13.2
6	4844.00	39.3 AV	54.0	-14.7	1.66 H	207	26.1	13.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	72.9 PK	74.0	-1.1	2.55 V	153	39.1	33.8
2	2390.00	50.3 AV	54.0	-3.7	2.55 V	153	16.5	33.8
3	*2422.00	106.7 PK			1.90 V	129	72.9	33.8
4	*2422.00	93.9 AV			1.90 V	129	60.1	33.8
5	4844.00	51.9 PK	74.0	-22.1	3.12 V	110	38.7	13.2
6	4844.00	39.6 AV	54.0	-14.4	3.12 V	110	26.4	13.2

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

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	71.0 PK	74.0	-3.0	2.49 H	62	37.2	33.8
2	2390.00	51.0 AV	54.0	-3.0	2.49 H	62	17.2	33.8
3	*2437.00	103.9 PK			2.35 H	55	70.1	33.8
4	*2437.00	92.7 AV			2.35 H	55	58.9	33.8
5	2483.50	71.5 PK	74.0	-2.5	2.30 H	70	37.6	33.9
6	2483.50	51.4 AV	54.0	-2.6	2.30 H	70	17.5	33.9
7	4874.00	51.7 PK	74.0	-22.3	1.98 H	155	38.5	13.2
8	4874.00	39.5 AV	54.0	-14.5	1.98 H	155	26.3	13.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	71.8 PK	74.0	-2.2	2.62 V	124	38.0	33.8
2	2390.00	53.5 AV	54.0	-0.5	2.62 V	124	19.7	33.8
3	*2437.00	109.2 PK			2.52 V	135	75.4	33.8
4	*2437.00	96.9 AV			2.52 V	135	63.1	33.8
5	2483.50	72.8 PK	74.0	-1.2	2.65 V	130	38.9	33.9
6	2483.50	53.7 AV	54.0	-0.3	2.65 V	130	19.8	33.9
7	4874.00	52.1 PK	74.0	-21.9	2.55 V	174	38.9	13.2
8	4874.00	39.8 AV	54.0	-14.2	2.55 V	174	26.6	13.2

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

CHANNEL	TX Channel 9	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2452.00	100.6 PK			2.39 H	61	66.8	33.8
2	*2452.00	90.3 AV			2.39 H	61	56.5	33.8
3	2483.50	71.8 PK	74.0	-2.2	2.49 H	45	37.9	33.9
4	2483.50	47.4 AV	54.0	-6.6	2.49 H	45	13.5	33.9
5	4904.00	52.0 PK	74.0	-22.0	1.02 H	245	38.6	13.4
6	4904.00	39.1 AV	54.0	-14.9	1.02 H	245	25.7	13.4
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2452.00	106.3 PK			1.77 V	135	72.5	33.8
2	*2452.00	94.7 AV			1.77 V	135	60.9	33.8
3	2483.50	73.7 PK	74.0	-0.3	2.20 V	123	39.8	33.9
4	2483.50	49.3 AV	54.0	-4.7	2.20 V	123	15.4	33.9
5	4904.00	52.4 PK	74.0	-21.6	1.95 V	200	39.0	13.4
6	4904.00	39.5 AV	54.0	-14.5	1.95 V	200	26.1	13.4

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

3TX

802.11b

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	58.1 PK	74.0	-15.9	2.94 H	105	24.3	33.8
2	2390.00	46.6 AV	54.0	-7.4	2.94 H	105	12.8	33.8
3	*2412.00	113.9 PK			3.09 H	96	80.1	33.8
4	*2412.00	110.3 AV			3.09 H	96	76.5	33.8
5	4824.00	53.9 PK	74.0	-20.1	2.26 H	154	40.7	13.2
6	4824.00	47.7 AV	54.0	-6.3	2.26 H	154	34.5	13.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	58.5 PK	74.0	-15.5	3.37 V	88	24.7	33.8
2	2390.00	47.1 AV	54.0	-6.9	3.37 V	88	13.3	33.8
3	*2412.00	115.7 PK			3.46 V	56	81.9	33.8
4	*2412.00	112.6 AV			3.46 V	56	78.8	33.8
5	4824.00	54.5 PK	74.0	-19.5	3.60 V	235	41.3	13.2
6	4824.00	48.2 AV	54.0	-5.8	3.60 V	235	35.0	13.2

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

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	112.4 PK			3.11 H	97	78.6	33.8
2	*2437.00	108.8 AV			3.11 H	97	75.0	33.8
3	4874.00	54.1 PK	74.0	-19.9	2.90 H	144	40.9	13.2
4	4874.00	47.6 AV	54.0	-6.4	2.90 H	144	34.4	13.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	115.7 PK			2.87 V	75	81.9	33.8
2	*2437.00	112.1 AV			2.87 V	75	78.3	33.8
3	4874.00	54.7 PK	74.0	-19.3	3.55 V	240	41.5	13.2
4	4874.00	48.5 AV	54.0	-5.5	3.55 V	240	35.3	13.2

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

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	148.0 PK			3.20 H	92	114.1	33.9
2	*2462.00	144.7 AV			3.20 H	92	110.8	33.9
3	2483.50	58.1 PK	74.0	-15.9	2.88 H	105	24.2	33.9
4	2483.50	48.2 AV	54.0	-5.8	2.88 H	105	14.3	33.9
5	4924.00	54.1 PK	74.0	-19.9	1.22 H	174	40.8	13.3
6	4924.00	47.3 AV	54.0	-6.7	1.22 H	174	34.0	13.3
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	116.6 PK			2.92 V	193	82.7	33.9
2	*2462.00	113.0 AV			2.92 V	193	79.1	33.9
3	2483.50	60.1 PK	74.0	-13.9	3.14 V	107	26.2	33.9
4	2483.50	48.6 AV	54.0	-5.4	3.14 V	107	14.7	33.9
5	4924.00	55.0 PK	74.0	-19.0	3.40 V	186	41.7	13.3
6	4924.00	48.2 AV	54.0	-5.8	3.40 V	186	34.9	13.3

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

802.11g

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	72.6 PK	74.0	-1.4	2.95 H	269	38.8	33.8
2	2390.00	48.6 AV	54.0	-5.4	2.95 H	269	14.8	33.8
3	*2412.00	107.3 PK			2.95 H	60	73.5	33.8
4	*2412.00	98.2 AV			2.95 H	60	64.4	33.8
5	4824.00	51.6 PK	74.0	-22.4	2.33 H	164	38.4	13.2
6	4824.00	38.9 AV	54.0	-15.1	2.33 H	164	25.7	13.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	72.7 PK	74.0	-1.3	1.59 V	94	38.9	33.8
2	2390.00	51.6 AV	54.0	-2.4	1.59 V	94	17.8	33.8
3	*2412.00	111.7 PK			2.46 V	227	77.9	33.8
4	*2412.00	102.5 AV			2.46 V	227	68.7	33.8
5	4824.00	52.3 PK	74.0	-21.7	3.14 V	154	39.1	13.2
6	4824.00	39.4 AV	54.0	-14.6	3.14 V	154	26.2	13.2

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

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	144.8 PK			2.88 H	68	111.0	33.8
2	*2437.00	135.1 AV			2.88 H	68	101.3	33.8
3	2483.50	72.2 PK	74.0	-1.8	2.90 H	247	38.3	33.9
4	2483.50	48.4 AV	54.0	-5.6	2.90 H	247	14.5	33.9
5	4874.00	52.4 PK	74.0	-21.6	3.30 H	178	39.2	13.2
6	4874.00	38.9 AV	54.0	-15.1	3.30 H	178	25.7	13.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	115.2 PK			2.56 V	153	81.4	33.8
2	*2437.00	105.8 AV			2.56 V	153	72.0	33.8
3	2483.50	73.0 PK	74.0	-1.0	2.74 V	197	39.1	33.9
4	2483.50	51.1 AV	54.0	-2.9	2.74 V	197	17.2	33.9
5	4874.00	53.0 PK	74.0	-21.0	3.02 V	169	39.8	13.2
6	4874.00	39.6 AV	54.0	-14.4	3.02 V	169	26.4	13.2

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

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	141.4 PK			2.99 H	64	107.5	33.9
2	*2462.00	132.2 AV			2.99 H	64	98.3	33.9
3	2483.50	71.5 PK	74.0	-2.5	2.81 H	107	37.6	33.9
4	2483.50	48.3 AV	54.0	-5.7	2.81 H	107	14.4	33.9
5	4924.00	52.1 PK	74.0	-21.9	2.11 H	142	38.8	13.3
6	4924.00	39.6 AV	54.0	-14.4	2.11 H	142	26.3	13.3
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	111.4 PK			3.13 V	201	77.5	33.9
2	*2462.00	102.0 AV			3.13 V	201	68.1	33.9
3	2483.50	72.8 PK	74.0	-1.2	3.17 V	145	38.9	33.9
4	2483.50	49.0 AV	54.0	-5.0	3.17 V	145	15.1	33.9
5	4924.00	52.7 PK	74.0	-21.3	3.10 V	140	39.4	13.3
6	4924.00	39.8 AV	54.0	-14.2	3.10 V	140	26.5	13.3

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

802.11ax (HE20)

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	69.9 PK	74.0	-4.1	2.95 H	266	36.1	33.8
2	2390.00	48.3 AV	54.0	-5.7	2.95 H	266	14.5	33.8
3	*2412.00	107.4 PK			1.09 H	327	73.6	33.8
4	*2412.00	97.4 AV			1.09 H	327	63.6	33.8
5	4824.00	52.0 PK	74.0	-22.0	2.20 H	254	38.8	13.2
6	4824.00	39.3 AV	54.0	-14.7	2.20 H	254	26.1	13.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	72.8 PK	74.0	-1.2	3.66 V	222	39.0	33.8
2	2390.00	50.4 AV	54.0	-3.6	3.66 V	222	16.6	33.8
3	*2412.00	111.5 PK			2.80 V	144	77.7	33.8
4	*2412.00	99.6 AV			2.80 V	144	65.8	33.8
5	4824.00	52.5 PK	74.0	-21.5	1.95 V	274	39.3	13.2
6	4824.00	39.7 AV	54.0	-14.3	1.95 V	274	26.5	13.2

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

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	69.4 PK	74.0	-4.6	1.14 H	315	35.6	33.8
2	2390.00	49.1 AV	54.0	-4.9	1.14 H	315	15.3	33.8
3	*2437.00	112.0 PK			1.26 H	334	78.2	33.8
4	*2437.00	102.2 AV			1.26 H	334	68.4	33.8
5	2483.50	70.1 PK	74.0	-3.9	1.14 H	309	36.2	33.9
6	2483.50	49.7 AV	54.0	-4.3	1.14 H	309	15.8	33.9
7	4874.00	51.8 PK	74.0	-22.2	1.99 H	260	38.6	13.2
8	4874.00	39.1 AV	54.0	-14.9	1.99 H	260	25.9	13.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	72.0 PK	74.0	-2.0	2.82 V	81	38.2	33.8
2	2390.00	52.5 AV	54.0	-1.5	2.82 V	81	18.7	33.8
3	*2437.00	116.4 PK			2.39 V	163	82.6	33.8
4	*2437.00	104.3 AV			2.39 V	163	70.5	33.8
5	2483.50	73.0 PK	74.0	-1.0	2.80 V	199	39.1	33.9
6	2483.50	52.6 AV	54.0	-1.4	2.80 V	199	18.7	33.9
7	4874.00	52.5 PK	74.0	-21.5	3.11 V	270	39.3	13.2
8	4874.00	39.4 AV	54.0	-14.6	3.11 V	270	26.2	13.2

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

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	108.0 PK			1.09 H	327	74.1	33.9
2	*2462.00	96.2 AV			1.09 H	327	62.3	33.9
3	2483.50	70.6 PK	74.0	-3.4	1.22 H	341	36.7	33.9
4	2483.50	47.5 AV	54.0	-6.5	1.22 H	341	13.6	33.9
5	4924.00	51.8 PK	74.0	-22.2	1.99 H	254	38.5	13.3
6	4924.00	39.2 AV	54.0	-14.8	1.99 H	254	25.9	13.3
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	110.2 PK			1.52 V	80	76.3	33.9
2	*2462.00	98.1 AV			1.52 V	80	64.2	33.9
3	2483.50	72.5 PK	74.0	-1.5	2.02 V	126	38.6	33.9
4	2483.50	47.8 AV	54.0	-6.2	2.02 V	126	13.9	33.9
5	4924.00	52.8 PK	74.0	-21.2	2.55 V	143	39.5	13.3
6	4924.00	40.0 AV	54.0	-14.0	2.55 V	143	26.7	13.3

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

802.11ax (HE40)

CHANNEL	TX Channel 3	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	65.9 PK	74.0	-8.1	2.11 H	335	32.1	33.8
2	2390.00	48.3 AV	54.0	-5.7	2.11 H	335	14.5	33.8
3	*2422.00	105.3 PK			2.08 H	331	71.5	33.8
4	*2422.00	93.6 AV			2.08 H	331	59.8	33.8
5	4844.00	52.1 PK	74.0	-21.9	1.32 H	20	38.9	13.2
6	4844.00	39.1 AV	54.0	-14.9	1.32 H	20	25.9	13.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	67.3 PK	74.0	-6.7	2.59 V	139	33.5	33.8
2	2390.00	50.3 AV	54.0	-3.7	2.59 V	139	16.5	33.8
3	*2422.00	108.1 PK			2.92 V	222	74.3	33.8
4	*2422.00	96.2 AV			2.92 V	222	62.4	33.8
5	4844.00	52.6 PK	74.0	-21.4	2.66 V	195	39.4	13.2
6	4844.00	39.5 AV	54.0	-14.5	2.66 V	195	26.3	13.2

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

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	106.7 PK			2.05 H	327	72.9	33.8
2	*2437.00	95.6 AV			2.05 H	327	61.8	33.8
3	4874.00	52.0 PK	74.0	-22.0	2.63 H	100	38.8	13.2
4	4874.00	39.3 AV	54.0	-14.7	2.63 H	100	26.1	13.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	109.8 PK			2.86 V	195	76.0	33.8
2	*2437.00	98.1 AV			2.86 V	195	64.3	33.8
3	4874.00	52.6 PK	74.0	-21.4	1.64 V	225	39.4	13.2
4	4874.00	39.6 AV	54.0	-14.4	1.64 V	225	26.4	13.2

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

CHANNEL	TX Channel 9	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2452.00	105.3 PK			2.16 H	320	71.5	33.8
2	*2452.00	94.3 AV			2.16 H	320	60.5	33.8
3	2483.50	69.4 PK	74.0	-4.6	2.54 H	301	35.5	33.9
4	2483.50	48.8 AV	54.0	-5.2	2.54 H	301	14.9	33.9
5	4904.00	52.2 PK	74.0	-21.8	2.10 H	133	38.8	13.4
6	4904.00	39.1 AV	54.0	-14.9	2.10 H	133	25.7	13.4
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2452.00	108.4 PK			2.85 V	212	74.6	33.8
2	*2452.00	97.4 AV			2.85 V	212	63.6	33.8
3	2483.50	71.8 PK	74.0	-2.2	2.50 V	178	37.9	33.9
4	2483.50	50.7 AV	54.0	-3.3	2.50 V	178	16.8	33.9
5	4904.00	52.8 PK	74.0	-21.2	2.23 V	174	39.4	13.4
6	4904.00	39.6 AV	54.0	-14.4	2.23 V	174	26.2	13.4

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

Test Mode E (External antenna – PN: ATS-OO-245-46-4RPSP-36 + Eth7 Radio)

1TX

802.11b

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	59.1 PK	74.0	-14.9	2.99 H	113	26.2	32.9
2	2390.00	47.5 AV	54.0	-6.5	2.99 H	113	14.6	32.9
3	*2412.00	106.8 PK			3.35 H	66	73.9	32.9
4	*2412.00	103.4 AV			3.35 H	66	70.5	32.9
5	4824.00	46.1 PK	74.0	-27.9	1.28 H	173	42.4	3.7
6	4824.00	33.3 AV	54.0	-20.7	1.28 H	173	29.6	3.7
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	2390.00	59.9 PK	74.0	-14.1	1.66 V	53	27.0	32.9
2	2390.00	48.9 AV	54.0	-5.1	1.66 V	53	16.0	32.9
3	*2412.00	110.4 PK			1.54 V	49	77.5	32.9
4	*2412.00	105.9 AV			1.54 V	49	73.0	32.9
5	4824.00	46.3 PK	74.0	-27.7	1.66 V	23	42.6	3.7
6	4824.00	37.9 AV	54.0	-16.1	1.66 V	23	34.2	3.7

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.

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	103.3 PK			1.73 H	122	70.4	32.9
2	*2437.00	99.6 AV			1.73 H	122	66.7	32.9
3	4874.00	48.2 PK	74.0	-25.8	2.55 H	196	44.2	4.0
4	4874.00	34.2 AV	54.0	-19.8	2.55 H	196	30.2	4.0
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	*2437.00	108.7 PK			1.60 V	323	75.8	32.9
2	*2437.00	106.4 AV			1.60 V	323	73.5	32.9
3	4874.00	49.9 PK	74.0	-24.1	1.06 V	9	45.9	4.0
4	4874.00	43.2 AV	54.0	-10.8	1.06 V	9	39.2	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. Margin value = Emission Level – Limit value.
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	104.3 PK			1.65 H	122	71.4	32.9
2	*2462.00	100.8 AV			1.65 H	122	67.9	32.9
3	2483.50	60.2 PK	74.0	-13.8	1.55 H	92	27.2	33.0
4	2483.50	47.6 AV	54.0	-6.4	1.55 H	92	14.6	33.0
5	4924.00	47.0 PK	74.0	-27.0	2.63 H	177	43.0	4.0
6	4924.00	35.0 AV	54.0	-19.0	2.63 H	177	31.0	4.0
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	*2462.00	109.3 PK			1.52 V	250	76.4	32.9
2	*2462.00	105.7 AV			1.52 V	250	72.8	32.9
3	2483.50	60.3 PK	74.0	-13.7	1.65 V	231	27.3	33.0
4	2483.50	47.7 AV	54.0	-6.3	1.65 V	231	14.7	33.0
5	4924.00	48.2 PK	74.0	-25.8	1.10 V	20	44.2	4.0
6	4924.00	33.8 AV	54.0	-20.2	1.10 V	20	29.8	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. Margin value = Emission Level – Limit value.
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

802.11g

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	62.3 PK	74.0	-11.7	1.58 H	226	29.4	32.9
2	2390.00	47.4 AV	54.0	-6.6	1.58 H	226	14.5	32.9
3	*2412.00	98.0 PK			1.53 H	235	65.1	32.9
4	*2412.00	88.0 AV			1.53 H	235	55.1	32.9
5	4824.00	47.1 PK	74.0	-26.9	2.69 H	212	43.4	3.7
6	4824.00	33.3 AV	54.0	-20.7	2.69 H	212	29.6	3.7
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	2390.00	73.6 PK	74.0	-0.4	1.17 V	248	40.7	32.9
2	2390.00	51.1 AV	54.0	-2.9	1.17 V	248	18.2	32.9
3	*2412.00	108.1 PK			1.42 V	249	75.2	32.9
4	*2412.00	97.9 AV			1.42 V	249	65.0	32.9
5	4824.00	47.3 PK	74.0	-26.7	1.85 V	241	43.6	3.7
6	4824.00	32.9 AV	54.0	-21.1	1.85 V	241	29.2	3.7

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.

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	59.9 PK	74.0	-14.1	2.04 H	179	27.0	32.9
2	2390.00	47.4 AV	54.0	-6.6	2.04 H	179	14.5	32.9
3	*2437.00	102.8 PK			2.25 H	170	69.9	32.9
4	*2437.00	92.6 AV			2.25 H	170	59.7	32.9
5	2483.50	65.2 PK	74.0	-8.8	2.19 H	188	32.2	33.0
6	2483.50	47.9 AV	54.0	-6.1	2.19 H	188	14.9	33.0
7	4874.00	47.3 PK	74.0	-26.7	1.62 H	177	43.3	4.0
8	4874.00	33.9 AV	54.0	-20.1	1.62 H	177	29.9	4.0
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	2390.00	69.3 PK	74.0	-4.7	1.22 V	227	36.4	32.9
2	2390.00	51.0 AV	54.0	-3.0	1.22 V	227	18.1	32.9
3	*2437.00	112.0 PK			1.15 V	251	79.1	32.9
4	*2437.00	101.7 AV			1.15 V	251	68.8	32.9
5	2483.50	72.2 PK	74.0	-1.8	1.04 V	248	39.2	33.0
6	2483.50	51.4 AV	54.0	-2.6	1.04 V	248	18.4	33.0
7	4874.00	47.5 PK	74.0	-26.5	1.47 V	126	43.5	4.0
8	4874.00	33.6 AV	54.0	-20.4	1.47 V	126	29.6	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. Margin value = Emission Level – Limit value.
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	97.6 PK			1.49 H	177	64.7	32.9
2	*2462.00	87.4 AV			1.49 H	177	54.5	32.9
3	2483.50	65.3 PK	74.0	-8.7	1.55 H	189	32.3	33.0
4	2483.50	47.8 AV	54.0	-6.2	1.55 H	189	14.8	33.0
5	4924.00	48.0 PK	74.0	-26.0	2.83 H	102	44.0	4.0
6	4924.00	34.0 AV	54.0	-20.0	2.83 H	102	30.0	4.0
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	*2462.00	106.0 PK			1.78 V	339	73.1	32.9
2	*2462.00	95.4 AV			1.78 V	339	62.5	32.9
3	2483.50	73.4 PK	74.0	-0.6	1.74 V	359	40.4	33.0
4	2483.50	48.8 AV	54.0	-5.2	1.74 V	359	15.8	33.0
5	4924.00	47.9 PK	74.0	-26.1	1.92 V	231	43.9	4.0
6	4924.00	33.7 AV	54.0	-20.3	1.92 V	231	29.7	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. Margin value = Emission Level – Limit value.
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

802.11ax (HE20)

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	64.2 PK	74.0	-9.8	1.72 H	210	31.3	32.9
2	2390.00	47.8 AV	54.0	-6.2	1.72 H	210	14.9	32.9
3	*2412.00	99.9 PK			1.50 H	235	67.0	32.9
4	*2412.00	87.5 AV			1.50 H	235	54.6	32.9
5	4824.00	46.7 PK	74.0	-27.3	2.54 H	268	43.0	3.7
6	4824.00	33.9 AV	54.0	-20.1	2.54 H	268	30.2	3.7
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	2390.00	73.8 PK	74.0	-0.2	1.20 V	226	40.9	32.9
2	2390.00	50.9 AV	54.0	-3.1	1.20 V	226	18.0	32.9
3	*2412.00	109.1 PK			1.37 V	249	76.2	32.9
4	*2412.00	96.1 AV			1.37 V	249	63.2	32.9
5	4824.00	46.3 PK	74.0	-27.7	1.68 V	188	42.6	3.7
6	4824.00	32.3 AV	54.0	-21.7	1.68 V	188	28.6	3.7

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.

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	59.5 PK	74.0	-14.5	1.96 H	203	26.6	32.9
2	2390.00	47.4 AV	54.0	-6.6	1.96 H	203	14.5	32.9
3	*2437.00	104.3 PK			2.24 H	170	71.4	32.9
4	*2437.00	91.6 AV			2.24 H	170	58.7	32.9
5	2483.50	62.5 PK	74.0	-11.5	2.05 H	151	29.5	33.0
6	2483.50	48.3 AV	54.0	-5.7	2.05 H	151	15.3	33.0
7	4874.00	47.3 PK	74.0	-26.7	2.93 H	166	43.3	4.0
8	4874.00	33.8 AV	54.0	-20.2	2.93 H	166	29.8	4.0
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	2390.00	71.1 PK	74.0	-2.9	1.15 V	249	38.2	32.9
2	2390.00	52.7 AV	54.0	-1.3	1.15 V	249	19.8	32.9
3	*2437.00	113.9 PK			1.11 V	251	81.0	32.9
4	*2437.00	101.1 AV			1.11 V	251	68.2	32.9
5	2483.50	73.1 PK	74.0	-0.9	1.73 V	1	40.1	33.0
6	2483.50	53.4 AV	54.0	-0.6	1.73 V	1	20.4	33.0
7	4874.00	47.0 PK	74.0	-27.0	2.02 V	136	43.0	4.0
8	4874.00	33.6 AV	54.0	-20.4	2.02 V	136	29.6	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. Margin value = Emission Level – Limit value.
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	98.2 PK			1.55 H	174	65.3	32.9
2	*2462.00	84.9 AV			1.55 H	174	52.0	32.9
3	2483.50	66.2 PK	74.0	-7.8	1.66 H	153	33.2	33.0
4	2483.50	47.5 AV	54.0	-6.5	1.66 H	153	14.5	33.0
5	4924.00	48.5 PK	74.0	-25.5	2.51 H	191	44.5	4.0
6	4924.00	34.3 AV	54.0	-19.7	2.51 H	191	30.3	4.0
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	*2462.00	106.1 PK			1.76 V	311	73.2	32.9
2	*2462.00	92.9 AV			1.76 V	311	60.0	32.9
3	2483.50	73.6 PK	74.0	-0.4	1.74 V	355	40.6	33.0
4	2483.50	48.5 AV	54.0	-5.5	1.74 V	355	15.5	33.0
5	4924.00	47.7 PK	74.0	-26.3	1.83 V	231	43.7	4.0
6	4924.00	34.0 AV	54.0	-20.0	1.83 V	231	30.0	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. Margin value = Emission Level – Limit value.
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

802.11ax (HE40)

CHANNEL	TX Channel 3	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	64.7 PK	74.0	-9.3	1.52 H	218	31.8	32.9
2	2390.00	49.2 AV	54.0	-4.8	1.52 H	218	16.3	32.9
3	*2422.00	96.2 PK			1.44 H	236	63.4	32.8
4	*2422.00	84.8 AV			1.44 H	236	52.0	32.8
5	4844.00	46.7 PK	74.0	-27.3	2.68 H	144	42.8	3.9
6	4844.00	34.3 AV	54.0	-19.7	2.68 H	144	30.4	3.9
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	2390.00	72.1 PK	74.0	-1.9	1.20 V	226	39.2	32.9
2	2390.00	53.9 AV	54.0	-0.1	1.20 V	226	21.0	32.9
3	*2422.00	106.7 PK			1.06 V	251	73.9	32.8
4	*2422.00	94.5 AV			1.06 V	251	61.7	32.8
5	4844.00	47.8 PK	74.0	-26.2	1.69 V	221	43.9	3.9
6	4844.00	34.1 AV	54.0	-19.9	1.69 V	221	30.2	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. Margin value = Emission Level – Limit value.
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	60.2 PK	74.0	-13.8	1.48 H	214	27.3	32.9
2	2390.00	47.9 AV	54.0	-6.1	1.48 H	214	15.0	32.9
3	*2437.00	98.1 PK			1.39 H	177	65.2	32.9
4	*2437.00	86.0 AV			1.39 H	177	53.1	32.9
5	2483.50	62.3 PK	74.0	-11.7	1.12 H	205	29.3	33.0
6	2483.50	48.5 AV	54.0	-5.5	1.12 H	205	15.5	33.0
7	4874.00	47.4 PK	74.0	-26.6	2.91 H	111	43.4	4.0
8	4874.00	34.6 AV	54.0	-19.4	2.91 H	111	30.6	4.0
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	2390.00	70.5 PK	74.0	-3.5	1.22 V	248	37.6	32.9
2	2390.00	53.6 AV	54.0	-0.4	1.22 V	248	20.7	32.9
3	*2437.00	107.3 PK			1.15 V	250	74.4	32.9
4	*2437.00	95.8 AV			1.15 V	250	62.9	32.9
5	2483.50	71.1 PK	74.0	-2.9	1.73 V	358	38.1	33.0
6	2483.50	53.3 AV	54.0	-0.7	1.73 V	358	20.3	33.0
7	4874.00	48.0 PK	74.0	-26.0	2.46 V	187	44.0	4.0
8	4874.00	34.6 AV	54.0	-19.4	2.46 V	187	30.6	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. Margin value = Emission Level – Limit value.
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 9	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2452.00	96.9 PK			1.59 H	176	64.0	32.9
2	*2452.00	84.7 AV			1.59 H	176	51.8	32.9
3	2483.50	64.8 PK	74.0	-9.2	1.69 H	231	31.8	33.0
4	2483.50	48.6 AV	54.0	-5.4	1.69 H	231	15.6	33.0
5	4904.00	48.0 PK	74.0	-26.0	1.88 H	261	44.0	4.0
6	4904.00	35.2 AV	54.0	-18.8	1.88 H	261	31.2	4.0
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	*2452.00	103.9 PK			1.79 V	326	71.0	32.9
2	*2452.00	92.6 AV			1.79 V	326	59.7	32.9
3	2483.50	73.9 PK	74.0	-0.1	1.73 V	357	40.9	33.0
4	2483.50	52.5 AV	54.0	-1.5	1.73 V	357	19.5	33.0
5	4904.00	47.6 PK	74.0	-26.4	1.96 V	235	43.6	4.0
6	4904.00	35.3 AV	54.0	-18.7	1.96 V	235	31.3	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. Margin value = Emission Level – Limit value.
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

Test Mode G (External antenna – PN: ATS-OO-245-46-4RPSP-36 + Eth8 Radio)

1TX

802.11b

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	59.7 PK	74.0	-14.3	1.56 H	48	26.8	32.9
2	2390.00	47.5 AV	54.0	-6.5	1.56 H	48	14.6	32.9
3	*2412.00	103.3 PK			1.82 H	22	70.4	32.9
4	*2412.00	99.7 AV			1.82 H	22	66.8	32.9
5	4824.00	46.5 PK	74.0	-27.5	1.58 H	223	42.8	3.7
6	4824.00	32.7 AV	54.0	-21.3	1.58 H	223	29.0	3.7
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	2390.00	59.8 PK	74.0	-14.2	1.62 V	199	26.9	32.9
2	2390.00	47.9 AV	54.0	-6.1	1.62 V	199	15.0	32.9
3	*2412.00	110.4 PK			1.53 V	195	77.5	32.9
4	*2412.00	106.8 AV			1.53 V	195	73.9	32.9
5	4824.00	47.3 PK	74.0	-26.7	3.24 V	17	43.6	3.7
6	4824.00	35.1 AV	54.0	-18.9	3.24 V	17	31.4	3.7

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.

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	103.1 PK			1.79 H	128	70.2	32.9
2	*2437.00	99.7 AV			1.79 H	128	66.8	32.9
3	4874.00	47.9 PK	74.0	-26.1	2.05 H	163	43.9	4.0
4	4874.00	34.3 AV	54.0	-19.7	2.05 H	163	30.3	4.0
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	*2437.00	110.8 PK			1.16 V	183	77.9	32.9
2	*2437.00	107.4 AV			1.16 V	183	74.5	32.9
3	4874.00	48.0 PK	74.0	-26.0	3.20 V	37	44.0	4.0
4	4874.00	36.2 AV	54.0	-17.8	3.20 V	37	32.2	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. Margin value = Emission Level – Limit value.
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	103.4 PK			1.82 H	23	70.5	32.9
2	*2462.00	99.8 AV			1.82 H	23	66.9	32.9
3	2483.50	60.0 PK	74.0	-14.0	1.95 H	43	27.0	33.0
4	2483.50	47.7 AV	54.0	-6.3	1.95 H	43	14.7	33.0
5	4924.00	47.8 PK	74.0	-26.2	2.25 H	171	43.8	4.0
6	4924.00	34.9 AV	54.0	-19.1	2.25 H	171	30.9	4.0
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	*2462.00	110.0 PK			1.14 V	194	77.1	32.9
2	*2462.00	106.4 AV			1.14 V	194	73.5	32.9
3	2483.50	60.5 PK	74.0	-13.5	1.24 V	185	27.5	33.0
4	2483.50	48.2 AV	54.0	-5.8	1.24 V	185	15.2	33.0
5	4924.00	49.8 PK	74.0	-24.2	3.26 V	55	45.8	4.0
6	4924.00	38.4 AV	54.0	-15.6	3.26 V	55	34.4	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. Margin value = Emission Level – Limit value.
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

802.11g

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	59.9 PK	74.0	-14.1	1.34 H	49	27.0	32.9
2	2390.00	47.4 AV	54.0	-6.6	1.34 H	49	14.5	32.9
3	*2412.00	102.9 PK			1.13 H	31	70.0	32.9
4	*2412.00	92.8 AV			1.13 H	31	59.9	32.9
5	4824.00	46.4 PK	74.0	-27.6	2.92 H	184	42.7	3.7
6	4824.00	33.2 AV	54.0	-20.8	2.92 H	184	29.5	3.7
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	2390.00	72.8 PK	74.0	-1.2	1.61 V	173	39.9	32.9
2	2390.00	51.8 AV	54.0	-2.2	1.61 V	173	18.9	32.9
3	*2412.00	109.1 PK			1.14 V	175	76.2	32.9
4	*2412.00	98.8 AV			1.14 V	175	65.9	32.9
5	4824.00	46.2 PK	74.0	-27.8	1.99 V	264	42.5	3.7
6	4824.00	32.7 AV	54.0	-21.3	1.99 V	264	29.0	3.7

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.

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	105.5 PK			1.11 H	31	72.6	32.9
2	*2437.00	95.3 AV			1.11 H	31	62.4	32.9
3	4874.00	47.2 PK	74.0	-26.8	2.69 H	213	43.2	4.0
4	4874.00	33.8 AV	54.0	-20.2	2.69 H	213	29.8	4.0
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	*2437.00	110.4 PK			1.50 V	209	77.5	32.9
2	*2437.00	100.0 AV			1.50 V	209	67.1	32.9
3	4874.00	47.4 PK	74.0	-26.6	2.15 V	273	43.4	4.0
4	4874.00	34.3 AV	54.0	-19.7	2.15 V	273	30.3	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. Margin value = Emission Level – Limit value.
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	101.8 PK			1.03 H	32	68.9	32.9
2	*2462.00	91.4 AV			1.03 H	32	58.5	32.9
3	2483.50	67.7 PK	74.0	-6.3	1.32 H	36	34.7	33.0
4	2483.50	48.4 AV	54.0	-5.6	1.32 H	36	15.4	33.0
5	4924.00	46.8 PK	74.0	-27.2	1.88 H	251	42.8	4.0
6	4924.00	33.8 AV	54.0	-20.2	1.88 H	251	29.8	4.0
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	*2462.00	106.8 PK			1.93 V	205	73.9	32.9
2	*2462.00	96.8 AV			1.93 V	205	63.9	32.9
3	2483.50	73.0 PK	74.0	-1.0	1.87 V	174	40.0	33.0
4	2483.50	50.0 AV	54.0	-4.0	1.87 V	174	17.0	33.0
5	4924.00	47.4 PK	74.0	-26.6	2.69 V	253	43.4	4.0
6	4924.00	33.9 AV	54.0	-20.1	2.69 V	253	29.9	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. Margin value = Emission Level – Limit value.
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

802.11ax (HE20)

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	66.2 PK	74.0	-7.8	1.26 H	43	33.3	32.9
2	2390.00	48.9 AV	54.0	-5.1	1.26 H	43	16.0	32.9
3	*2412.00	104.2 PK			1.19 H	31	71.3	32.9
4	*2412.00	91.9 AV			1.19 H	31	59.0	32.9
5	4824.00	46.2 PK	74.0	-27.8	2.22 H	218	42.5	3.7
6	4824.00	32.8 AV	54.0	-21.2	2.22 H	218	29.1	3.7
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	2390.00	72.9 PK	74.0	-1.1	1.58 V	176	40.0	32.9
2	2390.00	52.4 AV	54.0	-1.6	1.58 V	176	19.5	32.9
3	*2412.00	109.3 PK			1.68 V	146	76.4	32.9
4	*2412.00	95.7 AV			1.68 V	146	62.8	32.9
5	4824.00	46.5 PK	74.0	-27.5	2.64 V	217	42.8	3.7
6	4824.00	33.4 AV	54.0	-20.6	2.64 V	217	29.7	3.7

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.

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	108.6 PK			1.10 H	31	75.7	32.9
2	*2437.00	95.4 AV			1.10 H	31	62.5	32.9
3	4874.00	46.7 PK	74.0	-27.3	2.89 H	225	42.7	4.0
4	4874.00	33.2 AV	54.0	-20.8	2.89 H	225	29.2	4.0
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	*2437.00	113.0 PK			2.72 V	249	80.1	32.9
2	*2437.00	99.8 AV			2.72 V	249	66.9	32.9
3	4874.00	47.2 PK	74.0	-26.8	2.36 V	193	43.2	4.0
4	4874.00	34.8 AV	54.0	-19.2	2.36 V	193	30.8	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. Margin value = Emission Level – Limit value.
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	101.4 PK			1.02 H	32	68.5	32.9
2	*2462.00	88.8 AV			1.02 H	32	55.9	32.9
3	2483.50	67.5 PK	74.0	-6.5	1.43 H	44	34.5	33.0
4	2483.50	47.7 AV	54.0	-6.3	1.43 H	44	14.7	33.0
5	4924.00	46.8 PK	74.0	-27.2	2.51 H	175	42.8	4.0
6	4924.00	33.3 AV	54.0	-20.7	2.51 H	175	29.3	4.0
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	*2462.00	106.6 PK			1.95 V	203	73.7	32.9
2	*2462.00	94.2 AV			1.95 V	203	61.3	32.9
3	2483.50	73.4 PK	74.0	-0.6	1.91 V	173	40.4	33.0
4	2483.50	48.9 AV	54.0	-5.1	1.91 V	173	15.9	33.0
5	4924.00	46.8 PK	74.0	-27.2	2.64 V	251	42.8	4.0
6	4924.00	33.3 AV	54.0	-20.7	2.64 V	251	29.3	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. Margin value = Emission Level – Limit value.
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

802.11ax (HE40)

CHANNEL	TX Channel 3	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	64.9 PK	74.0	-9.1	1.43 H	42	32.0	32.9
2	2390.00	49.7 AV	54.0	-4.3	1.43 H	42	16.8	32.9
3	*2422.00	101.2 PK			1.02 H	30	68.4	32.8
4	*2422.00	89.0 AV			1.02 H	30	56.2	32.8
5	4844.00	47.4 PK	74.0	-26.6	2.48 H	202	43.5	3.9
6	4844.00	34.9 AV	54.0	-19.1	2.48 H	202	31.0	3.9
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	2390.00	70.4 PK	74.0	-3.6	1.58 V	176	37.5	32.9
2	2390.00	52.7 AV	54.0	-1.3	1.58 V	176	19.8	32.9
3	*2422.00	106.8 PK			1.08 V	187	74.0	32.8
4	*2422.00	94.2 AV			1.08 V	187	61.4	32.8
5	4844.00	46.8 PK	74.0	-27.2	2.68 V	224	42.9	3.9
6	4844.00	34.3 AV	54.0	-19.7	2.68 V	224	30.4	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. Margin value = Emission Level – Limit value.
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	62.7 PK	74.0	-11.3	1.55 H	46	29.8	32.9
2	2390.00	49.8 AV	54.0	-4.2	1.55 H	46	16.9	32.9
3	*2437.00	102.8 PK			1.02 H	31	69.9	32.9
4	*2437.00	90.2 AV			1.02 H	31	57.3	32.9
5	2483.50	65.5 PK	74.0	-8.5	1.43 H	32	32.5	33.0
6	2483.50	49.6 AV	54.0	-4.4	1.43 H	32	16.6	33.0
7	4874.00	46.8 PK	74.0	-27.2	2.23 H	182	42.8	4.0
8	4874.00	34.7 AV	54.0	-19.3	2.23 H	182	30.7	4.0
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	2390.00	69.6 PK	74.0	-4.4	1.54 V	176	36.7	32.9
2	2390.00	53.3 AV	54.0	-0.7	1.54 V	176	20.4	32.9
3	*2437.00	107.9 PK			1.06 V	186	75.0	32.9
4	*2437.00	95.3 AV			1.06 V	186	62.4	32.9
5	2483.50	68.6 PK	74.0	-5.4	1.15 V	174	35.6	33.0
6	2483.50	51.6 AV	54.0	-2.4	1.15 V	174	18.6	33.0
7	4874.00	46.5 PK	74.0	-27.5	2.23 V	189	42.5	4.0
8	4874.00	34.6 AV	54.0	-19.4	2.23 V	189	30.6	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. Margin value = Emission Level – Limit value.
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 9	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2452.00	100.4 PK			1.00 H	32	67.5	32.9
2	*2452.00	88.2 AV			1.00 H	32	55.3	32.9
3	2483.50	67.2 PK	74.0	-6.8	1.08 H	34	34.2	33.0
4	2483.50	49.4 AV	54.0	-4.6	1.08 H	34	16.4	33.0
5	4904.00	46.8 PK	74.0	-27.2	1.92 H	281	42.8	4.0
6	4904.00	34.5 AV	54.0	-19.5	1.92 H	281	30.5	4.0
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	*2452.00	105.8 PK			1.06 V	187	72.9	32.9
2	*2452.00	93.3 AV			1.06 V	187	60.4	32.9
3	2483.50	73.4 PK	74.0	-0.6	1.34 V	173	40.4	33.0
4	2483.50	51.9 AV	54.0	-2.1	1.34 V	173	18.9	33.0
5	4904.00	46.3 PK	74.0	-27.7	2.61 V	188	42.3	4.0
6	4904.00	34.2 AV	54.0	-19.8	2.61 V	188	30.2	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. Margin value = Emission Level – Limit value.
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

2TX

802.11b

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	59.6 PK	74.0	-14.4	1.64 H	132	26.7	32.9
2	2390.00	48.1 AV	54.0	-5.9	1.64 H	132	15.2	32.9
3	*2412.00	111.9 PK			1.92 H	32	79.0	32.9
4	*2412.00	108.4 AV			1.92 H	32	75.5	32.9
5	4824.00	46.9 PK	74.0	-27.1	2.57 H	236	43.2	3.7
6	4824.00	34.7 AV	54.0	-19.3	2.57 H	236	31.0	3.7
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	2390.00	59.9 PK	74.0	-14.1	1.16 V	177	27.0	32.9
2	2390.00	48.9 AV	54.0	-5.1	1.16 V	177	16.0	32.9
3	*2412.00	114.8 PK			1.11 V	175	81.9	32.9
4	*2412.00	111.4 AV			1.11 V	175	78.5	32.9
5	4824.00	46.3 PK	74.0	-27.7	1.35 V	133	42.6	3.7
6	4824.00	33.3 AV	54.0	-20.7	1.35 V	133	29.6	3.7

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.

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	110.2 PK			1.88 H	33	77.3	32.9
2	*2437.00	106.7 AV			1.88 H	33	73.8	32.9
3	4874.00	47.8 PK	74.0	-26.2	2.69 H	236	43.8	4.0
4	4874.00	35.3 AV	54.0	-18.7	2.69 H	236	31.3	4.0
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	*2437.00	114.9 PK			2.43 V	65	82.0	32.9
2	*2437.00	111.5 AV			2.43 V	65	78.6	32.9
3	4874.00	48.5 PK	74.0	-25.5	2.40 V	106	44.5	4.0
4	4874.00	40.2 AV	54.0	-13.8	2.40 V	106	36.2	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. Margin value = Emission Level – Limit value.
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	110.5 PK			1.60 H	34	77.6	32.9
2	*2462.00	107.0 AV			1.60 H	34	74.1	32.9
3	2483.50	61.2 PK	74.0	-12.8	1.86 H	51	28.2	33.0
4	2483.50	48.3 AV	54.0	-5.7	1.86 H	51	15.3	33.0
5	4924.00	47.4 PK	74.0	-26.6	2.88 H	296	43.4	4.0
6	4924.00	34.8 AV	54.0	-19.2	2.88 H	296	30.8	4.0
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	*2462.00	114.5 PK			2.57 V	191	81.6	32.9
2	*2462.00	110.9 AV			2.57 V	191	78.0	32.9
3	2483.50	61.0 PK	74.0	-13.0	2.41 V	185	28.0	33.0
4	2483.50	48.9 AV	54.0	-5.1	2.41 V	185	15.9	33.0
5	4924.00	48.4 PK	74.0	-25.6	2.80 V	99	44.4	4.0
6	4924.00	37.3 AV	54.0	-16.7	2.80 V	99	33.3	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. Margin value = Emission Level – Limit value.
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

802.11g

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	67.7 PK	74.0	-6.3	2.35 H	143	34.8	32.9
2	2390.00	49.4 AV	54.0	-4.6	2.35 H	143	16.5	32.9
3	*2412.00	107.3 PK			1.90 H	33	74.4	32.9
4	*2412.00	97.5 AV			1.90 H	33	64.6	32.9
5	4824.00	46.1 PK	74.0	-27.9	2.89 H	283	42.4	3.7
6	4824.00	33.3 AV	54.0	-20.7	2.89 H	283	29.6	3.7
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	2390.00	73.0 PK	74.0	-1.0	1.98 V	56	40.1	32.9
2	2390.00	51.9 AV	54.0	-2.1	1.98 V	56	19.0	32.9
3	*2412.00	109.3 PK			1.54 V	158	76.4	32.9
4	*2412.00	99.8 AV			1.54 V	158	66.9	32.9
5	4824.00	46.1 PK	74.0	-27.9	2.64 V	188	42.4	3.7
6	4824.00	32.7 AV	54.0	-21.3	2.64 V	188	29.0	3.7

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.

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	109.9 PK			1.84 H	33	77.0	32.9
2	*2437.00	100.2 AV			1.84 H	33	67.3	32.9
3	2483.50	64.5 PK	74.0	-9.5	1.69 H	78	31.5	33.0
4	2483.50	48.3 AV	54.0	-5.7	1.69 H	78	15.3	33.0
5	4874.00	47.2 PK	74.0	-26.8	2.58 H	263	43.2	4.0
6	4874.00	34.0 AV	54.0	-20.0	2.58 H	263	30.0	4.0
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	*2437.00	113.2 PK			2.73 V	264	80.3	32.9
2	*2437.00	103.7 AV			2.73 V	264	70.8	32.9
3	2483.50	71.6 PK	74.0	-2.4	1.87 V	176	38.6	33.0
4	2483.50	51.2 AV	54.0	-2.8	1.87 V	176	18.2	33.0
5	4874.00	47.1 PK	74.0	-26.9	1.67 V	138	43.1	4.0
6	4874.00	34.3 AV	54.0	-19.7	1.67 V	138	30.3	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. Margin value = Emission Level – Limit value.
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	105.0 PK			1.60 H	33	72.1	32.9
2	*2462.00	95.4 AV			1.60 H	33	62.5	32.9
3	2483.50	69.8 PK	74.0	-4.2	1.82 H	73	36.8	33.0
4	2483.50	48.5 AV	54.0	-5.5	1.82 H	73	15.5	33.0
5	4874.00	46.9 PK	74.0	-27.1	2.96 H	288	42.9	4.0
6	4874.00	33.8 AV	54.0	-20.2	2.96 H	288	29.8	4.0
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	*2462.00	109.2 PK			2.97 V	168	76.3	32.9
2	*2462.00	99.9 AV			2.97 V	168	67.0	32.9
3	2483.50	72.9 PK	74.0	-1.1	1.84 V	237	39.9	33.0
4	2483.50	50.2 AV	54.0	-3.8	1.84 V	237	17.2	33.0
5	4924.00	47.1 PK	74.0	-26.9	1.99 V	256	43.1	4.0
6	4924.00	33.9 AV	54.0	-20.1	1.99 V	256	29.9	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. Margin value = Emission Level – Limit value.
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

802.11ax (HE20)

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	71.7 PK	74.0	-2.3	2.94 H	253	37.9	33.8
2	2390.00	51.0 AV	54.0	-3.0	2.94 H	253	17.2	33.8
3	*2412.00	104.0 PK			3.10 H	277	70.2	33.8
4	*2412.00	93.1 AV			3.10 H	277	59.3	33.8
5	4824.00	55.5 PK	74.0	-18.5	2.01 H	174	42.3	13.2
6	4824.00	42.3 AV	54.0	-11.7	2.01 H	174	29.1	13.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	73.8 PK	74.0	-0.2	1.40 V	67	40.0	33.8
2	2390.00	53.9 AV	54.0	-0.1	1.40 V	67	20.1	33.8
3	*2412.00	111.3 PK			1.64 V	101	77.5	33.8
4	*2412.00	100.3 AV			1.64 V	101	66.5	33.8
5	4824.00	58.6 PK	74.0	-15.4	1.28 V	207	45.4	13.2
6	4824.00	45.7 AV	54.0	-8.3	1.28 V	207	32.5	13.2

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

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	109.0 PK			2.99 H	284	75.2	33.8
2	*2437.00	96.6 AV			2.99 H	284	62.8	33.8
3	4874.00	52.1 PK	74.0	-21.9	1.65 H	194	38.9	13.2
4	4874.00	42.0 AV	54.0	-12.0	1.65 H	194	28.8	13.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	116.5 PK			1.28 V	101	82.7	33.8
2	*2437.00	104.0 AV			1.28 V	101	70.2	33.8
3	4874.00	57.9 PK	74.0	-16.1	1.28 V	222	44.7	13.2
4	4874.00	46.0 AV	54.0	-8.0	1.28 V	222	32.8	13.2

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

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	102.1 PK			3.30 H	249	68.2	33.9
2	*2462.00	90.6 AV			3.30 H	249	56.7	33.9
3	2483.50	71.3 PK	74.0	-2.7	3.05 H	266	37.4	33.9
4	2483.50	47.5 AV	54.0	-6.5	3.05 H	266	13.6	33.9
5	4924.00	53.8 PK	74.0	-20.2	1.45 H	239	40.5	13.3
6	4924.00	41.1 AV	54.0	-12.9	1.45 H	239	27.8	13.3
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	109.1 PK			1.17 V	110	75.2	33.9
2	*2462.00	97.5 AV			1.17 V	110	63.6	33.9
3	2483.50	73.7 PK	74.0	-0.3	1.02 V	109	39.8	33.9
4	2483.50	48.2 AV	54.0	-5.8	1.02 V	109	14.3	33.9
5	4924.00	58.1 PK	74.0	-15.9	1.30 V	202	44.8	13.3
6	4924.00	45.2 AV	54.0	-8.8	1.30 V	202	31.9	13.3

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

802.11ax (HE40)

CHANNEL	TX Channel 3	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	71.2 PK	74.0	-2.8	3.19 H	285	37.4	33.8
2	2390.00	48.6 AV	54.0	-5.4	3.19 H	285	14.8	33.8
3	*2422.00	101.2 PK			3.14 H	280	67.4	33.8
4	*2422.00	89.2 AV			3.14 H	280	55.4	33.8
5	4844.00	52.3 PK	74.0	-21.7	1.63 H	225	39.1	13.2
6	4844.00	40.7 AV	54.0	-13.3	1.63 H	225	27.5	13.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	73.7 PK	74.0	-0.3	1.08 V	125	39.9	33.8
2	2390.00	52.2 AV	54.0	-1.8	1.08 V	125	18.4	33.8
3	*2422.00	108.4 PK			1.00 V	102	74.6	33.8
4	*2422.00	96.7 AV			1.00 V	102	62.9	33.8
5	4844.00	55.5 PK	74.0	-18.5	1.15 V	192	42.3	13.2
6	4844.00	42.6 AV	54.0	-11.4	1.15 V	192	29.4	13.2

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

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	68.4 PK	74.0	-5.6	3.19 H	259	34.6	33.8
2	2390.00	49.4 AV	54.0	-4.6	3.19 H	259	15.6	33.8
3	*2437.00	102.3 PK			3.06 H	282	68.5	33.8
4	*2437.00	90.2 AV			3.06 H	282	56.4	33.8
5	2483.50	69.4 PK	74.0	-4.6	2.95 H	278	35.5	33.9
6	2483.50	49.8 AV	54.0	-4.2	2.95 H	278	15.9	33.9
7	4874.00	51.8 PK	74.0	-22.2	1.88 H	195	38.6	13.2
8	4874.00	41.1 AV	54.0	-12.9	1.88 H	195	27.9	13.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	70.4 PK	74.0	-3.6	1.09 V	45	36.6	33.8
2	2390.00	53.3 AV	54.0	-0.7	1.09 V	45	19.5	33.8
3	*2437.00	108.9 PK			1.05 V	104	75.1	33.8
4	*2437.00	98.1 AV			1.05 V	104	64.3	33.8
5	2483.50	73.7 PK	74.0	-0.3	1.05 V	109	39.8	33.9
6	2483.50	53.3 AV	54.0	-0.7	1.05 V	109	19.4	33.9
7	4874.00	55.2 PK	74.0	-18.8	1.25 V	230	42.0	13.2
8	4874.00	42.8 AV	54.0	-11.2	1.25 V	230	29.6	13.2

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

CHANNEL	TX Channel 9	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2452.00	105.5 PK			3.10 H	277	71.7	33.8
2	*2452.00	92.7 AV			3.10 H	277	58.9	33.8
3	2483.50	67.8 PK	74.0	-6.2	3.01 H	259	33.9	33.9
4	2483.50	48.8 AV	54.0	-5.2	3.01 H	259	14.9	33.9
5	4904.00	52.3 PK	74.0	-21.7	1.63 H	204	38.9	13.4
6	4904.00	41.3 AV	54.0	-12.7	1.63 H	204	27.9	13.4
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2452.00	112.1 PK			1.48 V	357	78.3	33.8
2	*2452.00	100.3 AV			1.48 V	357	66.5	33.8
3	2483.50	72.7 PK	74.0	-1.3	1.20 V	302	38.8	33.9
4	2483.50	53.5 AV	54.0	-0.5	1.20 V	302	19.6	33.9
5	4904.00	54.7 PK	74.0	-19.3	1.33 V	205	41.3	13.4
6	4904.00	41.8 AV	54.0	-12.2	1.33 V	205	28.4	13.4

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

3TX

802.11b

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	57.4 PK	74.0	-16.6	3.06 H	278	23.6	33.8
2	2390.00	46.2 AV	54.0	-7.8	3.06 H	278	12.4	33.8
3	*2412.00	101.5 PK			3.00 H	290	67.7	33.8
4	*2412.00	97.0 AV			3.00 H	290	63.2	33.8
5	4824.00	53.4 PK	74.0	-20.6	2.44 H	152	40.2	13.2
6	4824.00	51.3 AV	54.0	-2.7	2.44 H	152	38.1	13.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	57.9 PK	74.0	-16.1	2.39 V	201	24.1	33.8
2	2390.00	46.5 AV	54.0	-7.5	2.39 V	201	12.7	33.8
3	*2412.00	110.5 PK			2.24 V	219	76.7	33.8
4	*2412.00	106.7 AV			2.24 V	219	72.9	33.8
5	4824.00	58.1 PK	74.0	-15.9	2.24 V	211	44.9	13.2
6	4824.00	53.9 AV	54.0	-0.1	2.24 V	211	40.7	13.2

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

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	103.0 PK			2.95 H	299	69.2	33.8
2	*2437.00	98.8 AV			2.95 H	299	65.0	33.8
3	4874.00	56.4 PK	74.0	-17.6	2.14 H	136	43.2	13.2
4	4874.00	52.1 AV	54.0	-1.9	2.14 H	136	38.9	13.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	110.1 PK			1.81 V	59	76.3	33.8
2	*2437.00	106.5 AV			1.81 V	59	72.7	33.8
3	4874.00	58.8 PK	74.0	-15.2	2.25 V	217	45.6	13.2
4	4874.00	53.8 AV	54.0	-0.2	2.25 V	217	40.6	13.2

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

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	101.5 PK			3.08 H	261	67.6	33.9
2	*2462.00	97.6 AV			3.08 H	261	63.7	33.9
3	2483.50	58.4 PK	74.0	-15.6	2.80 H	294	24.5	33.9
4	2483.50	46.2 AV	54.0	-7.8	2.80 H	294	12.3	33.9
5	4924.00	56.5 PK	74.0	-17.5	2.03 H	114	43.2	13.3
6	4924.00	51.4 AV	54.0	-2.6	2.03 H	114	38.1	13.3
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	109.3 PK			2.62 V	221	75.4	33.9
2	*2462.00	105.8 AV			2.62 V	221	71.9	33.9
3	2483.50	58.7 PK	74.0	-15.3	2.51 V	236	24.8	33.9
4	2483.50	46.5 AV	54.0	-7.5	2.51 V	236	12.6	33.9
5	4924.00	58.3 PK	74.0	-15.7	3.00 V	224	45.0	13.3
6	4924.00	53.5 AV	54.0	-0.5	3.00 V	224	40.2	13.3

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

802.11g

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	71.7 PK	74.0	-2.3	3.11 H	264	37.9	33.8
2	2390.00	50.5 AV	54.0	-3.5	3.11 H	264	16.7	33.8
3	*2412.00	106.6 PK			3.16 H	275	72.8	33.8
4	*2412.00	96.5 AV			3.16 H	275	62.7	33.8
5	4824.00	55.8 PK	74.0	-18.2	2.41 H	165	42.6	13.2
6	4824.00	43.7 AV	54.0	-10.3	2.41 H	165	30.5	13.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	73.9 PK	74.0	-0.1	2.25 V	60	40.1	33.8
2	2390.00	53.8 AV	54.0	-0.2	2.25 V	60	20.0	33.8
3	*2412.00	113.9 PK			2.29 V	2	80.1	33.8
4	*2412.00	103.9 AV			2.29 V	2	70.1	33.8
5	4824.00	58.7 PK	74.0	-15.3	2.27 V	212	45.5	13.2
6	4824.00	46.2 AV	54.0	-7.8	2.27 V	212	33.0	13.2

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

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	110.3 PK			3.30 H	285	76.5	33.8
2	*2437.00	100.1 AV			3.30 H	285	66.3	33.8
3	4874.00	56.8 PK	74.0	-17.2	2.61 H	174	43.6	13.2
4	4874.00	46.1 AV	54.0	-7.9	2.61 H	174	32.9	13.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	117.2 PK			1.85 V	40	83.4	33.8
2	*2437.00	107.6 AV			1.85 V	40	73.8	33.8
3	4874.00	60.0 PK	74.0	-14.0	1.80 V	198	46.8	13.2
4	4874.00	48.0 AV	54.0	-6.0	1.80 V	198	34.8	13.2

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

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	105.4 PK			3.15 H	288	71.5	33.9
2	*2462.00	95.5 AV			3.15 H	288	61.6	33.9
3	2483.50	71.7 PK	74.0	-2.3	2.95 H	289	37.8	33.9
4	2483.50	47.3 AV	54.0	-6.7	2.95 H	289	13.4	33.9
5	4924.00	56.4 PK	74.0	-17.6	2.49 H	192	43.1	13.3
6	4924.00	42.9 AV	54.0	-11.1	2.49 H	192	29.6	13.3
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	112.1 PK			2.16 V	38	78.2	33.9
2	*2462.00	102.9 AV			2.16 V	38	69.0	33.9
3	2483.50	73.7 PK	74.0	-0.3	1.61 V	108	39.8	33.9
4	2483.50	49.8 AV	54.0	-4.2	1.61 V	108	15.9	33.9
5	4924.00	58.4 PK	74.0	-15.6	2.36 V	241	45.1	13.3
6	4924.00	45.7 AV	54.0	-8.3	2.36 V	241	32.4	13.3

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

802.11ax (HE20)

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	72.3 PK	74.0	-1.7	3.06 H	295	38.5	33.8
2	2390.00	48.5 AV	54.0	-5.5	3.06 H	295	14.7	33.8
3	*2412.00	104.3 PK			3.11 H	290	70.5	33.8
4	*2412.00	94.2 AV			3.11 H	290	60.4	33.8
5	4824.00	54.5 PK	74.0	-19.5	1.62 H	259	41.3	13.2
6	4824.00	43.2 AV	54.0	-10.8	1.62 H	259	30.0	13.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	73.6 PK	74.0	-0.4	2.18 V	2	39.8	33.8
2	2390.00	50.6 AV	54.0	-3.4	2.18 V	2	16.8	33.8
3	*2412.00	111.7 PK			2.13 V	1	77.9	33.8
4	*2412.00	101.0 AV			2.13 V	1	67.2	33.8
5	4824.00	57.1 PK	74.0	-16.9	1.43 V	256	43.9	13.2
6	4824.00	44.0 AV	54.0	-10.0	1.43 V	256	30.8	13.2

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

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	111.3 PK			2.99 H	293	77.5	33.8
2	*2437.00	99.7 AV			2.99 H	293	65.9	33.8
3	4874.00	55.3 PK	74.0	-18.7	1.94 H	214	42.1	13.2
4	4874.00	43.4 AV	54.0	-10.6	1.94 H	214	30.2	13.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	118.1 PK			2.00 V	36	84.3	33.8
2	*2437.00	106.6 AV			2.00 V	36	72.8	33.8
3	4874.00	57.8 PK	74.0	-16.2	1.55 V	240	44.6	13.2
4	4874.00	44.7 AV	54.0	-9.3	1.55 V	240	31.5	13.2

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

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	104.2 PK			2.77 H	290	70.3	33.9
2	*2462.00	93.1 AV			2.77 H	290	59.2	33.9
3	2483.50	73.0 PK	74.0	-1.0	2.80 H	275	39.1	33.9
4	2483.50	46.7 AV	54.0	-7.3	2.80 H	275	12.8	33.9
5	4924.00	53.5 PK	74.0	-20.5	2.30 H	141	40.2	13.3
6	4924.00	43.0 AV	54.0	-11.0	2.30 H	141	29.7	13.3
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	111.5 PK			1.95 V	14	77.6	33.9
2	*2462.00	99.8 AV			1.95 V	14	65.9	33.9
3	2483.50	73.6 PK	74.0	-0.4	2.01 V	107	39.7	33.9
4	2483.50	47.8 AV	54.0	-6.2	2.01 V	107	13.9	33.9
5	4924.00	55.1 PK	74.0	-18.9	1.63 V	248	41.8	13.3
6	4924.00	43.4 AV	54.0	-10.6	1.63 V	248	30.1	13.3

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

802.11ax (HE40)

CHANNEL	TX Channel 3	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	69.5 PK	74.0	-4.5	2.41 H	304	35.7	33.8
2	2390.00	51.0 AV	54.0	-3.0	2.41 H	304	17.2	33.8
3	*2422.00	101.8 PK			2.99 H	261	68.0	33.8
4	*2422.00	90.9 AV			2.99 H	261	57.1	33.8
5	4844.00	54.4 PK	74.0	-19.6	2.54 H	102	41.2	13.2
6	4844.00	42.8 AV	54.0	-11.2	2.54 H	102	29.6	13.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	70.4 PK	74.0	-3.6	1.63 V	40	36.6	33.8
2	2390.00	53.6 AV	54.0	-0.4	1.63 V	40	19.8	33.8
3	*2422.00	109.0 PK			1.57 V	39	75.2	33.8
4	*2422.00	98.6 AV			1.57 V	39	64.8	33.8
5	4844.00	57.7 PK	74.0	-16.3	1.87 V	210	44.5	13.2
6	4844.00	44.3 AV	54.0	-9.7	1.87 V	210	31.1	13.2

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

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	70.6 PK	74.0	-3.4	2.87 H	280	36.8	33.8
2	2390.00	51.4 AV	54.0	-2.6	2.87 H	280	17.6	33.8
3	*2437.00	105.0 PK			3.11 H	268	71.2	33.8
4	*2437.00	93.1 AV			3.11 H	268	59.3	33.8
5	2483.50	68.9 PK	74.0	-5.1	2.39 H	271	35.0	33.9
6	2483.50	51.8 AV	54.0	-2.2	2.39 H	271	17.9	33.9
7	4874.00	54.8 PK	74.0	-19.2	1.96 H	147	41.6	13.2
8	4874.00	43.1 AV	54.0	-10.9	1.96 H	147	29.9	13.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	71.9 PK	74.0	-2.1	1.58 V	21	38.1	33.8
2	2390.00	53.8 AV	54.0	-0.2	1.58 V	21	20.0	33.8
3	*2437.00	112.3 PK			1.49 V	89	78.5	33.8
4	*2437.00	100.6 AV			1.49 V	89	66.8	33.8
5	2483.50	71.0 PK	74.0	-3.0	1.19 V	75	37.1	33.9
6	2483.50	53.9 AV	54.0	-0.1	1.19 V	75	20.0	33.9
7	4874.00	58.1 PK	74.0	-15.9	2.14 V	154	44.9	13.2
8	4874.00	44.8 AV	54.0	-9.2	2.14 V	154	31.6	13.2

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

CHANNEL	TX Channel 9	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2452.00	103.3 PK			2.75 H	290	69.5	33.8
2	*2452.00	92.4 AV			2.75 H	290	58.6	33.8
3	2483.50	71.8 PK	74.0	-2.2	2.87 H	299	37.9	33.9
4	2483.50	49.0 AV	54.0	-5.0	2.87 H	299	15.1	33.9
5	4904.00	55.3 PK	74.0	-18.7	1.77 H	241	41.9	13.4
6	4904.00	43.0 AV	54.0	-11.0	1.77 H	241	29.6	13.4
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2452.00	110.1 PK			1.02 V	88	76.3	33.8
2	*2452.00	97.8 AV			1.02 V	88	64.0	33.8
3	2483.50	73.6 PK	74.0	-0.4	1.00 V	83	39.7	33.9
4	2483.50	50.3 AV	54.0	-3.7	1.00 V	83	16.4	33.9
5	4904.00	57.1 PK	74.0	-16.9	2.23 V	162	43.7	13.4
6	4904.00	44.3 AV	54.0	-9.7	2.23 V	162	30.9	13.4

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

Test Mode I (External antenna – PN: ATS-OP-245-810-4RPSP-36 + Eth7 Radio)

1TX

802.11b

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	58.3 PK	74.0	-15.7	1.09 H	353	24.5	33.8
2	2390.00	46.3 AV	54.0	-7.7	1.09 H	353	12.5	33.8
3	*2412.00	111.6 PK			1.05 H	349	77.8	33.8
4	*2412.00	106.3 AV			1.05 H	349	72.5	33.8
5	4824.00	51.4 PK	74.0	-22.6	2.65 H	211	38.2	13.2
6	4824.00	38.2 AV	54.0	-15.8	2.65 H	211	25.0	13.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	58.8 PK	74.0	-15.2	2.29 V	26	25.0	33.8
2	2390.00	47.0 AV	54.0	-7.0	2.29 V	26	13.2	33.8
3	*2412.00	113.6 PK			2.21 V	12	79.8	33.8
4	*2412.00	108.3 AV			2.21 V	12	74.5	33.8
5	4824.00	51.6 PK	74.0	-22.4	3.00 V	312	38.4	13.2
6	4824.00	38.3 AV	54.0	-15.7	3.00 V	312	25.1	13.2

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

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	108.7 PK			1.00 H	340	74.9	33.8
2	*2437.00	105.2 AV			1.00 H	340	71.4	33.8
3	4874.00	51.0 PK	74.0	-23.0	3.01 H	315	37.8	13.2
4	4874.00	38.3 AV	54.0	-15.7	3.01 H	315	25.1	13.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	110.7 PK			1.00 V	14	76.9	33.8
2	*2437.00	107.2 AV			1.00 V	14	73.4	33.8
3	4874.00	51.2 PK	74.0	-22.8	3.00 V	358	38.0	13.2
4	4874.00	38.5 AV	54.0	-15.5	3.00 V	358	25.3	13.2

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

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	108.4 PK			1.51 H	346	74.5	33.9
2	*2462.00	105.2 AV			1.51 H	346	71.3	33.9
3	2483.50	58.2 PK	74.0	-15.8	1.75 H	347	24.3	33.9
4	2483.50	46.5 AV	54.0	-7.5	1.75 H	347	12.6	33.9
5	4924.00	50.8 PK	74.0	-23.2	2.70 H	211	37.5	13.3
6	4924.00	38.4 AV	54.0	-15.6	2.70 H	211	25.1	13.3
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	110.4 PK			1.93 V	6	76.5	33.9
2	*2462.00	107.2 AV			1.93 V	6	73.3	33.9
3	2483.50	58.6 PK	74.0	-15.4	1.89 V	15	24.7	33.9
4	2483.50	47.1 AV	54.0	-6.9	1.89 V	15	13.2	33.9
5	4924.00	51.1 PK	74.0	-22.9	2.88 V	254	37.8	13.3
6	4924.00	38.6 AV	54.0	-15.4	2.88 V	254	25.3	13.3

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

802.11g

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	71.9 PK	74.0	-2.1	2.11 H	345	38.1	33.8
2	2390.00	50.7 AV	54.0	-3.3	2.11 H	345	16.9	33.8
3	*2412.00	106.2 PK			1.21 H	340	72.4	33.8
4	*2412.00	97.1 AV			1.21 H	340	63.3	33.8
5	4824.00	50.6 PK	74.0	-23.4	3.00 H	355	37.4	13.2
6	4824.00	38.3 AV	54.0	-15.7	3.00 H	355	25.1	13.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	73.2 PK	74.0	-0.8	1.70 V	13	39.4	33.8
2	2390.00	51.6 AV	54.0	-2.4	1.70 V	13	17.8	33.8
3	*2412.00	107.7 PK			1.77 V	19	73.9	33.8
4	*2412.00	98.6 AV			1.77 V	19	64.8	33.8
5	4824.00	51.0 PK	74.0	-23.0	3.00 V	311	37.8	13.2
6	4824.00	38.5 AV	54.0	-15.5	3.00 V	311	25.3	13.2

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

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	109.2 PK			1.05 H	349	75.4	33.8
2	*2437.00	99.8 AV			1.05 H	349	66.0	33.8
3	4874.00	50.7 PK	74.0	-23.3	1.25 H	339	37.5	13.2
4	4874.00	38.2 AV	54.0	-15.8	1.25 H	339	25.0	13.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	110.2 PK			1.60 V	353	76.4	33.8
2	*2437.00	100.8 AV			1.60 V	353	67.0	33.8
3	4874.00	51.0 PK	74.0	-23.0	3.26 V	152	37.8	13.2
4	4874.00	38.4 AV	54.0	-15.6	3.26 V	152	25.2	13.2

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

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	105.8 PK			1.19 H	343	71.9	33.9
2	*2462.00	95.5 AV			1.19 H	343	61.6	33.9
3	2483.50	72.0 PK	74.0	-2.0	1.22 H	348	38.1	33.9
4	2483.50	46.8 AV	54.0	-7.2	1.22 H	348	12.9	33.9
5	4924.00	51.0 PK	74.0	-23.0	3.06 H	311	37.7	13.3
6	4924.00	38.5 AV	54.0	-15.5	3.06 H	311	25.2	13.3
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	106.8 PK			1.19 V	5	72.9	33.9
2	*2462.00	96.5 AV			1.19 V	5	62.6	33.9
3	2483.50	73.4 PK	74.0	-0.6	1.88 V	14	39.5	33.9
4	2483.50	47.8 AV	54.0	-6.2	1.88 V	14	13.9	33.9
5	4924.00	51.1 PK	74.0	-22.9	3.09 V	311	37.8	13.3
6	4924.00	38.6 AV	54.0	-15.4	3.09 V	311	25.3	13.3

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

802.11ax (HE20)

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	72.1 PK	74.0	-1.9	2.11 H	349	38.3	33.8
2	2390.00	49.3 AV	54.0	-4.7	2.11 H	349	15.5	33.8
3	*2412.00	107.2 PK			1.22 H	350	73.4	33.8
4	*2412.00	95.7 AV			1.22 H	350	61.9	33.8
5	4824.00	50.7 PK	74.0	-23.3	1.22 H	340	37.5	13.2
6	4824.00	38.2 AV	54.0	-15.8	1.22 H	340	25.0	13.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	73.0 PK	74.0	-1.0	1.98 V	15	39.2	33.8
2	2390.00	50.7 AV	54.0	-3.3	1.98 V	15	16.9	33.8
3	*2412.00	108.2 PK			1.98 V	20	74.4	33.8
4	*2412.00	96.7 AV			1.98 V	20	62.9	33.8
5	4824.00	50.9 PK	74.0	-23.1	3.02 V	152	37.7	13.2
6	4824.00	38.5 AV	54.0	-15.5	3.02 V	152	25.3	13.2

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

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	110.4 PK			1.33 H	345	76.6	33.8
2	*2437.00	98.5 AV			1.33 H	345	64.7	33.8
3	4874.00	51.0 PK	74.0	-23.0	3.01 H	340	37.8	13.2
4	4874.00	38.6 AV	54.0	-15.4	3.01 H	340	25.4	13.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	112.4 PK			1.32 V	8	78.6	33.8
2	*2437.00	100.5 AV			1.32 V	8	66.7	33.8
3	4874.00	51.1 PK	74.0	-22.9	3.00 V	319	37.9	13.2
4	4874.00	38.8 AV	54.0	-15.2	3.00 V	319	25.6	13.2

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

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	105.9 PK			1.03 H	345	72.0	33.9
2	*2462.00	92.6 AV			1.03 H	345	58.7	33.9
3	2483.50	72.0 PK	74.0	-2.0	1.39 H	346	38.1	33.9
4	2483.50	46.9 AV	54.0	-7.1	1.39 H	346	13.0	33.9
5	4924.00	51.0 PK	74.0	-23.0	2.59 H	210	37.7	13.3
6	4924.00	38.3 AV	54.0	-15.7	2.59 H	210	25.0	13.3
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	106.9 PK			1.92 V	9	73.0	33.9
2	*2462.00	93.6 AV			1.92 V	9	59.7	33.9
3	2483.50	73.4 PK	74.0	-0.6	1.32 V	18	39.5	33.9
4	2483.50	47.5 AV	54.0	-6.5	1.32 V	18	13.6	33.9
5	4924.00	51.1 PK	74.0	-22.9	3.09 V	315	37.8	13.3
6	4924.00	38.5 AV	54.0	-15.5	3.09 V	315	25.2	13.3

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

802.11ax (HE40)

CHANNEL	TX Channel 3	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	69.7 PK	74.0	-4.3	1.15 H	349	35.9	33.8
2	2390.00	52.1 AV	54.0	-1.9	1.15 H	349	18.3	33.8
3	*2422.00	105.8 PK			1.01 H	345	72.0	33.8
4	*2422.00	93.0 AV			1.01 H	345	59.2	33.8
5	2483.50	58.7 PK	74.0	-15.3	1.09 H	344	24.8	33.9
6	2483.50	46.2 AV	54.0	-7.8	1.09 H	344	12.3	33.9
7	4844.00	51.0 PK	74.0	-23.0	3.02 H	322	37.8	13.2
8	4844.00	38.4 AV	54.0	-15.6	3.02 H	322	25.2	13.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	70.7 PK	74.0	-3.3	1.70 V	13	36.9	33.8
2	2390.00	53.2 AV	54.0	-0.8	1.70 V	13	19.4	33.8
3	*2422.00	107.0 PK			1.70 V	13	73.2	33.8
4	*2422.00	94.2 AV			1.70 V	13	60.4	33.8
5	2483.50	59.0 PK	74.0	-15.0	1.77 V	19	25.1	33.9
6	2483.50	46.6 AV	54.0	-7.4	1.77 V	19	12.7	33.9
7	4844.00	51.1 PK	74.0	-22.9	3.09 V	316	37.9	13.2
8	4844.00	39.0 AV	54.0	-15.0	3.09 V	316	25.8	13.2

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

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	67.7 PK	74.0	-6.3	1.01 H	344	33.9	33.8
2	2390.00	52.1 AV	54.0	-1.9	1.01 H	344	18.3	33.8
3	*2437.00	105.4 PK			1.09 H	342	71.6	33.8
4	*2437.00	92.3 AV			1.09 H	342	58.5	33.8
5	2483.50	68.7 PK	74.0	-5.3	1.05 H	349	34.8	33.9
6	2483.50	51.9 AV	54.0	-2.1	1.05 H	349	18.0	33.9
7	4874.00	51.0 PK	74.0	-23.0	2.22 H	215	37.8	13.2
8	4874.00	38.6 AV	54.0	-15.4	2.22 H	215	25.4	13.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	68.1 PK	74.0	-5.9	1.70 V	13	34.3	33.8
2	2390.00	53.0 AV	54.0	-1.0	1.70 V	13	19.2	33.8
3	*2437.00	106.7 PK			1.31 V	1	72.9	33.8
4	*2437.00	93.6 AV			1.31 V	1	59.8	33.8
5	2483.50	69.8 PK	74.0	-4.2	1.79 V	20	35.9	33.9
6	2483.50	52.7 AV	54.0	-1.3	1.79 V	20	18.8	33.9
7	4874.00	51.1 PK	74.0	-22.9	3.33 V	336	37.9	13.2
8	4874.00	38.8 AV	54.0	-15.2	3.33 V	336	25.6	13.2

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

CHANNEL	TX Channel 9	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	58.0 PK	74.0	-16.0	2.10 H	348	24.2	33.8
2	2390.00	46.6 AV	54.0	-7.4	2.10 H	348	12.8	33.8
3	*2452.00	104.8 PK			1.21 H	349	71.0	33.8
4	*2452.00	92.0 AV			1.21 H	349	58.2	33.8
5	2483.50	72.3 PK	74.0	-1.7	1.39 H	344	38.4	33.9
6	2483.50	49.1 AV	54.0	-4.9	1.39 H	344	15.2	33.9
7	4904.00	50.9 PK	74.0	-23.1	3.33 H	318	37.5	13.4
8	4904.00	38.6 AV	54.0	-15.4	3.33 H	318	25.2	13.4
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	58.3 PK	74.0	-15.7	1.33 V	12	24.5	33.8
2	2390.00	47.2 AV	54.0	-6.8	1.33 V	12	13.4	33.8
3	*2452.00	106.1 PK			1.99 V	355	72.3	33.8
4	*2452.00	93.3 AV			1.99 V	355	59.5	33.8
5	2483.50	73.5 PK	74.0	-0.5	1.39 V	20	39.6	33.9
6	2483.50	50.6 AV	54.0	-3.4	1.39 V	20	16.7	33.9
7	4904.00	51.3 PK	74.0	-22.7	2.14 V	125	37.9	13.4
8	4904.00	38.7 AV	54.0	-15.3	2.14 V	125	25.3	13.4

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

2TX

802.11b

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	58.6 PK	74.0	-15.4	1.02 H	353	24.8	33.8
2	2390.00	47.3 AV	54.0	-6.7	1.02 H	353	13.5	33.8
3	*2412.00	114.0 PK			2.00 H	353	80.2	33.8
4	*2412.00	110.9 AV			2.00 H	353	77.1	33.8
5	4824.00	51.7 PK	74.0	-22.3	1.59 H	163	38.5	13.2
6	4824.00	38.5 AV	54.0	-15.5	1.59 H	163	25.3	13.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	58.9 PK	74.0	-15.1	2.34 V	20	25.1	33.8
2	2390.00	49.3 AV	54.0	-4.7	2.34 V	20	15.5	33.8
3	*2412.00	116.0 PK			2.34 V	6	82.2	33.8
4	*2412.00	112.9 AV			2.34 V	6	79.1	33.8
5	4824.00	52.4 PK	74.0	-21.6	2.55 V	233	39.2	13.2
6	4824.00	39.0 AV	54.0	-15.0	2.55 V	233	25.8	13.2

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

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	112.4 PK			1.26 H	350	78.6	33.8
2	*2437.00	109.1 AV			1.26 H	350	75.3	33.8
3	4874.00	51.0 PK	74.0	-23.0	2.15 H	211	37.8	13.2
4	4874.00	38.5 AV	54.0	-15.5	2.15 H	211	25.3	13.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	114.5 PK			1.01 V	12	80.7	33.8
2	*2437.00	111.2 AV			1.01 V	12	77.4	33.8
3	4874.00	51.4 PK	74.0	-22.6	1.69 V	81	38.2	13.2
4	4874.00	38.8 AV	54.0	-15.2	1.69 V	81	25.6	13.2

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

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	112.4 PK			1.80 H	356	78.5	33.9
2	*2462.00	108.9 AV			1.80 H	356	75.0	33.9
3	2483.50	59.7 PK	74.0	-14.3	1.75 H	352	25.8	33.9
4	2483.50	47.8 AV	54.0	-6.2	1.75 H	352	13.9	33.9
5	4924.00	51.9 PK	74.0	-22.1	2.99 H	285	38.6	13.3
6	4924.00	38.4 AV	54.0	-15.6	2.99 H	285	25.1	13.3
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	114.5 PK			1.00 V	14	80.6	33.9
2	*2462.00	111.1 AV			1.00 V	14	77.2	33.9
3	2483.50	60.3 PK	74.0	-13.7	1.00 V	359	26.4	33.9
4	2483.50	48.6 AV	54.0	-5.4	1.00 V	359	14.7	33.9
5	4924.00	52.0 PK	74.0	-22.0	2.55 V	285	38.7	13.3
6	4924.00	38.6 AV	54.0	-15.4	2.55 V	285	25.3	13.3

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

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CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	71.9 PK	74.0	-2.1	1.59 H	10	38.1	33.8
2	2390.00	50.7 AV	54.0	-3.3	1.59 H	10	16.9	33.8
3	*2412.00	110.4 PK			1.88 H	351	76.6	33.8
4	*2412.00	100.8 AV			1.88 H	351	67.0	33.8
5	4824.00	51.3 PK	74.0	-22.7	3.06 H	339	38.1	13.2
6	4824.00	38.3 AV	54.0	-15.7	3.06 H	339	25.1	13.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	73.0 PK	74.0	-1.0	1.88 V	19	39.2	33.8
2	2390.00	51.6 AV	54.0	-2.4	1.88 V	19	17.8	33.8
3	*2412.00	111.4 PK			2.01 V	2	77.6	33.8
4	*2412.00	101.8 AV			2.01 V	2	68.0	33.8
5	4824.00	51.7 PK	74.0	-22.3	1.56 V	122	38.5	13.2
6	4824.00	38.4 AV	54.0	-15.6	1.56 V	122	25.2	13.2

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

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	114.5 PK			1.00 H	356	80.7	33.8
2	*2437.00	105.0 AV			1.00 H	356	71.2	33.8
3	2483.50	72.2 PK	74.0	-1.8	1.09 H	352	38.3	33.9
4	2483.50	51.0 AV	54.0	-3.0	1.09 H	352	17.1	33.9
5	4874.00	50.7 PK	74.0	-23.3	3.00 H	315	37.5	13.2
6	4874.00	37.6 AV	54.0	-16.4	3.00 H	315	24.4	13.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	115.5 PK			1.02 V	8	81.7	33.8
2	*2437.00	106.0 AV			1.02 V	8	72.2	33.8
3	2483.50	73.4 PK	74.0	-0.6	1.09 V	15	39.5	33.9
4	2483.50	51.8 AV	54.0	-2.2	1.09 V	15	17.9	33.9
5	4874.00	50.9 PK	74.0	-23.1	2.22 V	222	37.7	13.2
6	4874.00	37.8 AV	54.0	-16.2	2.22 V	222	24.6	13.2

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

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	110.0 PK			1.55 H	355	76.1	33.9
2	*2462.00	100.2 AV			1.55 H	355	66.3	33.9
3	2483.50	71.9 PK	74.0	-2.1	1.79 H	357	38.0	33.9
4	2483.50	47.6 AV	54.0	-6.4	1.79 H	357	13.7	33.9
5	4924.00	51.3 PK	74.0	-22.7	3.15 H	319	38.0	13.3
6	4924.00	38.8 AV	54.0	-15.2	3.15 H	319	25.5	13.3
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	111.0 PK			1.50 V	2	77.1	33.9
2	*2462.00	101.2 AV			1.50 V	2	67.3	33.9
3	2483.50	73.3 PK	74.0	-0.7	1.55 V	10	39.4	33.9
4	2483.50	48.4 AV	54.0	-5.6	1.55 V	10	14.5	33.9
5	4924.00	51.4 PK	74.0	-22.6	2.39 V	231	38.1	13.3
6	4924.00	38.9 AV	54.0	-15.1	2.39 V	231	25.6	13.3

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

802.11ax (HE20)

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	72.7 PK	74.0	-1.3	1.20 H	352	38.9	33.8
2	2390.00	50.6 AV	54.0	-3.4	1.20 H	352	16.8	33.8
3	*2412.00	111.8 PK			1.58 H	353	78.0	33.8
4	*2412.00	99.2 AV			1.58 H	353	65.4	33.8
5	4824.00	51.1 PK	74.0	-22.9	2.09 H	232	37.9	13.2
6	4824.00	38.1 AV	54.0	-15.9	2.09 H	232	24.9	13.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	73.5 PK	74.0	-0.5	1.18 V	26	39.7	33.8
2	2390.00	51.7 AV	54.0	-2.3	1.18 V	26	17.9	33.8
3	*2412.00	112.8 PK			1.18 V	17	79.0	33.8
4	*2412.00	100.2 AV			1.18 V	17	66.4	33.8
5	4824.00	51.6 PK	74.0	-22.4	2.59 V	285	38.4	13.2
6	4824.00	38.3 AV	54.0	-15.7	2.59 V	285	25.1	13.2

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

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	115.6 PK			1.38 H	353	81.8	33.8
2	*2437.00	103.4 AV			1.38 H	353	69.6	33.8
3	2483.50	72.3 PK	74.0	-1.7	1.80 H	356	38.4	33.9
4	2483.50	51.7 AV	54.0	-2.3	1.80 H	356	17.8	33.9
5	4874.00	51.3 PK	74.0	-22.7	3.15 H	310	38.1	13.2
6	4874.00	38.5 AV	54.0	-15.5	3.15 H	310	25.3	13.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	116.6 PK			1.37 V	9	82.8	33.8
2	*2437.00	104.5 AV			1.37 V	9	70.7	33.8
3	2483.50	73.3 PK	74.0	-0.7	1.35 V	10	39.4	33.9
4	2483.50	52.2 AV	54.0	-1.8	1.35 V	10	18.3	33.9
5	4874.00	51.6 PK	74.0	-22.4	2.32 V	252	38.4	13.2
6	4874.00	38.8 AV	54.0	-15.2	2.32 V	252	25.6	13.2

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

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	110.4 PK			1.84 H	353	76.5	33.9
2	*2462.00	97.3 AV			1.84 H	353	63.4	33.9
3	2483.50	72.6 PK	74.0	-1.4	1.78 H	351	38.7	33.9
4	2483.50	47.4 AV	54.0	-6.6	1.78 H	351	13.5	33.9
5	4924.00	51.2 PK	74.0	-22.8	2.63 H	269	37.9	13.3
6	4924.00	38.4 AV	54.0	-15.6	2.63 H	269	25.1	13.3
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	111.4 PK			1.49 V	10	77.5	33.9
2	*2462.00	98.3 AV			1.49 V	10	64.4	33.9
3	2483.50	73.3 PK	74.0	-0.7	2.52 V	12	39.4	33.9
4	2483.50	47.7 AV	54.0	-6.3	2.52 V	12	13.8	33.9
5	4924.00	51.5 PK	74.0	-22.5	2.52 V	142	38.2	13.3
6	4924.00	38.9 AV	54.0	-15.1	2.52 V	142	25.6	13.3

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

802.11ax (HE40)

CHANNEL	TX Channel 3	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	70.8 PK	74.0	-3.2	1.36 H	351	37.0	33.8
2	2390.00	51.9 AV	54.0	-2.1	1.36 H	351	18.1	33.8
3	*2422.00	108.2 PK			1.89 H	352	74.4	33.8
4	*2422.00	96.0 AV			1.89 H	352	62.2	33.8
5	2483.50	58.4 PK	74.0	-15.6	1.81 H	356	24.5	33.9
6	2483.50	46.4 AV	54.0	-7.6	1.81 H	356	12.5	33.9
7	4844.00	51.0 PK	74.0	-23.0	2.99 H	233	37.8	13.2
8	4844.00	39.0 AV	54.0	-15.0	2.99 H	233	25.8	13.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	72.2 PK	74.0	-1.8	1.20 V	4	38.4	33.8
2	2390.00	53.4 AV	54.0	-0.6	1.20 V	4	19.6	33.8
3	*2422.00	109.2 PK			1.20 V	4	75.4	33.8
4	*2422.00	97.0 AV			1.20 V	4	63.2	33.8
5	2483.50	58.8 PK	74.0	-15.2	1.35 V	4	24.9	33.9
6	2483.50	46.6 AV	54.0	-7.4	1.35 V	4	12.7	33.9
7	4844.00	51.3 PK	74.0	-22.7	3.09 V	311	38.1	13.2
8	4844.00	39.1 AV	54.0	-14.9	3.09 V	311	25.9	13.2

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

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	70.0 PK	74.0	-4.0	1.59 H	1	36.2	33.8
2	2390.00	51.1 AV	54.0	-2.9	1.59 H	1	17.3	33.8
3	*2437.00	109.7 PK			1.80 H	352	75.9	33.8
4	*2437.00	97.9 AV			1.80 H	352	64.1	33.8
5	2483.50	70.1 PK	74.0	-3.9	1.99 H	357	36.2	33.9
6	2483.50	52.1 AV	54.0	-1.9	1.99 H	357	18.2	33.9
7	4874.00	50.5 PK	74.0	-23.5	3.06 H	311	37.3	13.2
8	4874.00	38.5 AV	54.0	-15.5	3.06 H	311	25.3	13.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	71.0 PK	74.0	-3.0	1.33 V	19	37.2	33.8
2	2390.00	51.9 AV	54.0	-2.1	1.33 V	19	18.1	33.8
3	*2437.00	110.7 PK			1.39 V	4	76.9	33.8
4	*2437.00	98.9 AV			1.39 V	4	65.1	33.8
5	2483.50	71.3 PK	74.0	-2.7	1.33 V	10	37.4	33.9
6	2483.50	53.3 AV	54.0	-0.7	1.33 V	10	19.4	33.9
7	4874.00	51.0 PK	74.0	-23.0	2.00 V	211	37.8	13.2
8	4874.00	38.8 AV	54.0	-15.2	2.00 V	211	25.6	13.2

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

CHANNEL	TX Channel 9	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	57.3 PK	74.0	-16.7	1.90 H	355	23.5	33.8
2	2390.00	46.6 AV	54.0	-7.4	1.90 H	355	12.8	33.8
3	*2452.00	108.6 PK			1.84 H	356	74.8	33.8
4	*2452.00	96.6 AV			1.84 H	356	62.8	33.8
5	2483.50	72.1 PK	74.0	-1.9	1.88 H	1	38.2	33.9
6	2483.50	50.6 AV	54.0	-3.4	1.88 H	1	16.7	33.9
7	4904.00	50.9 PK	74.0	-23.1	2.33 H	105	37.5	13.4
8	4904.00	38.7 AV	54.0	-15.3	2.33 H	105	25.3	13.4
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	58.4 PK	74.0	-15.6	2.00 V	29	24.6	33.8
2	2390.00	46.9 AV	54.0	-7.1	2.00 V	29	13.1	33.8
3	*2452.00	109.3 PK			1.96 V	20	75.5	33.8
4	*2452.00	97.5 AV			1.96 V	20	63.7	33.8
5	2483.50	73.1 PK	74.0	-0.9	1.98 V	30	39.2	33.9
6	2483.50	51.1 AV	54.0	-2.9	1.98 V	30	17.2	33.9
7	4904.00	51.2 PK	74.0	-22.8	2.10 V	212	37.8	13.4
8	4904.00	38.9 AV	54.0	-15.1	2.10 V	212	25.5	13.4

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

Test Mode K (External antenna – PN: ATS-OP-245-810-4RPSP-36 + Eth8 Radio)

1TX

802.11b

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	57.2 PK	74.0	-16.8	2.22 H	355	23.4	33.8
2	2390.00	46.3 AV	54.0	-7.7	2.22 H	355	12.5	33.8
3	*2412.00	109.8 PK			1.59 H	351	76.0	33.8
4	*2412.00	106.1 AV			1.59 H	351	72.3	33.8
5	4824.00	50.7 PK	74.0	-23.3	1.09 H	229	37.5	13.2
6	4824.00	39.1 AV	54.0	-14.9	1.09 H	229	25.9	13.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	57.4 PK	74.0	-16.6	2.00 V	19	23.6	33.8
2	2390.00	46.8 AV	54.0	-7.2	2.00 V	19	13.0	33.8
3	*2412.00	110.9 PK			1.89 V	14	77.1	33.8
4	*2412.00	107.2 AV			1.89 V	14	73.4	33.8
5	4824.00	51.0 PK	74.0	-23.0	2.62 V	239	37.8	13.2
6	4824.00	39.5 AV	54.0	-14.5	2.62 V	239	26.3	13.2

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

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	110.1 PK			1.89 H	352	76.3	33.8
2	*2437.00	106.6 AV			1.89 H	352	72.8	33.8
3	4874.00	50.4 PK	74.0	-23.6	2.22 H	230	37.2	13.2
4	4874.00	38.5 AV	54.0	-15.5	2.22 H	230	25.3	13.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	111.1 PK			2.06 V	14	77.3	33.8
2	*2437.00	107.6 AV			2.06 V	14	73.8	33.8
3	4874.00	50.7 PK	74.0	-23.3	1.56 V	158	37.5	13.2
4	4874.00	39.0 AV	54.0	-15.0	1.56 V	158	25.8	13.2

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

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	110.0 PK			1.59 H	356	76.1	33.9
2	*2462.00	106.4 AV			1.59 H	356	72.5	33.9
3	2483.50	58.8 PK	74.0	-15.2	2.00 H	359	24.9	33.9
4	2483.50	46.2 AV	54.0	-7.8	2.00 H	359	12.3	33.9
5	4924.00	51.1 PK	74.0	-22.9	2.33 H	299	37.8	13.3
6	4924.00	39.5 AV	54.0	-14.5	2.33 H	299	26.2	13.3
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	111.1 PK			2.56 V	28	77.2	33.9
2	*2462.00	107.5 AV			2.56 V	28	73.6	33.9
3	2483.50	59.1 PK	74.0	-14.9	2.55 V	36	25.2	33.9
4	2483.50	46.8 AV	54.0	-7.2	2.55 V	36	12.9	33.9
5	4924.00	51.5 PK	74.0	-22.5	2.52 V	241	38.2	13.3
6	4924.00	39.9 AV	54.0	-14.1	2.52 V	241	26.6	13.3

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

802.11g

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	72.6 PK	74.0	-1.4	2.87 H	353	38.8	33.8
2	2390.00	49.1 AV	54.0	-4.9	2.87 H	353	15.3	33.8
3	*2412.00	106.5 PK			1.88 H	35	72.7	33.8
4	*2412.00	96.7 AV			1.88 H	35	62.9	33.8
5	4824.00	50.9 PK	74.0	-23.1	3.00 H	306	37.7	13.2
6	4824.00	38.2 AV	54.0	-15.8	3.00 H	306	25.0	13.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	73.1 PK	74.0	-0.9	2.55 V	28	39.3	33.8
2	2390.00	50.0 AV	54.0	-4.0	2.55 V	28	16.2	33.8
3	*2412.00	107.6 PK			2.56 V	31	73.8	33.8
4	*2412.00	97.8 AV			2.56 V	31	64.0	33.8
5	4824.00	51.0 PK	74.0	-23.0	2.33 V	333	37.8	13.2
6	4824.00	38.4 AV	54.0	-15.6	2.33 V	333	25.2	13.2

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

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	110.2 PK			1.59 H	356	76.4	33.8
2	*2437.00	100.3 AV			1.59 H	356	66.5	33.8
3	4874.00	51.0 PK	74.0	-23.0	1.59 H	221	37.8	13.2
4	4874.00	38.2 AV	54.0	-15.8	1.59 H	221	25.0	13.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	110.2 PK			2.56 V	17	76.4	33.8
2	*2437.00	100.3 AV			2.56 V	17	66.5	33.8
3	4874.00	51.4 PK	74.0	-22.6	2.51 V	342	38.2	13.2
4	4874.00	38.4 AV	54.0	-15.6	2.51 V	342	25.2	13.2

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

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	106.9 PK			1.02 H	354	73.0	33.9
2	*2462.00	97.1 AV			1.02 H	354	63.2	33.9
3	2483.50	72.4 PK	74.0	-1.6	2.00 H	359	38.5	33.9
4	2483.50	49.0 AV	54.0	-5.0	2.00 H	359	15.1	33.9
5	4924.00	51.0 PK	74.0	-23.0	2.63 H	288	37.7	13.3
6	4924.00	38.9 AV	54.0	-15.1	2.63 H	288	25.6	13.3
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	108.0 PK			1.39 V	22	74.1	33.9
2	*2462.00	98.2 AV			1.39 V	22	64.3	33.9
3	2483.50	73.5 PK	74.0	-0.5	1.35 V	13	39.6	33.9
4	2483.50	49.9 AV	54.0	-4.1	1.35 V	13	16.0	33.9
5	4924.00	51.4 PK	74.0	-22.6	2.00 V	22	38.1	13.3
6	4924.00	39.1 AV	54.0	-14.9	2.00 V	22	25.8	13.3

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

802.11ax (HE20)

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	69.7 PK	74.0	-4.3	1.36 H	10	35.9	33.8
2	2390.00	52.0 AV	54.0	-2.0	1.36 H	10	18.2	33.8
3	*2412.00	108.9 PK			1.50 H	326	75.1	33.8
4	*2412.00	95.8 AV			1.50 H	326	62.0	33.8
5	4824.00	51.0 PK	74.0	-23.0	2.66 H	211	37.8	13.2
6	4824.00	39.0 AV	54.0	-15.0	2.66 H	211	25.8	13.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	71.4 PK	74.0	-2.6	1.25 V	40	37.6	33.8
2	2390.00	53.3 AV	54.0	-0.7	1.25 V	40	19.5	33.8
3	*2412.00	110.1 PK			1.10 V	10	76.3	33.8
4	*2412.00	97.0 AV			1.10 V	10	63.2	33.8
5	4824.00	51.3 PK	74.0	-22.7	3.29 V	325	38.1	13.2
6	4824.00	39.2 AV	54.0	-14.8	3.29 V	325	26.0	13.2

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

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	112.6 PK			1.32 H	356	78.8	33.8
2	*2437.00	99.7 AV			1.32 H	356	65.9	33.8
3	4874.00	50.4 PK	74.0	-23.6	2.39 H	263	37.2	13.2
4	4874.00	38.7 AV	54.0	-15.3	2.39 H	263	25.5	13.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	113.3 PK			1.32 V	9	79.5	33.8
2	*2437.00	100.4 AV			1.32 V	9	66.6	33.8
3	4874.00	51.0 PK	74.0	-23.0	3.06 V	325	37.8	13.2
4	4874.00	38.8 AV	54.0	-15.2	3.06 V	325	25.6	13.2

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

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	107.2 PK			2.33 H	351	73.3	33.9
2	*2462.00	95.0 AV			2.33 H	351	61.1	33.9
3	2483.50	72.4 PK	74.0	-1.6	2.88 H	355	38.5	33.9
4	2483.50	46.9 AV	54.0	-7.1	2.88 H	355	13.0	33.9
5	4924.00	50.6 PK	74.0	-23.4	2.63 H	200	37.3	13.3
6	4924.00	38.9 AV	54.0	-15.1	2.63 H	200	25.6	13.3
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	108.2 PK			2.27 V	18	74.3	33.9
2	*2462.00	96.0 AV			2.27 V	18	62.1	33.9
3	2483.50	73.4 PK	74.0	-0.6	2.27 V	18	39.5	33.9
4	2483.50	47.5 AV	54.0	-6.5	2.27 V	18	13.6	33.9
5	4924.00	51.1 PK	74.0	-22.9	1.58 V	211	37.8	13.3
6	4924.00	39.1 AV	54.0	-14.9	1.58 V	211	25.8	13.3

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

802.11ax (HE40)

CHANNEL	TX Channel 3	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	68.7 PK	74.0	-5.3	1.53 H	355	34.9	33.8
2	2390.00	52.2 AV	54.0	-1.8	1.53 H	355	18.4	33.8
3	*2422.00	104.3 PK			2.59 H	351	70.5	33.8
4	*2422.00	91.8 AV			2.59 H	351	58.0	33.8
5	2483.50	58.4 PK	74.0	-15.6	2.31 H	354	24.5	33.9
6	2483.50	46.0 AV	54.0	-8.0	2.31 H	354	12.1	33.9
7	4844.00	50.5 PK	74.0	-23.5	3.00 H	321	37.3	13.2
8	4844.00	38.6 AV	54.0	-15.4	3.00 H	321	25.4	13.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	70.7 PK	74.0	-3.3	2.51 V	5	36.9	33.8
2	2390.00	53.1 AV	54.0	-0.9	2.51 V	5	19.3	33.8
3	*2422.00	105.3 PK			2.56 V	13	71.5	33.8
4	*2422.00	92.8 AV			2.56 V	13	59.0	33.8
5	2483.50	58.8 PK	74.0	-15.2	2.55 V	358	24.9	33.9
6	2483.50	46.4 AV	54.0	-7.6	2.55 V	358	12.5	33.9
7	4844.00	50.9 PK	74.0	-23.1	2.66 V	329	37.7	13.2
8	4844.00	38.8 AV	54.0	-15.2	2.66 V	329	25.6	13.2

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

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	68.7 PK	74.0	-5.3	2.40 H	349	34.9	33.8
2	2390.00	51.9 AV	54.0	-2.1	2.40 H	349	18.1	33.8
3	*2437.00	106.9 PK			1.55 H	350	73.1	33.8
4	*2437.00	94.5 AV			1.55 H	350	60.7	33.8
5	2483.50	67.4 PK	74.0	-6.6	1.33 H	359	33.5	33.9
6	2483.50	51.9 AV	54.0	-2.1	1.33 H	359	18.0	33.9
7	4874.00	50.1 PK	74.0	-23.9	2.69 H	233	36.9	13.2
8	4874.00	38.7 AV	54.0	-15.3	2.69 H	233	25.5	13.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	70.1 PK	74.0	-3.9	1.33 V	29	36.3	33.8
2	2390.00	53.3 AV	54.0	-0.7	1.33 V	29	19.5	33.8
3	*2437.00	107.9 PK			1.35 V	19	74.1	33.8
4	*2437.00	95.5 AV			1.35 V	19	61.7	33.8
5	2483.50	68.6 PK	74.0	-5.4	1.33 V	10	34.7	33.9
6	2483.50	52.7 AV	54.0	-1.3	1.33 V	10	18.8	33.9
7	4874.00	51.0 PK	74.0	-23.0	2.63 V	263	37.8	13.2
8	4874.00	39.1 AV	54.0	-14.9	2.63 V	263	25.9	13.2

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

CHANNEL	TX Channel 9	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	59.1 PK	74.0	-14.9	1.40 H	358	25.3	33.8
2	2390.00	46.3 AV	54.0	-7.7	1.40 H	358	12.5	33.8
3	*2452.00	106.0 PK			2.55 H	4	72.2	33.8
4	*2452.00	92.9 AV			2.55 H	4	59.1	33.8
5	2483.50	71.0 PK	74.0	-3.0	2.31 H	356	37.1	33.9
6	2483.50	52.0 AV	54.0	-2.0	2.31 H	356	18.1	33.9
7	4904.00	50.5 PK	74.0	-23.5	3.56 H	300	37.1	13.4
8	4904.00	38.7 AV	54.0	-15.3	3.56 H	300	25.3	13.4
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	59.6 PK	74.0	-14.4	1.39 V	10	25.8	33.8
2	2390.00	47.2 AV	54.0	-6.8	1.39 V	10	13.4	33.8
3	*2452.00	107.0 PK			1.39 V	10	73.2	33.8
4	*2452.00	93.9 AV			1.39 V	10	60.1	33.8
5	2483.50	72.5 PK	74.0	-1.5	1.33 V	12	38.6	33.9
6	2483.50	53.4 AV	54.0	-0.6	1.33 V	12	19.5	33.9
7	4904.00	50.9 PK	74.0	-23.1	3.33 V	336	37.5	13.4
8	4904.00	39.0 AV	54.0	-15.0	3.33 V	336	25.6	13.4

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

2TX

802.11b

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	59.3 PK	74.0	-14.7	1.05 H	345	25.5	33.8
2	2390.00	47.3 AV	54.0	-6.7	1.05 H	345	13.5	33.8
3	*2412.00	115.2 PK			1.56 H	353	81.4	33.8
4	*2412.00	111.5 AV			1.56 H	353	77.7	33.8
5	4824.00	51.4 PK	74.0	-22.6	2.17 H	142	38.2	13.2
6	4824.00	39.0 AV	54.0	-15.0	2.17 H	142	25.8	13.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	59.6 PK	74.0	-14.4	1.90 V	13	25.8	33.8
2	2390.00	48.7 AV	54.0	-5.3	1.90 V	13	14.9	33.8
3	*2412.00	116.4 PK			1.90 V	13	82.6	33.8
4	*2412.00	112.7 AV			1.90 V	13	78.9	33.8
5	4824.00	51.7 PK	74.0	-22.3	2.15 V	222	38.5	13.2
6	4824.00	39.3 AV	54.0	-14.7	2.15 V	222	26.1	13.2

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

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	114.9 PK			1.40 H	359	81.1	33.8
2	*2437.00	111.9 AV			1.40 H	359	78.1	33.8
3	4874.00	51.0 PK	74.0	-23.0	2.96 H	233	37.8	13.2
4	4874.00	39.1 AV	54.0	-14.9	2.96 H	233	25.9	13.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	116.1 PK			2.10 V	9	82.3	33.8
2	*2437.00	113.0 AV			2.10 V	9	79.2	33.8
3	4874.00	51.3 PK	74.0	-22.7	2.11 V	252	38.1	13.2
4	4874.00	39.5 AV	54.0	-14.5	2.11 V	252	26.3	13.2

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

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	115.4 PK			1.56 H	355	81.5	33.9
2	*2462.00	111.9 AV			1.56 H	355	78.0	33.9
3	2483.50	59.7 PK	74.0	-14.3	2.52 H	356	25.8	33.9
4	2483.50	47.8 AV	54.0	-6.2	2.52 H	356	13.9	33.9
5	4924.00	51.1 PK	74.0	-22.9	3.09 H	319	37.8	13.3
6	4924.00	39.0 AV	54.0	-15.0	3.09 H	319	25.7	13.3
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	116.5 PK			2.51 V	15	82.6	33.9
2	*2462.00	113.0 AV			2.51 V	15	79.1	33.9
3	2483.50	60.0 PK	74.0	-14.0	2.51 V	15	26.1	33.9
4	2483.50	48.1 AV	54.0	-5.9	2.51 V	15	14.2	33.9
5	4924.00	51.5 PK	74.0	-22.5	2.08 V	211	38.2	13.3
6	4924.00	39.4 AV	54.0	-14.6	2.08 V	211	26.1	13.3

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

802.11g

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	72.1 PK	74.0	-1.9	2.18 H	355	38.3	33.8
2	2390.00	51.4 AV	54.0	-2.6	2.18 H	355	17.6	33.8
3	*2412.00	111.8 PK			1.34 H	356	78.0	33.8
4	*2412.00	102.6 AV			1.34 H	356	68.8	33.8
5	4824.00	51.2 PK	74.0	-22.8	2.96 H	233	38.0	13.2
6	4824.00	38.9 AV	54.0	-15.1	2.96 H	233	25.7	13.2

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	73.1 PK	74.0	-0.9	1.88 V	15	39.3	33.8
2	2390.00	52.4 AV	54.0	-1.6	1.88 V	15	18.6	33.8
3	*2412.00	112.8 PK			1.88 V	15	79.0	33.8
4	*2412.00	103.6 AV			1.88 V	15	69.8	33.8
5	4824.00	51.3 PK	74.0	-22.7	2.99 V	285	38.1	13.2
6	4824.00	39.2 AV	54.0	-14.8	2.99 V	285	26.0	13.2

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

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	114.9 PK			1.44 H	359	81.1	33.8
2	*2437.00	105.6 AV			1.44 H	359	71.8	33.8
3	4874.00	50.7 PK	74.0	-23.3	2.88 H	255	37.5	13.2
4	4874.00	38.9 AV	54.0	-15.1	2.88 H	255	25.7	13.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	115.9 PK			2.05 V	356	82.1	33.8
2	*2437.00	106.6 AV			2.05 V	356	72.8	33.8
3	4874.00	51.0 PK	74.0	-23.0	2.11 V	152	37.8	13.2
4	4874.00	39.1 AV	54.0	-14.9	2.11 V	152	25.9	13.2

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

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	110.5 PK			1.30 H	351	76.6	33.9
2	*2462.00	101.1 AV			1.30 H	351	67.2	33.9
3	2483.50	72.6 PK	74.0	-1.4	1.39 H	353	38.7	33.9
4	2483.50	49.7 AV	54.0	-4.3	1.39 H	353	15.8	33.9
5	4924.00	50.5 PK	74.0	-23.5	2.12 H	159	37.2	13.3
6	4924.00	38.5 AV	54.0	-15.5	2.12 H	159	25.2	13.3
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	111.5 PK			2.21 V	4	77.6	33.9
2	*2462.00	102.1 AV			2.21 V	4	68.2	33.9
3	2483.50	73.3 PK	74.0	-0.7	2.29 V	16	39.4	33.9
4	2483.50	50.3 AV	54.0	-3.7	2.29 V	16	16.4	33.9
5	4924.00	51.1 PK	74.0	-22.9	3.09 V	311	37.8	13.3
6	4924.00	39.1 AV	54.0	-14.9	3.09 V	311	25.8	13.3

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

802.11n (HT20)

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	72.3 PK	74.0	-1.7	1.40 H	350	38.5	33.8
2	2390.00	51.4 AV	54.0	-2.6	1.40 H	350	17.6	33.8
3	*2412.00	111.5 PK			1.34 H	351	77.7	33.8
4	*2412.00	99.9 AV			1.34 H	351	66.1	33.8
5	4824.00	50.2 PK	74.0	-23.8	1.25 H	210	37.0	13.2
6	4824.00	39.0 AV	54.0	-15.0	1.25 H	210	25.8	13.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	73.2 PK	74.0	-0.8	1.73 V	4	39.4	33.8
2	2390.00	51.9 AV	54.0	-2.1	1.73 V	4	18.1	33.8
3	*2412.00	112.5 PK			1.77 V	15	78.7	33.8
4	*2412.00	100.9 AV			1.77 V	15	67.1	33.8
5	4824.00	50.4 PK	74.0	-23.6	2.00 V	141	37.2	13.2
6	4824.00	39.3 AV	54.0	-14.7	2.00 V	141	26.1	13.2

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

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	115.3 PK			1.39 H	359	81.5	33.8
2	*2437.00	104.9 AV			1.39 H	359	71.1	33.8
3	4874.00	50.2 PK	74.0	-23.8	3.09 H	322	37.0	13.2
4	4874.00	38.5 AV	54.0	-15.5	3.09 H	322	25.3	13.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	116.3 PK			2.14 V	18	82.5	33.8
2	*2437.00	105.9 AV			2.14 V	18	72.1	33.8
3	4874.00	50.4 PK	74.0	-23.6	2.12 V	333	37.2	13.2
4	4874.00	39.0 AV	54.0	-15.0	2.12 V	333	25.8	13.2

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

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	111.3 PK			1.39 H	353	77.4	33.9
2	*2462.00	98.7 AV			1.39 H	353	64.8	33.9
3	2483.50	72.0 PK	74.0	-2.0	1.33 H	359	38.1	33.9
4	2483.50	46.8 AV	54.0	-7.2	1.33 H	359	12.9	33.9
5	4924.00	50.8 PK	74.0	-23.2	1.30 H	360	37.5	13.3
6	4924.00	39.3 AV	54.0	-14.7	1.30 H	360	26.0	13.3
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	112.3 PK			1.25 V	10	78.4	33.9
2	*2462.00	99.7 AV			1.25 V	10	65.8	33.9
3	2483.50	73.3 PK	74.0	-0.7	1.52 V	12	39.4	33.9
4	2483.50	47.7 AV	54.0	-6.3	1.52 V	12	13.8	33.9
5	4924.00	51.1 PK	74.0	-22.9	2.14 V	144	37.8	13.3
6	4924.00	39.6 AV	54.0	-14.4	2.14 V	144	26.3	13.3

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

802.11n (HT40)

CHANNEL	TX Channel 3	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	67.6 PK	74.0	-6.4	1.80 H	352	33.8	33.8
2	2390.00	52.0 AV	54.0	-2.0	1.80 H	352	18.2	33.8
3	*2422.00	108.2 PK			1.39 H	352	74.4	33.8
4	*2422.00	97.3 AV			1.39 H	352	63.5	33.8
5	2483.50	57.4 PK	74.0	-16.6	1.39 H	349	23.5	33.9
6	2483.50	45.9 AV	54.0	-8.1	1.39 H	349	12.0	33.9
7	4844.00	51.4 PK	74.0	-22.6	2.08 H	214	38.2	13.2
8	4844.00	38.3 AV	54.0	-15.7	2.08 H	214	25.1	13.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	68.2 PK	74.0	-5.8	1.88 V	21	34.4	33.8
2	2390.00	53.1 AV	54.0	-0.9	1.88 V	21	19.3	33.8
3	*2422.00	109.2 PK			1.87 V	15	75.4	33.8
4	*2422.00	98.3 AV			1.87 V	15	64.5	33.8
5	2483.50	57.5 PK	74.0	-16.5	1.89 V	30	23.6	33.9
6	2483.50	46.1 AV	54.0	-7.9	1.89 V	30	12.2	33.9
7	4844.00	51.8 PK	74.0	-22.2	2.15 V	233	38.6	13.2
8	4844.00	38.5 AV	54.0	-15.5	2.15 V	233	25.3	13.2

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

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	68.4 PK	74.0	-5.6	1.66 H	12	34.6	33.8
2	2390.00	52.8 AV	54.0	-1.2	1.66 H	12	19.0	33.8
3	*2437.00	110.9 PK			1.39 H	10	77.1	33.8
4	*2437.00	98.8 AV			1.39 H	10	65.0	33.8
5	2483.50	68.7 PK	74.0	-5.3	1.29 H	350	34.8	33.9
6	2483.50	52.6 AV	54.0	-1.4	1.29 H	350	18.7	33.9
7	4874.00	51.2 PK	74.0	-22.8	3.26 H	321	38.0	13.2
8	4874.00	38.8 AV	54.0	-15.2	3.26 H	321	25.6	13.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	67.9 PK	74.0	-6.1	1.60 V	6	34.1	33.8
2	2390.00	53.5 AV	54.0	-0.5	1.60 V	6	19.7	33.8
3	*2437.00	111.9 PK			1.66 V	12	78.1	33.8
4	*2437.00	99.8 AV			1.66 V	12	66.0	33.8
5	2483.50	69.4 PK	74.0	-4.6	1.59 V	32	35.5	33.9
6	2483.50	53.2 AV	54.0	-0.8	1.59 V	32	19.3	33.9
7	4874.00	51.5 PK	74.0	-22.5	1.11 V	222	38.3	13.2
8	4874.00	39.1 AV	54.0	-14.9	1.11 V	222	25.9	13.2

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

CHANNEL	TX Channel 9	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	60.2 PK	74.0	-13.8	1.39 H	358	26.4	33.8
2	2390.00	46.8 AV	54.0	-7.2	1.39 H	358	13.0	33.8
3	*2452.00	109.3 PK			1.34 H	356	75.5	33.8
4	*2452.00	97.2 AV			1.34 H	356	63.4	33.8
5	2483.50	72.9 PK	74.0	-1.1	1.39 H	352	39.0	33.9
6	2483.50	51.3 AV	54.0	-2.7	1.39 H	352	17.4	33.9
7	4904.00	50.9 PK	74.0	-23.1	2.09 H	233	37.5	13.4
8	4904.00	38.7 AV	54.0	-15.3	2.09 H	233	25.3	13.4
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	60.7 PK	74.0	-13.3	1.99 V	25	26.9	33.8
2	2390.00	47.0 AV	54.0	-7.0	1.99 V	25	13.2	33.8
3	*2452.00	109.9 PK			1.94 V	17	76.1	33.8
4	*2452.00	98.8 AV			1.94 V	17	65.0	33.8
5	2483.50	73.5 PK	74.0	-0.5	1.99 V	21	39.6	33.9
6	2483.50	51.8 AV	54.0	-2.2	1.99 V	21	17.9	33.9
7	4904.00	51.2 PK	74.0	-22.8	3.09 V	322	37.8	13.4
8	4904.00	39.0 AV	54.0	-15.0	3.09 V	322	25.6	13.4

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

3TX

802.11b

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	59.3 PK	74.0	-14.7	1.15 H	339	25.5	33.8
2	2390.00	49.1 AV	54.0	-4.9	1.15 H	339	15.3	33.8
3	*2412.00	115.1 PK			1.03 H	333	81.3	33.8
4	*2412.00	111.0 AV			1.03 H	333	77.2	33.8
5	4824.00	51.6 PK	74.0	-22.4	2.65 H	115	38.4	13.2
6	4824.00	39.9 AV	54.0	-14.1	2.65 H	115	26.7	13.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	59.6 PK	74.0	-14.4	1.05 V	12	25.8	33.8
2	2390.00	49.4 AV	54.0	-4.6	1.05 V	12	15.6	33.8
3	*2412.00	118.5 PK			1.00 V	4	84.7	33.8
4	*2412.00	115.1 AV			1.00 V	4	81.3	33.8
5	4824.00	51.9 PK	74.0	-22.1	2.15 V	236	38.7	13.2
6	4824.00	40.9 AV	54.0	-13.1	2.15 V	236	27.7	13.2

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

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	116.3 PK			1.18 H	321	82.5	33.8
2	*2437.00	112.7 AV			1.18 H	321	78.9	33.8
3	4874.00	52.0 PK	74.0	-22.0	1.97 H	241	38.8	13.2
4	4874.00	39.7 AV	54.0	-14.3	1.97 H	241	26.5	13.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	117.7 PK			2.19 V	335	83.9	33.8
2	*2437.00	114.1 AV			2.19 V	335	80.3	33.8
3	4874.00	52.4 PK	74.0	-21.6	1.59 V	210	39.2	13.2
4	4874.00	40.5 AV	54.0	-13.5	1.59 V	210	27.3	13.2

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

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	116.8 PK			1.20 H	325	82.9	33.9
2	*2462.00	113.1 AV			1.20 H	325	79.2	33.9
3	2483.50	59.5 PK	74.0	-14.5	1.32 H	314	25.6	33.9
4	2483.50	48.4 AV	54.0	-5.6	1.32 H	314	14.5	33.9
5	4924.00	52.0 PK	74.0	-22.0	2.91 H	175	38.7	13.3
6	4924.00	40.2 AV	54.0	-13.8	2.91 H	175	26.9	13.3
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	118.0 PK			1.72 V	341	84.1	33.9
2	*2462.00	114.5 AV			1.72 V	341	80.6	33.9
3	2483.50	60.3 PK	74.0	-13.7	2.00 V	344	26.4	33.9
4	2483.50	49.2 AV	54.0	-4.8	2.00 V	344	15.3	33.9
5	4924.00	52.6 PK	74.0	-21.4	2.66 V	322	39.3	13.3
6	4924.00	41.3 AV	54.0	-12.7	2.66 V	322	28.0	13.3

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

802.11g

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	72.7 PK	74.0	-1.3	1.09 H	327	38.9	33.8
2	2390.00	51.2 AV	54.0	-2.8	1.09 H	327	17.4	33.8
3	*2412.00	111.4 PK			1.16 H	345	77.6	33.8
4	*2412.00	102.7 AV			1.16 H	345	68.9	33.8
5	4824.00	50.0 PK	74.0	-24.0	1.15 H	214	36.8	13.2
6	4824.00	39.3 AV	54.0	-14.7	1.15 H	214	26.1	13.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	73.1 PK	74.0	-0.9	2.19 V	11	39.3	33.8
2	2390.00	52.0 AV	54.0	-2.0	2.19 V	11	18.2	33.8
3	*2412.00	113.5 PK			2.10 V	19	79.7	33.8
4	*2412.00	104.4 AV			2.10 V	19	70.6	33.8
5	4824.00	50.5 PK	74.0	-23.5	1.09 V	333	37.3	13.2
6	4824.00	39.7 AV	54.0	-14.3	1.09 V	333	26.5	13.2

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

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	116.3 PK			1.10 H	334	82.5	33.8
2	*2437.00	106.9 AV			1.10 H	334	73.1	33.8
3	4874.00	51.2 PK	74.0	-22.8	2.97 H	115	38.0	13.2
4	4874.00	38.6 AV	54.0	-15.4	2.97 H	115	25.4	13.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	118.7 PK			2.36 V	1	84.9	33.8
2	*2437.00	109.3 AV			2.36 V	1	75.5	33.8
3	4874.00	51.5 PK	74.0	-22.5	1.22 V	333	38.3	13.2
4	4874.00	38.5 AV	54.0	-15.5	1.22 V	333	25.3	13.2

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

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	110.6 PK			1.14 H	315	76.7	33.9
2	*2462.00	101.4 AV			1.14 H	315	67.5	33.9
3	2483.50	72.0 PK	74.0	-2.0	1.19 H	326	38.1	33.9
4	2483.50	49.1 AV	54.0	-4.9	1.19 H	326	15.2	33.9
5	4924.00	50.5 PK	74.0	-23.5	1.97 H	248	37.2	13.3
6	4924.00	38.4 AV	54.0	-15.6	1.97 H	248	25.1	13.3
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	113.5 PK			2.49 V	350	79.6	33.9
2	*2462.00	104.1 AV			2.49 V	350	70.2	33.9
3	2483.50	73.1 PK	74.0	-0.9	2.56 V	345	39.2	33.9
4	2483.50	50.7 AV	54.0	-3.3	2.56 V	345	16.8	33.9
5	4924.00	51.1 PK	74.0	-22.9	1.05 V	122	37.8	13.3
6	4924.00	38.6 AV	54.0	-15.4	1.05 V	122	25.3	13.3

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

802.11ax (HE20)

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	72.2 PK	74.0	-1.8	1.30 H	316	38.4	33.8
2	2390.00	51.4 AV	54.0	-2.6	1.30 H	316	17.6	33.8
3	*2412.00	112.4 PK			1.12 H	338	78.6	33.8
4	*2412.00	103.6 AV			1.12 H	338	69.8	33.8
5	4824.00	50.4 PK	74.0	-23.6	1.00 H	214	37.2	13.2
6	4824.00	39.0 AV	54.0	-15.0	1.00 H	214	25.8	13.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	73.1 PK	74.0	-0.9	1.63 V	359	39.3	33.8
2	2390.00	52.3 AV	54.0	-1.7	1.63 V	359	18.5	33.8
3	*2412.00	115.6 PK			1.70 V	1	81.8	33.8
4	*2412.00	103.7 AV			1.70 V	1	69.9	33.8
5	4824.00	50.8 PK	74.0	-23.2	2.11 V	203	37.6	13.2
6	4824.00	39.5 AV	54.0	-14.5	2.11 V	203	26.3	13.2

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

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	115.9 PK			1.28 H	325	82.1	33.8
2	*2437.00	105.1 AV			1.28 H	325	71.3	33.8
3	2483.50	72.0 PK	74.0	-2.0	1.04 H	301	38.1	33.9
4	2483.50	49.6 AV	54.0	-4.4	1.04 H	301	15.7	33.9
5	4874.00	50.9 PK	74.0	-23.1	1.24 H	196	37.7	13.2
6	4874.00	39.1 AV	54.0	-14.9	1.24 H	196	25.9	13.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	118.8 PK			1.77 V	17	85.0	33.8
2	*2437.00	107.6 AV			1.77 V	17	73.8	33.8
3	2483.50	72.9 PK	74.0	-1.1	1.77 V	10	39.0	33.9
4	2483.50	51.7 AV	54.0	-2.3	1.77 V	10	17.8	33.9
5	4874.00	51.4 PK	74.0	-22.6	2.22 V	210	38.2	13.2
6	4874.00	39.5 AV	54.0	-14.5	2.22 V	210	26.3	13.2

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

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	111.8 PK			1.19 H	317	77.9	33.9
2	*2462.00	102.1 AV			1.19 H	317	68.2	33.9
3	2483.50	72.5 PK	74.0	-1.5	1.36 H	318	38.6	33.9
4	2483.50	48.0 AV	54.0	-6.0	1.36 H	318	14.1	33.9
5	4924.00	51.8 PK	74.0	-22.2	1.57 H	182	38.5	13.3
6	4924.00	39.0 AV	54.0	-15.0	1.57 H	182	25.7	13.3
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	114.1 PK			2.14 V	19	80.2	33.9
2	*2462.00	101.4 AV			2.14 V	19	67.5	33.9
3	2483.50	73.3 PK	74.0	-0.7	2.20 V	30	39.4	33.9
4	2483.50	48.5 AV	54.0	-5.5	2.20 V	30	14.6	33.9
5	4924.00	52.1 PK	74.0	-21.9	2.33 V	159	38.8	13.3
6	4924.00	39.3 AV	54.0	-14.7	2.33 V	159	26.0	13.3

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

802.11ax (HE40)

CHANNEL	TX Channel 3	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	67.2 PK	74.0	-6.8	1.20 H	328	33.4	33.8
2	2390.00	52.0 AV	54.0	-2.0	1.20 H	328	18.2	33.8
3	*2422.00	108.6 PK			1.16 H	305	74.8	33.8
4	*2422.00	96.3 AV			1.16 H	305	62.5	33.8
5	4844.00	49.6 PK	74.0	-24.4	2.20 H	141	36.4	13.2
6	4844.00	39.1 AV	54.0	-14.9	2.20 H	141	25.9	13.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	67.4 PK	74.0	-6.6	1.68 V	4	33.6	33.8
2	2390.00	53.5 AV	54.0	-0.5	1.68 V	4	19.7	33.8
3	*2422.00	111.5 PK			1.57 V	25	77.7	33.8
4	*2422.00	99.4 AV			1.57 V	25	65.6	33.8
5	4844.00	50.7 PK	74.0	-23.3	2.97 V	188	37.5	13.2
6	4844.00	39.7 AV	54.0	-14.3	2.97 V	188	26.5	13.2

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

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	68.9 PK	74.0	-5.1	1.36 H	345	35.1	33.8
2	2390.00	52.0 AV	54.0	-2.0	1.36 H	345	18.2	33.8
3	*2437.00	110.3 PK			1.17 H	304	76.5	33.8
4	*2437.00	99.7 AV			1.17 H	304	65.9	33.8
5	2483.50	69.8 PK	74.0	-4.2	1.62 H	299	35.9	33.9
6	2483.50	51.1 AV	54.0	-2.9	1.62 H	299	17.2	33.9
7	4874.00	50.0 PK	74.0	-24.0	3.02 H	142	36.8	13.2
8	4874.00	38.9 AV	54.0	-15.1	3.02 H	142	25.7	13.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	70.3 PK	74.0	-3.7	2.93 V	11	36.5	33.8
2	2390.00	53.6 AV	54.0	-0.4	2.93 V	11	19.8	33.8
3	*2437.00	113.6 PK			2.40 V	6	79.8	33.8
4	*2437.00	102.2 AV			2.40 V	6	68.4	33.8
5	2483.50	71.3 PK	74.0	-2.7	2.93 V	349	37.4	33.9
6	2483.50	53.3 AV	54.0	-0.7	2.93 V	349	19.4	33.9
7	4874.00	50.7 PK	74.0	-23.3	1.92 V	144	37.5	13.2
8	4874.00	39.6 AV	54.0	-14.4	1.92 V	144	26.4	13.2

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

CHANNEL	TX Channel 9	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2452.00	109.0 PK			1.15 H	334	75.2	33.8
2	*2452.00	97.2 AV			1.15 H	334	63.4	33.8
3	2483.50	72.3 PK	74.0	-1.7	1.32 H	319	38.4	33.9
4	2483.50	50.3 AV	54.0	-3.7	1.32 H	319	16.4	33.9
5	4904.00	50.5 PK	74.0	-23.5	2.55 H	197	37.1	13.4
6	4904.00	39.3 AV	54.0	-14.7	2.55 H	197	25.9	13.4
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2452.00	111.9 PK			1.88 V	20	78.1	33.8
2	*2452.00	100.1 AV			1.88 V	20	66.3	33.8
3	2483.50	73.3 PK	74.0	-0.7	2.63 V	24	39.4	33.9
4	2483.50	51.4 AV	54.0	-2.6	2.63 V	24	17.5	33.9
5	4904.00	51.2 PK	74.0	-22.8	1.94 V	122	37.8	13.4
6	4904.00	39.7 AV	54.0	-14.3	1.94 V	122	26.3	13.4

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

4TX

802.11b

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	60.8 PK	74.0	-13.2	1.40 H	5	27.0	33.8
2	2390.00	49.9 AV	54.0	-4.1	1.40 H	5	16.1	33.8
3	*2412.00	117.9 PK			1.49 H	10	84.1	33.8
4	*2412.00	114.3 AV			1.49 H	10	80.5	33.8
5	4824.00	52.2 PK	74.0	-21.8	2.00 H	239	39.0	13.2
6	4824.00	41.2 AV	54.0	-12.8	2.00 H	239	28.0	13.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	61.1 PK	74.0	-12.9	3.11 V	15	27.3	33.8
2	2390.00	50.7 AV	54.0	-3.3	3.11 V	15	16.9	33.8
3	*2412.00	118.9 PK			3.12 V	1	85.1	33.8
4	*2412.00	115.3 AV			3.12 V	1	81.5	33.8
5	4824.00	52.4 PK	74.0	-21.6	2.10 V	265	39.2	13.2
6	4824.00	41.3 AV	54.0	-12.7	2.10 V	265	28.1	13.2

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

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	119.9 PK			1.55 H	3	86.1	33.8
2	*2437.00	116.4 AV			1.55 H	3	82.6	33.8
3	4874.00	51.8 PK	74.0	-22.2	3.59 H	211	38.6	13.2
4	4874.00	40.4 AV	54.0	-13.6	3.59 H	211	27.2	13.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	120.9 PK			1.53 V	22	87.1	33.8
2	*2437.00	117.4 AV			1.53 V	22	83.6	33.8
3	4874.00	51.9 PK	74.0	-22.1	1.59 V	2	38.7	13.2
4	4874.00	40.5 AV	54.0	-13.5	1.59 V	2	27.3	13.2

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

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	119.4 PK			1.59 H	356	85.5	33.9
2	*2462.00	115.9 AV			1.59 H	356	82.0	33.9
3	2483.50	61.7 PK	74.0	-12.3	1.55 H	12	27.8	33.9
4	2483.50	49.9 AV	54.0	-4.1	1.55 H	12	16.0	33.9
5	4924.00	51.4 PK	74.0	-22.6	2.00 H	299	38.1	13.3
6	4924.00	40.1 AV	54.0	-13.9	2.00 H	299	26.8	13.3
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	120.6 PK			1.58 V	7	86.7	33.9
2	*2462.00	117.1 AV			1.58 V	7	83.2	33.9
3	2483.50	62.1 PK	74.0	-11.9	1.24 V	8	28.2	33.9
4	2483.50	50.8 AV	54.0	-3.2	1.24 V	8	16.9	33.9
5	4924.00	51.6 PK	74.0	-22.4	2.01 V	52	38.3	13.3
6	4924.00	40.4 AV	54.0	-13.6	2.01 V	52	27.1	13.3

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

802.11g

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	72.7 PK	74.0	-1.3	1.48 H	5	38.9	33.8
2	2390.00	52.6 AV	54.0	-1.4	1.48 H	5	18.8	33.8
3	*2412.00	111.8 PK			2.00 H	5	78.0	33.8
4	*2412.00	102.7 AV			2.00 H	5	68.9	33.8
5	4824.00	51.0 PK	74.0	-23.0	2.11 H	200	37.8	13.2
6	4824.00	39.0 AV	54.0	-15.0	2.11 H	200	25.8	13.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	73.4 PK	74.0	-0.6	1.49 V	12	39.6	33.8
2	2390.00	53.2 AV	54.0	-0.8	1.49 V	12	19.4	33.8
3	*2412.00	112.8 PK			1.50 V	6	79.0	33.8
4	*2412.00	103.7 AV			1.50 V	6	69.9	33.8
5	4824.00	51.1 PK	74.0	-22.9	2.02 V	211	37.9	13.2
6	4824.00	39.1 AV	54.0	-14.9	2.02 V	211	25.9	13.2

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

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	118.9 PK			1.50 H	20	85.1	33.8
2	*2437.00	109.3 AV			1.50 H	20	75.5	33.8
3	4874.00	51.2 PK	74.0	-22.8	2.22 H	211	38.0	13.2
4	4874.00	40.1 AV	54.0	-13.9	2.22 H	211	26.9	13.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	119.9 PK			1.55 V	6	86.1	33.8
2	*2437.00	110.3 AV			1.55 V	6	76.5	33.8
3	4874.00	51.3 PK	74.0	-22.7	1.20 V	200	38.1	13.2
4	4874.00	40.2 AV	54.0	-13.8	1.20 V	200	27.0	13.2

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

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	113.0 PK			1.40 H	10	79.1	33.9
2	*2462.00	103.9 AV			1.40 H	10	70.0	33.9
3	2483.50	72.4 PK	74.0	-1.6	2.16 H	5	38.5	33.9
4	2483.50	50.8 AV	54.0	-3.2	2.16 H	5	16.9	33.9
5	4924.00	51.1 PK	74.0	-22.9	1.55 H	100	37.8	13.3
6	4924.00	40.2 AV	54.0	-13.8	1.55 H	100	26.9	13.3
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	114.0 PK			2.01 V	15	80.1	33.9
2	*2462.00	104.9 AV			2.01 V	15	71.0	33.9
3	2483.50	73.0 PK	74.0	-1.0	2.09 V	22	39.1	33.9
4	2483.50	51.2 AV	54.0	-2.8	2.09 V	22	17.3	33.9
5	4924.00	51.4 PK	74.0	-22.6	2.00 V	188	38.1	13.3
6	4924.00	40.9 AV	54.0	-13.1	2.00 V	188	27.6	13.3

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

802.11ax (HE20)

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	72.8 PK	74.0	-1.2	1.44 H	3	39.0	33.8
2	2390.00	51.7 AV	54.0	-2.3	1.44 H	3	17.9	33.8
3	*2412.00	115.9 PK			1.48 H	5	82.1	33.8
4	*2412.00	103.9 AV			1.48 H	5	70.1	33.8
5	4824.00	51.3 PK	74.0	-22.7	2.52 H	110	38.1	13.2
6	4824.00	41.2 AV	54.0	-12.8	2.52 H	110	28.0	13.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	73.4 PK	74.0	-0.6	1.66 V	9	39.6	33.8
2	2390.00	52.8 AV	54.0	-1.2	1.66 V	9	19.0	33.8
3	*2412.00	116.8 PK			1.66 V	1	83.0	33.8
4	*2412.00	104.4 AV			1.66 V	1	70.6	33.8
5	4824.00	51.8 PK	74.0	-22.2	2.99 V	252	38.6	13.2
6	4824.00	40.4 AV	54.0	-13.6	2.99 V	252	27.2	13.2

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

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	121.2 PK			1.44 H	10	87.4	33.8
2	*2437.00	108.9 AV			1.44 H	10	75.1	33.8
3	2483.50	72.7 PK	74.0	-1.3	1.48 H	5	38.8	33.9
4	2483.50	50.8 AV	54.0	-3.2	1.48 H	5	16.9	33.9
5	4874.00	51.2 PK	74.0	-22.8	1.47 H	144	38.0	13.2
6	4874.00	40.3 AV	54.0	-13.7	1.47 H	144	27.1	13.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	122.2 PK			2.06 V	359	88.4	33.8
2	*2437.00	109.9 AV			2.06 V	359	76.1	33.8
3	2483.50	73.3 PK	74.0	-0.7	2.00 V	12	39.4	33.9
4	2483.50	51.8 AV	54.0	-2.2	2.00 V	12	17.9	33.9
5	4874.00	51.5 PK	74.0	-22.5	1.55 V	269	38.3	13.2
6	4874.00	40.4 AV	54.0	-13.6	1.55 V	269	27.2	13.2

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

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	113.8 PK			1.04 H	355	79.9	33.9
2	*2462.00	102.1 AV			1.04 H	355	68.2	33.9
3	2483.50	72.8 PK	74.0	-1.2	1.44 H	7	38.9	33.9
4	2483.50	48.9 AV	54.0	-5.1	1.44 H	7	15.0	33.9
5	4924.00	51.4 PK	74.0	-22.6	2.22 H	222	38.1	13.3
6	4924.00	40.4 AV	54.0	-13.6	2.22 H	222	27.1	13.3
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	114.8 PK			1.04 V	4	80.9	33.9
2	*2462.00	103.1 AV			1.04 V	4	69.2	33.9
3	2483.50	73.5 PK	74.0	-0.5	1.09 V	10	39.6	33.9
4	2483.50	49.2 AV	54.0	-4.8	1.09 V	10	15.3	33.9
5	4924.00	51.6 PK	74.0	-22.4	2.08 V	177	38.3	13.3
6	4924.00	40.6 AV	54.0	-13.4	2.08 V	177	27.3	13.3

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

802.11ax (HE40)

CHANNEL	TX Channel 3	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	64.6 PK	74.0	-9.4	2.11 H	300	30.8	33.8
2	2390.00	51.8 AV	54.0	-2.2	2.11 H	300	18.0	33.8
3	*2422.00	110.9 PK			2.16 H	338	77.1	33.8
4	*2422.00	100.1 AV			2.16 H	338	66.3	33.8
5	2483.50	58.2 PK	74.0	-15.8	2.10 H	320	24.3	33.9
6	2483.50	46.6 AV	54.0	-7.4	2.10 H	320	12.7	33.9
7	4844.00	51.7 PK	74.0	-22.3	3.02 H	356	38.5	13.2
8	4844.00	40.3 AV	54.0	-13.7	3.02 H	356	27.1	13.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	64.5 PK	74.0	-9.5	1.77 V	21	30.7	33.8
2	2390.00	53.1 AV	54.0	-0.9	1.77 V	21	19.3	33.8
3	*2422.00	111.9 PK			1.70 V	1	78.1	33.8
4	*2422.00	101.2 AV			1.70 V	1	67.4	33.8
5	2483.50	58.3 PK	74.0	-15.7	1.70 V	7	24.4	33.9
6	2483.50	46.9 AV	54.0	-7.1	1.70 V	7	13.0	33.9
7	4844.00	51.9 PK	74.0	-22.1	2.01 V	299	38.7	13.2
8	4844.00	40.6 AV	54.0	-13.4	2.01 V	299	27.4	13.2

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

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	113.8 PK			2.11 H	335	80.0	33.8
2	*2437.00	102.2 AV			2.11 H	335	68.4	33.8
3	2483.50	68.4 PK	74.0	-5.6	2.19 H	332	34.5	33.9
4	2483.50	52.1 AV	54.0	-1.9	2.19 H	332	18.2	33.9
5	4874.00	51.4 PK	74.0	-22.6	2.33 H	299	38.2	13.2
6	4874.00	40.5 AV	54.0	-13.5	2.33 H	299	27.3	13.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	114.8 PK			1.97 V	13	81.0	33.8
2	*2437.00	103.2 AV			1.97 V	13	69.4	33.8
3	2483.50	69.2 PK	74.0	-4.8	1.99 V	22	35.3	33.9
4	2483.50	53.1 AV	54.0	-0.9	1.99 V	22	19.2	33.9
5	4874.00	51.8 PK	74.0	-22.2	2.00 V	211	38.6	13.2
6	4874.00	41.0 AV	54.0	-13.0	2.00 V	211	27.8	13.2

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

CHANNEL	TX Channel 9	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	59.0 PK	74.0	-15.0	2.22 H	338	25.2	33.8
2	2390.00	46.7 AV	54.0	-7.3	2.22 H	338	12.9	33.8
3	*2452.00	113.2 PK			2.00 H	331	79.4	33.8
4	*2452.00	100.9 AV			2.00 H	331	67.1	33.8
5	2483.50	71.8 PK	74.0	-2.2	2.16 H	339	37.9	33.9
6	2483.50	50.9 AV	54.0	-3.1	2.16 H	339	17.0	33.9
7	4904.00	51.9 PK	74.0	-22.1	2.99 H	333	38.5	13.4
8	4904.00	40.8 AV	54.0	-13.2	2.99 H	333	27.4	13.4
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	59.4 PK	74.0	-14.6	1.11 V	20	25.6	33.8
2	2390.00	47.7 AV	54.0	-6.3	1.11 V	20	13.9	33.8
3	*2452.00	114.2 PK			1.15 V	12	80.4	33.8
4	*2452.00	101.9 AV			1.15 V	12	68.1	33.8
5	2483.50	72.7 PK	74.0	-1.3	1.11 V	3	38.8	33.9
6	2483.50	52.7 AV	54.0	-1.3	1.11 V	3	18.8	33.9
7	4904.00	52.0 PK	74.0	-22.0	2.11 V	170	38.6	13.4
8	4904.00	41.1 AV	54.0	-12.9	2.11 V	170	27.7	13.4

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

Below 1GHz worst-case data:

Test Mode A (Internal antenna + Eth7 Radio) with POE

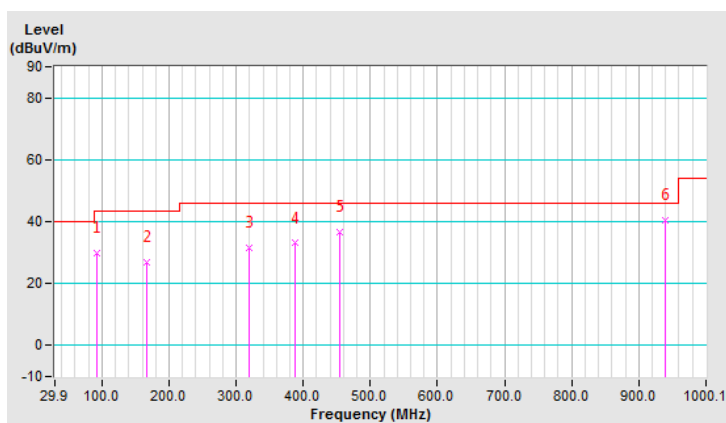
802.11b

CHANNEL	TX Channel 6	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	91.99	30.0 QP	43.5	-13.5	1.50 H	143	44.0	-14.0
2	166.70	26.9 QP	43.5	-16.6	1.00 H	31	35.8	-8.9
3	319.02	31.7 QP	46.0	-14.3	1.00 H	44	38.4	-6.7
4	387.90	33.0 QP	46.0	-13.0	1.00 H	50	38.1	-5.1
5	454.85	36.8 QP	46.0	-9.2	2.00 H	182	40.1	-3.3
6	938.98	40.4 QP	46.0	-5.6	1.50 H	133	32.5	7.9

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

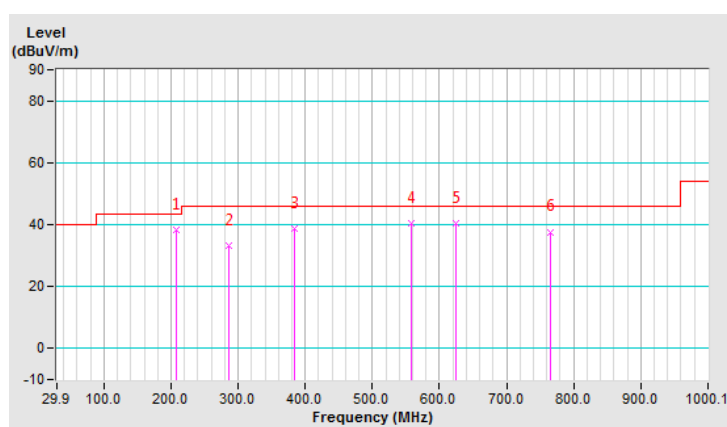


CHANNEL	TX Channel 6	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		

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	207.45	38.3 QP	43.5	-5.2	2.00 V	342	49.8	-11.5
2	286.03	33.4 QP	46.0	-12.6	1.00 V	356	41.1	-7.7
3	384.02	38.8 QP	46.0	-7.2	1.00 V	252	44.0	-5.2
4	557.69	40.5 QP	46.0	-5.5	1.00 V	329	41.9	-1.4
5	624.63	40.4 QP	46.0	-5.6	1.50 V	331	39.8	0.6
6	765.31	37.7 QP	46.0	-8.3	1.00 V	331	33.3	4.4

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 B (Internal antenna + Eth7 Radio) with Adapter

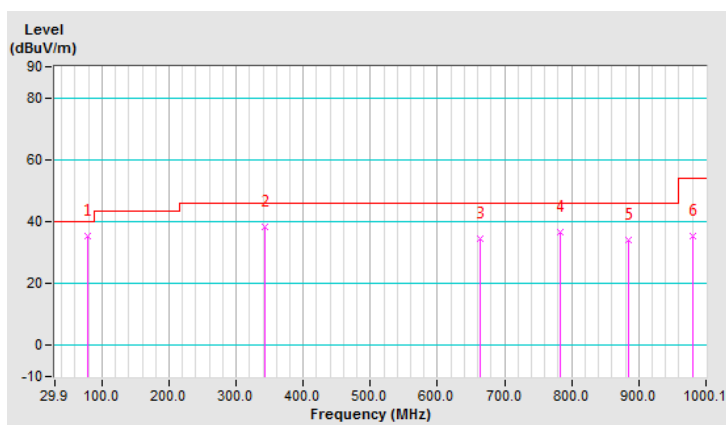
802.11b

CHANNEL	TX Channel 6	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	79.38	35.3 QP	40.0	-4.7	2.00 H	315	47.9	-12.6
2	342.30	38.4 QP	46.0	-7.6	1.00 H	315	44.7	-6.3
3	664.41	34.5 QP	46.0	-11.5	1.00 H	315	33.0	1.5
4	783.75	36.7 QP	46.0	-9.3	1.00 H	342	32.1	4.6
5	885.62	34.0 QP	46.0	-12.0	1.00 H	307	27.6	6.4
6	980.70	35.5 QP	54.0	-18.5	1.00 H	287	27.1	8.4

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

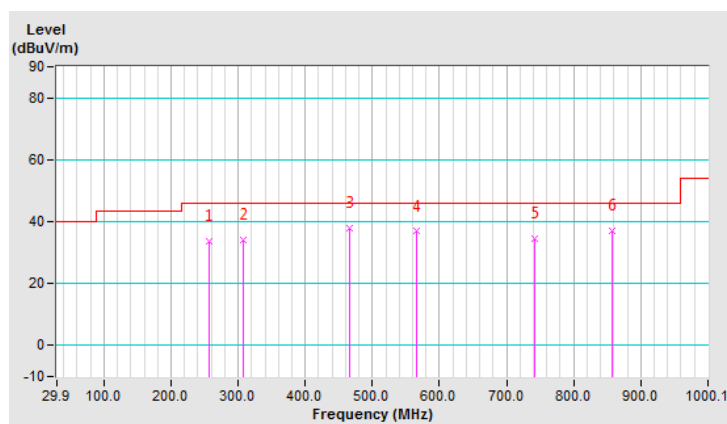


CHANNEL	TX Channel 6	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		

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	256.93	33.5 QP	46.0	-12.5	1.50 V	325	42.5	-9.0
2	307.38	34.1 QP	46.0	-11.9	1.00 V	325	41.2	-7.1
3	465.52	37.8 QP	46.0	-8.2	1.00 V	96	41.0	-3.2
4	565.45	36.8 QP	46.0	-9.2	1.00 V	309	38.1	-1.3
5	742.03	34.7 QP	46.0	-11.3	1.50 V	334	31.2	3.5
6	856.51	36.9 QP	46.0	-9.1	1.00 V	329	30.8	6.1

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



Test Mode C (Internal antenna + Eth8 Radio) with POE

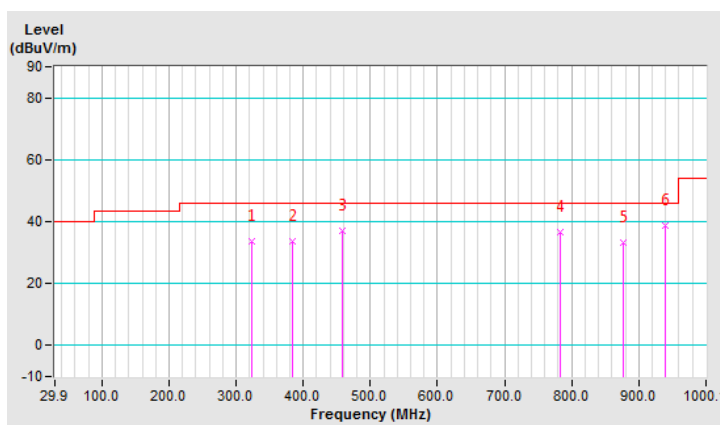
802.11b

CHANNEL	TX Channel 1	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	323.87	33.8 QP	46.0	-12.2	1.50 H	28	40.4	-6.6
2	383.05	33.5 QP	46.0	-12.5	1.00 H	201	38.7	-5.2
3	458.73	37.0 QP	46.0	-9.0	1.00 H	180	40.2	-3.2
4	783.75	36.6 QP	46.0	-9.4	1.00 H	211	32.0	4.6
5	876.88	33.3 QP	46.0	-12.7	1.50 H	267	27.0	6.3
6	938.98	38.7 QP	46.0	-7.3	2.00 H	15	30.8	7.9

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

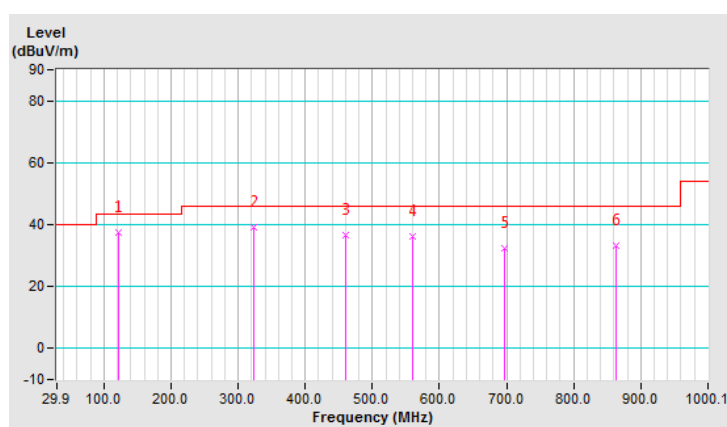


CHANNEL	TX Channel 1	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		

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	122.07	37.5 QP	43.5	-6.0	2.00 V	5	48.4	-10.9
2	323.87	39.1 QP	46.0	-6.9	1.00 V	1	45.7	-6.6
3	459.70	36.7 QP	46.0	-9.3	1.00 V	84	39.9	-3.2
4	560.60	36.0 QP	46.0	-10.0	1.50 V	313	37.4	-1.4
5	697.40	32.5 QP	46.0	-13.5	1.50 V	198	30.5	2.0
6	863.30	33.1 QP	46.0	-12.9	1.00 V	235	27.0	6.1

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



Test Mode D (Internal antenna + Eth8 Radio) with Adaper

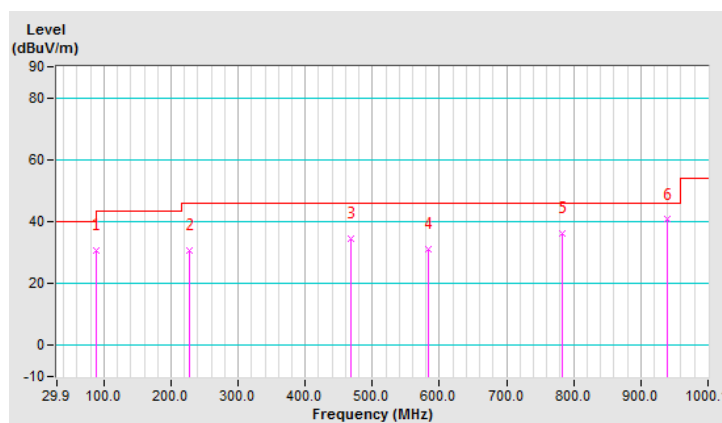
802.11b

CHANNEL	TX Channel 1	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	88.11	30.8 QP	43.5	-12.7	2.00 H	355	44.8	-14.0
2	226.85	30.6 QP	46.0	-15.4	1.00 H	6	41.9	-11.3
3	468.43	34.6 QP	46.0	-11.4	2.00 H	169	37.7	-3.1
4	582.91	31.3 QP	46.0	-14.7	1.00 H	276	31.9	-0.6
5	783.75	36.1 QP	46.0	-9.9	1.00 H	91	31.5	4.6
6	938.98	40.6 QP	46.0	-5.4	1.00 H	169	32.7	7.9

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

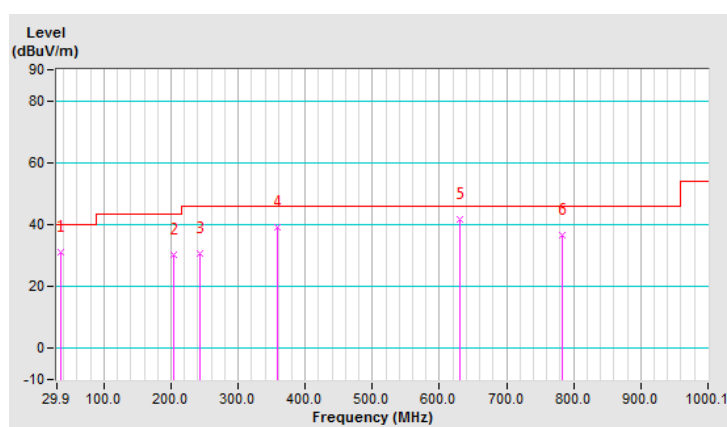


CHANNEL	TX Channel 1	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		

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	35.72	31.1 QP	40.0	-8.9	1.50 V	319	40.8	-9.7
2	203.57	30.3 QP	43.5	-13.2	1.00 V	111	41.7	-11.4
3	243.34	30.6 QP	46.0	-15.4	1.00 V	327	40.1	-9.5
4	358.80	39.2 QP	46.0	-6.8	1.00 V	321	45.2	-6.0
5	629.48	41.6 QP	46.0	-4.4	2.00 V	325	40.9	0.7
6	783.75	36.7 QP	46.0	-9.3	1.00 V	340	32.1	4.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit 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 (External antenna – PN: ATS-OO-245-46-4RPSP-36 + Eth7 Radio) with POE

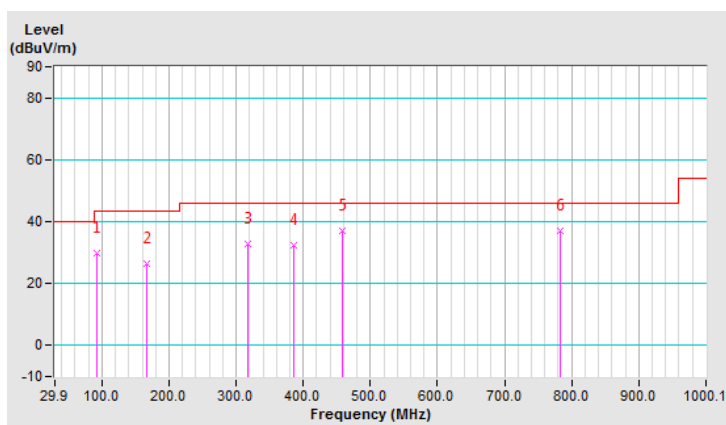
802.11b

CHANNEL	TX Channel 6	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	91.99	29.8 QP	43.5	-13.7	1.50 H	186	43.8	-14.0
2	166.70	26.5 QP	43.5	-17.0	1.50 H	28	35.4	-8.9
3	318.05	32.6 QP	46.0	-13.4	2.00 H	12	39.4	-6.8
4	385.96	32.5 QP	46.0	-13.5	1.00 H	178	37.6	-5.1
5	458.73	36.9 QP	46.0	-9.1	1.00 H	172	40.1	-3.2
6	783.75	37.2 QP	46.0	-8.8	1.00 H	149	32.6	4.6

Remarks:

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

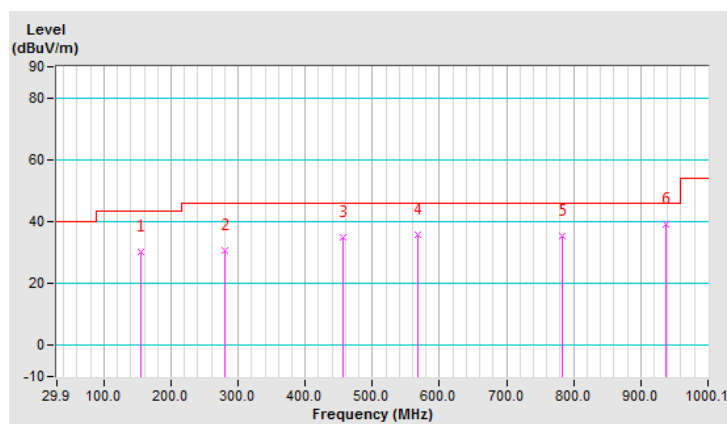


CHANNEL	TX Channel 6	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		

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	155.06	30.1 QP	43.5	-13.4	2.00 V	6	38.6	-8.5
2	281.18	30.6 QP	46.0	-15.4	1.00 V	341	38.4	-7.8
3	456.79	35.1 QP	46.0	-10.9	1.00 V	89	38.3	-3.2
4	568.36	35.7 QP	46.0	-10.3	1.00 V	324	36.9	-1.2
5	783.75	35.4 QP	46.0	-10.6	1.00 V	143	30.8	4.6
6	938.01	39.1 QP	46.0	-6.9	1.50 V	117	31.2	7.9

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



Test Mode F (External antenna – PN: ATS-OO-245-46-4RPSP-36 + Eth7 Radio) with Adapter

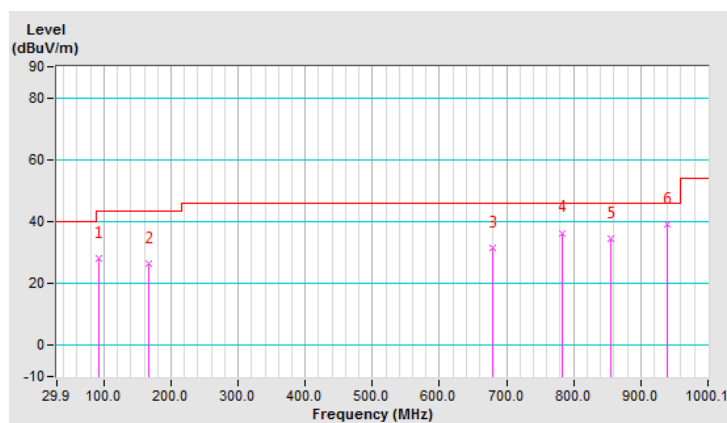
802.11b

CHANNEL	TX Channel 6	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	91.99	28.3 QP	43.5	-15.2	2.00 H	6	42.3	-14.0
2	167.67	26.6 QP	43.5	-16.9	1.00 H	63	35.5	-8.9
3	679.93	31.7 QP	46.0	-14.3	1.00 H	6	29.9	1.8
4	783.75	36.4 QP	46.0	-9.6	1.00 H	6	31.8	4.6
5	855.54	34.5 QP	46.0	-11.5	1.50 H	177	28.4	6.1
6	938.98	39.0 QP	46.0	-7.0	1.50 H	55	31.1	7.9

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

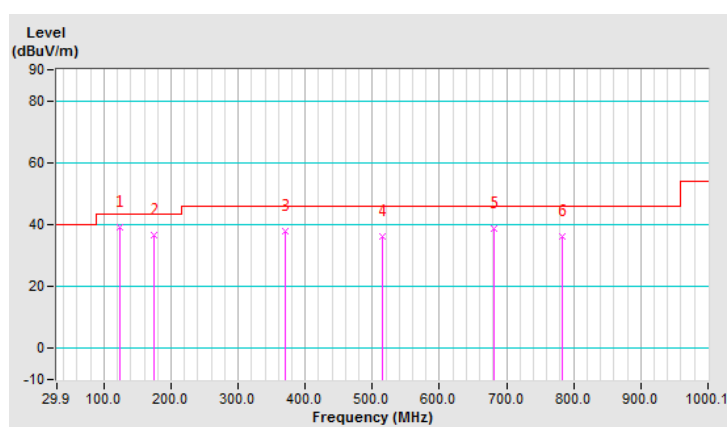


CHANNEL	TX Channel 6	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		

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	123.04	39.1 QP	43.5	-4.4	1.50 V	330	49.8	-10.7
2	174.46	36.7 QP	43.5	-6.8	1.00 V	334	46.3	-9.6
3	369.47	37.8 QP	46.0	-8.2	1.00 V	337	43.3	-5.5
4	514.03	36.0 QP	46.0	-10.0	1.00 V	337	38.3	-2.3
5	680.90	38.7 QP	46.0	-7.3	1.50 V	330	36.9	1.8
6	783.75	36.2 QP	46.0	-9.8	1.00 V	333	31.6	4.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit 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 – PN: ATS-OO-245-46-4RPSP-36 + Eth8 Radio) with POE

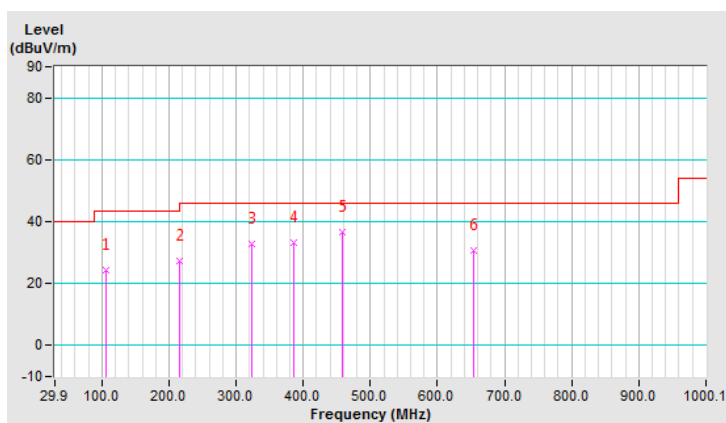
802.11g

CHANNEL	TX Channel 6	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	105.58	24.5 QP	43.5	-19.0	2.00 H	186	36.9	-12.4
2	216.18	27.2 QP	46.0	-18.8	1.00 H	230	38.4	-11.2
3	322.90	32.7 QP	46.0	-13.3	1.00 H	28	39.4	-6.7
4	385.96	33.1 QP	46.0	-12.9	1.00 H	194	38.2	-5.1
5	457.76	36.7 QP	46.0	-9.3	1.50 H	186	39.9	-3.2
6	654.71	30.5 QP	46.0	-15.5	1.00 H	328	29.4	1.1

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

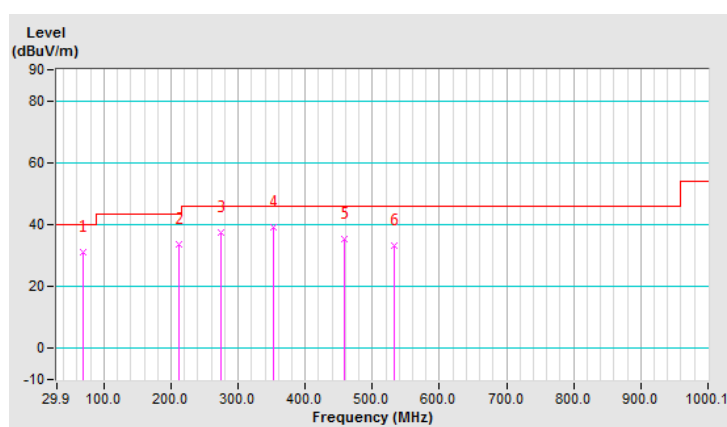


CHANNEL	TX Channel 6	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		

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	68.71	30.9 QP	40.0	-9.1	2.00 V	325	41.4	-10.5
2	211.33	33.7 QP	43.5	-9.8	1.00 V	327	45.0	-11.3
3	274.39	37.5 QP	46.0	-8.5	1.00 V	327	45.5	-8.0
4	352.01	39.2 QP	46.0	-6.8	1.00 V	328	45.3	-6.1
5	458.73	35.2 QP	46.0	-10.8	1.50 V	96	38.4	-3.2
6	532.46	33.3 QP	46.0	-12.7	1.00 V	327	35.3	-2.0

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



Test Mode H (External antenna – PN: ATS-OO-245-46-4RPSP-36 + Eth8 Radio) with Adapter

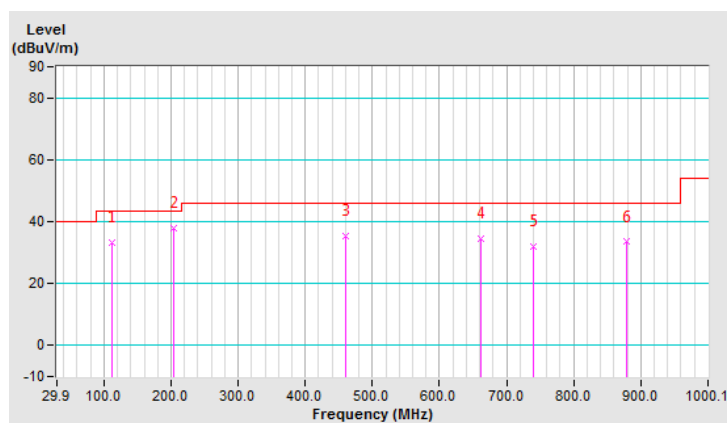
802.11g

CHANNEL	TX Channel 6	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	112.37	33.4 QP	43.5	-10.1	1.00 H	336	45.0	-11.6
2	204.54	37.9 QP	43.5	-5.6	1.00 H	315	49.4	-11.5
3	460.67	35.5 QP	46.0	-10.5	1.00 H	188	38.8	-3.3
4	661.50	34.3 QP	46.0	-11.7	1.00 H	333	32.9	1.4
5	740.09	32.0 QP	46.0	-14.0	1.00 H	302	28.6	3.4
6	878.83	33.4 QP	46.0	-12.6	1.00 H	6	27.1	6.3

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

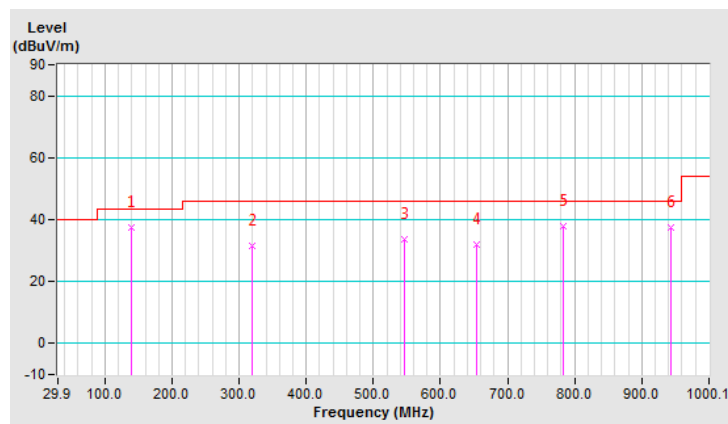


CHANNEL	TX Channel 6	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		

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	139.53	37.3 QP	43.5	-6.2	2.00 V	325	46.6	-9.3
2	319.99	31.5 QP	46.0	-14.5	1.00 V	319	38.2	-6.7
3	546.05	33.6 QP	46.0	-12.4	1.00 V	327	35.3	-1.7
4	654.71	31.9 QP	46.0	-14.1	1.00 V	92	30.8	1.1
5	783.75	37.8 QP	46.0	-8.2	1.50 V	261	33.2	4.6
6	943.83	37.5 QP	46.0	-8.5	1.50 V	6	29.4	8.1

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



Test Mode I (External antenna – PN: ATS-OP-245-810-4RPSP-36 + Eth7 Radio) with POE

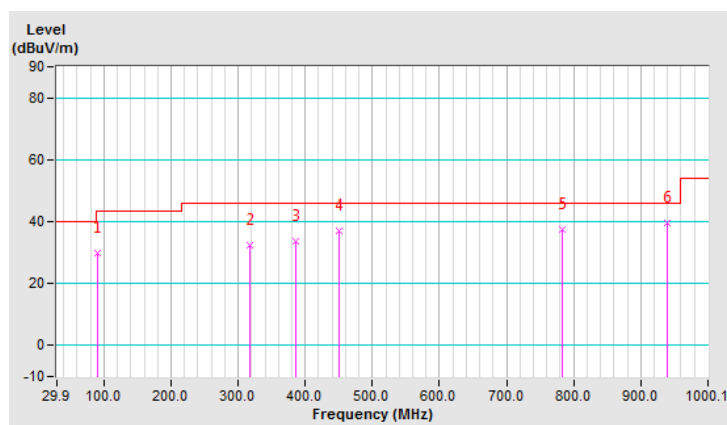
802.11ax (HE20)

CHANNEL	TX Channel 6	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	91.02	29.8 QP	43.5	-13.7	2.00 H	103	43.9	-14.1
2	318.05	32.5 QP	46.0	-13.5	1.00 H	45	39.3	-6.8
3	385.96	33.6 QP	46.0	-12.4	1.00 H	189	38.7	-5.1
4	450.00	36.9 QP	46.0	-9.1	1.00 H	186	40.4	-3.5
5	783.75	37.6 QP	46.0	-8.4	2.00 H	2	33.0	4.6
6	938.98	39.4 QP	46.0	-6.6	1.00 H	13	31.5	7.9

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

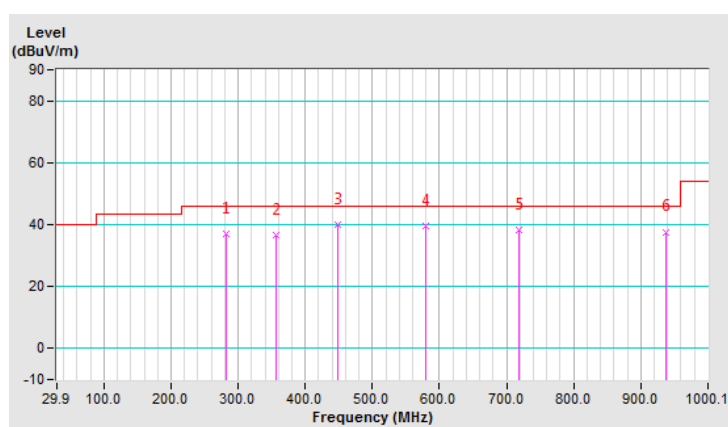


CHANNEL	TX Channel 6	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		

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	283.12	37.1 QP	46.0	-8.9	1.50 V	342	44.9	-7.8
2	356.86	36.7 QP	46.0	-9.3	1.00 V	326	42.7	-6.0
3	448.06	39.9 QP	46.0	-6.1	1.00 V	342	43.5	-3.6
4	580.00	39.5 QP	46.0	-6.5	1.00 V	224	40.2	-0.7
5	718.74	38.4 QP	46.0	-7.6	1.50 V	216	35.7	2.7
6	938.01	37.7 QP	46.0	-8.3	1.00 V	54	29.8	7.9

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



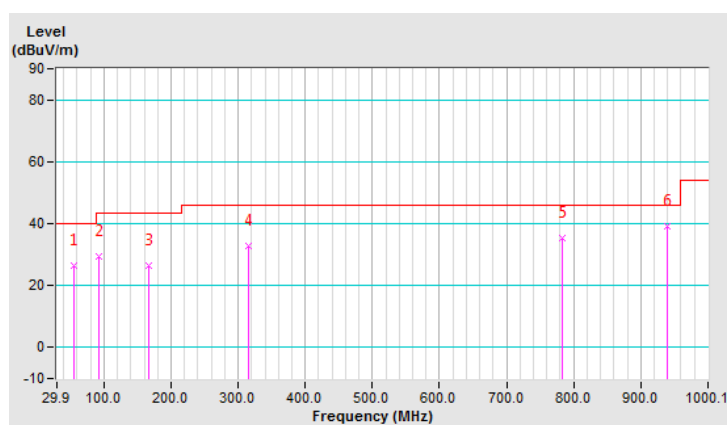
Test Mode J (External antenna – PN: ATS-OP-245-810-4RPSP-36 + Eth7 Radio) with Adapter
802.11ax (HE20)

CHANNEL	TX Channel 6	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	55.13	26.3 QP	40.0	-13.7	1.50 H	313	34.8	-8.5
2	92.96	29.5 QP	43.5	-14.0	1.00 H	6	43.5	-14.0
3	166.70	26.5 QP	43.5	-17.0	1.00 H	42	35.4	-8.9
4	315.14	32.6 QP	46.0	-13.4	1.00 H	169	39.4	-6.8
5	783.75	35.3 QP	46.0	-10.7	1.50 H	238	30.7	4.6
6	938.98	39.0 QP	46.0	-7.0	1.50 H	72	31.1	7.9

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

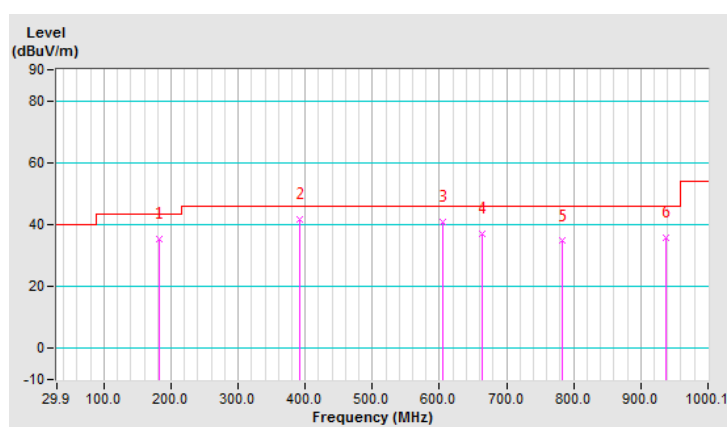


CHANNEL	TX Channel 6	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		

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	183.19	35.4 QP	43.5	-8.1	1.50 V	323	45.8	-10.4
2	391.78	41.8 QP	46.0	-4.2	1.50 V	323	46.7	-4.9
3	604.26	41.0 QP	46.0	-5.0	1.00 V	316	40.8	0.2
4	663.44	37.1 QP	46.0	-8.9	1.00 V	316	35.7	1.4
5	783.75	34.7 QP	46.0	-11.3	1.00 V	248	30.1	4.6
6	938.01	35.8 QP	46.0	-10.2	1.00 V	240	27.9	7.9

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



Test Mode K (External antenna – PN: ATS-OP-245-810-4RPSP-36 + Eth8 Radio) with POE

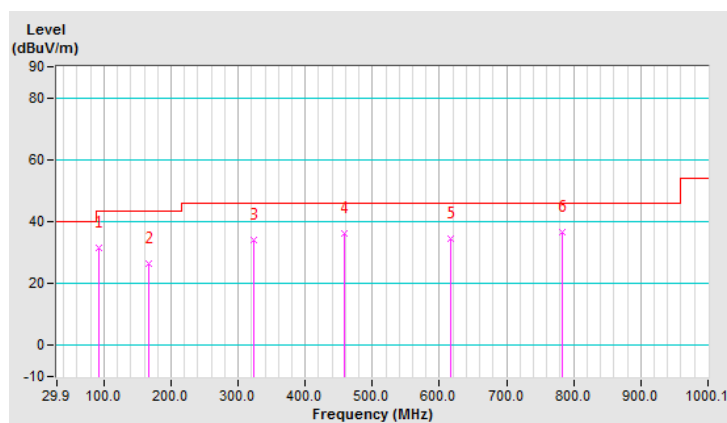
802.11b

CHANNEL	TX Channel 11	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	91.99	31.5 QP	43.5	-12.0	2.00 H	177	45.5	-14.0
2	166.70	26.5 QP	43.5	-17.0	1.00 H	56	35.4	-8.9
3	323.87	34.2 QP	46.0	-11.8	1.00 H	44	40.8	-6.6
4	457.76	36.0 QP	46.0	-10.0	2.00 H	177	39.2	-3.2
5	615.90	34.6 QP	46.0	-11.4	1.00 H	163	34.1	0.5
6	783.75	36.6 QP	46.0	-9.4	1.00 H	172	32.0	4.6

Remarks:

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

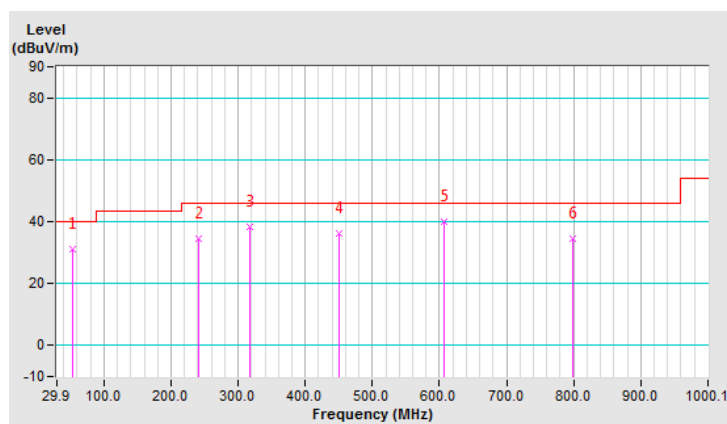


CHANNEL	TX Channel 11	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		

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	53.18	31.3 QP	40.0	-8.7	1.50 V	221	39.7	-8.4
2	241.40	34.4 QP	46.0	-11.6	1.00 V	354	44.0	-9.6
3	318.05	38.2 QP	46.0	-7.8	1.00 V	325	45.0	-6.8
4	450.00	36.1 QP	46.0	-9.9	1.00 V	354	39.6	-3.5
5	606.20	39.8 QP	46.0	-6.2	1.00 V	354	39.5	0.3
6	799.27	34.4 QP	46.0	-11.6	1.00 V	13	29.6	4.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit 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 L (External antenna – PN: ATS-OP-245-810-4RPSP-36 + Eth8 Radio) with Adapter

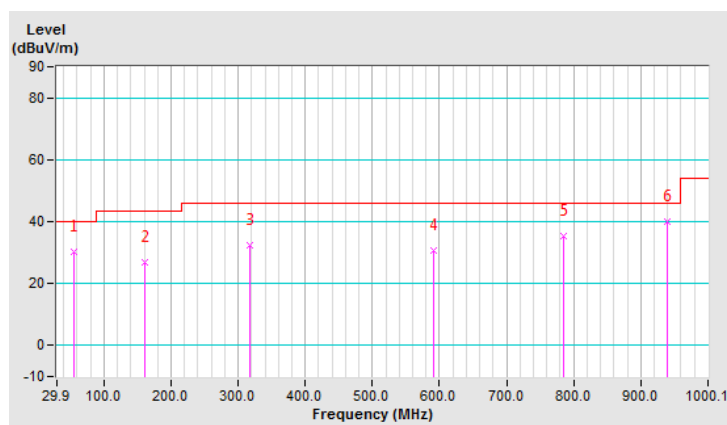
802.11b

CHANNEL	TX Channel 11	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	56.10	30.1 QP	40.0	-9.9	2.00 H	317	38.6	-8.5
2	161.85	26.9 QP	43.5	-16.6	1.00 H	13	35.5	-8.6
3	317.08	32.3 QP	46.0	-13.7	1.00 H	52	39.1	-6.8
4	590.68	30.8 QP	46.0	-15.2	1.00 H	269	31.1	-0.3
5	785.69	35.3 QP	46.0	-10.7	1.50 H	283	30.5	4.8
6	938.98	39.8 QP	46.0	-6.2	1.50 H	270	31.9	7.9

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

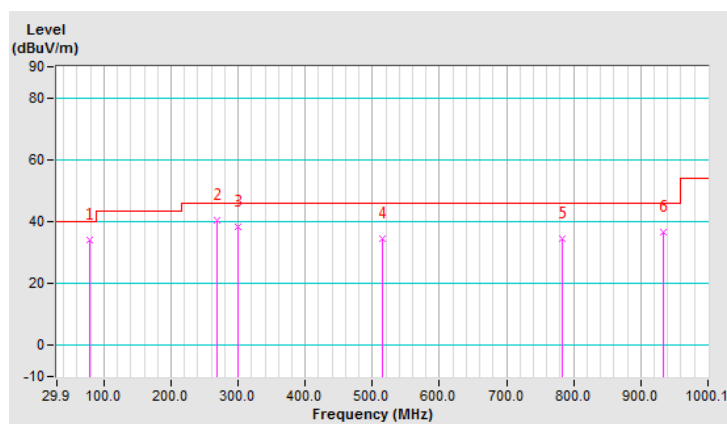


CHANNEL	TX Channel 11	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		

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	78.41	34.0 QP	40.0	-6.0	2.00 V	227	46.4	-12.4
2	268.57	40.4 QP	46.0	-5.6	1.00 V	320	48.7	-8.3
3	300.59	38.4 QP	46.0	-7.6	1.00 V	322	45.8	-7.4
4	515.97	34.5 QP	46.0	-11.5	1.00 V	320	36.8	-2.3
5	783.75	34.7 QP	46.0	-11.3	1.00 V	210	30.1	4.6
6	933.16	36.6 QP	46.0	-9.4	1.00 V	216	28.8	7.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit 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
	ESCI	100613	Dec. 11, 2019	Dec. 10, 2020
RF signal cable Woken	5D-FB	Cable-cond1-01	Sep. 05, 2018	Sep. 04, 2019
			Sep. 05, 2019	Sep. 04, 2020
LISN ROHDE & SCHWARZ (EUT)	ENV216	101826	Feb. 21, 2019	Feb. 20, 2020
			Feb. 20, 2020	Feb. 19, 2021
LISN ROHDE & SCHWARZ (Peripheral)	ESH3-Z5	100311	Aug. 19, 2018	Aug. 18, 2019
			Aug. 22, 2019	Aug. 21, 2020
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

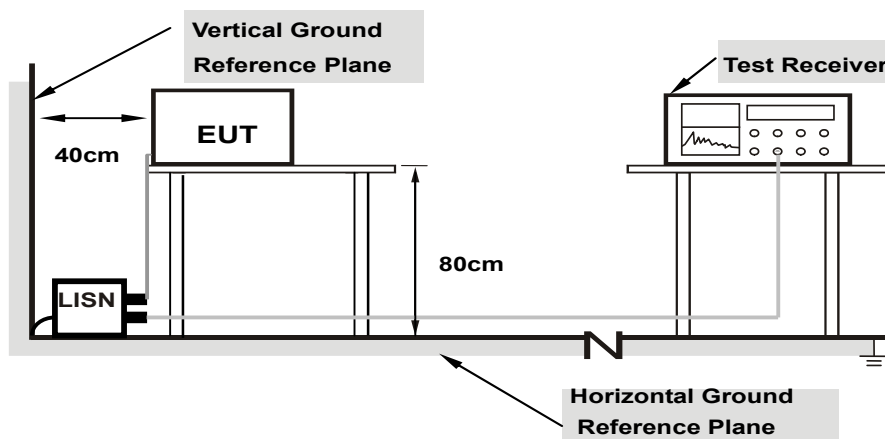
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance 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 + Eth7 Radio) with POE

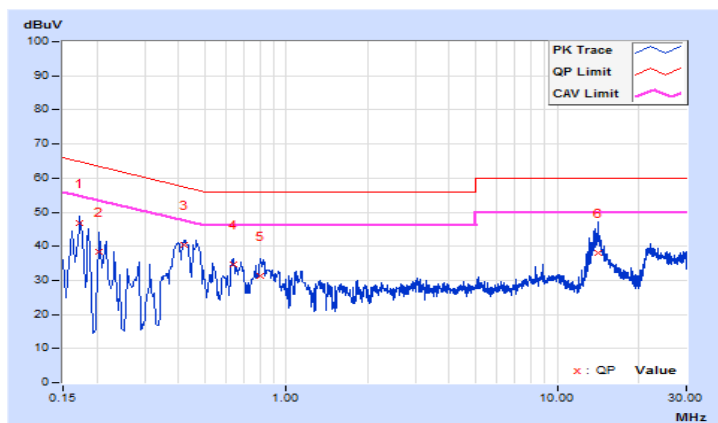
802.11b

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	0.17346	9.56	37.15	25.64	46.71	35.20	64.79	54.79	-18.08	-19.59
2	0.20474	9.55	28.78	13.29	38.33	22.84	63.42	53.42	-25.09	-30.58
3	0.41979	9.57	30.82	23.23	40.39	32.80	57.45	47.45	-17.06	-14.65
4	0.63484	9.59	24.99	17.68	34.58	27.27	56.00	46.00	-21.42	-18.73
5	0.79906	9.60	21.81	13.18	31.41	22.78	56.00	46.00	-24.59	-23.22
6	14.09306	9.81	28.32	23.99	38.13	33.80	60.00	50.00	-21.87	-16.20

Remarks:

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

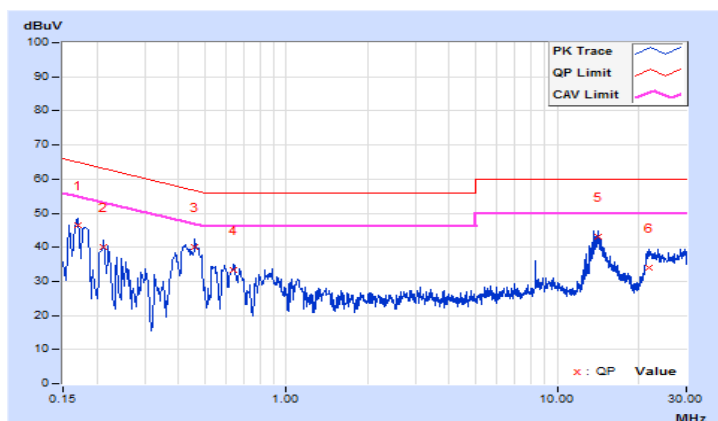


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16955	9.54	36.92	25.86	46.46	35.40	64.98	54.98	-18.52	-19.58
2	0.21256	9.53	30.48	19.55	40.01	29.08	63.10	53.10	-23.09	-24.02
3	0.45889	9.55	30.50	22.55	40.05	32.10	56.71	46.71	-16.66	-14.61
4	0.63856	9.57	23.68	16.24	33.25	25.81	56.00	46.00	-22.75	-20.19
5	14.10870	9.84	33.30	30.23	43.14	40.07	60.00	50.00	-16.86	-9.93
6	21.71365	9.89	24.14	18.83	34.03	28.72	60.00	50.00	-25.97	-21.28

Remarks:

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



Test Mode B (Internal antenna + Eth7 Radio) with Adapter

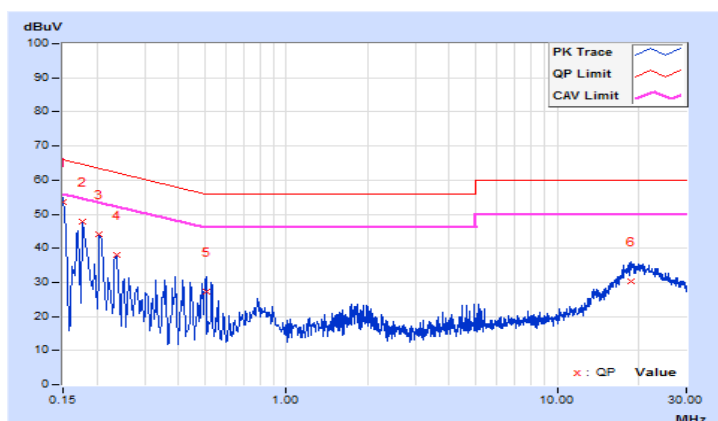
802.11b

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	0.15000	9.56	44.05	29.57	53.61	39.13	66.00	56.00	-12.39	-16.87
2	0.17737	9.55	38.28	26.15	47.83	35.70	64.61	54.61	-16.78	-18.91
3	0.20474	9.55	34.69	21.95	44.24	31.50	63.42	53.42	-19.18	-21.92
4	0.23602	9.55	28.47	17.36	38.02	26.91	62.24	52.24	-24.22	-25.33
5	0.50581	9.58	17.70	6.25	27.28	15.83	56.00	46.00	-28.72	-30.17
6	18.76160	9.83	20.51	15.25	30.34	25.08	60.00	50.00	-29.66	-24.92

Remarks:

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

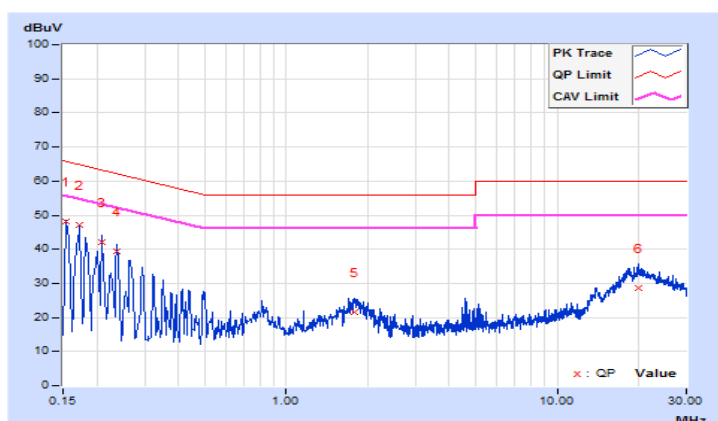


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15391	9.54	38.75	20.93	48.29	30.47	65.79	55.79	-17.50	-25.32
2	0.17328	9.54	37.67	23.95	47.21	33.49	64.80	54.80	-17.59	-21.31
3	0.20865	9.53	32.72	18.83	42.25	28.36	63.26	53.26	-21.01	-24.90
4	0.23602	9.53	29.91	15.24	39.44	24.77	62.24	52.24	-22.80	-27.47
5	1.79220	9.62	11.93	4.46	21.55	14.08	56.00	46.00	-34.45	-31.92
6	20.02453	9.88	18.83	13.60	28.71	23.48	60.00	50.00	-31.29	-26.52

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 + Eth8 Radio) with POE

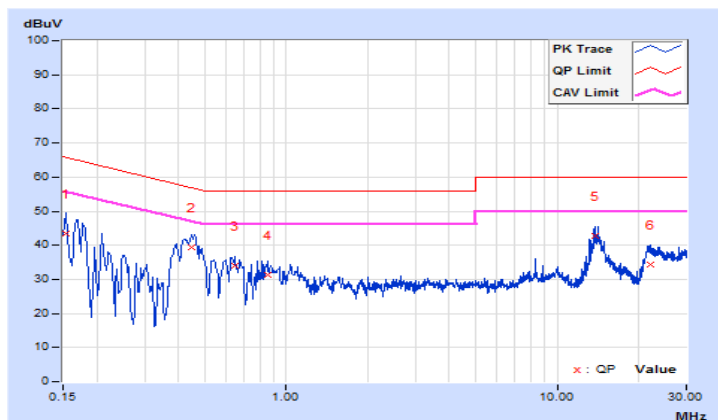
802.11b

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	9.56	33.79	9.15	43.35	18.71	65.79	55.79	-22.44	-37.08
2	0.44716	9.57	29.90	18.72	39.47	28.29	56.93	46.93	-17.46	-18.64
3	0.64657	9.59	24.55	15.62	34.14	25.21	56.00	46.00	-21.86	-20.79
4	0.85380	9.60	21.69	13.92	31.29	23.52	56.00	46.00	-24.71	-22.48
5	13.87019	9.81	33.05	29.83	42.86	39.64	60.00	50.00	-17.14	-10.36
6	22.03818	9.83	24.57	19.21	34.40	29.04	60.00	50.00	-25.60	-20.96

Remarks:

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

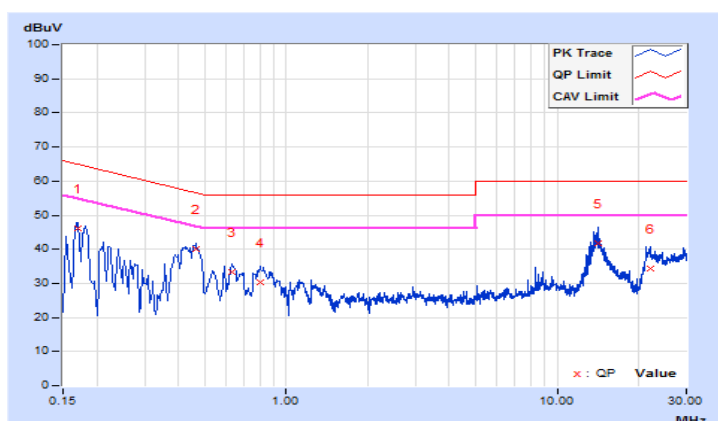


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16955	9.54	36.60	25.59	46.14	35.13	64.98	54.98	-18.84	-19.85
2	0.46280	9.55	30.45	23.20	40.00	32.75	56.64	46.64	-16.64	-13.89
3	0.63020	9.57	23.75	16.09	33.32	25.66	56.00	46.00	-22.68	-20.34
4	0.80297	9.58	20.71	12.20	30.29	21.78	56.00	46.00	-25.71	-24.22
5	14.11261	9.84	31.93	28.47	41.77	38.31	60.00	50.00	-18.23	-11.69
6	22.08901	9.89	24.47	19.10	34.36	28.99	60.00	50.00	-25.64	-21.01

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 + Eth8 Radio) with Adaper

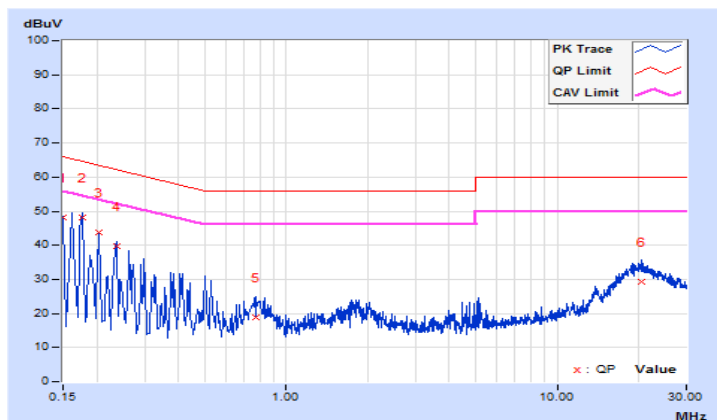
802.11b

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	0.15000	9.56	38.49	28.90	48.05	38.46	66.00	56.00	-17.95	-17.54
2	0.17737	9.55	38.66	25.24	48.21	34.79	64.61	54.61	-16.40	-19.82
3	0.20474	9.55	34.37	21.37	43.92	30.92	63.42	53.42	-19.50	-22.50
4	0.23602	9.55	30.20	17.11	39.75	26.66	62.24	52.24	-22.49	-25.58
5	0.77560	9.60	9.40	4.41	19.00	14.01	56.00	46.00	-37.00	-31.99
6	20.40771	9.83	19.35	13.92	29.18	23.75	60.00	50.00	-30.82	-26.25

Remarks:

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

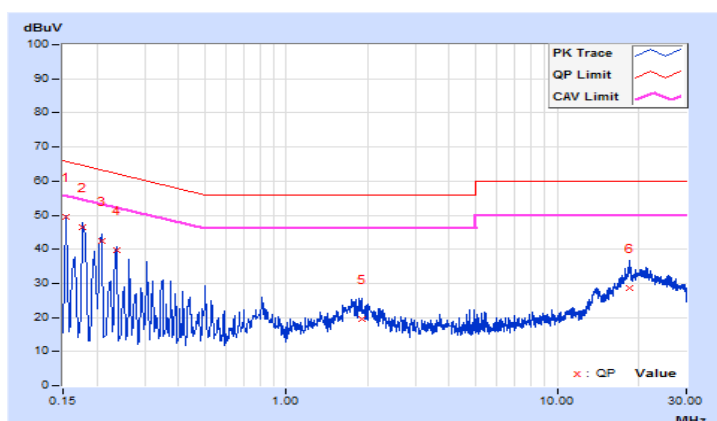


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15391	9.54	40.00	20.77	49.54	30.31	65.79	55.79	-16.25	-25.48
2	0.17737	9.53	36.84	25.44	46.37	34.97	64.61	54.61	-18.24	-19.64
3	0.20865	9.53	32.80	19.55	42.33	29.08	63.26	53.26	-20.93	-24.18
4	0.23602	9.53	30.10	16.81	39.63	26.34	62.24	52.24	-22.61	-25.90
5	1.90559	9.63	9.93	2.89	19.56	12.52	56.00	46.00	-36.44	-33.48
6	18.46835	9.87	18.77	13.49	28.64	23.36	60.00	50.00	-31.36	-26.64

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 (External antenna – PN: ATS-OO-245-46-4RPSP-36 + Eth7 Radio) with POE

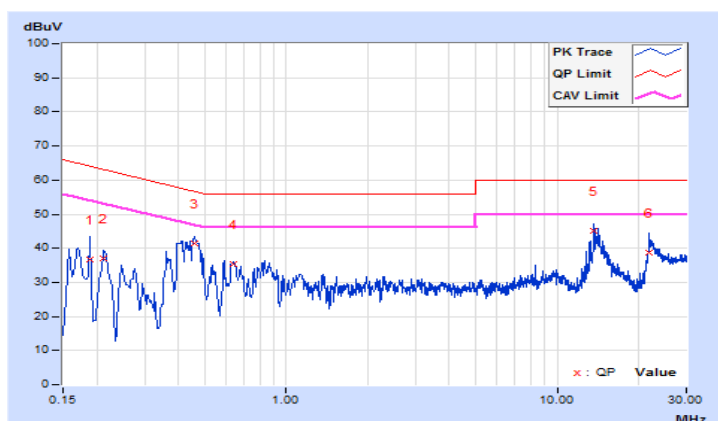
802.11b

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	0.18910	9.55	27.29	10.51	36.84	20.06	64.08	54.08	-27.24	-34.02
2	0.21256	9.55	27.43	18.23	36.98	27.78	63.10	53.10	-26.12	-25.32
3	0.45889	9.57	31.88	22.49	41.45	32.06	56.71	46.71	-15.26	-14.65
4	0.63484	9.59	25.70	17.42	35.29	27.01	56.00	46.00	-20.71	-18.99
5	13.62777	9.81	35.20	33.68	45.01	43.49	60.00	50.00	-14.99	-6.51
6	21.95998	9.83	29.02	24.48	38.85	34.31	60.00	50.00	-21.15	-15.69

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.

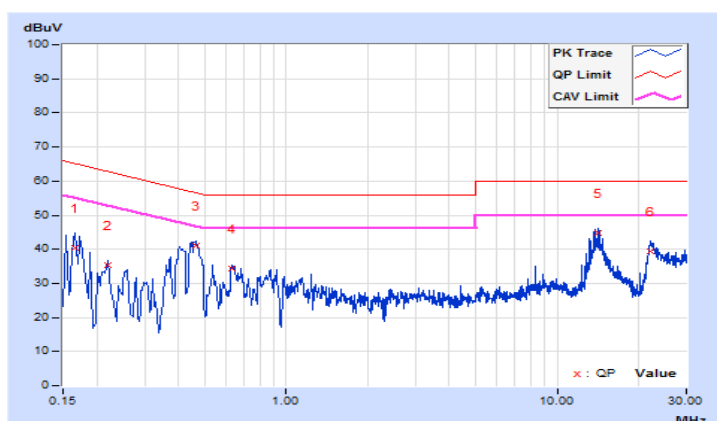


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16564	9.54	30.88	17.21	40.42	26.75	65.18	55.18	-24.76	-28.43
2	0.22024	9.53	25.71	15.28	35.24	24.81	62.81	52.81	-27.57	-28.00
3	0.46179	9.55	31.48	22.92	41.03	32.47	56.66	46.66	-15.63	-14.19
4	0.63093	9.57	24.73	16.04	34.30	25.61	56.00	46.00	-21.70	-20.39
5	14.13216	9.84	35.03	32.71	44.87	42.55	60.00	50.00	-15.13	-7.45
6	22.20631	9.89	29.40	24.13	39.29	34.02	60.00	50.00	-20.71	-15.98

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 (External antenna – PN: ATS-OO-245-46-4RPSP-36 + Eth7 Radio) with Adapter

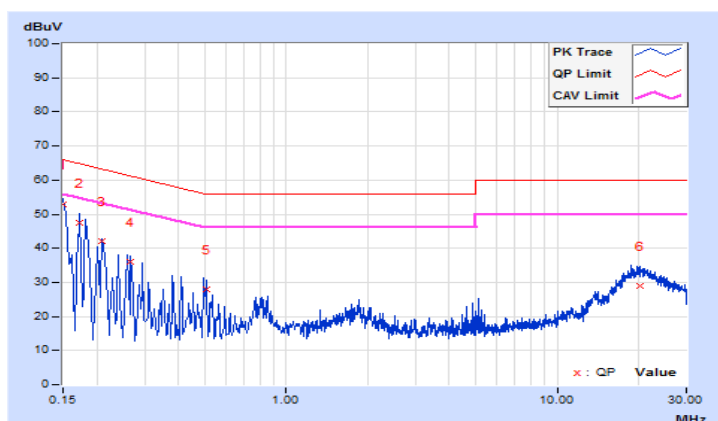
802.11b

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	0.15000	9.56	43.31	28.53	52.87	38.09	66.00	56.00	-13.13	-17.91
2	0.17346	9.56	37.93	23.62	47.49	33.18	64.79	54.79	-17.30	-21.61
3	0.20865	9.55	32.43	19.14	41.98	28.69	63.26	53.26	-21.28	-24.57
4	0.26730	9.56	26.57	12.48	36.13	22.04	61.20	51.20	-25.07	-29.16
5	0.50581	9.58	18.33	8.02	27.91	17.60	56.00	46.00	-28.09	-28.40
6	20.15356	9.83	19.21	13.79	29.04	23.62	60.00	50.00	-30.96	-26.38

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.

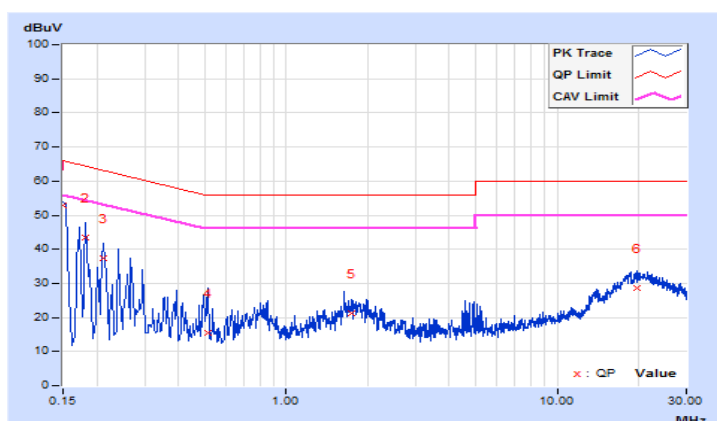


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	9.54	43.23	28.76	52.77	38.30	66.00	56.00	-13.23	-17.70
2	0.18128	9.53	33.90	19.21	43.43	28.74	64.43	54.43	-21.00	-25.69
3	0.21256	9.53	27.73	10.98	37.26	20.51	63.10	53.10	-25.84	-32.59
4	0.51754	9.56	5.88	2.71	15.44	12.27	56.00	46.00	-40.56	-33.73
5	1.75310	9.62	11.69	4.24	21.31	13.86	56.00	46.00	-34.69	-32.14
6	19.71955	9.88	18.76	13.44	28.64	23.32	60.00	50.00	-31.36	-26.68

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 – PN: ATS-OO-245-46-4RPSP-36 + Eth8 Radio) with POE

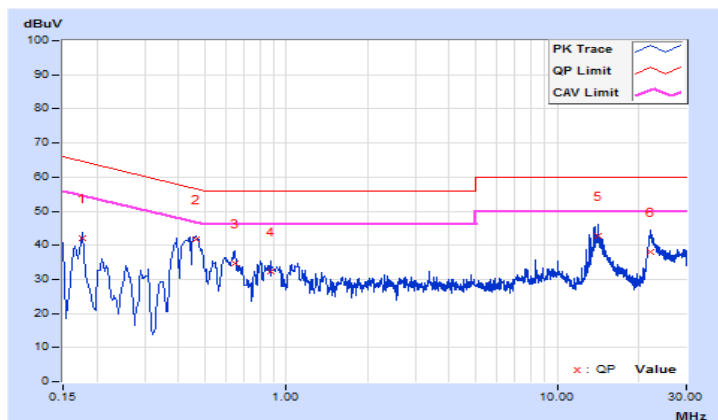
802.11g

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	9.55	32.45	21.75	42.00	31.30	64.61	54.61	-22.61	-23.31
2	0.46179	9.57	32.26	23.55	41.83	33.12	56.66	46.66	-14.83	-13.54
3	0.64266	9.59	25.25	16.56	34.84	26.15	56.00	46.00	-21.16	-19.85
4	0.87726	9.60	22.76	13.73	32.36	23.33	56.00	46.00	-23.64	-22.67
5	14.13607	9.81	32.90	29.95	42.71	39.76	60.00	50.00	-17.29	-10.24
6	22.21413	9.83	28.24	23.13	38.07	32.96	60.00	50.00	-21.93	-17.04

Remarks:

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

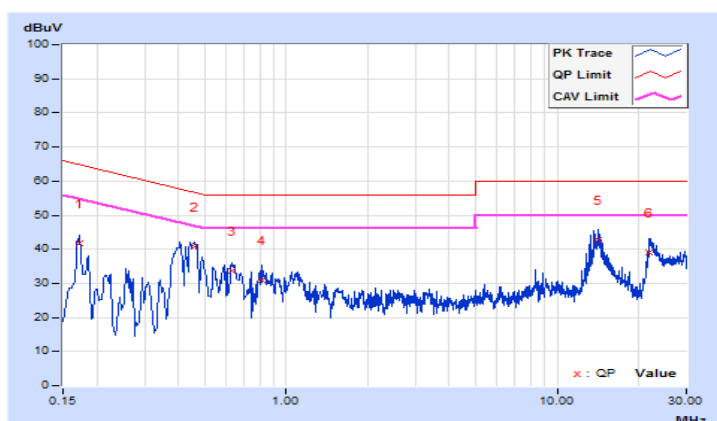


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.17346	9.54	32.25	22.28	41.79	31.82	64.79	54.79	-23.00	-22.97
2	0.45889	9.55	31.20	21.83	40.75	31.38	56.71	46.71	-15.96	-15.33
3	0.62689	9.57	24.20	14.66	33.77	24.23	56.00	46.00	-22.23	-21.77
4	0.81470	9.58	21.45	12.41	31.03	21.99	56.00	46.00	-24.97	-24.01
5	14.13607	9.84	32.97	30.01	42.81	39.85	60.00	50.00	-17.19	-10.15
6	21.95216	9.89	29.09	24.53	38.98	34.42	60.00	50.00	-21.02	-15.58

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 – PN: ATS-OO-245-46-4RPSP-36 + Eth8 Radio) with Adaper

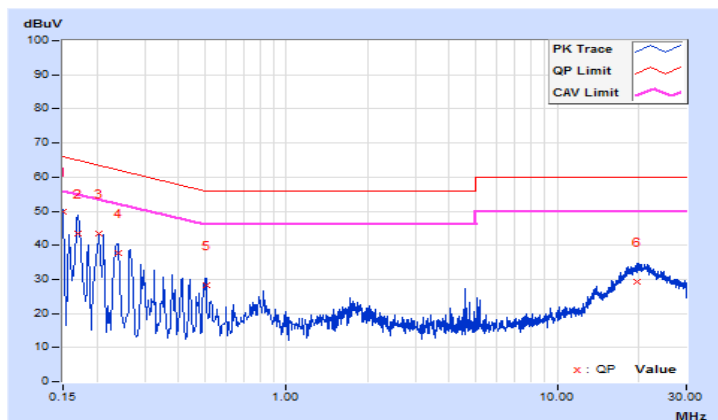
802.11g

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	0.15000	9.56	40.24	28.99	49.80	38.55	66.00	56.00	-16.20	-17.45
2	0.16955	9.56	33.99	15.04	43.55	24.60	64.98	54.98	-21.43	-30.38
3	0.20474	9.55	33.97	20.96	43.52	30.51	63.42	53.42	-19.90	-22.91
4	0.23898	9.55	28.26	14.03	37.81	23.58	62.13	52.13	-24.32	-28.55
5	0.50581	9.58	18.69	7.76	28.27	17.34	56.00	46.00	-27.73	-28.66
6	19.61789	9.83	19.63	14.32	29.46	24.15	60.00	50.00	-30.54	-25.85

Remarks:

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

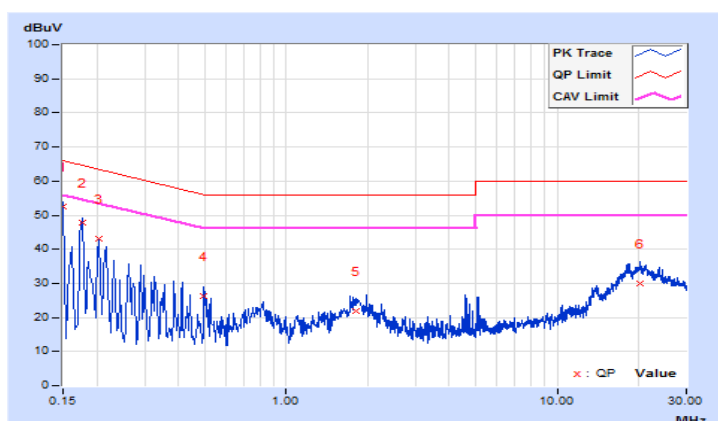


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	9.54	43.13	28.79	52.67	38.33	66.00	56.00	-13.33	-17.67
2	0.17737	9.53	38.38	25.17	47.91	34.70	64.61	54.61	-16.70	-19.91
3	0.20474	9.53	33.71	20.29	43.24	29.82	63.42	53.42	-20.18	-23.60
4	0.49799	9.56	16.79	6.89	26.35	16.45	56.03	46.03	-29.68	-29.58
5	1.80002	9.62	12.25	4.83	21.87	14.45	56.00	46.00	-34.13	-31.55
6	20.19266	9.88	19.98	14.64	29.86	24.52	60.00	50.00	-30.14	-25.48

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 – PN: ATS-OP-245-810-4RPSP-36 + Eth7 Radio) with POE

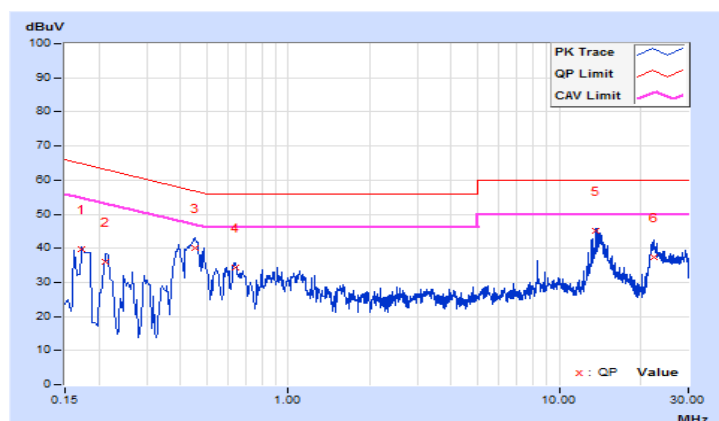
802.11ax (HE20)

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	0.17346	9.56	30.14	22.31	39.70	31.87	64.79	54.79	-25.09	-22.92
2	0.21256	9.55	26.41	16.86	35.96	26.41	63.10	53.10	-27.14	-26.69
3	0.45107	9.57	30.51	19.83	40.08	29.40	56.86	46.86	-16.78	-17.46
4	0.63484	9.59	24.74	16.37	34.33	25.96	56.00	46.00	-21.67	-20.04
5	13.62777	9.81	35.31	33.82	45.12	43.63	60.00	50.00	-14.88	-6.37
6	22.39399	9.83	27.51	22.11	37.34	31.94	60.00	50.00	-22.66	-18.06

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.

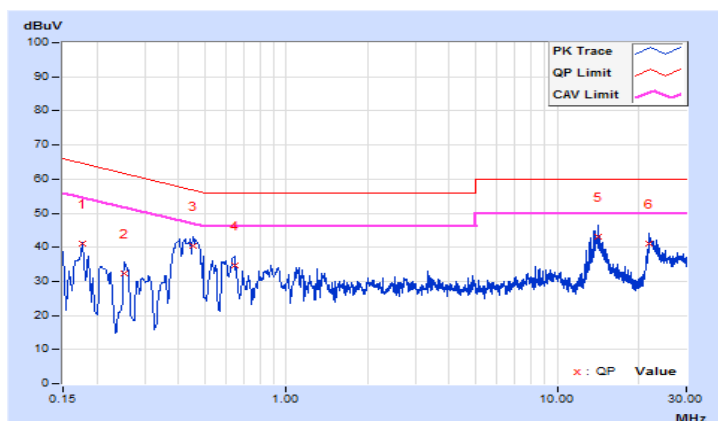


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.17737	9.53	31.46	21.94	40.99	31.47	64.61	54.61	-23.62	-23.14
2	0.25166	9.54	22.94	11.85	32.48	21.39	61.70	51.70	-29.22	-30.31
3	0.45107	9.55	30.76	19.97	40.31	29.52	56.86	46.86	-16.55	-17.34
4	0.64532	9.57	25.16	16.31	34.73	25.88	56.00	46.00	-21.27	-20.12
5	14.13607	9.84	33.26	30.38	43.10	40.22	60.00	50.00	-16.90	-9.78
6	21.95607	9.89	31.15	26.87	41.04	36.76	60.00	50.00	-18.96	-13.24

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 – PN: ATS-OP-245-810-4RPSP-36 + Eth7 Radio) with Adaper

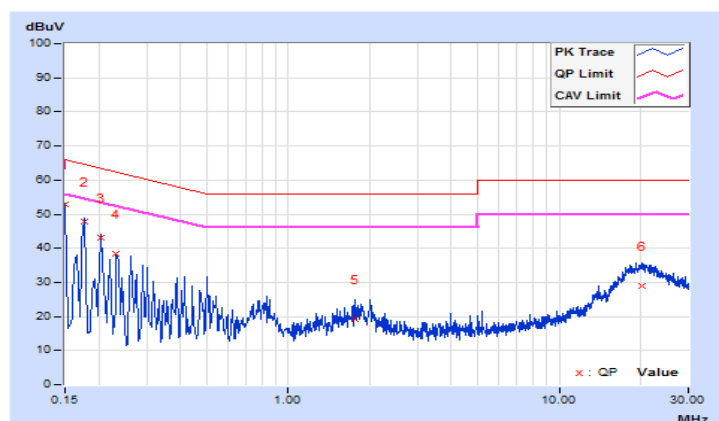
802.11ax (HE20)

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	0.15000	9.56	43.14	29.13	52.70	38.69	66.00	56.00	-13.30	-17.31
2	0.17737	9.55	38.19	25.18	47.74	34.73	64.61	54.61	-16.87	-19.88
3	0.20474	9.55	33.48	20.32	43.03	29.87	63.42	53.42	-20.39	-23.55
4	0.23211	9.55	28.76	13.41	38.31	22.96	62.37	52.37	-24.06	-29.41
5	1.77265	9.65	9.52	2.32	19.17	11.97	56.00	46.00	-36.83	-34.03
6	20.22003	9.83	19.05	13.81	28.88	23.64	60.00	50.00	-31.12	-26.36

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.

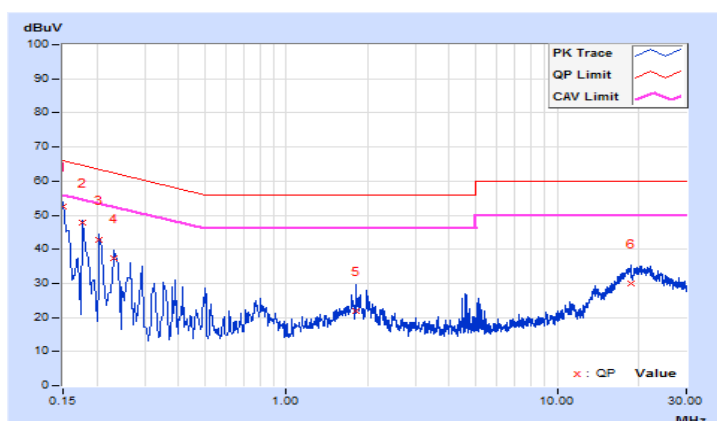


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	9.54	43.13	29.05	52.67	38.59	66.00	56.00	-13.33	-17.41
2	0.17737	9.53	38.20	24.91	47.73	34.44	64.61	54.61	-16.88	-20.17
3	0.20474	9.53	33.16	19.67	42.69	29.20	63.42	53.42	-20.73	-24.22
4	0.23211	9.53	27.74	12.07	37.27	21.60	62.37	52.37	-25.10	-30.77
5	1.80784	9.62	12.15	4.75	21.77	14.37	56.00	46.00	-34.23	-31.63
6	18.74987	9.87	19.98	14.60	29.85	24.47	60.00	50.00	-30.15	-25.53

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 K (External antenna – PN: ATS-OP-245-810-4RPSP-36 + Eth8 Radio) with POE

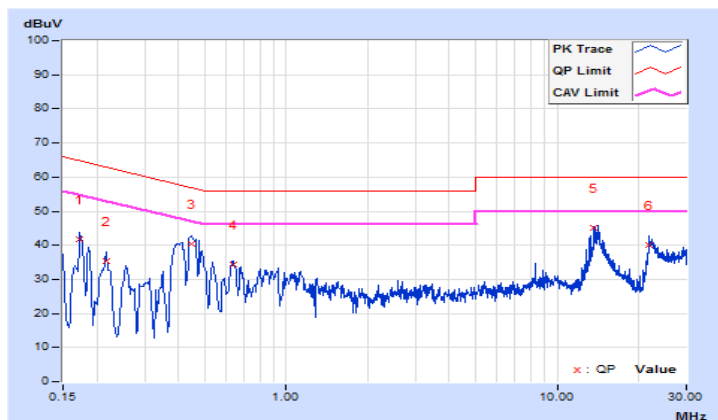
802.11b

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	0.17346	9.56	32.03	22.21	41.59	31.77	64.79	54.79	-23.20	-23.02
2	0.21621	9.55	25.91	16.74	35.46	26.29	62.96	52.96	-27.50	-26.67
3	0.44624	9.57	30.98	19.47	40.55	29.04	56.94	46.94	-16.39	-17.90
4	0.63484	9.59	24.85	16.56	34.44	26.15	56.00	46.00	-21.56	-19.85
5	13.62777	9.81	35.19	33.71	45.00	43.52	60.00	50.00	-15.00	-6.48
6	21.95998	9.83	30.18	25.71	40.01	35.54	60.00	50.00	-19.99	-14.46

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.

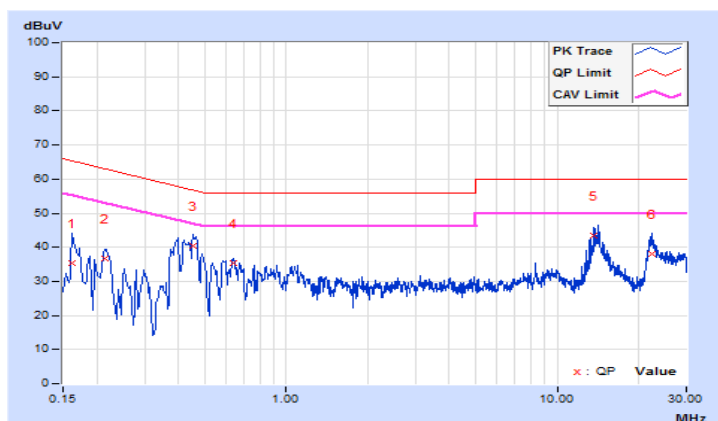


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16173	9.54	25.77	10.39	35.31	19.93	65.37	55.37	-30.06	-35.44
2	0.21508	9.53	27.10	18.42	36.63	27.95	63.01	53.01	-26.38	-25.06
3	0.45455	9.55	30.99	20.88	40.54	30.43	56.79	46.79	-16.25	-16.36
4	0.63484	9.57	25.85	17.62	35.42	27.19	56.00	46.00	-20.58	-18.81
5	13.63168	9.83	33.72	31.85	43.55	41.68	60.00	50.00	-16.45	-8.32
6	22.26105	9.89	27.99	22.65	37.88	32.54	60.00	50.00	-22.12	-17.46

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 L (External antenna – PN: ATS-OP-245-810-4RPSP-36 + Eth8 Radio) with Adaper

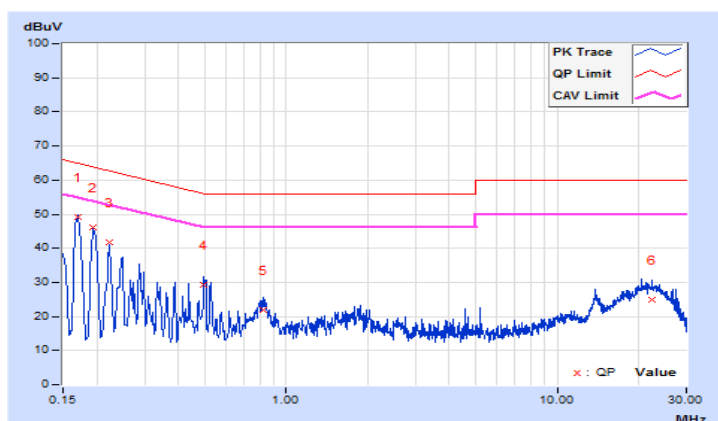
802.11b

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	0.17000	9.63	39.36	24.80	48.99	34.43	64.96	54.96	-15.97	-20.53
2	0.19400	9.62	36.37	23.21	45.99	32.83	63.86	53.86	-17.87	-21.03
3	0.22200	9.62	32.17	19.09	41.79	28.71	62.74	52.74	-20.95	-24.03
4	0.49800	9.65	19.61	11.25	29.26	20.90	56.03	46.03	-26.77	-25.13
5	0.82200	9.67	12.10	5.32	21.77	14.99	56.00	46.00	-34.23	-31.01
6	22.43800	9.91	15.04	9.50	24.95	19.41	60.00	50.00	-35.05	-30.59

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.

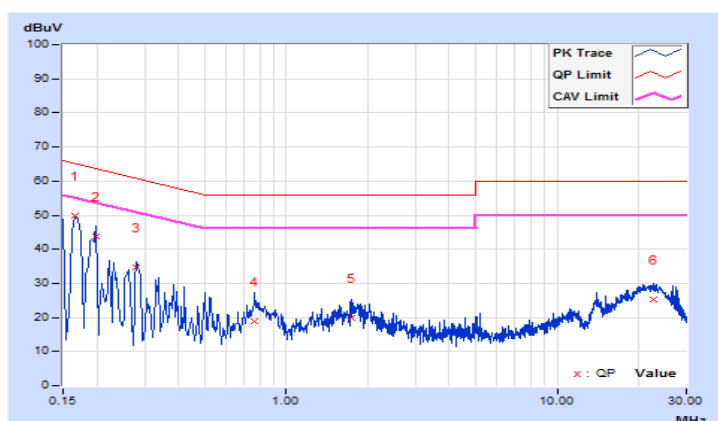


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
-------	-------------	-------------------	--------------------------------

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	0.16600	9.65	40.03	26.88	49.68	36.53	65.16	55.16	-15.48	-18.63
2	0.19800	9.64	34.03	20.17	43.67	29.81	63.69	53.69	-20.02	-23.88
3	0.27800	9.65	25.13	11.02	34.78	20.67	60.88	50.88	-26.10	-30.21
4	0.76200	9.69	9.27	3.70	18.96	13.39	56.00	46.00	-37.04	-32.61
5	1.73800	9.74	10.21	3.05	19.95	12.79	56.00	46.00	-36.05	-33.21
6	22.75400	10.04	15.07	9.67	25.11	19.71	60.00	50.00	-34.89	-30.29

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.

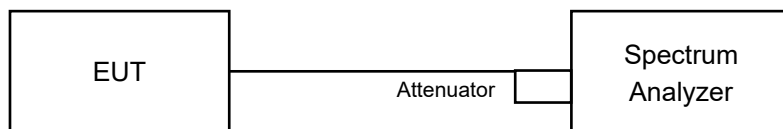


4.3 6dB Bandwidth Measurement

4.3.1 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

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

- 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.

4.3.5 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 + Eth7 Radio)

1TX

802.11b

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
1	2412	7.09	0.5	Pass
6	2437	7.56	0.5	Pass
11	2462	7.08	0.5	Pass

802.11g

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
1	2412	16.40	0.5	Pass
6	2437	16.35	0.5	Pass
11	2462	16.41	0.5	Pass

802.11ax (HE20)

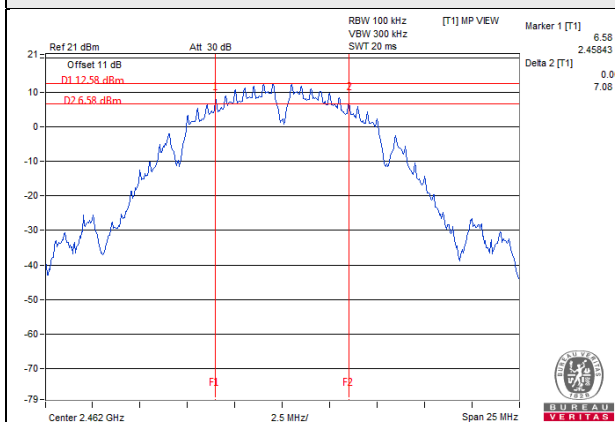
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
1	2412	17.64	0.5	Pass
6	2437	17.61	0.5	Pass
11	2462	17.64	0.5	Pass

802.11ax (HE40)

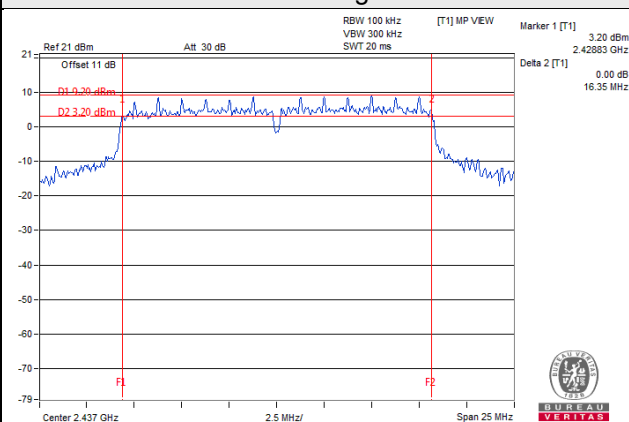
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
3	2422	36.46	0.5	Pass
6	2437	35.87	0.5	Pass
9	2452	35.74	0.5	Pass

Spectrum Plot of Worst Value

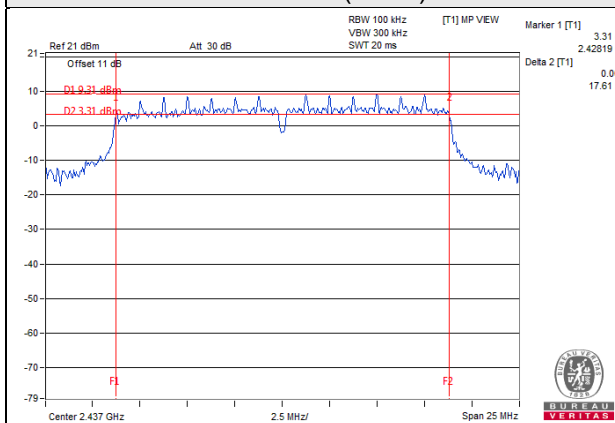
802.11b



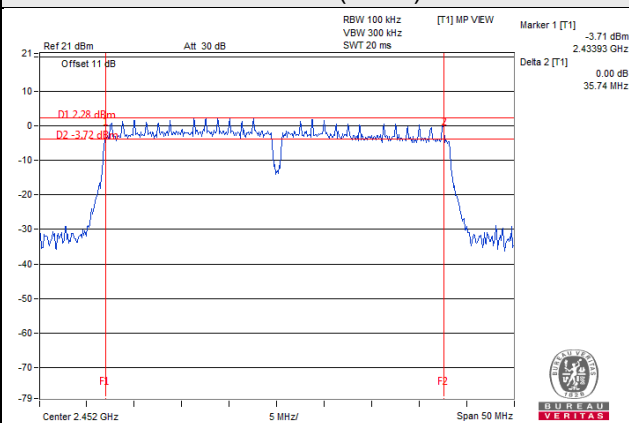
802.11g



802.11ax (HE20)



802.11ax (HE40)



Test Mode C (Internal antenna + Eth8 Radio)

1TX

802.11b

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
1	2412	7.05	0.5	Pass
6	2437	7.08	0.5	Pass
11	2462	7.11	0.5	Pass

802.11g

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
1	2412	16.10	0.5	Pass
6	2437	16.38	0.5	Pass
11	2462	16.42	0.5	Pass

802.11ax (HE20)

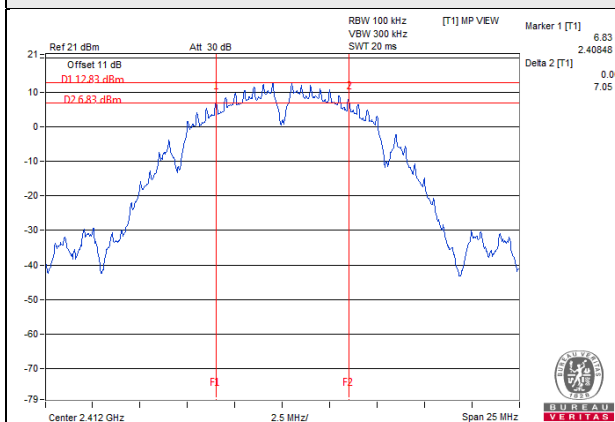
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
1	2412	16.97	0.5	Pass
6	2437	17.41	0.5	Pass
11	2462	17.62	0.5	Pass

802.11ax (HE40)

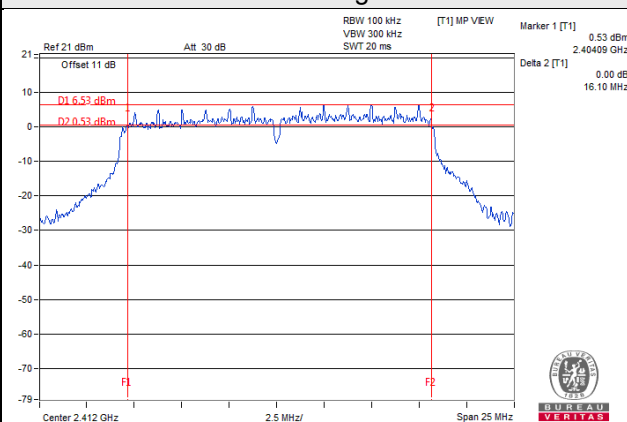
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
3	2422	35.33	0.5	Pass
6	2437	35.91	0.5	Pass
9	2452	36.47	0.5	Pass

Spectrum Plot of Worst Value

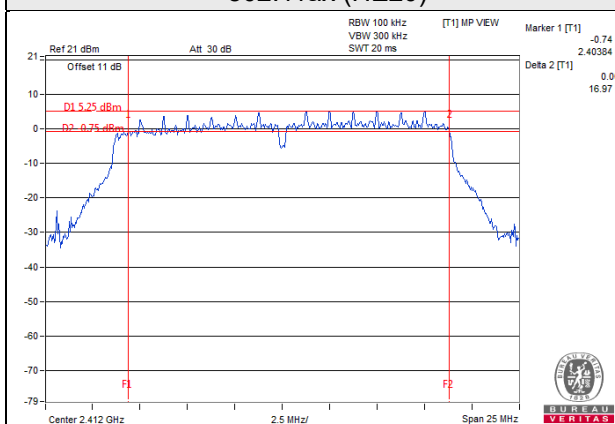
802.11b



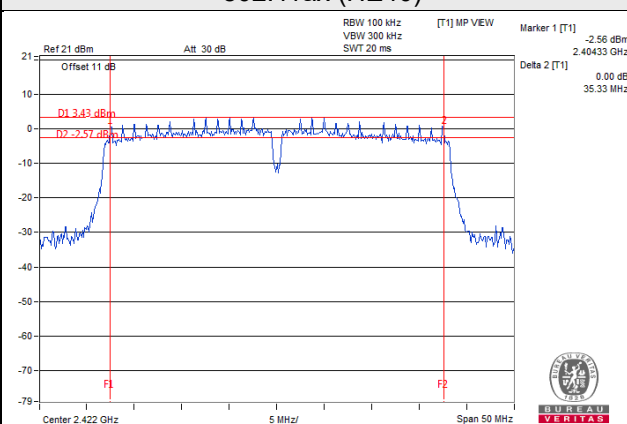
802.11g



802.11ax (HE20)



802.11ax (HE40)



2TX

802.11b

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 2	Chain 3		
1	2412	7.05	7.08	0.5	Pass
6	2437	7.08	7.09	0.5	Pass
11	2462	7.11	6.61	0.5	Pass

802.11g

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 2	Chain 3		
1	2412	16.11	16.41	0.5	Pass
6	2437	16.38	16.39	0.5	Pass
11	2462	16.35	16.38	0.5	Pass

802.11ax (HE20)

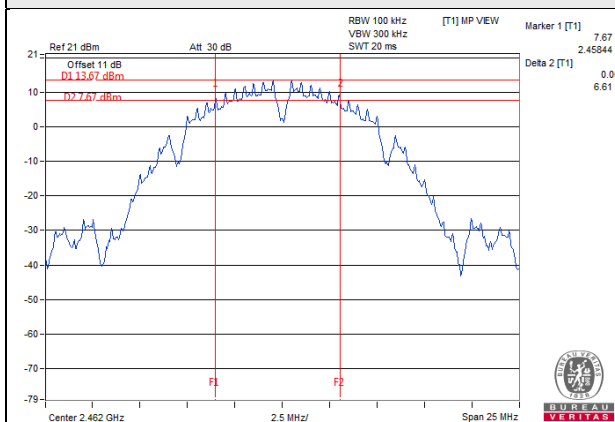
Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 2	Chain 3		
1	2412	16.44	17.01	0.5	Pass
6	2437	17.41	17.39	0.5	Pass
11	2462	17.64	17.63	0.5	Pass

802.11ax (HE40)

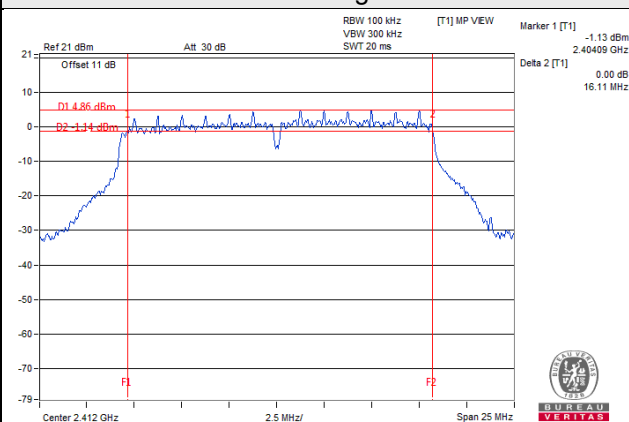
Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 2	Chain 3		
3	2422	35.32	36.50	0.5	Pass
6	2437	35.90	35.92	0.5	Pass
9	2452	36.49	35.91	0.5	Pass

Spectrum Plot of Worst Value

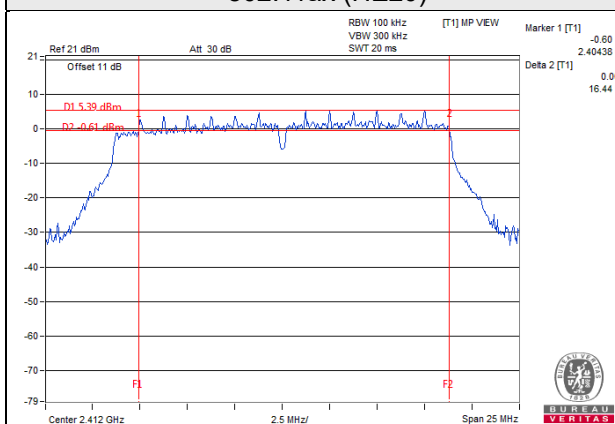
802.11b



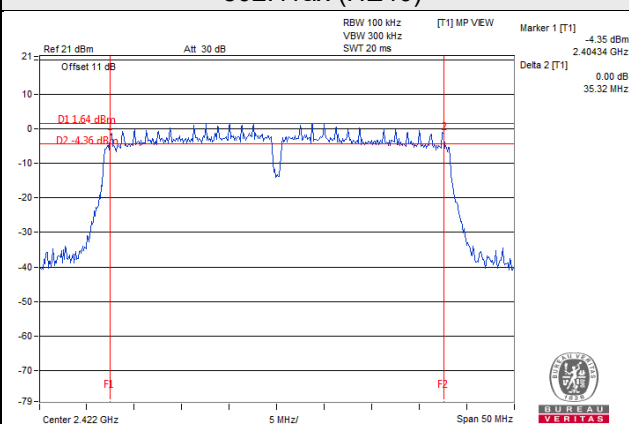
802.11g



802.11ax (HE20)



802.11ax (HE40)



3TX

802.11b

Channel	Frequency (MHz)	6dB Bandwidth (MHz)			Minimum Limit (MHz)	Pass / Fail
		Chain 1	Chain 2	Chain 3		
1	2412	7.08	7.09	7.05	0.5	Pass
6	2437	7.09	7.09	7.08	0.5	Pass
11	2462	6.61	7.07	7.11	0.5	Pass

802.11g

Channel	Frequency (MHz)	6dB Bandwidth (MHz)			Minimum Limit (MHz)	Pass / Fail
		Chain 1	Chain 2	Chain 3		
1	2412	16.41	16.42	16.11	0.5	Pass
6	2437	16.39	16.39	16.38	0.5	Pass
11	2462	16.41	16.45	16.38	0.5	Pass

802.11ax (HE20)

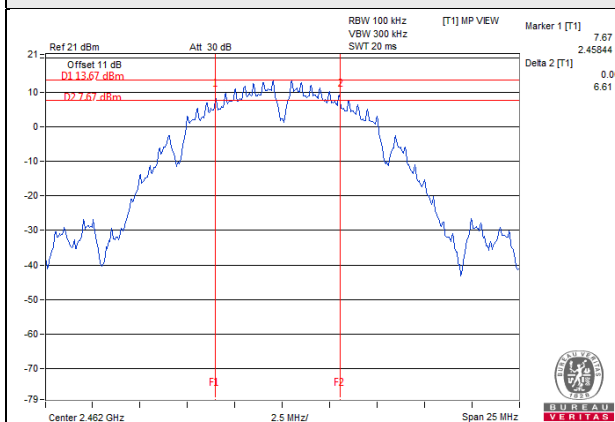
Channel	Frequency (MHz)	6dB Bandwidth (MHz)			Minimum Limit (MHz)	Pass / Fail
		Chain 1	Chain 2	Chain 3		
1	2412	17.66	17.64	16.97	0.5	Pass
6	2437	17.63	17.64	17.41	0.5	Pass
11	2462	17.67	17.67	17.63	0.5	Pass

802.11ax (HE40)

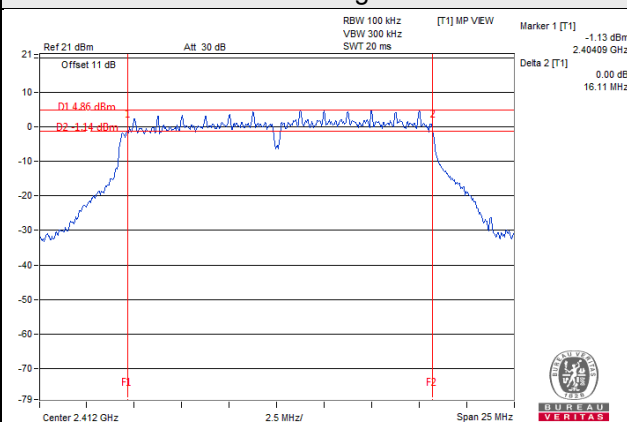
Channel	Frequency (MHz)	6dB Bandwidth (MHz)			Minimum Limit (MHz)	Pass / Fail
		Chain 1	Chain 2	Chain 3		
3	2422	36.51	36.43	35.33	0.5	Pass
6	2437	35.94	35.88	35.91	0.5	Pass
9	2452	35.91	36.46	36.49	0.5	Pass

Spectrum Plot of Worst Value

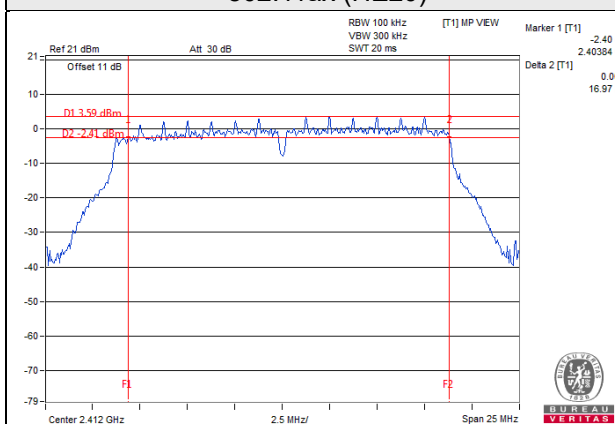
802.11b



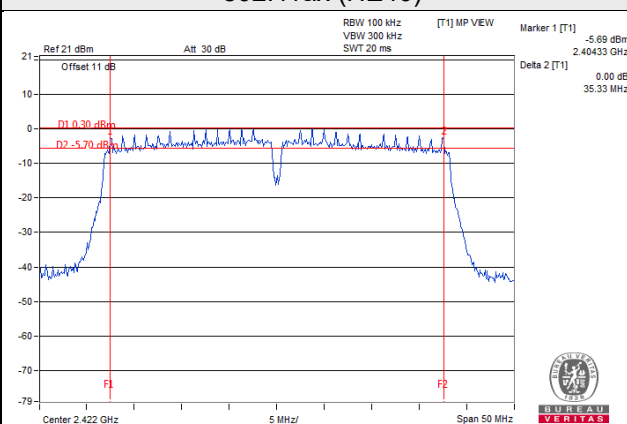
802.11g



802.11ax (HE20)



802.11ax (HE40)



Test Mode E (External antenna – PN: ATS-OO-245-46-4RPSP-36 + Eth7 Radio)

1TX

802.11b

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
1	2412	7.09	0.5	Pass
6	2437	7.11	0.5	Pass
11	2462	7.08	0.5	Pass

802.11g

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
1	2412	16.39	0.5	Pass
6	2437	16.37	0.5	Pass
11	2462	16.40	0.5	Pass

802.11ax (HE20)

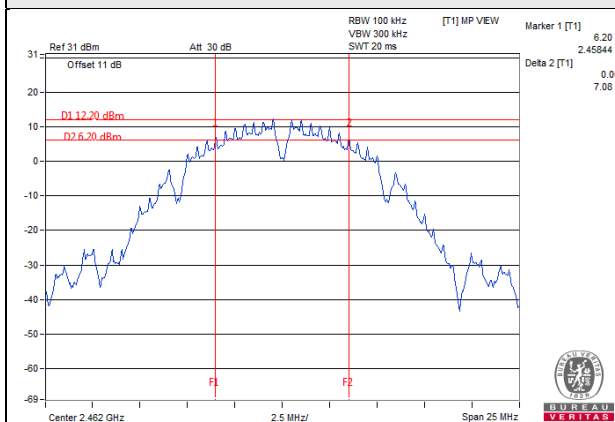
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
1	2412	19.02	0.5	Pass
6	2437	18.98	0.5	Pass
11	2462	18.89	0.5	Pass

802.11ax (HE40)

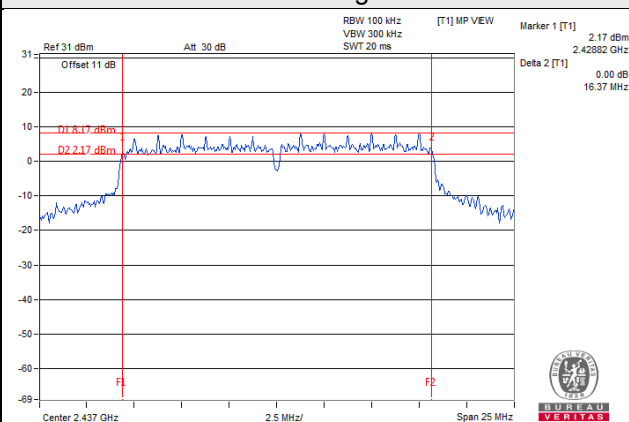
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
3	2422	36.47	0.5	Pass
6	2437	37.62	0.5	Pass
9	2452	37.42	0.5	Pass

Spectrum Plot of Worst Value

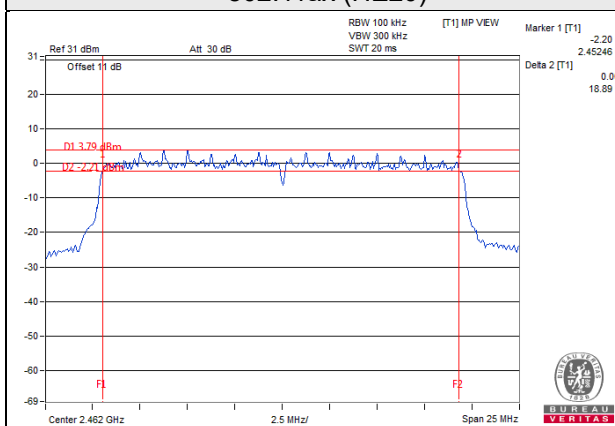
802.11b



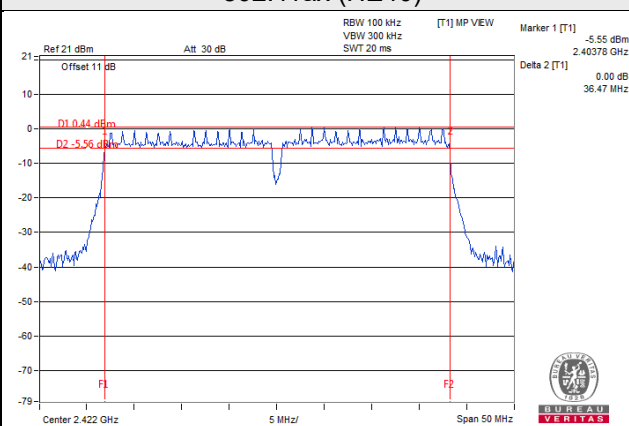
802.11g



802.11ax (HE20)



802.11ax (HE40)



Test Mode G (External antenna – PN: ATS-OO-245-46-4RPSP-36 + Eth8 Radio)

1TX

802.11b

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
1	2412	7.56	0.5	Pass
6	2437	7.54	0.5	Pass
11	2462	7.11	0.5	Pass

802.11g

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
1	2412	16.01	0.5	Pass
6	2437	16.01	0.5	Pass
11	2462	16.41	0.5	Pass

802.11ax (HE20)

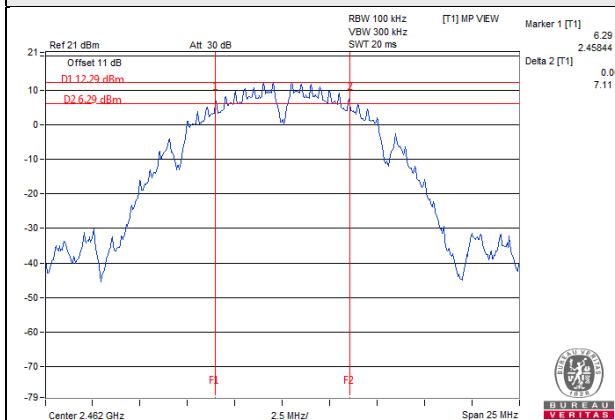
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
1	2412	16.98	0.5	Pass
6	2437	17.37	0.5	Pass
11	2462	17.63	0.5	Pass

802.11ax (HE40)

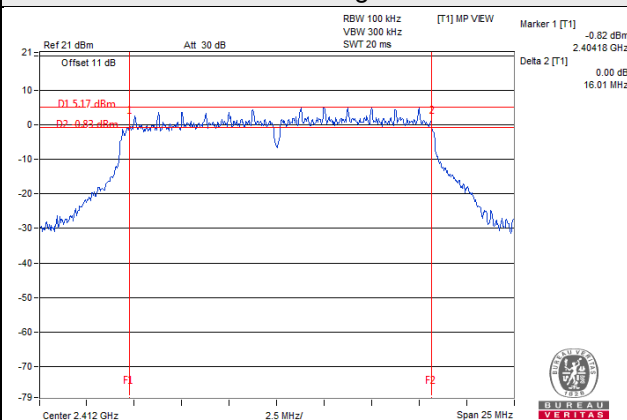
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
3	2422	35.33	0.5	Pass
6	2437	35.90	0.5	Pass
9	2452	36.49	0.5	Pass

Spectrum Plot of Worst Value

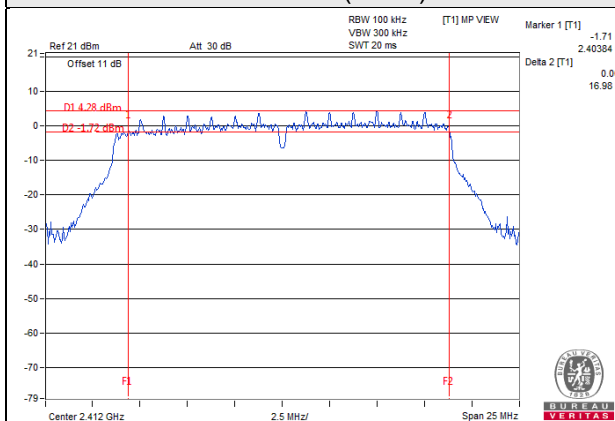
802.11b



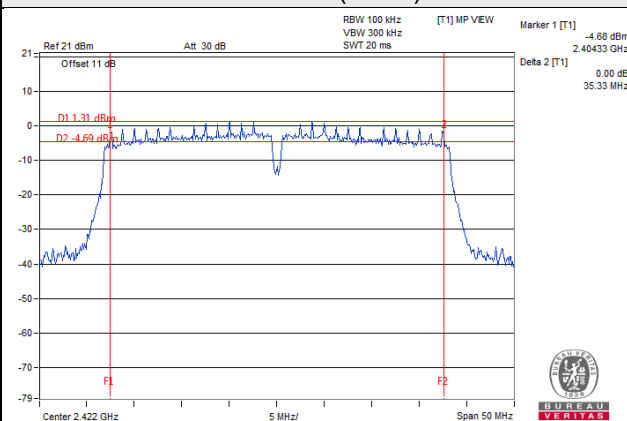
802.11g



802.11ax (HE20)



802.11ax (HE40)



2TX

802.11b

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 2	Chain 3		
1	2412	7.56	7.09	0.5	Pass
6	2437	7.54	7.55	0.5	Pass
11	2462	7.11	7.09	0.5	Pass

802.11g

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 2	Chain 3		
1	2412	16.12	16.40	0.5	Pass
6	2437	16.01	16.39	0.5	Pass
11	2462	16.42	16.43	0.5	Pass

802.11ax (HE20)

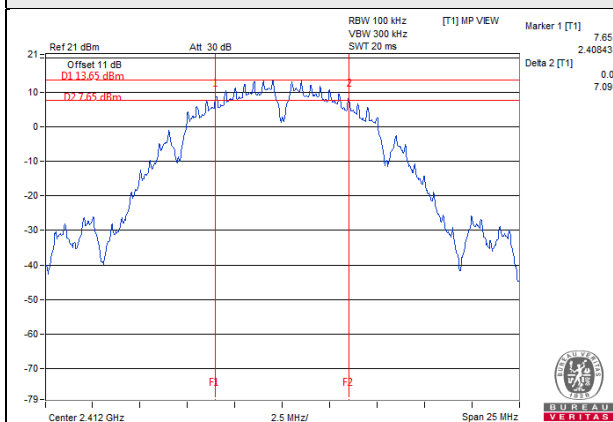
Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 2	Chain 3		
1	2412	16.63	17.67	0.5	Pass
6	2437	17.37	17.62	0.5	Pass
11	2462	17.60	17.67	0.5	Pass

802.11ax (HE40)

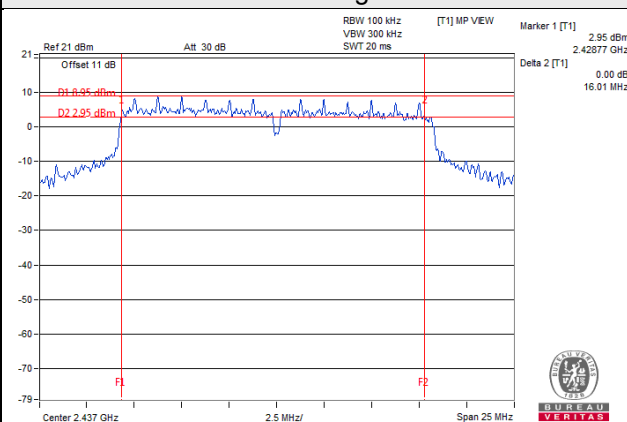
Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 2	Chain 3		
3	2422	35.23	36.50	0.5	Pass
6	2437	35.92	35.89	0.5	Pass
9	2452	36.51	35.92	0.5	Pass

Spectrum Plot of Worst Value

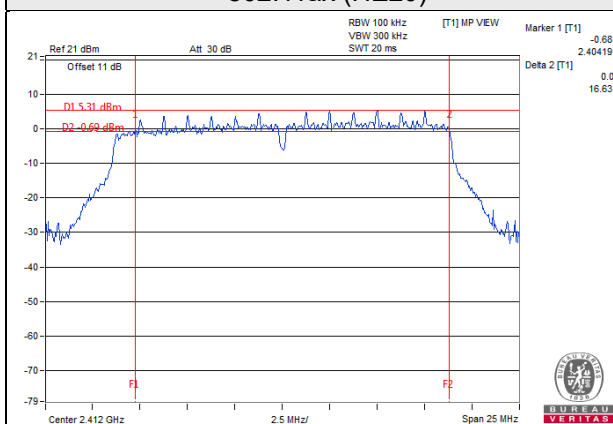
802.11b



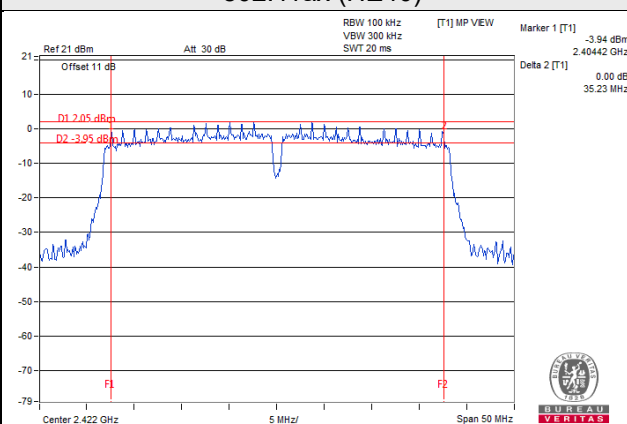
802.11g



802.11ax (HE20)



802.11ax (HE40)



3TX

802.11b

Channel	Frequency (MHz)	6dB Bandwidth (MHz)			Minimum Limit (MHz)	Pass / Fail
		Chain 1	Chain 2	Chain 3		
1	2412	7.08	7.09	7.08	0.5	Pass
6	2437	7.58	7.09	7.54	0.5	Pass
11	2462	7.07	7.09	7.11	0.5	Pass

802.11g

Channel	Frequency (MHz)	6dB Bandwidth (MHz)			Minimum Limit (MHz)	Pass / Fail
		Chain 1	Chain 2	Chain 3		
1	2412	16.39	16.41	16.03	0.5	Pass
6	2437	16.39	16.40	16.01	0.5	Pass
11	2462	16.43	16.44	16.42	0.5	Pass

802.11ax (HE20)

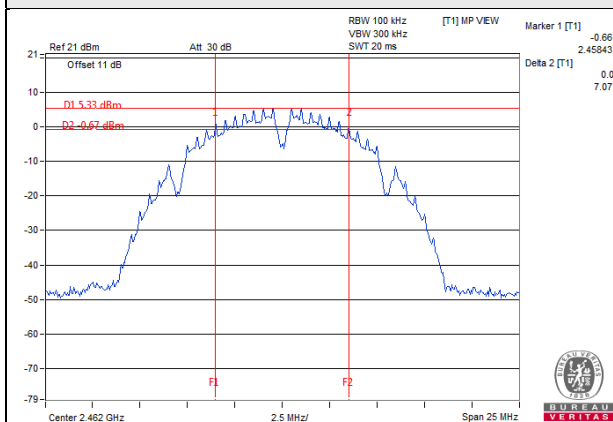
Channel	Frequency (MHz)	6dB Bandwidth (MHz)			Minimum Limit (MHz)	Pass / Fail
		Chain 1	Chain 2	Chain 3		
1	2412	17.66	17.66	16.63	0.5	Pass
6	2437	17.62	17.63	17.37	0.5	Pass
11	2462	17.67	17.67	17.63	0.5	Pass

802.11ax (HE40)

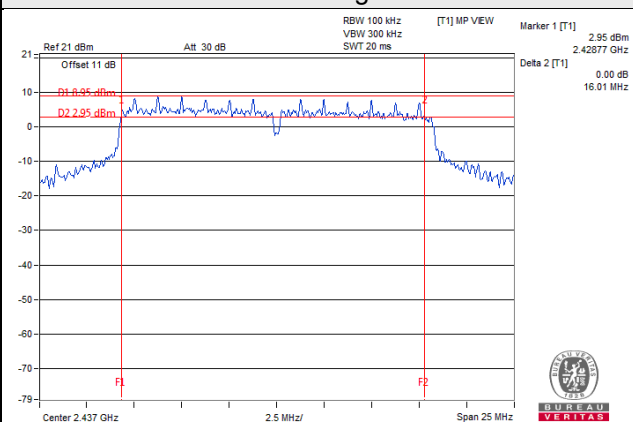
Channel	Frequency (MHz)	6dB Bandwidth (MHz)			Minimum Limit (MHz)	Pass / Fail
		Chain 1	Chain 2	Chain 3		
3	2422	36.49	36.43	35.31	0.5	Pass
6	2437	35.93	35.87	35.90	0.5	Pass
9	2452	35.92	36.46	36.51	0.5	Pass

Spectrum Plot of Worst Value

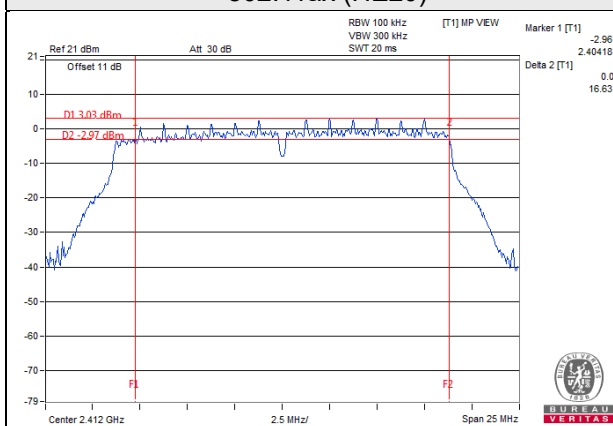
802.11b



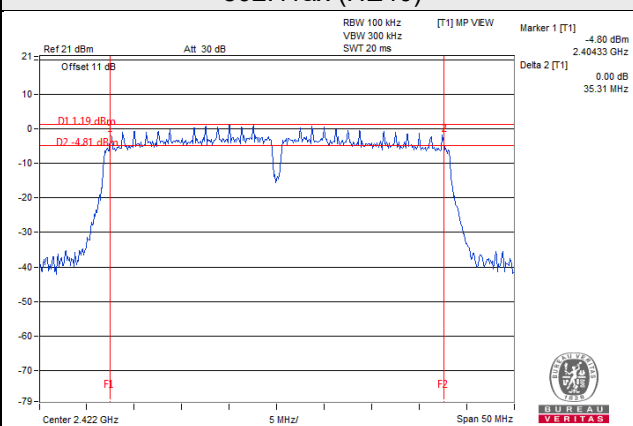
802.11g



802.11ax (HE20)



802.11ax (HE40)



Test Mode I (External antenna – PN: ATS-OP-245-810-4RPSP-36 + Eth7 Radio)

1TX

802.11b

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
1	2412	7.09	0.5	Pass
6	2437	7.11	0.5	Pass
11	2462	7.08	0.5	Pass

802.11g

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
1	2412	16.39	0.5	Pass
6	2437	16.37	0.5	Pass
11	2462	16.39	0.5	Pass

802.11ax (HE20)

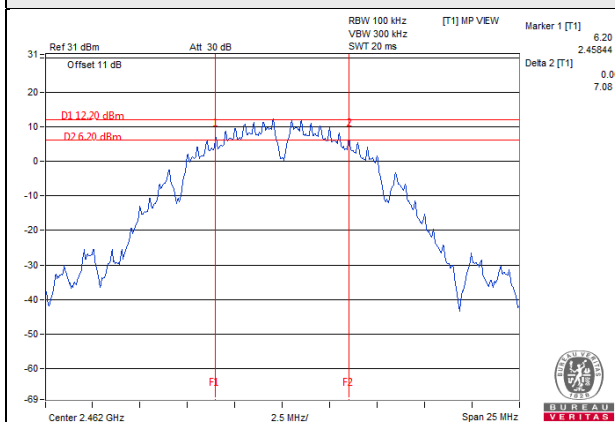
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
1	2412	17.66	0.5	Pass
6	2437	17.61	0.5	Pass
11	2462	17.60	0.5	Pass

802.11ax (HE40)

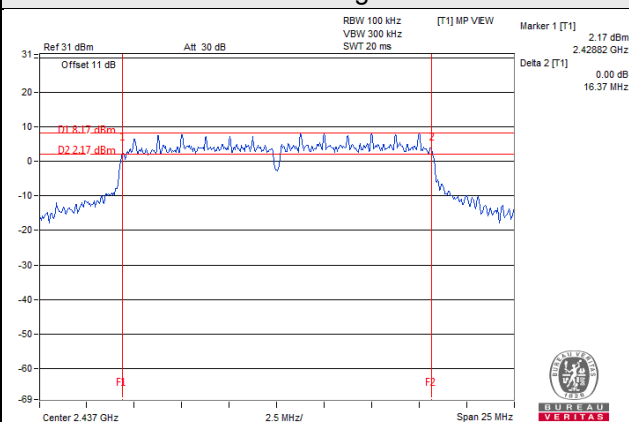
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
3	2422	36.45	0.5	Pass
6	2437	35.87	0.5	Pass
9	2452	35.74	0.5	Pass

Spectrum Plot of Worst Value

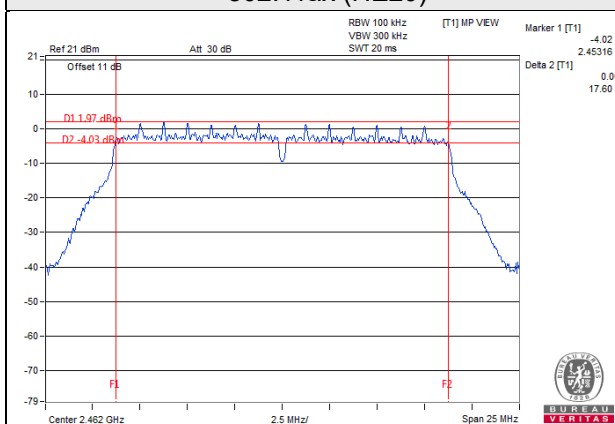
802.11b



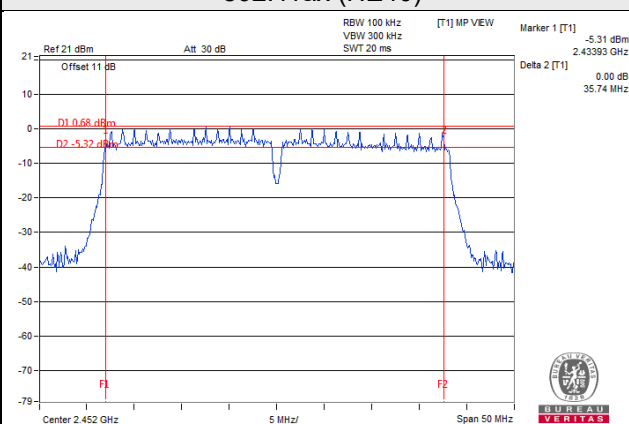
802.11g



802.11ax (HE20)



802.11ax (HE40)



2TX

802.11b

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
1	2412	7.09	7.10	0.5	Pass
6	2437	7.11	7.08	0.5	Pass
11	2462	7.08	7.07	0.5	Pass

802.11g

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
1	2412	16.39	16.39	0.5	Pass
6	2437	16.37	16.39	0.5	Pass
11	2462	16.40	16.42	0.5	Pass

802.11ax (HE20)

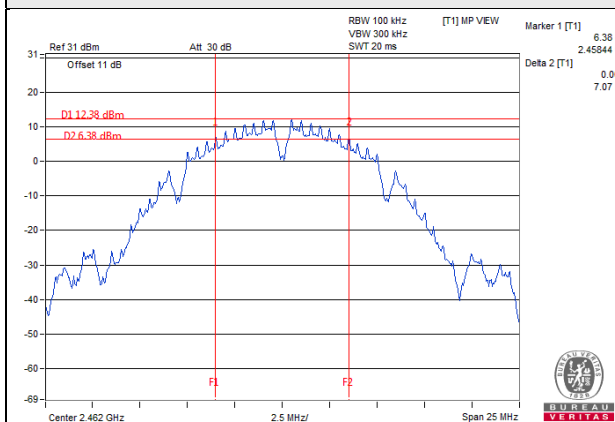
Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
1	2412	17.66	17.64	0.5	Pass
6	2437	17.62	17.62	0.5	Pass
11	2462	17.69	17.65	0.5	Pass

802.11ax (HE40)

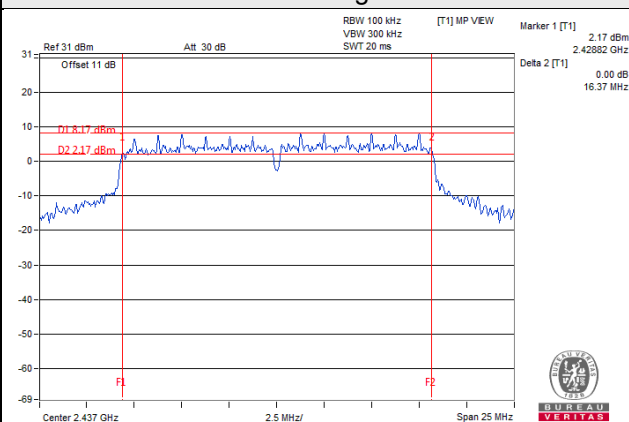
Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
3	2422	37.74	36.53	0.5	Pass
6	2437	36.20	35.87	0.5	Pass
9	2452	36.44	35.76	0.5	Pass

Spectrum Plot of Worst Value

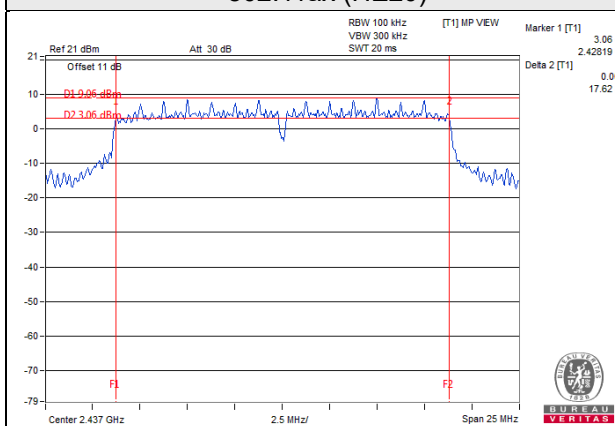
802.11b



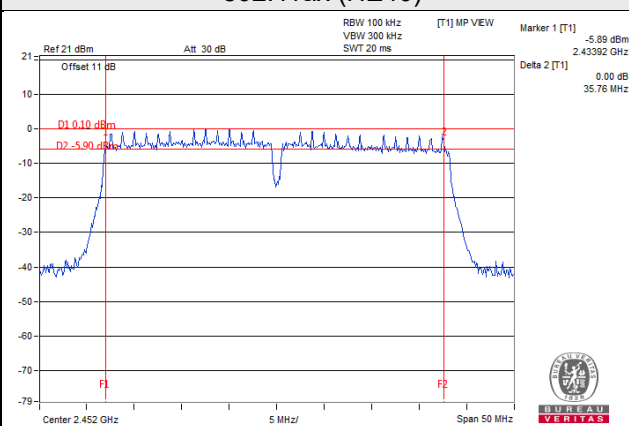
802.11g



802.11ax (HE20)



802.11ax (HE40)



Test Mode K (External antenna – PN: ATS-OP-245-810-4RPSP-36 + Eth8 Radio)

1TX

802.11b

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
1	2412	7.07	0.5	Pass
6	2437	7.12	0.5	Pass
11	2462	7.08	0.5	Pass

802.11g

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
1	2412	16.09	0.5	Pass
6	2437	16.42	0.5	Pass
11	2462	16.43	0.5	Pass

802.11ax (HE20)

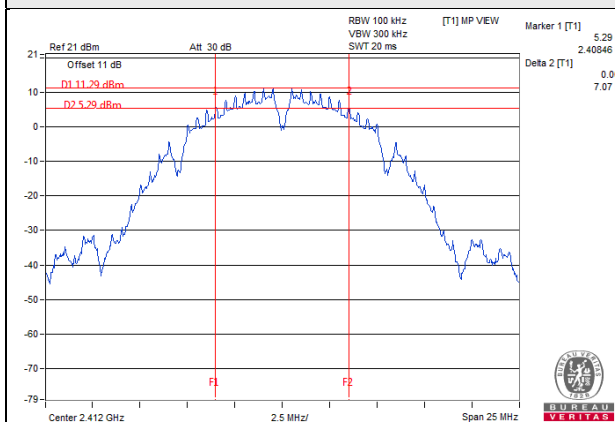
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
1	2412	16.98	0.5	Pass
6	2437	17.39	0.5	Pass
11	2462	17.64	0.5	Pass

802.11ax (HE40)

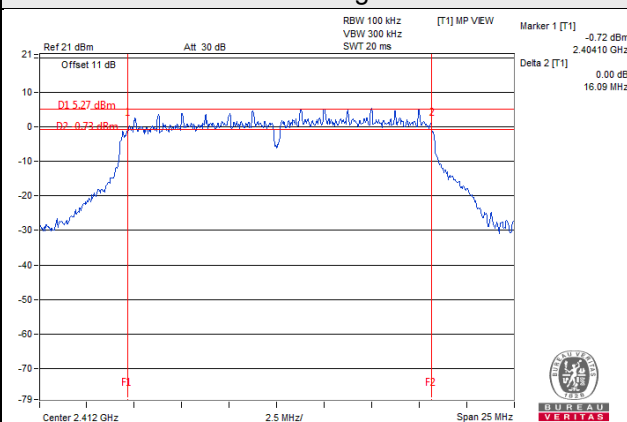
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
3	2422	35.33	0.5	Pass
6	2437	35.92	0.5	Pass
9	2452	36.51	0.5	Pass

Spectrum Plot of Worst Value

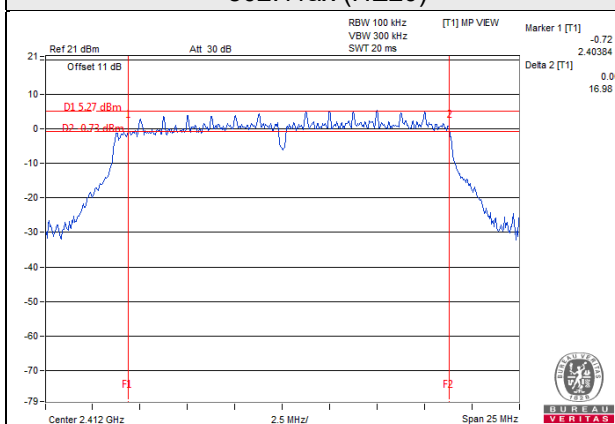
802.11b



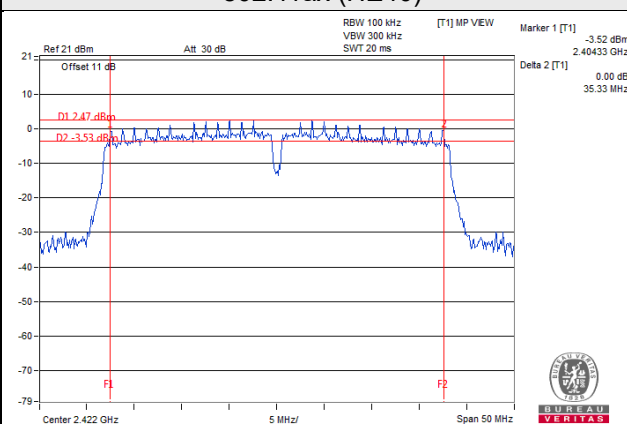
802.11g



802.11ax (HE20)



802.11ax (HE40)



2TX

802.11b

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
1	2412	7.07	7.07	0.5	Pass
6	2437	7.12	6.63	0.5	Pass
11	2462	7.08	7.08	0.5	Pass

802.11g

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
1	2412	16.11	16.40	0.5	Pass
6	2437	16.42	16.40	0.5	Pass
11	2462	16.40	16.42	0.5	Pass

802.11ax (HE20)

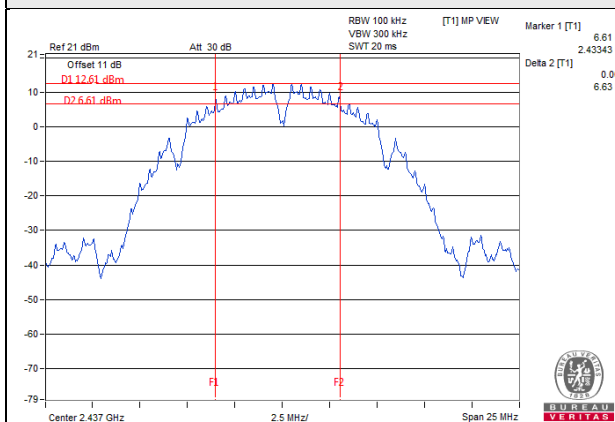
Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
1	2412	16.97	17.67	0.5	Pass
6	2437	17.39	17.63	0.5	Pass
11	2462	17.63	17.67	0.5	Pass

802.11ax (HE40)

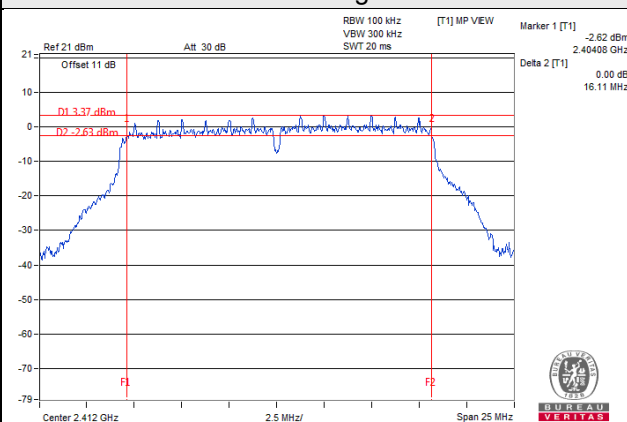
Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
3	2422	35.33	36.50	0.5	Pass
6	2437	35.91	35.93	0.5	Pass
9	2452	36.50	35.91	0.5	Pass

Spectrum Plot of Worst Value

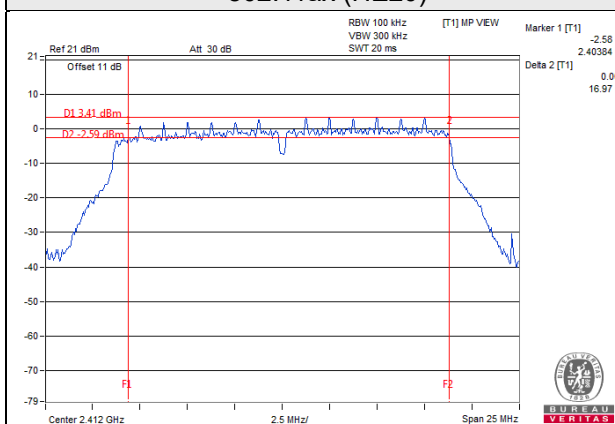
802.11b



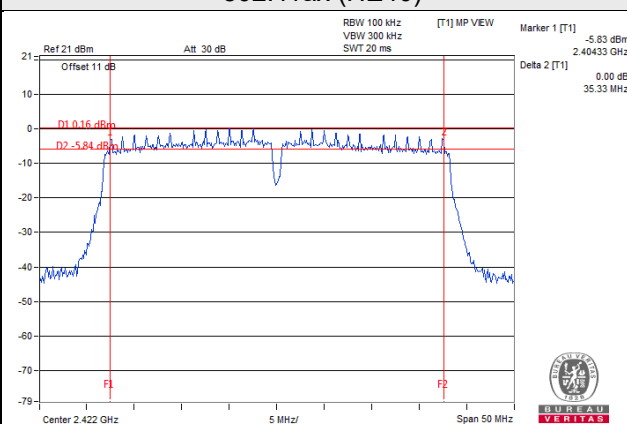
802.11g



802.11ax (HE20)



802.11ax (HE40)



3TX

802.11b

Channel	Frequency (MHz)	6dB Bandwidth (MHz)			Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2		
1	2412	7.07	7.07	7.56	0.5	Pass
6	2437	7.12	6.63	7.10	0.5	Pass
11	2462	7.08	7.08	7.08	0.5	Pass

802.11g

Channel	Frequency (MHz)	6dB Bandwidth (MHz)			Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2		
1	2412	16.10	16.39	16.38	0.5	Pass
6	2437	16.42	16.40	16.38	0.5	Pass
11	2462	16.40	16.43	16.45	0.5	Pass

802.11ax (HE20)

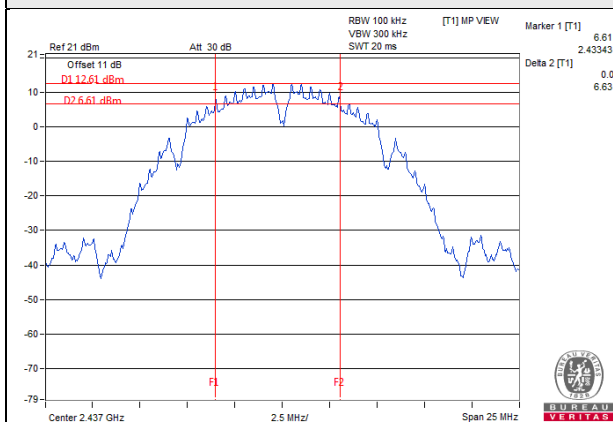
Channel	Frequency (MHz)	6dB Bandwidth (MHz)			Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2		
1	2412	16.97	17.67	17.65	0.5	Pass
6	2437	17.38	17.63	17.64	0.5	Pass
11	2462	17.63	17.66	17.67	0.5	Pass

802.11ax (HE40)

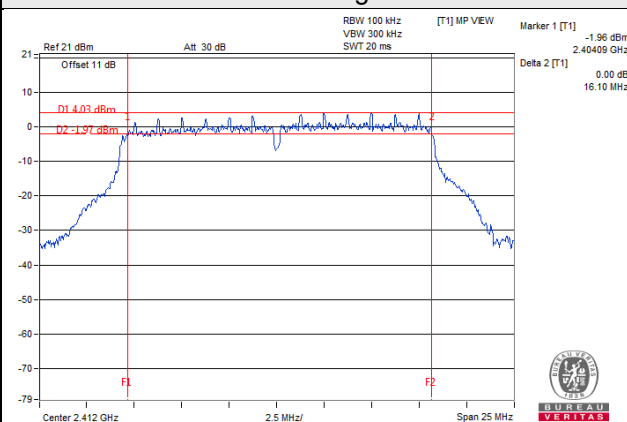
Channel	Frequency (MHz)	6dB Bandwidth (MHz)			Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2		
3	2422	35.32	36.51	36.43	0.5	Pass
6	2437	35.92	35.93	35.87	0.5	Pass
9	2452	36.51	35.92	36.46	0.5	Pass

Spectrum Plot of Worst Value

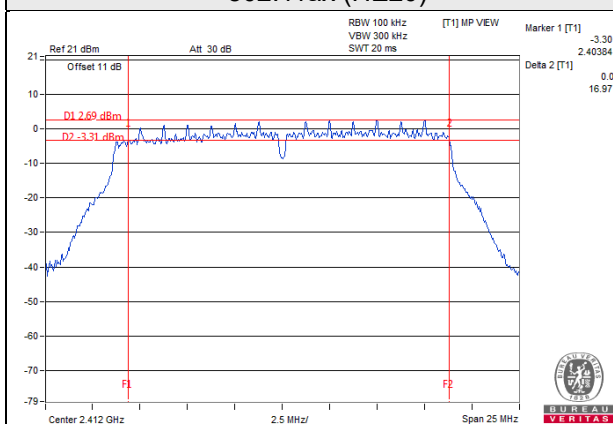
802.11b



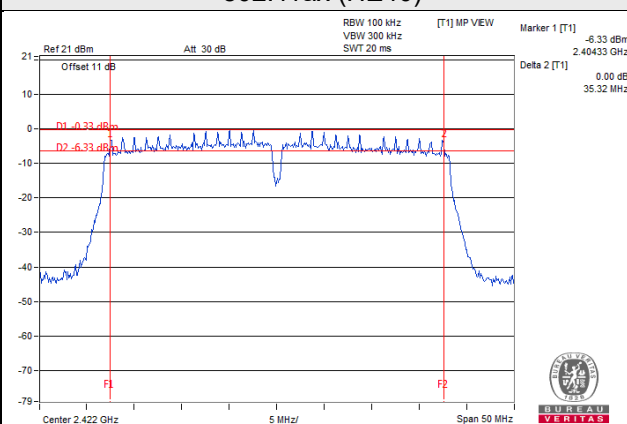
802.11g



802.11ax (HE20)



802.11ax (HE40)



4TX

802.11b

Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
1	2412	7.07	7.07	7.56	6.59	0.5	Pass
6	2437	7.12	6.63	7.10	7.07	0.5	Pass
11	2462	7.08	7.08	7.08	7.05	0.5	Pass

802.11g

Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
1	2412	16.40	16.43	16.39	16.13	0.5	Pass
6	2437	16.42	16.40	16.38	16.38	0.5	Pass
11	2462	16.41	16.45	16.41	16.40	0.5	Pass

802.11ax (HE20)

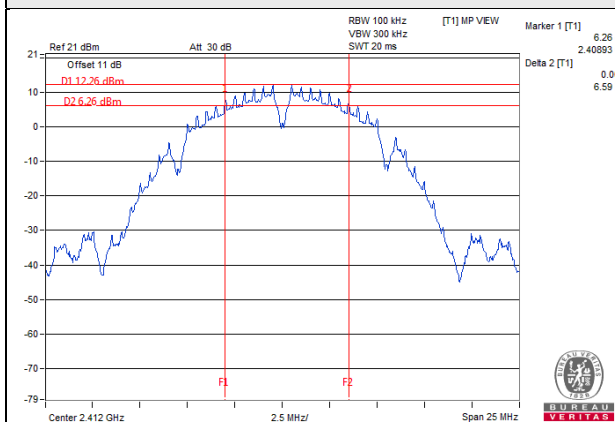
Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
1	2412	17.63	17.64	17.67	16.72	0.5	Pass
6	2437	17.67	17.63	17.63	17.42	0.5	Pass
11	2462	17.64	17.67	17.66	17.64	0.5	Pass

802.11ax (HE40)

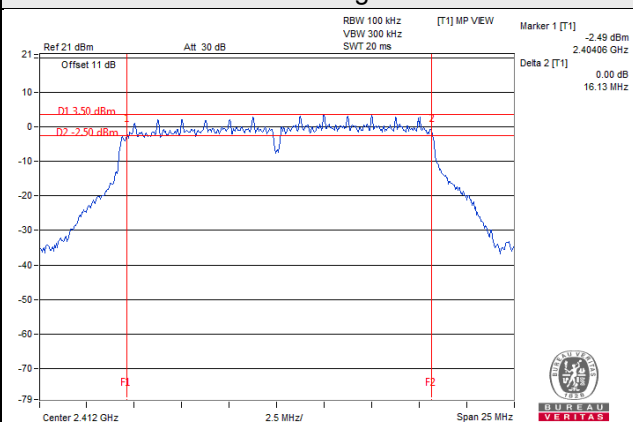
Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
3	2422	35.87	36.43	36.50	35.31	0.5	Pass
6	2437	36.50	35.88	35.95	35.93	0.5	Pass
9	2452	35.89	36.46	35.91	36.50	0.5	Pass

Spectrum Plot of Worst Value

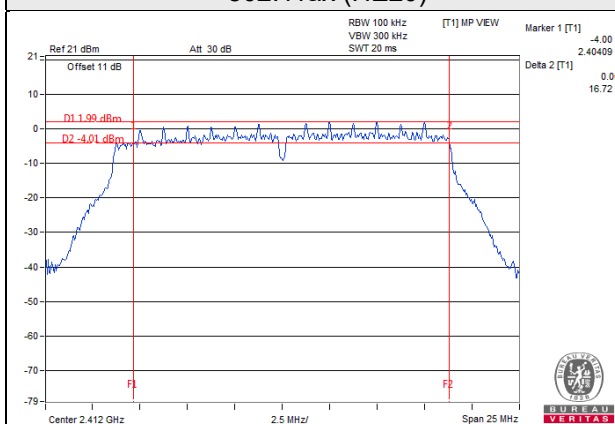
802.11b



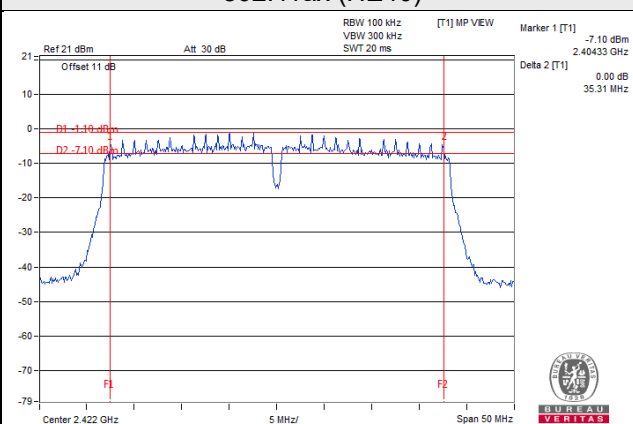
802.11g



802.11ax (HE20)



802.11ax (HE40)



4.4 Conducted Output Power Measurement

4.4.1 Limits of Conducted Output Power Measurement

For systems using digital modulation in the 2400–2483.5 MHz bands: 1 Watt (30dBm)

Per KDB 662911 D01 Multiple Transmitter Output 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.

4.4.2 Test Setup



4.4.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.4.4 Test Procedures

Average power sensor was used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst. Duty factor is not added to measured value.

4.4.5 Deviation from Test Standard

No deviation.

4.4.6 EUT Operating Conditions

Same as item 4.3.6.

4.4.7 Test Results

Test Mode A (Internal antenna + Eth7 Radio)

1TX (CDD Mode)

802.11b

Channel	Frequency (MHz)	Average Power (mW)	Average Power (dBm)	Limit (dBm)	Pass / Fail
1	2412	80.724	19.07	30.00	Pass
6	2437	82.794	19.18	30.00	Pass
11	2462	80.910	19.08	30.00	Pass

802.11g

Channel	Frequency (MHz)	Average Power (mW)	Average Power (dBm)	Limit (dBm)	Pass / Fail
1	2412	33.343	15.23	30.00	Pass
6	2437	80.538	19.06	30.00	Pass
11	2462	28.054	14.48	30.00	Pass

802.11ax (HE20)

Channel	Frequency (MHz)	Average Power (mW)	Average Power (dBm)	Limit (dBm)	Pass / Fail
1	2412	31.117	14.93	30.00	Pass
6	2437	82.224	19.15	30.00	Pass
11	2462	30.200	14.80	30.00	Pass

802.11ax (HE40)

Channel	Frequency (MHz)	Average Power (mW)	Average Power (dBm)	Limit (dBm)	Pass / Fail
3	2422	36.813	15.66	30.00	Pass
6	2437	39.355	15.95	30.00	Pass
9	2452	25.293	14.03	30.00	Pass

Test Mode C (Internal antenna + Eth8 Radio)

1TX (CDD Mode)

802.11b

Channel	Frequency (MHz)	Average Power (mW)	Average Power (dBm)	Limit (dBm)	Pass / Fail
1	2412	83.560	19.22	30.00	Pass
6	2437	83.753	19.23	30.00	Pass
11	2462	85.507	19.32	30.00	Pass

802.11g

Channel	Frequency (MHz)	Average Power (mW)	Average Power (dBm)	Limit (dBm)	Pass / Fail
1	2412	50.466	17.03	30.00	Pass
6	2437	78.163	18.93	30.00	Pass
11	2462	39.537	15.97	30.00	Pass

802.11ax (HE20)

Channel	Frequency (MHz)	Average Power (mW)	Average Power (dBm)	Limit (dBm)	Pass / Fail
1	2412	44.361	16.47	30.00	Pass
6	2437	83.753	19.23	30.00	Pass
11	2462	24.831	13.95	30.00	Pass

802.11ax (HE40)

Channel	Frequency (MHz)	Average Power (mW)	Average Power (dBm)	Limit (dBm)	Pass / Fail
3	2422	42.462	16.28	30.00	Pass
6	2437	57.148	17.57	30.00	Pass
9	2452	39.994	16.02	30.00	Pass

2TX (CDD Mode)

802.11b

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 2	Chain 3				
1	2412	20.46	20.69	228.393	23.59	30.00	Pass
6	2437	20.45	20.58	225.205	23.53	30.00	Pass
11	2462	20.46	20.55	224.674	23.52	30.00	Pass

802.11g

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 2	Chain 3				
1	2412	15.78	15.93	77.018	18.87	30.00	Pass
6	2437	20.18	20.33	212.127	23.27	30.00	Pass
11	2462	16.50	16.55	89.854	19.54	30.00	Pass

802.11ax (HE20)

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 2	Chain 3				
1	2412	16.65	16.71	93.119	19.69	30.00	Pass
6	2437	20.19	20.41	214.373	23.31	30.00	Pass
11	2462	14.41	14.32	54.646	17.38	30.00	Pass

802.11ax (HE40)

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 2	Chain 3				
3	2422	15.57	15.31	70.021	18.45	30.00	Pass
6	2437	17.33	17.20	106.556	20.28	30.00	Pass
9	2452	14.92	14.95	62.307	17.95	30.00	Pass

2TX (Beamforming Mode)

802.11ax (HE20)

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 2	Chain 3				
1	2412	16.65	16.71	93.119	19.69	28.84	Pass
6	2437	20.19	20.41	214.373	23.31	28.84	Pass
11	2462	14.41	14.32	54.646	17.38	28.84	Pass

Note: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 7.16\text{dBi} > 6\text{dBi}$, so the power limit shall be reduced to $30-(7.16-6) = 28.84\text{dBm}$.

802.11ax (HE40)

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 2	Chain 3				
3	2422	15.57	15.31	70.021	18.45	28.84	Pass
6	2437	17.33	17.20	106.556	20.28	28.84	Pass
9	2452	14.92	14.95	62.307	17.95	28.84	Pass

Note: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 7.16\text{dBi} > 6\text{dBi}$, so the power limit shall be reduced to $30-(7.16-6) = 28.84\text{dBm}$.

3TX (CDD Mode)

802.11b

Channel	Frequency (MHz)	Average Power (dBm)			Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 1	Chain 2	Chain 3				
1	2412	20.45	20.66	20.42	337.484	25.28	30.00	Pass
6	2437	20.43	20.55	20.31	331.308	25.20	30.00	Pass
11	2462	20.44	20.59	20.32	332.860	25.22	30.00	Pass

802.11g

Channel	Frequency (MHz)	Average Power (dBm)			Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 1	Chain 2	Chain 3				
1	2412	16.12	16.23	16.01	122.804	20.89	30.00	Pass
6	2437	20.21	20.35	20.01	313.578	24.96	30.00	Pass
11	2462	15.23	15.02	15.09	97.397	19.89	30.00	Pass

802.11ax (HE20)

Channel	Frequency (MHz)	Average Power (dBm)			Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 1	Chain 2	Chain 3				
1	2412	15.11	15.02	14.89	95.035	19.78	30.00	Pass
6	2437	20.01	20.19	20.20	309.416	24.91	30.00	Pass
11	2462	14.56	13.89	13.80	77.055	18.87	30.00	Pass

802.11ax (HE40)

Channel	Frequency (MHz)	Average Power (dBm)			Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 1	Chain 2	Chain 3				
3	2422	14.55	14.14	14.36	81.742	19.12	30.00	Pass
6	2437	16.02	16.11	15.91	119.820	20.79	30.00	Pass
9	2452	14.89	15.22	15.17	96.983	19.87	30.00	Pass

3TX (Beamforming Mode)

802.11ax (HE20)

Channel	Frequency (MHz)	Average Power (dBm)			Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 1	Chain 2	Chain 3				
1	2412	15.11	15.02	14.89	95.035	19.78	27.41	Pass
6	2437	20.01	20.19	20.20	309.416	24.91	27.41	Pass
11	2462	14.56	13.89	13.80	77.055	18.87	27.41	Pass

Note: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/3] = 8.59\text{dBi} > 6\text{dBi}$, so the power limit shall be reduced to $30-(8.59-6) = 27.41\text{dBm}$.

802.11ax (HE40)

Channel	Frequency (MHz)	Average Power (dBm)			Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 1	Chain 2	Chain 3				
3	2422	14.55	14.14	14.36	81.742	19.12	27.41	Pass
6	2437	16.02	16.11	15.91	119.820	20.79	27.41	Pass
9	2452	14.89	15.22	15.17	96.983	19.87	27.41	Pass

Note: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/3] = 8.59\text{dBi} > 6\text{dBi}$, so the power limit shall be reduced to $30-(8.59-6) = 27.41\text{dBm}$.

Test Mode E (External antenna – PN: ATS-OO-245-46-4RPSP-36 + Eth7 Radio)

1TX (CDD Mode)

802.11b

Channel	Frequency (MHz)	Average Power (mW)	Average Power (dBm)	Limit (dBm)	Pass / Fail
1	2412	80.724	19.07	30.00	Pass
6	2437	82.794	19.18	30.00	Pass
11	2462	80.910	19.08	30.00	Pass

802.11g

Channel	Frequency (MHz)	Average Power (mW)	Average Power (dBm)	Limit (dBm)	Pass / Fail
1	2412	33.343	15.23	30.00	Pass
6	2437	80.538	19.06	30.00	Pass
11	2462	28.054	14.48	30.00	Pass

802.11ax (HE20)

Channel	Frequency (MHz)	Average Power (mW)	Average Power (dBm)	Limit (dBm)	Pass / Fail
1	2412	31.117	14.93	30.00	Pass
6	2437	82.224	19.15	30.00	Pass
11	2462	30.200	14.80	30.00	Pass

802.11ax (HE40)

Channel	Frequency (MHz)	Average Power (mW)	Average Power (dBm)	Limit (dBm)	Pass / Fail
3	2422	36.813	15.66	30.00	Pass
6	2437	39.355	15.95	30.00	Pass
9	2452	25.293	14.03	30.00	Pass

Test Mode G (External antenna – PN: ATS-OO-245-46-4RPSP-36 + Eth8 Radio)

1TX (CDD Mode)

802.11b

Channel	Frequency (MHz)	Average Power (mW)	Average Power (dBm)	Limit (dBm)	Pass / Fail
1	2412	83.560	19.22	30.00	Pass
6	2437	83.753	19.23	30.00	Pass
11	2462	85.507	19.32	30.00	Pass

802.11g

Channel	Frequency (MHz)	Average Power (mW)	Average Power (dBm)	Limit (dBm)	Pass / Fail
1	2412	50.466	17.03	30.00	Pass
6	2437	78.163	18.93	30.00	Pass
11	2462	39.537	15.97	30.00	Pass

802.11ax (HE20)

Channel	Frequency (MHz)	Average Power (mW)	Average Power (dBm)	Limit (dBm)	Pass / Fail
1	2412	44.361	16.47	30.00	Pass
6	2437	83.753	19.23	30.00	Pass
11	2462	24.831	13.95	30.00	Pass

802.11ax (HE40)

Channel	Frequency (MHz)	Average Power (mW)	Average Power (dBm)	Limit (dBm)	Pass / Fail
3	2422	42.462	16.28	30.00	Pass
6	2437	57.148	17.57	30.00	Pass
9	2452	39.994	16.02	30.00	Pass

2TX (CDD Mode)

802.11b

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 2	Chain 3				
1	2412	19.22	19.63	175.393	22.44	30.00	Pass
6	2437	19.23	19.70	177.078	22.48	30.00	Pass
11	2462	19.32	19.69	178.618	22.52	30.00	Pass

802.11g

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 2	Chain 3				
1	2412	16.07	16.59	86.062	19.35	30.00	Pass
6	2437	18.93	19.38	164.859	22.17	30.00	Pass
11	2462	15.58	15.72	73.466	18.66	30.00	Pass

802.11ax (HE20)

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 2	Chain 3				
1	2412	17.25	17.65	111.298	20.46	30.00	Pass
6	2437	19.23	18.88	161.021	22.07	30.00	Pass
11	2462	14.62	14.92	60.019	17.78	30.00	Pass

802.11ax (HE40)

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 2	Chain 3				
3	2422	16.64	16.87	94.773	19.77	30.00	Pass
6	2437	18.04	18.09	128.097	21.08	30.00	Pass
9	2452	15.58	15.50	71.622	18.55	30.00	Pass

2TX (Beamforming Mode)

802.11ax (HE20)

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 2	Chain 3				
1	2412	17.25	17.65	111.298	20.46	28.99	Pass
6	2437	19.23	18.88	161.021	22.07	28.99	Pass
11	2462	14.62	14.92	60.019	17.78	28.99	Pass

Note: Directional gain = $4\text{dBi} + 10\log(2) = 7.01\text{dBi} > 6\text{dBi}$, so the power limit shall be reduced to $30 - (7.01 - 6) = 28.99\text{dBm}$.

802.11ax (HE40)

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 2	Chain 3				
3	2422	16.64	16.87	94.773	19.77	28.99	Pass
6	2437	18.04	18.09	128.097	21.08	28.99	Pass
9	2452	15.58	15.50	71.622	18.55	28.99	Pass

Note: Directional gain = $4\text{dBi} + 10\log(2) = 7.01\text{dBi} > 6\text{dBi}$, so the power limit shall be reduced to $30 - (7.01 - 6) = 28.99\text{dBm}$.

3TX (CDD Mode)

802.11b

Channel	Frequency (MHz)	Average Power (dBm)			Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 1	Chain 2	Chain 3				
1	2412	16.67	17.34	17.09	151.820	21.81	30.00	Pass
6	2437	13.06	13.20	13.12	61.635	17.90	30.00	Pass
11	2462	13.09	13.80	13.05	64.542	18.10	30.00	Pass

802.11g

Channel	Frequency (MHz)	Average Power (dBm)			Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 1	Chain 2	Chain 3				
1	2412	17.05	17.56	17.65	165.925	22.20	30.00	Pass
6	2437	18.93	19.38	18.97	243.745	23.87	30.00	Pass
11	2462	15.44	16.19	16.06	116.951	20.68	30.00	Pass

802.11ax (HE20)

Channel	Frequency (MHz)	Average Power (dBm)			Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 1	Chain 2	Chain 3				
1	2412	15.19	15.54	15.61	105.239	20.22	30.00	Pass
6	2437	19.23	18.88	18.92	239.004	23.78	30.00	Pass
11	2462	13.61	13.84	13.60	70.080	18.46	30.00	Pass

802.11ax (HE40)

Channel	Frequency (MHz)	Average Power (dBm)			Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 1	Chain 2	Chain 3				
3	2422	16.11	15.96	15.90	119.183	20.76	30.00	Pass
6	2437	17.42	17.59	17.47	168.467	22.27	30.00	Pass
9	2452	16.39	16.05	16.10	124.561	20.95	30.00	Pass

3TX (Beamforming Mode)

802.11ax (HE20)

Channel	Frequency (MHz)	Average Power (dBm)			Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 1	Chain 2	Chain 3				
1	2412	15.19	15.54	15.61	105.239	20.22	27.23	Pass
6	2437	19.23	18.88	18.92	239.004	23.78	27.23	Pass
11	2462	13.61	13.84	13.60	70.0800	18.46	27.23	Pass

Note: Directional gain = $4\text{dBi} + 10\log(3) = 8.77\text{dBi} > 6\text{dBi}$, so the power limit shall be reduced to $30 - (8.77 - 6) = 27.23\text{dBm}$.

802.11ax (HE40)

Channel	Frequency (MHz)	Average Power (dBm)			Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 1	Chain 2	Chain 3				
1	2412	16.11	15.96	15.90	119.183	20.76	27.23	Pass
6	2437	17.42	17.59	17.47	168.467	22.27	27.23	Pass
11	2462	16.39	16.05	16.10	124.561	20.95	27.23	Pass

Note: Directional gain = $4\text{dBi} + 10\log(3) = 8.77\text{dBi} > 6\text{dBi}$, so the power limit shall be reduced to $30 - (8.77 - 6) = 27.23\text{dBm}$.

Test Mode I (External antenna – PN: ATS-OP-245-810-4RPSP-36 + Eth7 Radio)

1TX (CDD Mode)

802.11b

Channel	Frequency (MHz)	Average Power (mW)	Average Power (dBm)	Limit (dBm)	Pass / Fail
1	2412	80.724	19.07	28.00	Pass
6	2437	82.794	19.18	28.00	Pass
11	2462	80.910	19.08	28.00	Pass

Note: Gain = 8dBi > 6dBi, so the power limit shall be reduced to $30-(8-6) = 28.00\text{dBm}$.

802.11g

Channel	Frequency (MHz)	Average Power (mW)	Average Power (dBm)	Limit (dBm)	Pass / Fail
1	2412	44.771	16.51	28.00	Pass
6	2437	80.538	19.06	28.00	Pass
11	2462	30.761	14.88	28.00	Pass

Note: Gain = 8dBi > 6dBi, so the power limit shall be reduced to $30-(8-6) = 28.00\text{dBm}$.

802.11ax (HE20)

Channel	Frequency (MHz)	Average Power (mW)	Average Power (dBm)	Limit (dBm)	Pass / Fail
1	2412	30.549	14.85	28.00	Pass
6	2437	82.224	19.15	28.00	Pass
11	2462	20.137	13.04	28.00	Pass

Note: Gain = 8dBi > 6dBi, so the power limit shall be reduced to $30-(8-6) = 28.00\text{dBm}$.

802.11ax (HE40)

Channel	Frequency (MHz)	Average Power (mW)	Average Power (dBm)	Limit (dBm)	Pass / Fail
3	2422	37.757	15.77	28.00	Pass
6	2437	46.881	16.71	28.00	Pass
9	2452	30.269	14.81	28.00	Pass

Note: Gain = 8dBi > 6dBi, so the power limit shall be reduced to $30-(8-6) = 28.00\text{dBm}$.

2TX (CDD Mode)

802.11b

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	19.07	18.36	149.273	21.74	28.00	Pass
6	2437	19.18	18.26	149.782	21.75	28.00	Pass
11	2462	19.08	18.06	144.883	21.61	28.00	Pass

Note: Gain = 8dBi > 6dBi, so the power limit shall be reduced to 30-(8-6) = 28.00dBm.

802.11g

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	15.36	16.21	76.139	18.82	28.00	Pass
6	2437	19.06	18.68	154.328	21.88	28.00	Pass
11	2462	13.91	14.77	54.596	17.37	28.00	Pass

Note: Gain = 8dBi > 6dBi, so the power limit shall be reduced to 30-(8-6) = 28.00dBm.

802.11ax (HE20)

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	13.83	14.81	54.424	17.36	28.00	Pass
6	2437	18.80	19.40	162.954	22.12	28.00	Pass
11	2462	12.35	12.91	36.722	15.65	28.00	Pass

Note: Gain = 8dBi > 6dBi, so the power limit shall be reduced to 30-(8-6) = 28.00dBm.

802.11ax (HE40)

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
3	2422	14.88	14.22	57.185	17.57	28.00	Pass
6	2437	16.13	15.97	80.557	19.06	28.00	Pass
9	2452	14.33	14.10	52.806	17.23	28.00	Pass

Note: Gain = 8dBi > 6dBi, so the power limit shall be reduced to 30-(8-6) = 28.00dBm.

Test Mode K (External antenna – PN: ATS-OP-245-810-4RPSP-36 + Eth8 Radio)

1TX (CDD Mode)

802.11b

Channel	Frequency (MHz)	Average Power (mW)	Average Power (dBm)	Limit (dBm)	Pass / Fail
1	2412	83.560	19.22	28.00	Pass
6	2437	83.753	19.23	28.00	Pass
11	2462	85.507	19.32	28.00	Pass

Note: Gain = 8dBi > 6dBi, so the power limit shall be reduced to $30-(8-6) = 28.00\text{dBm}$.

802.11g

Channel	Frequency (MHz)	Average Power (mW)	Average Power (dBm)	Limit (dBm)	Pass / Fail
1	2412	45.186	16.55	28.00	Pass
6	2437	78.163	18.93	28.00	Pass
11	2462	45.290	16.56	28.00	Pass

Note: Gain = 8dBi > 6dBi, so the power limit shall be reduced to $30-(8-6) = 28.00\text{dBm}$.

802.11ax (HE20)

Channel	Frequency (MHz)	Average Power (mW)	Average Power (dBm)	Limit (dBm)	Pass / Fail
1	2412	42.855	16.32	28.00	Pass
6	2437	83.753	19.23	28.00	Pass
11	2462	28.973	14.62	28.00	Pass

Note: Gain = 8dBi > 6dBi, so the power limit shall be reduced to $30-(8-6) = 28.00\text{dBm}$.

802.11ax (HE40)

Channel	Frequency (MHz)	Average Power (mW)	Average Power (dBm)	Limit (dBm)	Pass / Fail
3	2422	45.814	16.61	28.00	Pass
6	2437	57.810	17.62	28.00	Pass
9	2452	47.206	16.74	28.00	Pass

Note: Gain = 8dBi > 6dBi, so the power limit shall be reduced to $30-(8-6) = 28.00\text{dBm}$.

2TX (CDD Mode)

802.11b

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	19.22	19.63	175.393	22.44	28.00	Pass
6	2437	19.23	19.70	177.078	22.48	28.00	Pass
11	2462	19.32	19.69	178.618	22.52	28.00	Pass

Note: Gain = 8dBi > 6dBi, so the power limit shall be reduced to 30-(8-6) = 28.00dBm.

802.11g

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	16.26	16.49	86.833	19.39	28.00	Pass
6	2437	18.93	19.38	164.859	22.17	28.00	Pass
11	2462	15.44	15.52	70.640	18.49	28.00	Pass

Note: Gain = 8dBi > 6dBi, so the power limit shall be reduced to 30-(8-6) = 28.00dBm.

802.11ax (HE20)

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	14.66	14.87	59.932	17.78	28.00	Pass
6	2437	19.23	18.88	161.021	22.07	28.00	Pass
11	2462	13.38	14.14	47.719	16.79	28.00	Pass

Note: Gain = 8dBi > 6dBi, so the power limit shall be reduced to 30-(8-6) = 28.00dBm.

802.11ax (HE40)

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
3	2422	13.90	14.36	51.837	17.15	28.00	Pass
6	2437	16.95	16.78	97.188	19.88	28.00	Pass
9	2452	15.37	15.25	67.932	18.32	28.00	Pass

Note: Gain = 8dBi > 6dBi, so the power limit shall be reduced to 30-(8-6) = 28.00dBm.

2TX (Beamforming Mode)

802.11ax (HE20)

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	14.66	14.87	59.932	17.78	24.99	Pass
6	2437	19.23	18.88	161.021	22.07	24.99	Pass
11	2462	13.38	14.14	47.719	16.79	24.99	Pass

Note: Directional gain = $8\text{dBi} + 10\log(2) = 11.01\text{dBi} > 6\text{dBi}$, so the power limit shall be reduced to $30 - (11.01 - 6) = 24.99\text{dBm}$.

802.11ax (HE40)

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
3	2422	13.90	14.36	51.837	17.15	24.99	Pass
6	2437	16.95	16.78	97.188	19.88	24.99	Pass
9	2452	15.37	15.25	67.932	18.32	24.99	Pass

Note: Directional gain = $8\text{dBi} + 10\log(2) = 11.01\text{dBi} > 6\text{dBi}$, so the power limit shall be reduced to $30 - (11.01 - 6) = 24.99\text{dBm}$.

3TX (CDD Mode)

802.11b

Channel	Frequency (MHz)	Average Power (dBm)			Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2				
1	2412	20.11	20.66	20.65	335.123	25.25	28.00	Pass
6	2437	20.45	20.66	20.57	341.355	25.33	28.00	Pass
11	2462	20.53	20.88	20.53	348.422	25.42	28.00	Pass

Note: Gain = 8dBi > 6dBi, so the power limit shall be reduced to $30-(8-6) = 28.00\text{dBm}$.

802.11g

Channel	Frequency (MHz)	Average Power (dBm)			Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2				
1	2412	15.78	15.71	15.93	114.257	20.58	28.00	Pass
6	2437	18.93	19.38	18.97	243.745	23.87	28.00	Pass
11	2462	15.27	15.33	15.78	105.614	20.24	28.00	Pass

Note: Gain = 8dBi > 6dBi, so the power limit shall be reduced to $30-(8-6) = 28.00\text{dBm}$.

802.11ax (HE20)

Channel	Frequency (MHz)	Average Power (dBm)			Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2				
1	2412	14.45	14.69	14.56	85.881	19.34	28.00	Pass
6	2437	19.41	19.55	19.52	266.99	24.26	28.00	Pass
11	2462	13.30	13.77	13.01	65.202	18.14	28.00	Pass

Note: Gain = 8dBi > 6dBi, so the power limit shall be reduced to $30-(8-6) = 28.00\text{dBm}$.

802.11ax (HE40)

Channel	Frequency (MHz)	Average Power (dBm)			Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2				
3	2422	13.91	13.83	13.87	73.137	18.64	28.00	Pass
6	2437	16.53	16.54	16.34	133.113	21.24	28.00	Pass
9	2452	14.75	14.81	14.67	89.432	19.51	28.00	Pass

Note: Gain = 8dBi > 6dBi, so the power limit shall be reduced to $30-(8-6) = 28.00\text{dBm}$.

3TX (Beamforming Mode)

802.11ax (HE20)

Channel	Frequency (MHz)	Average Power (dBm)			Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2				
1	2412	14.45	14.69	14.56	85.881	19.34	23.23	Pass
6	2437	18.26	18.49	18.36	206.169	23.14	23.23	Pass
11	2462	13.30	13.77	13.01	65.202	18.14	23.23	Pass

Note: Directional gain = $8\text{dBi} + 10\log(3) = 12.77\text{dBi} > 6\text{dBi}$, so the power limit shall be reduced to $30 - (12.77 - 6) = 23.23\text{dBm}$.

802.11ax (HE40)

Channel	Frequency (MHz)	Average Power (dBm)			Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2				
3	2422	13.91	13.83	13.87	73.137	18.64	23.23	Pass
6	2437	16.53	16.54	16.34	133.113	21.24	23.23	Pass
9	2452	14.75	14.81	14.67	89.432	19.51	23.23	Pass

Note: Directional gain = $8\text{dBi} + 10\log(3) = 12.77\text{dBi} > 6\text{dBi}$, so the power limit shall be reduced to $30 - (12.77 - 6) = 23.23\text{dBm}$.

4TX (CDD Mode)

802.11b

Channel	Frequency (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
1	2412	19.22	19.63	18.91	19.41	340.494	25.32	28.00	Pass
6	2437	19.23	19.70	19.12	19.40	345.832	25.39	28.00	Pass
11	2462	19.32	19.69	19.23	19.44	350.273	25.44	28.00	Pass

Note: Gain = 8dBi > 6dBi, so the power limit shall be reduced to $30-(8-6) = 28.00\text{dBm}$.

802.11g

Channel	Frequency (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
1	2412	14.62	14.95	14.85	14.92	121.829	20.86	28.00	Pass
6	2437	18.93	19.38	18.97	19.35	329.844	25.18	28.00	Pass
11	2462	15.05	15.13	15.35	14.95	130.111	21.14	28.00	Pass

Note: Gain = 8dBi > 6dBi, so the power limit shall be reduced to $30-(8-6) = 28.00\text{dBm}$.

802.11ax (HE20)

Channel	Frequency (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
1	2412	13.96	14.11	14.01	13.89	100.320	20.01	28.00	Pass
6	2437	19.12	19.33	19.15	19.11	331.056	25.20	28.00	Pass
11	2462	12.41	12.97	13.02	12.56	75.308	18.77	28.00	Pass

Note: Gain = 8dBi > 6dBi, so the power limit shall be reduced to $30-(8-6) = 28.00\text{dBm}$.

802.11ax (HE40)

Channel	Frequency (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
3	2422	13.45	13.27	13.05	13.17	84.296	19.26	28.00	Pass
6	2437	15.29	15.22	15.24	15.66	137.305	21.38	28.00	Pass
9	2452	14.37	14.34	14.22	14.32	107.981	20.33	28.00	Pass

Note: Gain = 8dBi > 6dBi, so the power limit shall be reduced to $30-(8-6) = 28.00\text{dBm}$.

4TX (Beamforming Mode)

802.11ax (HE20)

Channel	Frequency (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
1	2412	13.96	14.11	14.01	13.89	100.320	20.01	21.98	Pass
6	2437	15.66	15.91	15.80	15.69	150.894	21.79	21.98	Pass
11	2462	12.41	12.97	13.02	12.56	75.308	18.77	21.98	Pass

Note: Directional gain = $8\text{dBi} + 10\log(4) = 14.02\text{dBi} > 6\text{dBi}$, so the power limit shall be reduced to $30 - (14.02 - 6) = 21.98\text{dBm}$.

802.11ax (HE40)

Channel	Frequency (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
3	2422	13.45	13.27	13.05	13.17	84.296	19.26	21.98	Pass
6	2437	15.29	15.22	15.24	15.66	137.305	21.38	21.98	Pass
9	2452	14.37	14.34	14.22	14.32	107.981	20.33	21.98	Pass

Note: Directional gain = $8\text{dBi} + 10\log(4) = 14.02\text{dBi} > 6\text{dBi}$, so the power limit shall be reduced to $30 - (14.02 - 6) = 21.98\text{dBm}$.

4.5 Power Spectral Density Measurement

4.5.1 Limits of Power Spectral Density Measurement

The Maximum of Power Spectral Density Measurement is 8dBm in any 3 kHz.

4.5.2 Test Setup



4.5.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.5.4 Test Procedure

- Measure the duty cycle (x).
- Set instrument center frequency to DTS channel center frequency.
- Set span to at least 1.5 times the OBW.
- Set RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- Set VBW $\geq 3 \times \text{RBW}$.
- Detector = power averaging (RMS) or sample detector (when RMS not available).
- Ensure that the number of measurement points in the sweep $\geq 2 \times \text{span/RBW}$.
- Sweep time = auto couple.
- Do not use sweep triggering. Allow sweep to "free run".
- Employ trace averaging (RMS) mode over a minimum of 100 traces.
- Use the peak marker function to determine the maximum amplitude level.
- Add $10 \log (1/x)$, where x is the duty cycle measured in step (a), to the measured PSD to compute the average PSD during the actual transmission time.

4.5.5 Deviation from Test Standard

No deviation.

4.5.6 EUT Operating Condition

Same as item 4.3.6

4.5.7 Test Results

Test Mode A (Internal antenna + Eth7 Radio)

1TX

802.11b

Channel	Frequency (MHz)	PSD w/o Duty Factor (dBm/10kHz)	Duty Factor (dB)	Total PSD With Duty Factor (dBm/10kHz)	Limit (dBm/3kHz)	Pass / Fail
1	2412	-7.84	0.25	-7.59	8.00	Pass
6	2437	-7.49	0.25	-7.24	8.00	Pass
11	2462	-7.34	0.25	-7.09	8.00	Pass

Note: Refer to section 3.3 for duty cycle spectrum plot.

802.11g

Channel	Frequency (MHz)	PSD w/o Duty Factor (dBm/10kHz)	Duty Factor (dB)	Total PSD With Duty Factor (dBm/10kHz)	Limit (dBm/3kHz)	Pass / Fail
1	2412	-13.19	0.24	-12.95	8.00	Pass
6	2437	-10.00	0.24	-9.76	8.00	Pass
11	2462	-13.79	0.24	-13.55	8.00	Pass

Note: Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE20)

Channel	Frequency (MHz)	PSD w/o Duty Factor (dBm/10kHz)	Duty Factor (dB)	Total PSD With Duty Factor (dBm/10kHz)	Limit (dBm/3kHz)	Pass / Fail
1	2412	-14.02	0.26	-13.76	8.00	Pass
6	2437	-10.08	0.26	-9.82	8.00	Pass
11	2462	-14.42	0.26	-14.16	8.00	Pass

Note: Refer to section 3.3 for duty cycle spectrum plot.

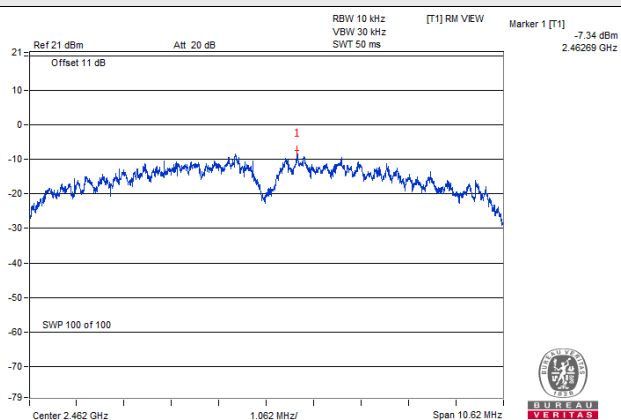
802.11ax (HE40)

Channel	Frequency (MHz)	PSD w/o Duty Factor (dBm/10kHz)	Duty Factor (dB)	Total PSD With Duty Factor (dBm/10kHz)	Limit (dBm/3kHz)	Pass / Fail
3	2422	-17.58	0.50	-17.08	8.00	Pass
6	2437	-14.86	0.50	-14.36	8.00	Pass
9	2452	-16.40	0.50	-15.90	8.00	Pass

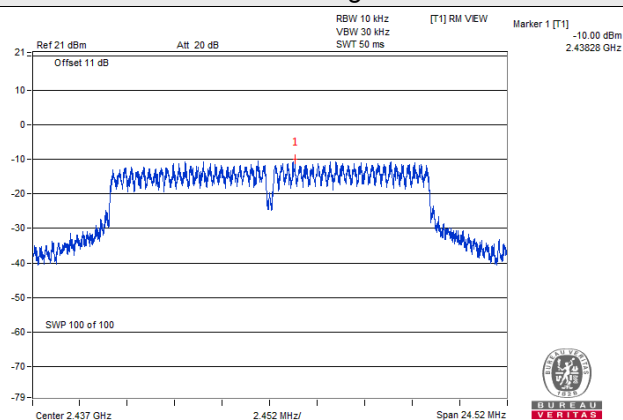
Note: Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

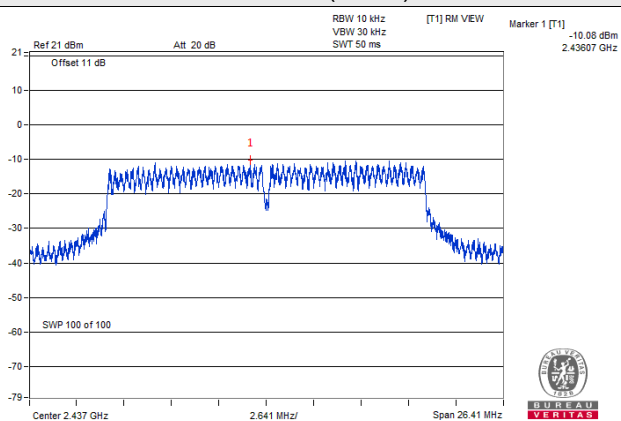
802.11b



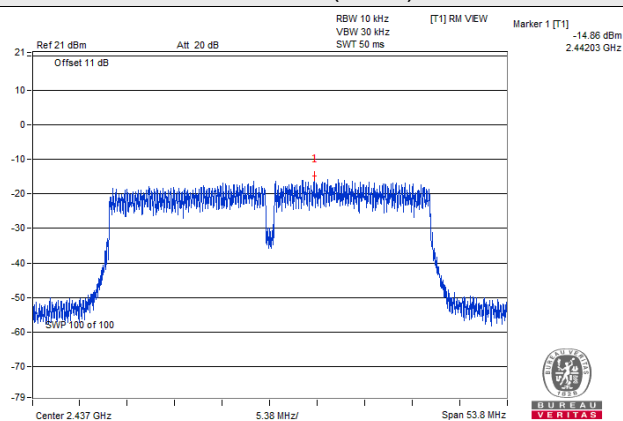
802.11g



802.11ax (HE20)



802.11ax (HE40)



Test Mode C (Internal antenna + Eth8 Radio)

1TX

802.11b

Channel	Frequency (MHz)	PSD w/o Duty Factor (dBm/10kHz)	Duty Factor (dB)	Total PSD With Duty Factor (dBm/10kHz)	Limit (dBm/3kHz)	Pass / Fail
1	2412	-8.10	0.24	-7.86	8.00	Pass
6	2437	-7.54	0.24	-7.30	8.00	Pass
11	2462	-7.95	0.24	-7.71	8.00	Pass

Note: Refer to section 3.3 for duty cycle spectrum plot.

802.11g

Channel	Frequency (MHz)	PSD w/o Duty Factor (dBm/10kHz)	Duty Factor (dB)	Total PSD With Duty Factor (dBm/10kHz)	Limit (dBm/3kHz)	Pass / Fail
1	2412	-12.14	0.27	-11.87	8.00	Pass
6	2437	-9.77	0.27	-9.50	8.00	Pass
11	2462	-13.33	0.27	-13.06	8.00	Pass

Note: Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE20)

Channel	Frequency (MHz)	PSD w/o Duty Factor (dBm/10kHz)	Duty Factor (dB)	Total PSD With Duty Factor (dBm/10kHz)	Limit (dBm/3kHz)	Pass / Fail
1	2412	-13.45	0.26	-13.19	8.00	Pass
6	2437	-9.15	0.26	-8.89	8.00	Pass
11	2462	-14.01	0.26	-13.75	8.00	Pass

Note: Refer to section 3.3 for duty cycle spectrum plot.

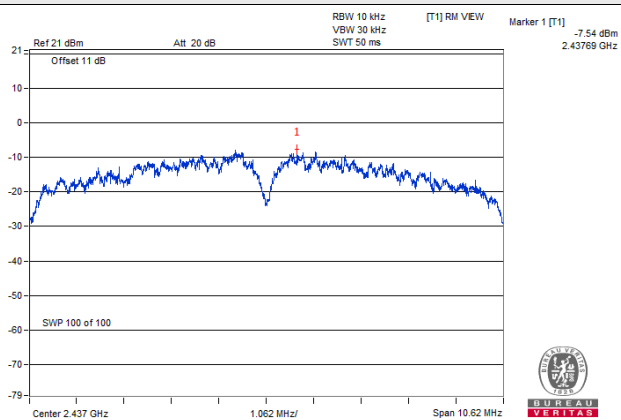
802.11ax (HE40)

Channel	Frequency (MHz)	PSD w/o Duty Factor (dBm/10kHz)	Duty Factor (dB)	Total PSD With Duty Factor (dBm/10kHz)	Limit (dBm/3kHz)	Pass / Fail
3	2422	-14.79	0.56	-14.23	8.00	Pass
6	2437	-14.31	0.56	-13.75	8.00	Pass
9	2452	-16.16	0.56	-15.60	8.00	Pass

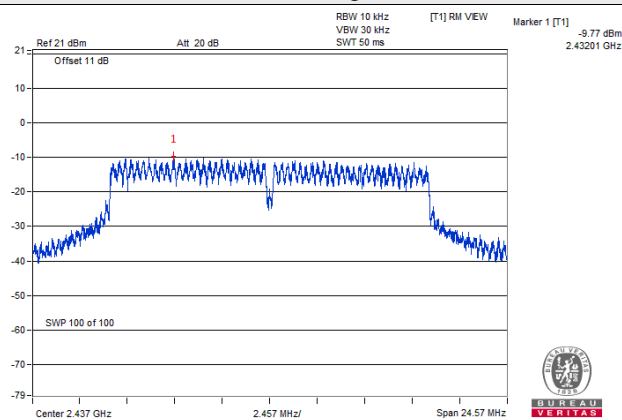
Note: Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

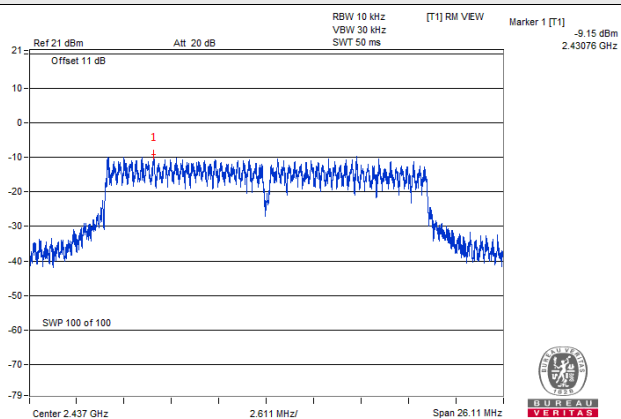
802.11b



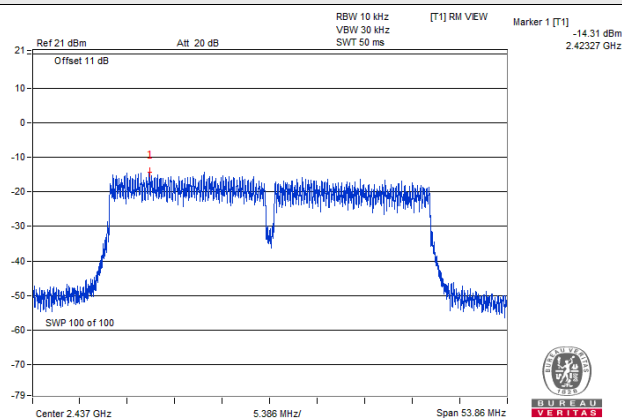
802.11g



802.11ax (HE20)



802.11ax (HE40)



2TX

802.11b

TX chain	Channel	Frequency (MHz)	PSD w/o Duty Factor (dBm/10kHz)	10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/10kHz)	Limit (dBm/3kHz)	Pass / Fail
2	1	2412	-8.10	3.01	0.24	-4.85	6.84	Pass
	6	2437	-7.54	3.01	0.24	-4.29	6.84	Pass
	11	2462	-7.95	3.01	0.24	-4.70	6.84	Pass
3	1	2412	-9.62	3.01	0.24	-6.37	6.84	Pass
	6	2437	-8.01	3.01	0.24	-4.76	6.84	Pass
	11	2462	-9.01	3.01	0.24	-5.76	6.84	Pass

Note:

- Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N_{ANT}) dB.
- Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 7.16\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $8 - (7.16 - 6) = 6.48\text{dBm}$.
- Refer to section 3.3 for duty cycle spectrum plot.

802.11g

TX chain	Channel	Frequency (MHz)	PSD w/o Duty Factor (dBm/10kHz)	10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/10kHz)	Limit (dBm/3kHz)	Pass / Fail
2	1	2412	-13.83	3.01	0.25	-10.57	6.84	Pass
	6	2437	-9.77	3.01	0.25	-6.51	6.84	Pass
	11	2462	-14.53	3.01	0.25	-11.27	6.84	Pass
3	1	2412	-13.09	3.01	0.25	-9.83	6.84	Pass
	6	2437	-10.09	3.01	0.25	-6.83	6.84	Pass
	11	2462	-14.12	3.01	0.25	-10.86	6.84	Pass

Note:

- Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N_{ANT}) dB.
- Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 7.16\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $8 - (7.16 - 6) = 6.48\text{dBm}$.
- Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE20)

TX chain	Channel	Frequency (MHz)	PSD w/o Duty Factor (dBm/10kHz)	10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/10kHz)	Limit (dBm/3kHz)	Pass / Fail
2	1	2412	-13.99	3.01	0.23	-10.75	6.84	Pass
	6	2437	-9.15	3.01	0.23	-5.91	6.84	Pass
	11	2462	-15.78	3.01	0.23	-12.54	6.84	Pass
3	1	2412	-13.79	3.01	0.23	-10.55	6.84	Pass
	6	2437	-9.99	3.01	0.23	-6.75	6.84	Pass
	11	2462	-15.86	3.01	0.23	-12.62	6.84	Pass

Note:

1. Method E) 2) c) 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 = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 7.16\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $8-(7.16-6) = 6.48\text{dBm}$.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE40)

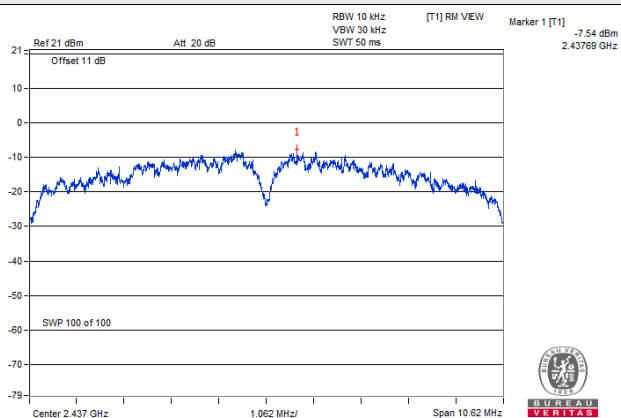
TX chain	Channel	Frequency (MHz)	PSD w/o Duty Factor (dBm/10kHz)	10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/10kHz)	Limit (dBm/3kHz)	Pass / Fail
2	3	2422	-16.66	3.01	0.48	-13.17	6.84	Pass
	6	2437	-14.35	3.01	0.48	-10.86	6.84	Pass
	9	2452	-17.89	3.01	0.48	-14.40	6.84	Pass
3	3	2422	-17.33	3.01	0.48	-13.84	6.84	Pass
	6	2437	-13.90	3.01	0.48	-10.41	6.84	Pass
	9	2452	-16.90	3.01	0.48	-13.41	6.84	Pass

Note:

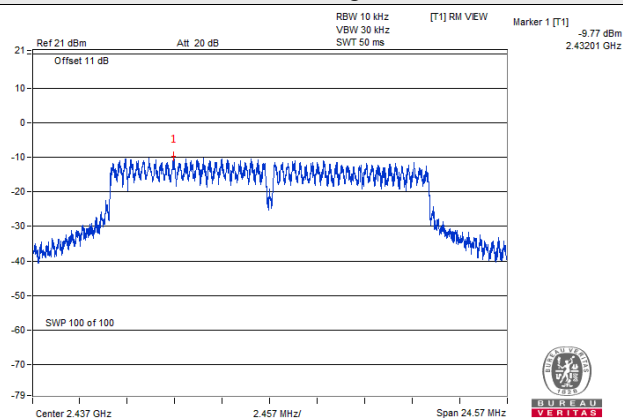
1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N_{ANT}) dB.
2. Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 7.16\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $8-(7.16-6) = 6.48\text{dBm}$.
3. Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

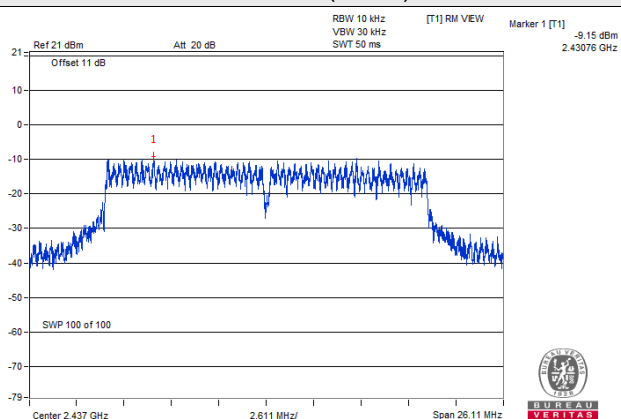
802.11b



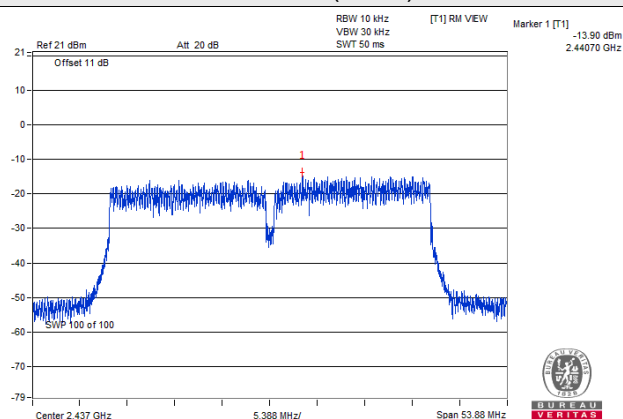
802.11g



802.11ax (HE20)



802.11ax (HE40)



3TX

802.11b

TX chain	Channel	Frequency (MHz)	PSD w/o Duty Factor (dBm/10kHz)	10 log (N=3) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/10kHz)	Limit (dBm/3kHz)	Pass / Fail
1	1	2412	-9.62	4.77	0.23	-4.62	5.41	Pass
	6	2437	-8.01	4.77	0.23	-3.01	5.41	Pass
	11	2462	-9.01	4.77	0.23	-4.01	5.41	Pass
2	1	2412	-8.73	4.77	0.23	-3.73	5.41	Pass
	6	2437	-7.96	4.77	0.23	-2.96	5.41	Pass
	11	2462	-8.25	4.77	0.23	-3.25	5.41	Pass
3	1	2412	-8.10	4.77	0.23	-3.10	5.41	Pass
	6	2437	-7.54	4.77	0.23	-2.54	5.41	Pass
	11	2462	-7.95	4.77	0.23	-2.95	5.41	Pass

Note:

1. Method E) 2) c) 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 = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/3] = 8.59\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $8-(8.59-6) = 5.41\text{dBm}$.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11g

TX chain	Channel	Frequency (MHz)	PSD w/o Duty Factor (dBm/10kHz)	10 log (N=3) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/10kHz)	Limit (dBm/3kHz)	Pass / Fail
1	1	2412	-13.09	4.77	0.24	-8.08	5.41	Pass
	6	2437	-10.09	4.77	0.24	-5.08	5.41	Pass
	11	2462	-14.09	4.77	0.24	-9.08	5.41	Pass
2	1	2412	-13.88	4.77	0.24	-8.87	5.41	Pass
	6	2437	-9.86	4.77	0.24	-4.85	5.41	Pass
	11	2462	-15.10	4.77	0.24	-10.09	5.41	Pass
3	1	2412	-13.83	4.77	0.24	-8.82	5.41	Pass
	6	2437	-9.77	4.77	0.24	-4.76	5.41	Pass
	11	2462	-15.74	4.77	0.24	-10.73	5.41	Pass

Note:

1. Method E) 2) c) 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 = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/3] = 8.59\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $8-(8.59-6) = 5.41\text{dBm}$.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE20)

TX chain	Channel	Frequency (MHz)	PSD w/o Duty Factor (dBm/10kHz)	10 log (N=3) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/10kHz)	Limit (dBm/3kHz)	Pass / Fail
1	1	2412	-14.68	4.77	0.26	-9.65	5.41	Pass
	6	2437	-9.74	4.77	0.26	-4.71	5.41	Pass
	11	2462	-15.55	4.77	0.26	-10.52	5.41	Pass
2	1	2412	-15.37	4.77	0.26	-10.34	5.41	Pass
	6	2437	-9.57	4.77	0.26	-4.54	5.41	Pass
	11	2462	-16.70	4.77	0.26	-11.67	5.41	Pass
3	1	2412	-14.97	4.77	0.26	-9.94	5.41	Pass
	6	2437	-9.86	4.77	0.26	-4.83	5.41	Pass
	11	2462	-16.65	4.77	0.26	-11.62	5.41	Pass

Note:

- Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N_{ANT}) dB.
- Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/3] = 8.59\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $8-(8.59-6) = 5.41\text{dBm}$.
- Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE40)

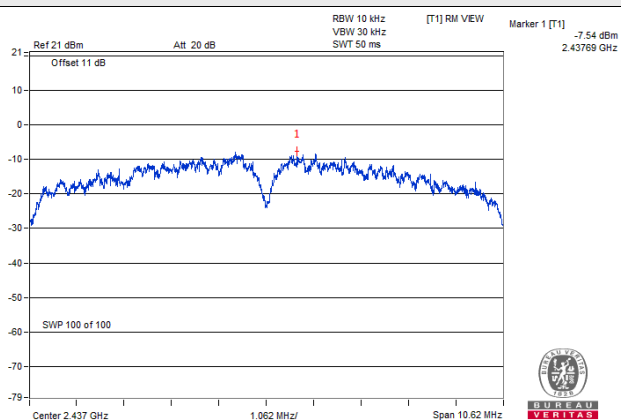
TX chain	Channel	Frequency (MHz)	PSD w/o Duty Factor (dBm/10kHz)	10 log (N=3) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/10kHz)	Limit (dBm/3kHz)	Pass / Fail
1	3	2422	-18.13	4.77	0.48	-12.88	5.41	Pass
	6	2437	-16.18	4.77	0.48	-10.93	5.41	Pass
	9	2452	-16.90	4.77	0.48	-11.65	5.41	Pass
2	3	2422	-17.96	4.77	0.48	-12.71	5.41	Pass
	6	2437	-16.32	4.77	0.48	-11.07	5.41	Pass
	9	2452	-17.31	4.77	0.48	-12.06	5.41	Pass
3	3	2422	-18.50	4.77	0.48	-13.25	5.41	Pass
	6	2437	-15.79	4.77	0.48	-10.54	5.41	Pass
	9	2452	-17.89	4.77	0.48	-12.64	5.41	Pass

Note:

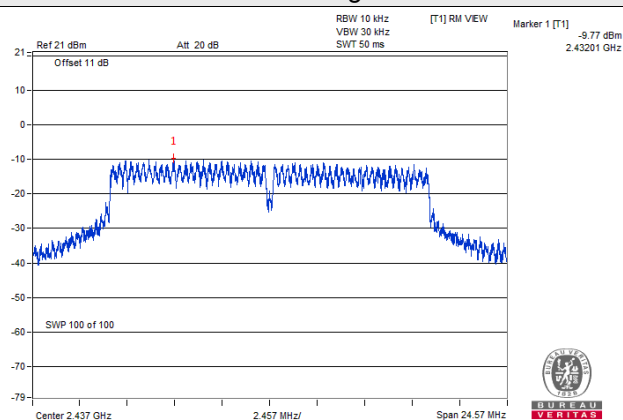
- Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N_{ANT}) dB.
- Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/3] = 8.59\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $8-(8.59-6) = 5.41\text{dBm}$.
- Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

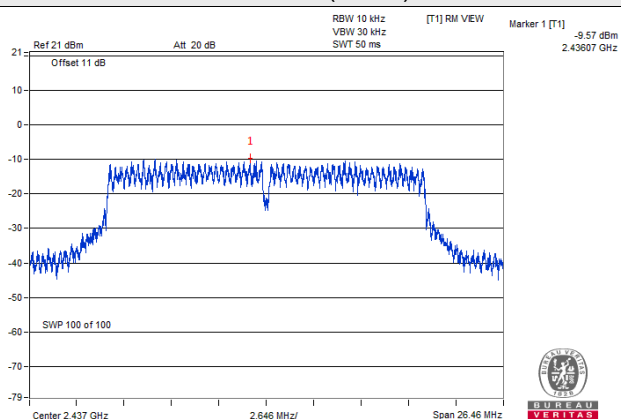
802.11b



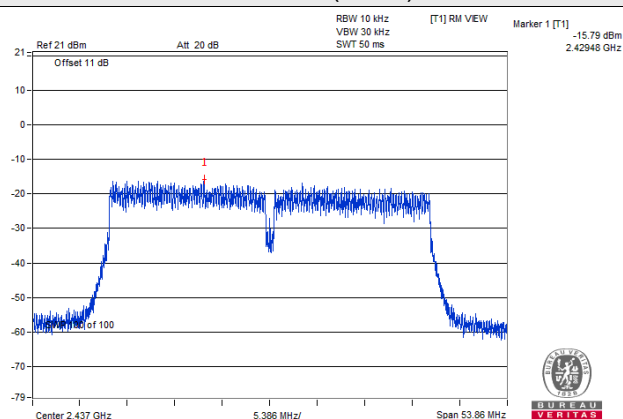
802.11g



802.11ax (HE20)



802.11ax (HE40)



Test Mode E (External antenna – PN: ATS-OO-245-46-4RPSP-36 + Eth7 Radio)

1TX

802.11b

Channel	Frequency (MHz)	PSD w/o Duty Factor (dBm/10kHz)	Duty Factor (dB)	Total PSD With Duty Factor (dBm/10kHz)	Limit (dBm/3kHz)	Pass / Fail
1	2412	-8.76	0.22	-8.54	8.00	Pass
6	2437	-9.01	0.22	-8.79	8.00	Pass
11	2462	-7.83	0.22	-7.61	8.00	Pass

Note: Refer to section 3.3 for duty cycle spectrum plot.

802.11g

Channel	Frequency (MHz)	PSD w/o Duty Factor (dBm/10kHz)	Duty Factor (dB)	Total PSD With Duty Factor (dBm/10kHz)	Limit (dBm/3kHz)	Pass / Fail
1	2412	-14.59	0.26	-14.33	8.00	Pass
6	2437	-11.04	0.26	-10.78	8.00	Pass
11	2462	-15.74	0.26	-15.48	8.00	Pass

Note: Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE20)

Channel	Frequency (MHz)	PSD w/o Duty Factor (dBm/10kHz)	Duty Factor (dB)	Total PSD With Duty Factor (dBm/10kHz)	Limit (dBm/3kHz)	Pass / Fail
1	2412	-15.28	0.11	-15.17	8.00	Pass
6	2437	-10.50	0.11	-10.39	8.00	Pass
11	2462	-16.09	0.11	-15.98	8.00	Pass

Note: Refer to section 3.3 for duty cycle spectrum plot.

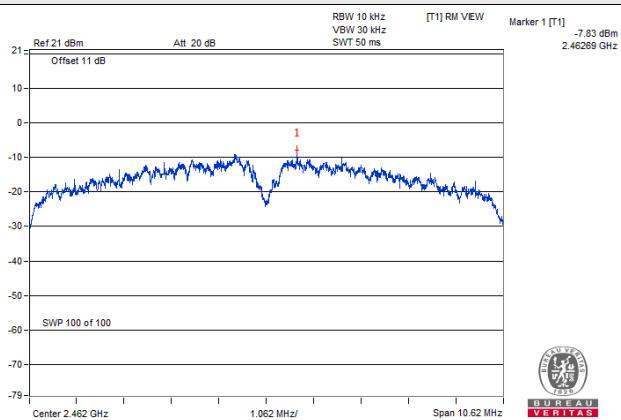
802.11ax (HE40)

Channel	Frequency (MHz)	PSD w/o Duty Factor (dBm/10kHz)	Duty Factor (dB)	Total PSD With Duty Factor (dBm/10kHz)	Limit (dBm/3kHz)	Pass / Fail
3	2422	-17.97	0.27	-17.70	8.00	Pass
6	2437	-16.72	0.27	-16.45	8.00	Pass
9	2452	-18.99	0.27	-18.72	8.00	Pass

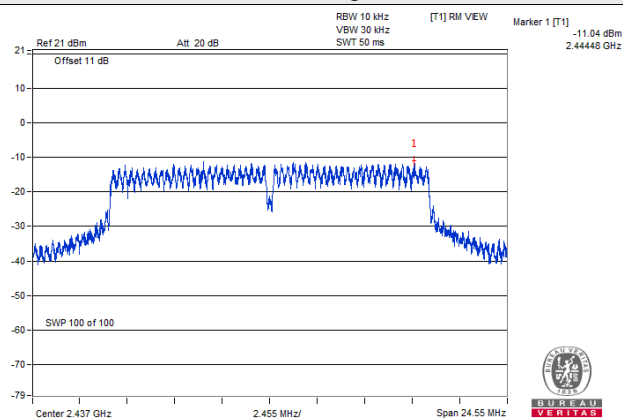
Note: Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

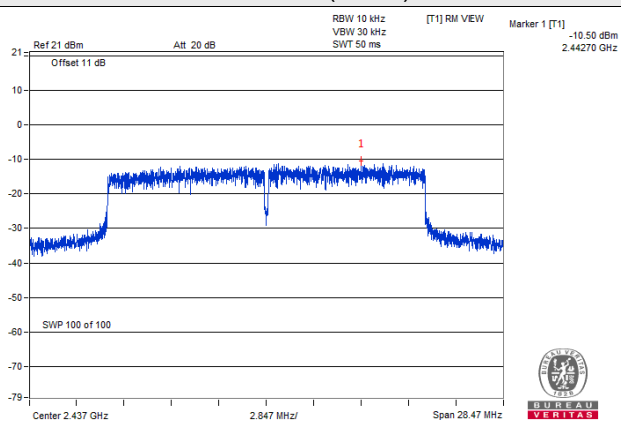
802.11b



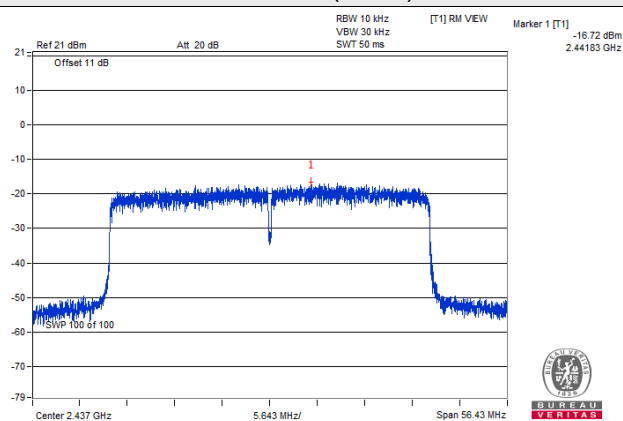
802.11g



802.11ax (HE20)



802.11ax (HE40)



Test Mode G (External antenna – PN: ATS-OO-245-46-4RPSP-36 + Eth8 Radio)

1TX

802.11b

Channel	Frequency (MHz)	PSD w/o Duty Factor (dBm/10kHz)	Duty Factor (dB)	Total PSD With Duty Factor (dBm/10kHz)	Limit (dBm/3kHz)	Pass / Fail
1	2412	-8.20	0.28	-7.92	8.00	Pass
6	2437	-8.77	0.28	-8.49	8.00	Pass
11	2462	-8.81	0.28	-8.53	8.00	Pass

Note: Refer to section 3.3 for duty cycle spectrum plot.

802.11g

Channel	Frequency (MHz)	PSD w/o Duty Factor (dBm/10kHz)	Duty Factor (dB)	Total PSD With Duty Factor (dBm/10kHz)	Limit (dBm/3kHz)	Pass / Fail
1	2412	-14.01	0.24	-13.77	8.00	Pass
6	2437	-10.10	0.24	-9.86	8.00	Pass
11	2462	-15.16	0.24	-14.92	8.00	Pass

Note: Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE20)

Channel	Frequency (MHz)	PSD w/o Duty Factor (dBm/10kHz)	Duty Factor (dB)	Total PSD With Duty Factor (dBm/10kHz)	Limit (dBm/3kHz)	Pass / Fail
1	2412	-14.34	0.22	-14.12	8.00	Pass
6	2437	-10.53	0.22	-10.31	8.00	Pass
11	2462	-17.23	0.22	-17.01	8.00	Pass

Note: Refer to section 3.3 for duty cycle spectrum plot.

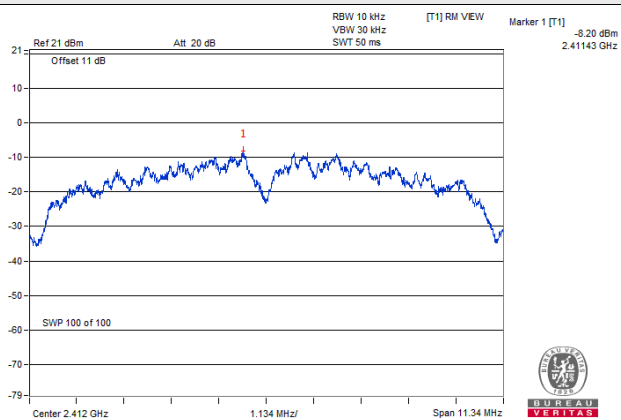
802.11ax (HE40)

Channel	Frequency (MHz)	PSD w/o Duty Factor (dBm/10kHz)	Duty Factor (dB)	Total PSD With Duty Factor (dBm/10kHz)	Limit (dBm/3kHz)	Pass / Fail
3	2422	-17.18	0.47	-16.71	8.00	Pass
6	2437	-16.64	0.47	-16.17	8.00	Pass
9	2452	-17.85	0.47	-17.38	8.00	Pass

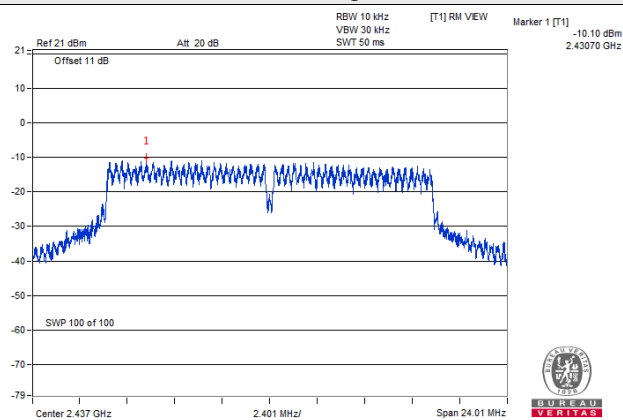
Note: Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

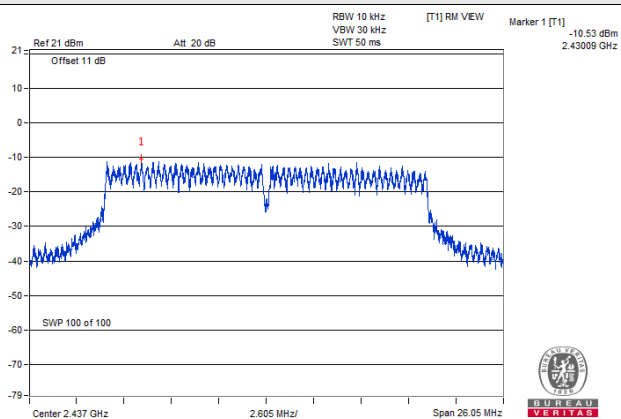
802.11b



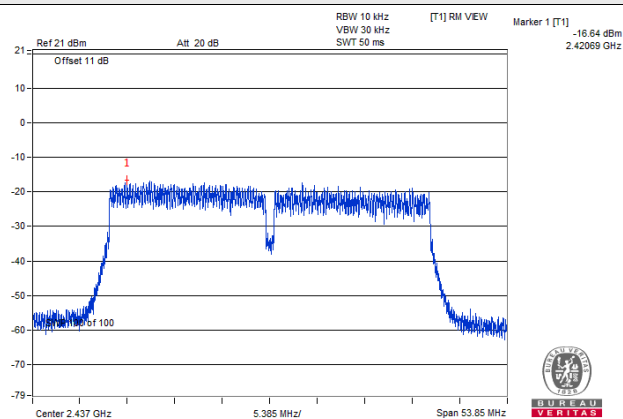
802.11g



802.11ax (HE20)



802.11ax (HE40)



2TX

802.11b

TX chain	Channel	Frequency (MHz)	PSD w/o Duty Factor (dBm/10kHz)	10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/10kHz)	Limit (dBm/3kHz)	Pass / Fail
2	1	2412	-8.20	3.01	0.28	-4.91	6.99	Pass
	6	2437	-8.77	3.01	0.28	-5.48	6.99	Pass
	11	2462	-8.81	3.01	0.28	-5.52	6.99	Pass
3	1	2412	-7.10	3.01	0.28	-3.81	6.99	Pass
	6	2437	-7.25	3.01	0.28	-3.96	6.99	Pass
	11	2462	-7.30	3.01	0.28	-4.01	6.99	Pass

Note:

1. Method E) 2) c) 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 = 4dBi + 10log(2) = 7.01dBi > 6dBi, so the power density limit shall be reduced to 8-(7.01-6) = 6.99dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11g

TX chain	Channel	Frequency (MHz)	PSD w/o Duty Factor (dBm/10kHz)	10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/10kHz)	Limit (dBm/3kHz)	Pass / Fail
2	1	2412	-15.28	3.01	0.24	-12.03	6.99	Pass
	6	2437	-10.10	3.01	0.24	-6.85	6.99	Pass
	11	2462	-15.23	3.01	0.24	-11.98	6.99	Pass
3	1	2412	-14.62	3.01	0.24	-11.37	6.99	Pass
	6	2437	-9.98	3.01	0.24	-6.73	6.99	Pass
	11	2462	-13.98	3.01	0.24	-10.73	6.99	Pass

Note:

1. Method E) 2) c) 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 = 4dBi + 10log(2) = 7.01dBi > 6dBi, so the power density limit shall be reduced to 8-(7.01-6) = 6.99dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE20)

TX chain	Channel	Frequency (MHz)	PSD w/o Duty Factor (dBm/10kHz)	10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/10kHz)	Limit (dBm/3kHz)	Pass / Fail
2	1	2412	-14.79	3.01	0.24	-11.54	6.99	Pass
	6	2437	-10.53	3.01	0.24	-7.28	6.99	Pass
	11	2462	-16.95	3.01	0.24	-13.70	6.99	Pass
3	1	2412	-13.95	3.01	0.24	-10.70	6.99	Pass
	6	2437	-10.61	3.01	0.24	-7.36	6.99	Pass
	11	2462	-15.80	3.01	0.24	-12.55	6.99	Pass

Note:

1. Method E) 2) c) 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 = 4dBi + 10log(2) = 7.01dBi > 6dBi, so the power density limit shall be reduced to 8-(7.01-6) = 6.99dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE40)

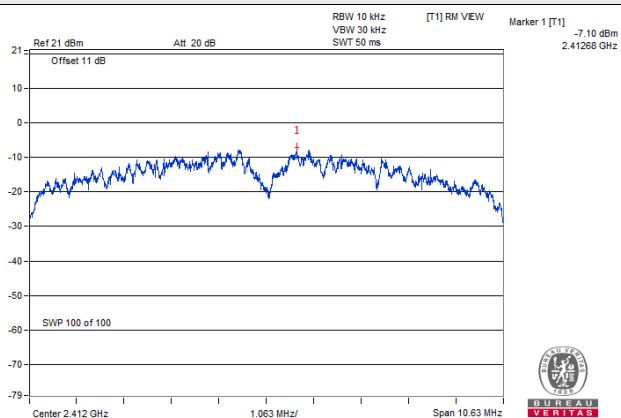
TX chain	Channel	Frequency (MHz)	PSD w/o Duty Factor (dBm/10kHz)	10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/10kHz)	Limit (dBm/3kHz)	Pass / Fail
2	3	2422	-16.55	3.01	0.47	-13.07	6.99	Pass
	6	2437	-15.66	3.01	0.47	-12.18	6.99	Pass
	9	2452	-17.95	3.01	0.47	-14.47	6.99	Pass
3	3	2422	-17.07	3.01	0.47	-13.59	6.99	Pass
	6	2437	-15.60	3.01	0.47	-12.12	6.99	Pass
	9	2452	-17.75	3.01	0.47	-14.27	6.99	Pass

Note:

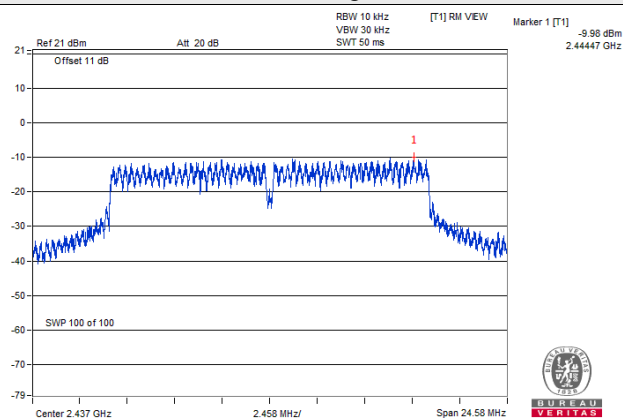
1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N_{ANT}) dB.
2. Directional gain = 4dBi + 10log(2) = 7.01dBi > 6dBi, so the power density limit shall be reduced to 8-(7.01-6) = 6.99dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

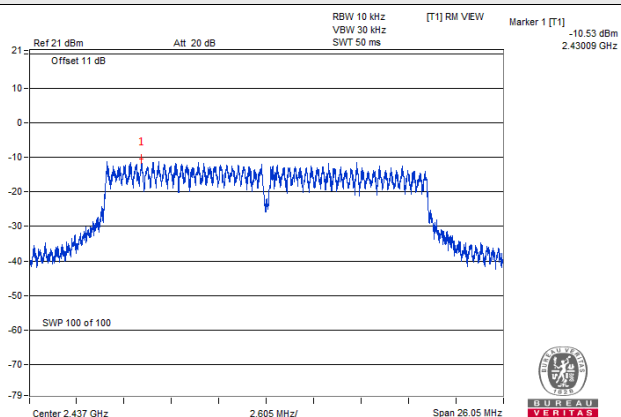
802.11b



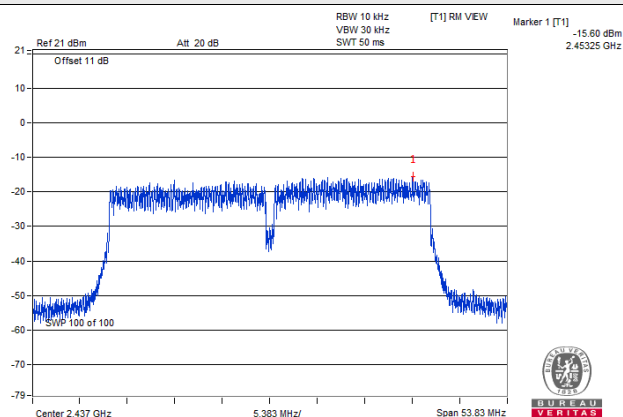
802.11g



802.11ax (HE20)



802.11ax (HE40)



3TX

802.11b

TX chain	Channel	Frequency (MHz)	PSD w/o Duty Factor (dBm/10kHz)	10 log (N=3) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/10kHz)	Limit (dBm/3kHz)	Pass / Fail
1	1	2412	-10.24	4.77	0.23	-5.24	5.23	Pass
	6	2437	-15.78	4.77	0.23	-10.78	5.23	Pass
	11	2462	-15.26	4.77	0.23	-10.26	5.23	Pass
2	1	2412	-11.36	4.77	0.23	-6.36	5.23	Pass
	6	2437	-16.57	4.77	0.23	-11.57	5.23	Pass
	11	2462	-15.22	4.77	0.23	-10.22	5.23	Pass
3	1	2412	-11.79	4.77	0.23	-6.79	5.23	Pass
	6	2437	-16.44	4.77	0.23	-11.44	5.23	Pass
	11	2462	-16.49	4.77	0.23	-11.49	5.23	Pass

Note:

- Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N_{ANT}) dB.
- Directional gain = 4dBi + 10log(3) = 8.77dBi > 6dBi, so the power density limit shall be reduced to 8-(8.77-6) = 5.23dBm.
- Refer to section 3.3 for duty cycle spectrum plot.

802.11g

TX chain	Channel	Frequency (MHz)	PSD w/o Duty Factor (dBm/10kHz)	10 log (N=3) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/10kHz)	Limit (dBm/3kHz)	Pass / Fail
1	1	2412	-12.99	4.77	0.25	-7.97	5.23	Pass
	6	2437	-9.98	4.77	0.25	-4.96	5.23	Pass
	11	2462	-13.98	4.77	0.25	-8.96	5.23	Pass
2	1	2412	-14.22	4.77	0.25	-9.20	5.23	Pass
	6	2437	-10.20	4.77	0.25	-5.18	5.23	Pass
	11	2462	-14.79	4.77	0.25	-9.77	5.23	Pass
3	1	2412	-13.95	4.77	0.25	-8.93	5.23	Pass
	6	2437	-10.10	4.77	0.25	-5.08	5.23	Pass
	11	2462	-15.23	4.77	0.25	-10.21	5.23	Pass

Note:

- Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N_{ANT}) dB.
- Directional gain = 4dBi + 10log(3) = 8.77dBi > 6dBi, so the power density limit shall be reduced to 8-(8.77-6) = 5.23dBm.
- Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE20)

TX chain	Channel	Frequency (MHz)	PSD w/o Duty Factor (dBm/10kHz)	10 log (N=3) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/10kHz)	Limit (dBm/3kHz)	Pass / Fail
1	1	2412	-15.59	4.77	0.24	-10.58	5.23	Pass
	6	2437	-10.61	4.77	0.24	-5.60	5.23	Pass
	11	2462	-17.54	4.77	0.24	-12.53	5.23	Pass
2	1	2412	-16.61	4.77	0.24	-11.60	5.23	Pass
	6	2437	-10.45	4.77	0.24	-5.44	5.23	Pass
	11	2462	-17.03	4.77	0.24	-12.02	5.23	Pass
3	1	2412	-16.06	4.77	0.24	-11.05	5.23	Pass
	6	2437	-10.53	4.77	0.24	-5.52	5.23	Pass
	11	2462	-17.30	4.77	0.24	-12.29	5.23	Pass

Note:

1. Method E) 2) c) 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 = 4dBi + 10log(3) = 8.77dBi > 6dBi, so the power density limit shall be reduced to 8-(8.77-6) = 5.23dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE40)

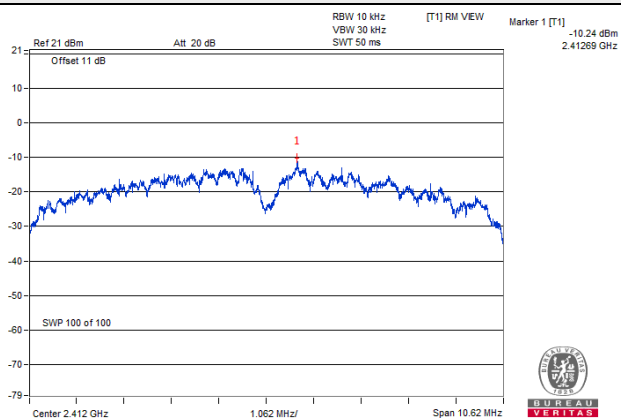
TX chain	Channel	Frequency (MHz)	PSD w/o Duty Factor (dBm/10kHz)	10 log (N=3) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/10kHz)	Limit (dBm/3kHz)	Pass / Fail
1	3	2422	-17.85	4.77	0.47	-12.61	5.23	Pass
	6	2437	-15.83	4.77	0.47	-10.59	5.23	Pass
	9	2452	-16.89	4.77	0.47	-11.65	5.23	Pass
2	3	2422	-18.28	4.77	0.47	-13.04	5.23	Pass
	6	2437	-16.50	4.77	0.47	-11.26	5.23	Pass
	9	2452	-17.32	4.77	0.47	-12.08	5.23	Pass
3	3	2422	-17.92	4.77	0.47	-12.68	5.23	Pass
	6	2437	-15.87	4.77	0.47	-10.63	5.23	Pass
	9	2452	-17.80	4.77	0.47	-12.56	5.23	Pass

Note:

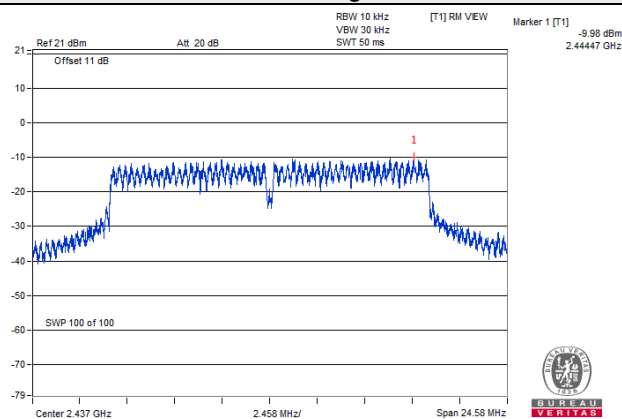
1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N_{ANT}) dB.
2. Directional gain = 4dBi + 10log(3) = 8.77dBi > 6dBi, so the power density limit shall be reduced to 8-(8.77-6) = 5.23dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

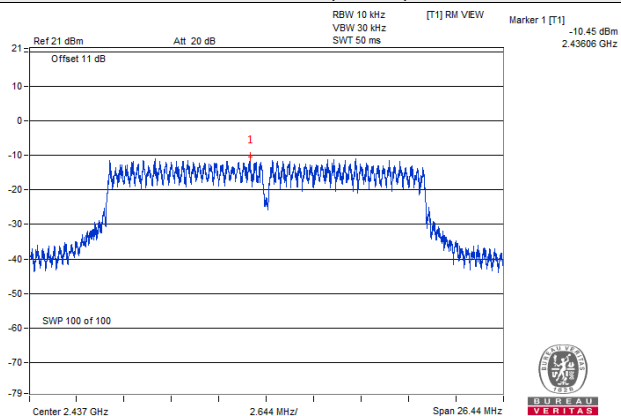
802.11b



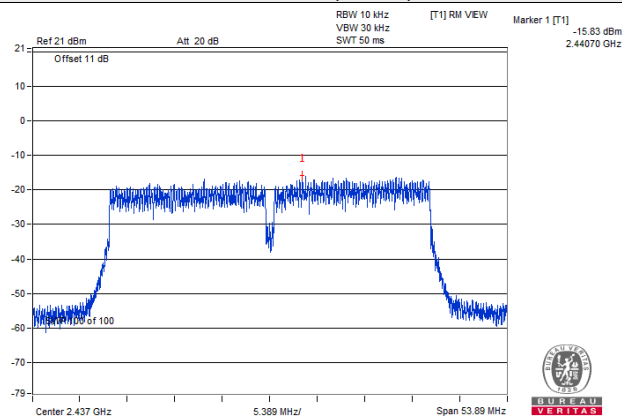
802.11g



802.11ax (HE20)



802.11ax (HE40)



Test Mode I (External antenna – PN: ATS-OP-245-810-4RPSP-36 + Eth7 Radio)

1TX

802.11b

Channel	Frequency (MHz)	PSD w/o Duty Factor (dBm/10kHz)	Duty Factor (dB)	Total PSD With Duty Factor (dBm/10kHz)	Limit (dBm/3kHz)	Pass / Fail
1	2412	-8.76	0.22	-8.54	6.00	Pass
6	2437	-9.01	0.22	-8.79	6.00	Pass
11	2462	-7.83	0.22	-7.61	6.00	Pass

Note:

1. Gain = 8dBi > 6dBi, so the power density limit shall be reduced to $8-(8-6) = 6.00\text{dBm}$.
2. Refer to section 3.3 for duty cycle spectrum plot.

802.11g

Channel	Frequency (MHz)	PSD w/o Duty Factor (dBm/10kHz)	Duty Factor (dB)	Total PSD With Duty Factor (dBm/10kHz)	Limit (dBm/3kHz)	Pass / Fail
1	2412	-13.13	0.26	-12.87	6.00	Pass
6	2437	-11.04	0.26	-10.78	6.00	Pass
11	2462	-14.66	0.26	-14.40	6.00	Pass

Note:

1. Gain = 8dBi > 6dBi, so the power density limit shall be reduced to $8-(8-6) = 6.00\text{dBm}$.
2. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE20)

Channel	Frequency (MHz)	PSD w/o Duty Factor (dBm/10kHz)	Duty Factor (dB)	Total PSD With Duty Factor (dBm/10kHz)	Limit (dBm/3kHz)	Pass / Fail
1	2412	-16.00	0.11	-15.89	6.00	Pass
6	2437	-9.94	0.11	-9.83	6.00	Pass
11	2462	-16.61	0.11	-16.50	6.00	Pass

Note:

1. Gain = 8dBi > 6dBi, so the power density limit shall be reduced to $8-(8-6) = 6.00\text{dBm}$.
2. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE40)

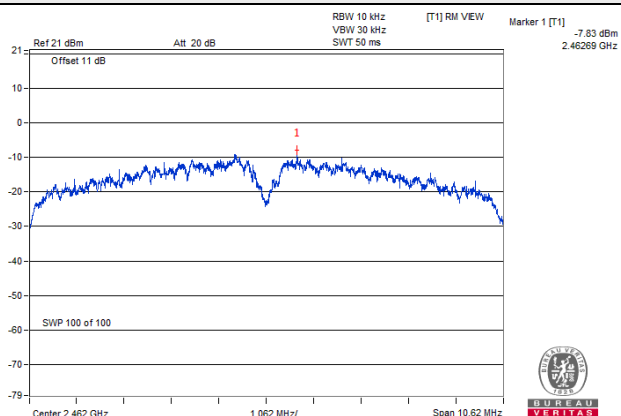
Channel	Frequency (MHz)	PSD w/o Duty Factor (dBm/10kHz)	Duty Factor (dB)	Total PSD With Duty Factor (dBm/10kHz)	Limit (dBm/3kHz)	Pass / Fail
3	2422	-16.18	0.27	-15.91	6.00	Pass
6	2437	-15.17	0.27	-14.90	6.00	Pass
9	2452	-17.85	0.27	-17.58	6.00	Pass

Note:

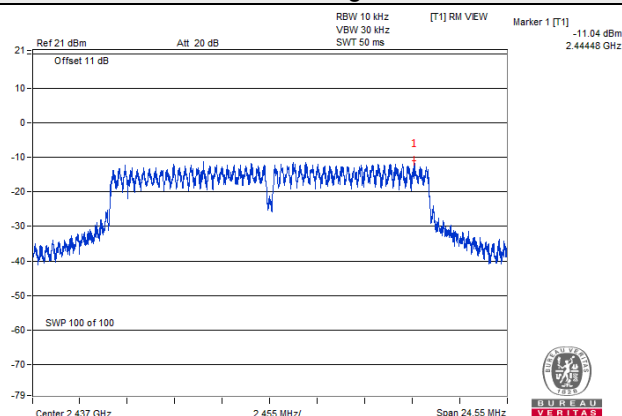
1. Gain = 8dBi > 6dBi, so the power density limit shall be reduced to $8-(8-6) = 6.00\text{dBm}$.
2. Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

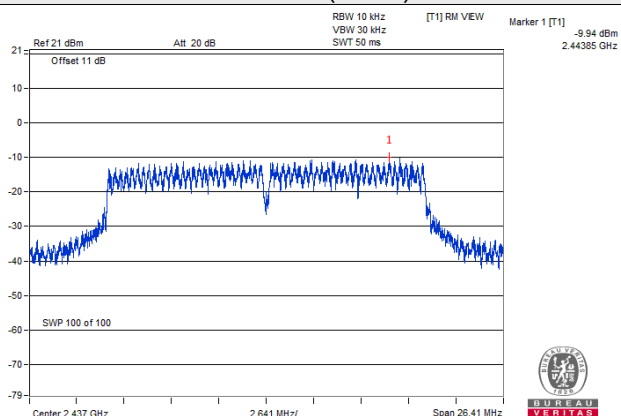
802.11b



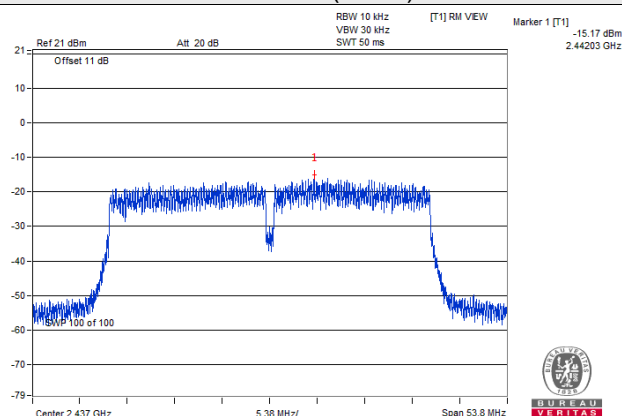
802.11g



802.11ax (HE20)



802.11ax (HE40)



2TX

802.11b

TX chain	Channel	Frequency (MHz)	PSD w/o Duty Factor (dBm/10kHz)	10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/10kHz)	Limit (dBm/3kHz)	Pass / Fail
0	1	2412	-8.76	3.01	0.22	-5.53	2.99	Pass
	6	2437	-9.01	3.01	0.22	-5.78	2.99	Pass
	11	2462	-7.83	3.01	0.22	-4.60	2.99	Pass
1	1	2412	-8.98	3.01	0.22	-5.75	2.99	Pass
	6	2437	-8.40	3.01	0.22	-5.17	2.99	Pass
	11	2462	-7.97	3.01	0.22	-4.74	2.99	Pass

Note:

1. Method E) 2) c) 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 = 8dBi + 10log(2) = 11.01dBi > 6dBi, so the power density limit shall be reduced to 8-(11.01-6) = 2.99dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11g

TX chain	Channel	Frequency (MHz)	PSD w/o Duty Factor (dBm/10kHz)	10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/10kHz)	Limit (dBm/3kHz)	Pass / Fail
0	1	2412	-14.55	3.01	0.26	-11.28	2.99	Pass
	6	2437	-11.04	3.01	0.26	-7.77	2.99	Pass
	11	2462	-16.02	3.01	0.26	-12.75	2.99	Pass
1	1	2412	-13.96	3.01	0.26	-10.69	2.99	Pass
	6	2437	-11.41	3.01	0.26	-8.14	2.99	Pass
	11	2462	-16.40	3.01	0.26	-13.13	2.99	Pass

Note:

1. Method E) 2) c) 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 = 8dBi + 10log(2) = 11.01dBi > 6dBi, so the power density limit shall be reduced to 8-(11.01-6) = 2.99dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE20)

TX chain	Channel	Frequency (MHz)	PSD w/o Duty Factor (dBm/10kHz)	10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/10kHz)	Limit (dBm/3kHz)	Pass / Fail
0	1	2412	-16.12	3.01	0.11	-13.00	2.99	Pass
	6	2437	-10.20	3.01	0.11	-7.08	2.99	Pass
	11	2462	-17.01	3.01	0.11	-13.89	2.99	Pass
1	1	2412	-16.23	3.01	0.11	-13.11	2.99	Pass
	6	2437	-10.02	3.01	0.11	-6.90	2.99	Pass
	11	2462	-17.62	3.01	0.11	-14.50	2.99	Pass

Note:

1. Method E) 2) c) 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 = 8dBi + 10log(2) = 11.01dBi > 6dBi, so the power density limit shall be reduced to 8-(11.01-6) = 2.99dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE40)

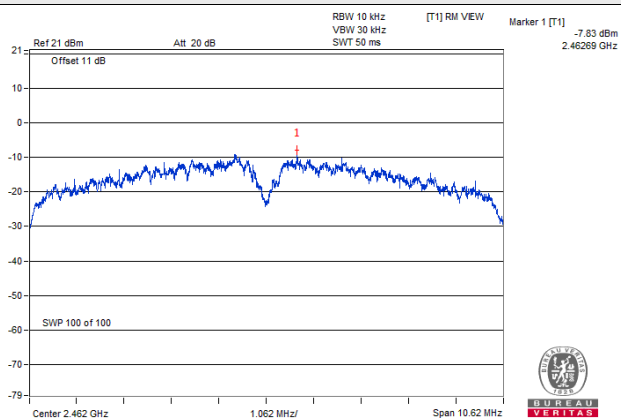
TX chain	Channel	Frequency (MHz)	PSD w/o Duty Factor (dBm/10kHz)	10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/10kHz)	Limit (dBm/3kHz)	Pass / Fail
0	3	2422	-18.71	3.01	0.27	-15.43	2.99	Pass
	6	2437	-16.89	3.01	0.27	-13.61	2.99	Pass
	9	2452	-18.18	3.01	0.27	-14.90	2.99	Pass
1	3	2422	-18.10	3.01	0.27	-14.82	2.99	Pass
	6	2437	-16.79	3.01	0.27	-13.51	2.99	Pass
	9	2452	-18.62	3.01	0.27	-15.34	2.99	Pass

Note:

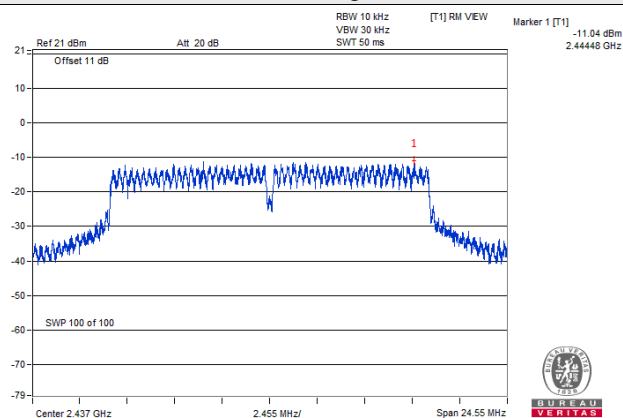
1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N_{ANT}) dB.
2. Directional gain = 8dBi + 10log(2) = 11.01dBi > 6dBi, so the power density limit shall be reduced to 8-(11.01-6) = 2.99dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

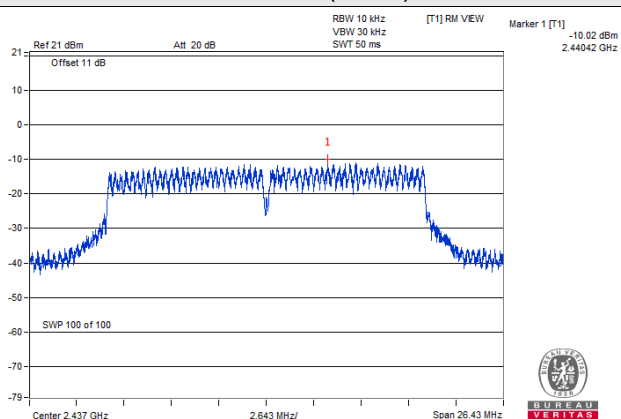
802.11b



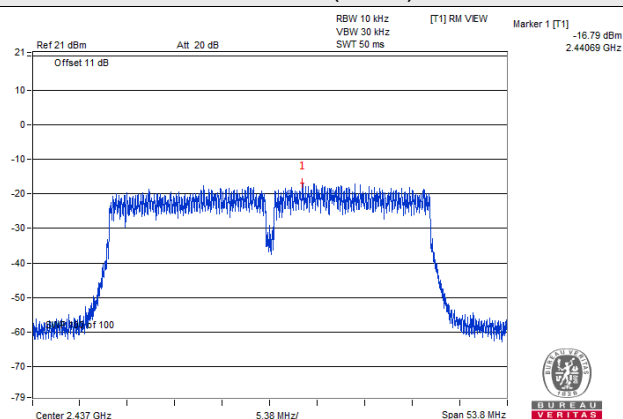
802.11g



802.11ax (HE20)



802.11ax (HE40)



Test Mode K (External antenna – PN: ATS-OP-245-810-4RPSP-36 + Eth8 Radio)

1TX

802.11b

Channel	Frequency (MHz)	PSD w/o Duty Factor (dBm/10kHz)	Duty Factor (dB)	Total PSD With Duty Factor (dBm/10kHz)	Limit (dBm/3kHz)	Pass / Fail
1	2412	-8.29	0.23	-8.06	6.00	Pass
6	2437	-8.52	0.23	-8.29	6.00	Pass
11	2462	-8.43	0.23	-8.20	6.00	Pass

Note:

1. Gain = 8dBi > 6dBi, so the power density limit shall be reduced to $8-(8-6) = 6.00\text{dBm}$.
2. Refer to section 3.3 for duty cycle spectrum plot.

802.11g

Channel	Frequency (MHz)	PSD w/o Duty Factor (dBm/10kHz)	Duty Factor (dB)	Total PSD With Duty Factor (dBm/10kHz)	Limit (dBm/3kHz)	Pass / Fail
1	2412	-12.83	0.22	-12.61	6.00	Pass
6	2437	-11.91	0.22	-11.69	6.00	Pass
11	2462	-13.81	0.22	-13.59	6.00	Pass

Note:

1. Gain = 8dBi > 6dBi, so the power density limit shall be reduced to $8-(8-6) = 6.00\text{dBm}$.
2. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE20)

Channel	Frequency (MHz)	PSD w/o Duty Factor (dBm/10kHz)	Duty Factor (dB)	Total PSD With Duty Factor (dBm/10kHz)	Limit (dBm/3kHz)	Pass / Fail
1	2412	-13.34	0.25	-13.09	6.00	Pass
6	2437	-10.77	0.25	-10.52	6.00	Pass
11	2462	-16.32	0.25	-16.07	6.00	Pass

Note:

1. Gain = 8dBi > 6dBi, so the power density limit shall be reduced to $8-(8-6) = 6.00\text{dBm}$.
2. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE40)

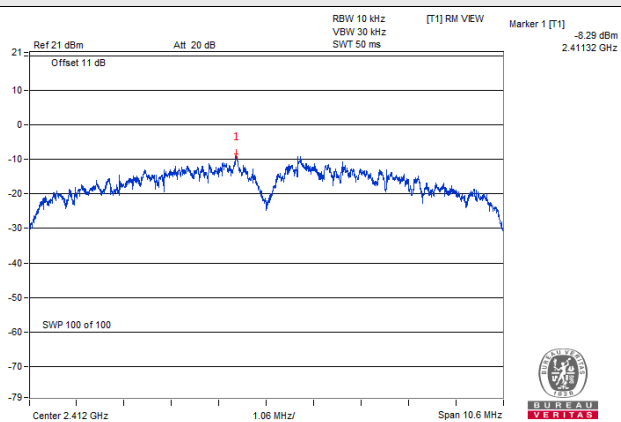
Channel	Frequency (MHz)	PSD w/o Duty Factor (dBm/10kHz)	Duty Factor (dB)	Total PSD With Duty Factor (dBm/10kHz)	Limit (dBm/3kHz)	Pass / Fail
3	2422	-16.05	0.46	-15.59	6.00	Pass
6	2437	-14.93	0.46	-14.47	6.00	Pass
9	2452	-16.22	0.46	-15.76	6.00	Pass

Note:

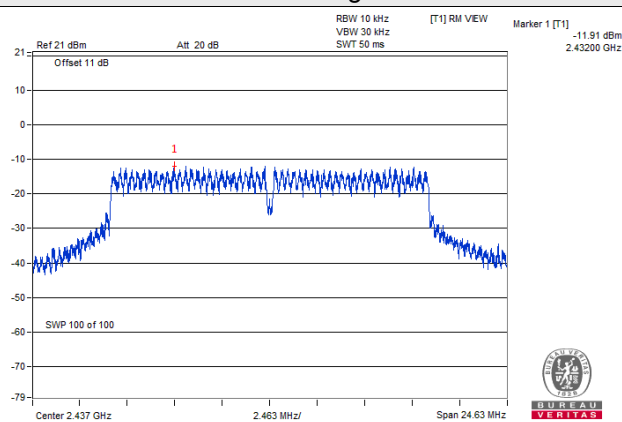
1. Gain = 8dBi > 6dBi, so the power density limit shall be reduced to $8-(8-6) = 6.00\text{dBm}$.
2. Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

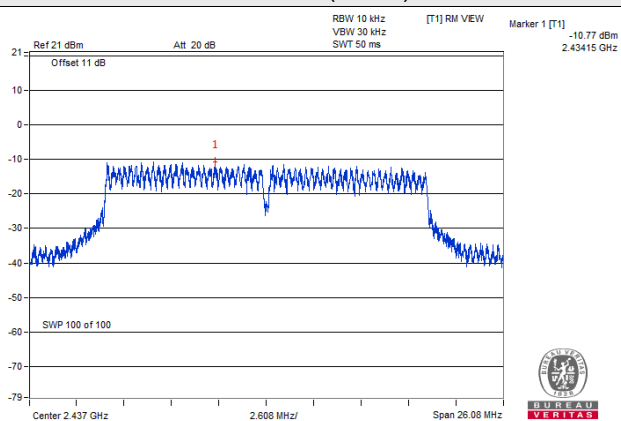
802.11b



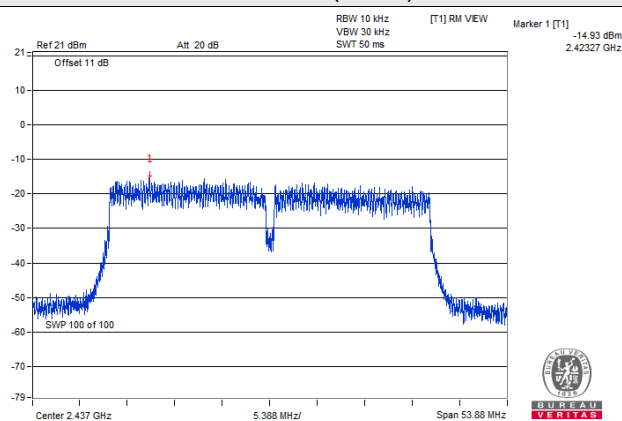
802.11g



802.11ax (HE20)



802.11ax (HE40)



2TX

802.11b

TX chain	Channel	Frequency (MHz)	PSD w/o Duty Factor (dBm/10kHz)	10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/10kHz)	Limit (dBm/3kHz)	Pass / Fail
0	1	2412	-8.29	3.01	0.23	-5.05	2.99	Pass
	6	2437	-8.52	3.01	0.23	-5.28	2.99	Pass
	11	2462	-8.43	3.01	0.23	-5.19	2.99	Pass
1	1	2412	-7.85	3.01	0.23	-4.61	2.99	Pass
	6	2437	-8.35	3.01	0.23	-5.11	2.99	Pass
	11	2462	-7.42	3.01	0.23	-4.18	2.99	Pass

Note:

1. Method E) 2) c) 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 = 8dBi + 10log(2) = 11.01dBi > 6dBi, so the power density limit shall be reduced to 8-(11.01-6) = 2.99dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11g

TX chain	Channel	Frequency (MHz)	PSD w/o Duty Factor (dBm/10kHz)	10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/10kHz)	Limit (dBm/3kHz)	Pass / Fail
0	1	2412	-13.51	3.01	0.22	-10.28	2.99	Pass
	6	2437	-11.91	3.01	0.22	-8.68	2.99	Pass
	11	2462	-15.11	3.01	0.22	-11.88	2.99	Pass
1	1	2412	-13.15	3.01	0.22	-9.92	2.99	Pass
	6	2437	-10.91	3.01	0.22	-7.68	2.99	Pass
	11	2462	-14.25	3.01	0.22	-11.02	2.99	Pass

Note:

1. Method E) 2) c) 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 = 8dBi + 10log(2) = 11.01dBi > 6dBi, so the power density limit shall be reduced to 8-(11.01-6) = 2.99dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE20)

TX chain	Channel	Frequency (MHz)	PSD w/o Duty Factor (dBm/10kHz)	10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/10kHz)	Limit (dBm/3kHz)	Pass / Fail
0	1	2412	-15.30	3.01	0.25	-12.04	2.99	Pass
	6	2437	-10.77	3.01	0.25	-7.51	2.99	Pass
	11	2462	-17.79	3.01	0.25	-14.53	2.99	Pass
1	1	2412	-14.40	3.01	0.25	-11.14	2.99	Pass
	6	2437	-9.51	3.01	0.25	-6.25	2.99	Pass
	11	2462	-16.52	3.01	0.25	-13.26	2.99	Pass

Note:

1. Method E) 2) c) 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 = 8dBi + 10log(2) = 11.01dBi > 6dBi, so the power density limit shall be reduced to 8-(11.01-6) = 2.99dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE40)

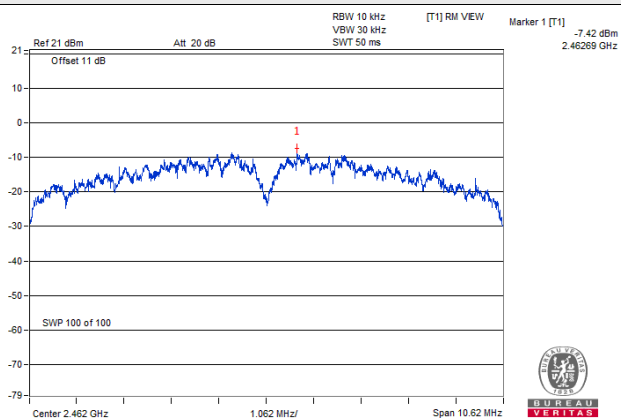
TX chain	Channel	Frequency (MHz)	PSD w/o Duty Factor (dBm/10kHz)	10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/10kHz)	Limit (dBm/3kHz)	Pass / Fail
0	3	2422	-18.22	3.01	0.46	-14.75	2.99	Pass
	6	2437	-15.74	3.01	0.46	-12.27	2.99	Pass
	9	2452	-18.33	3.01	0.46	-14.86	2.99	Pass
1	3	2422	-18.45	3.01	0.46	-14.98	2.99	Pass
	6	2437	-15.13	3.01	0.46	-11.66	2.99	Pass
	9	2452	-16.51	3.01	0.46	-13.04	2.99	Pass

Note:

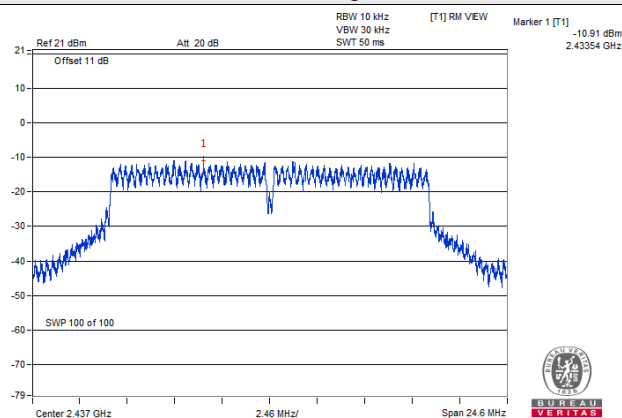
1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N_{ANT}) dB.
2. Directional gain = 8dBi + 10log(2) = 11.01dBi > 6dBi, so the power density limit shall be reduced to 8-(11.01-6) = 2.99dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

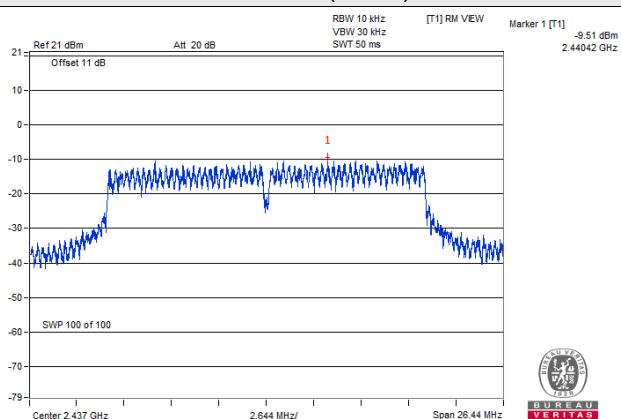
802.11b



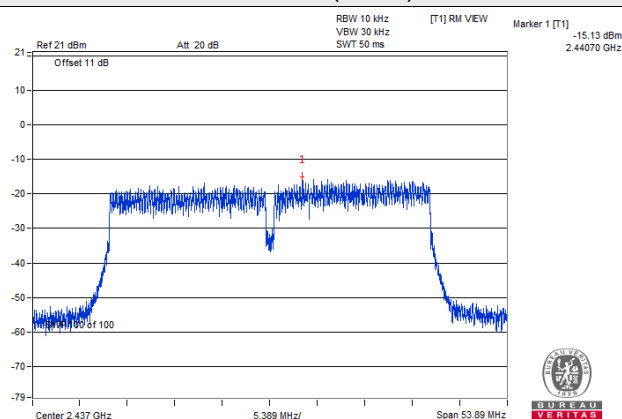
802.11g



802.11ax (HE20)



802.11ax (HE40)



3TX

802.11b

TX chain	Channel	Frequency (MHz)	PSD w/o Duty Factor (dBm/10kHz)	10 log (N=3) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/10kHz)	Limit (dBm/3kHz)	Pass / Fail
0	1	2412	-8.29	4.77	0.23	-3.29	1.23	Pass
	6	2437	-8.52	4.77	0.23	-3.52	1.23	Pass
	11	2462	-8.43	4.77	0.23	-3.43	1.23	Pass
1	1	2412	-7.85	4.77	0.23	-2.85	1.23	Pass
	6	2437	-8.35	4.77	0.23	-3.35	1.23	Pass
	11	2462	-7.42	4.77	0.23	-2.42	1.23	Pass
2	1	2412	-7.12	4.77	0.23	-2.12	1.23	Pass
	6	2437	-7.58	4.77	0.23	-2.58	1.23	Pass
	11	2462	-7.67	4.77	0.23	-2.67	1.23	Pass

Note:

- Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N_{ANT}) dB.
- Directional gain = 8dBi + 10log(3) = 12.77dBi > 6dBi, so the power density limit shall be reduced to 8-(12.77-6) = 1.23dBm.
- Refer to section 3.3 for duty cycle spectrum plot.

802.11g

TX chain	Channel	Frequency (MHz)	PSD w/o Duty Factor (dBm/10kHz)	10 log (N=3) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/10kHz)	Limit (dBm/3kHz)	Pass / Fail
0	1	2412	-14.02	4.77	0.22	-9.03	1.23	Pass
	6	2437	-11.91	4.77	0.22	-6.92	1.23	Pass
	11	2462	-15.22	4.77	0.22	-10.23	1.23	Pass
1	1	2412	-14.03	4.77	0.22	-9.04	1.23	Pass
	6	2437	-10.91	4.77	0.22	-5.92	1.23	Pass
	11	2462	-14.40	4.77	0.22	-9.41	1.23	Pass
2	1	2412	-14.75	4.77	0.22	-9.76	1.23	Pass
	6	2437	-10.17	4.77	0.22	-5.18	1.23	Pass
	11	2462	-14.97	4.77	0.22	-9.98	1.23	Pass

Note:

- Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N_{ANT}) dB.
- Directional gain = 8dBi + 10log(3) = 12.77dBi > 6dBi, so the power density limit shall be reduced to 8-(12.77-6) = 1.23dBm.
- Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE20)

TX chain	Channel	Frequency (MHz)	PSD w/o Duty Factor (dBm/10kHz)	10 log (N=3) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/10kHz)	Limit (dBm/3kHz)	Pass / Fail
0	1	2412	-15.78	4.77	0.25	-10.76	1.23	Pass
	6	2437	-11.18	4.77	0.25	-6.16	1.23	Pass
	11	2462	-18.05	4.77	0.25	-13.03	1.23	Pass
1	1	2412	-15.48	4.77	0.25	-10.46	1.23	Pass
	6	2437	-10.08	4.77	0.25	-5.06	1.23	Pass
	11	2462	-17.21	4.77	0.25	-12.19	1.23	Pass
2	1	2412	-15.96	4.77	0.25	-10.94	1.23	Pass
	6	2437	-10.41	4.77	0.25	-5.39	1.23	Pass
	11	2462	-18.04	4.77	0.25	-13.02	1.23	Pass

Note:

1. Method E) 2) c) 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 = $8\text{dBi} + 10\log(3) = 12.77\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $8-(12.77-6) = 1.23\text{dBm}$.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE40)

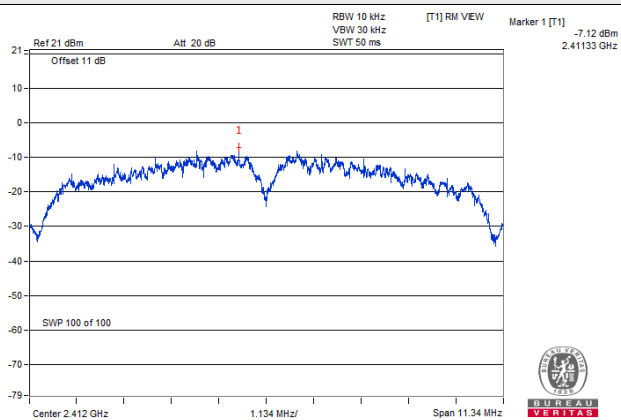
TX chain	Channel	Frequency (MHz)	PSD w/o Duty Factor (dBm/10kHz)	10 log (N=3) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/10kHz)	Limit (dBm/3kHz)	Pass / Fail
0	3	2422	-18.74	4.77	0.46	-13.51	1.23	Pass
	6	2437	-16.17	4.77	0.46	-10.94	1.23	Pass
	9	2452	-18.62	4.77	0.46	-13.39	1.23	Pass
1	3	2422	-18.53	4.77	0.46	-13.30	1.23	Pass
	6	2437	-15.84	4.77	0.46	-10.61	1.23	Pass
	9	2452	-18.24	4.77	0.46	-13.01	1.23	Pass
2	3	2422	-19.03	4.77	0.46	-13.80	1.23	Pass
	6	2437	-16.26	4.77	0.46	-11.03	1.23	Pass
	9	2452	-18.14	4.77	0.46	-12.91	1.23	Pass

Note:

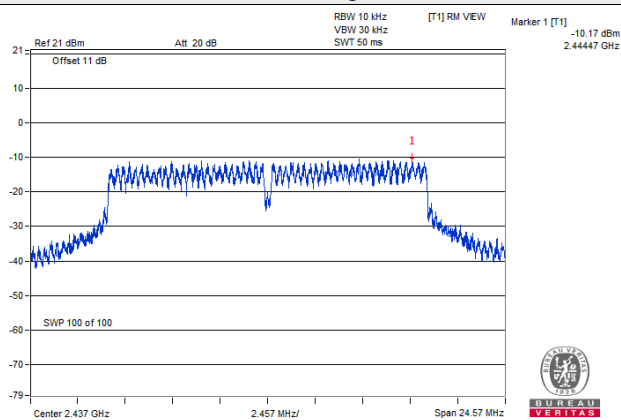
1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add $10 \log (N_{ANT})$ dB.
2. Directional gain = $8\text{dBi} + 10\log(3) = 12.77\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $8-(12.77-6) = 1.23\text{dBm}$.
3. Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

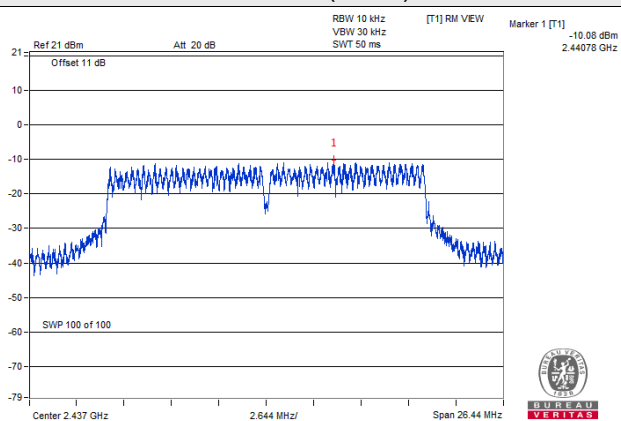
802.11b



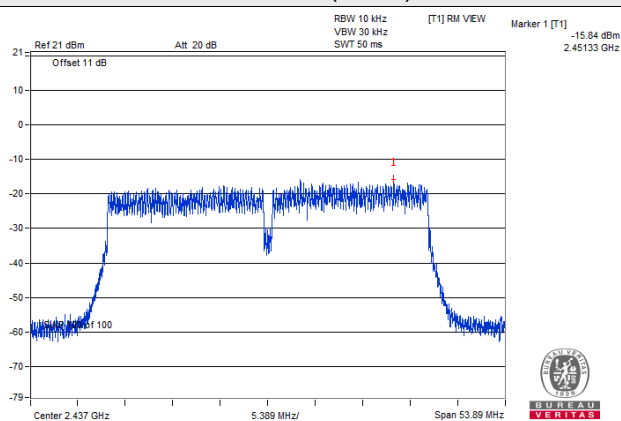
802.11g



802.11ax (HE20)



802.11ax (HE40)



4TX

802.11b

TX chain	Channel	Frequency (MHz)	PSD w/o Duty Factor (dBm/10kHz)	10 log (N=4) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/10kHz)	Limit (dBm/3kHz)	Pass / Fail
0	1	2412	-8.29	6.02	0.23	-2.04	-0.02	Pass
	6	2437	-8.52	6.02	0.23	-2.27	-0.02	Pass
	11	2462	-8.43	6.02	0.23	-2.18	-0.02	Pass
1	1	2412	-7.85	6.02	0.23	-1.60	-0.02	Pass
	6	2437	-8.35	6.02	0.23	-2.10	-0.02	Pass
	11	2462	-7.42	6.02	0.23	-1.17	-0.02	Pass
2	1	2412	-7.12	6.02	0.23	-0.87	-0.02	Pass
	6	2437	-7.58	6.02	0.23	-1.33	-0.02	Pass
	11	2462	-7.67	6.02	0.23	-1.42	-0.02	Pass
3	1	2412	-8.72	6.02	0.23	-2.47	-0.02	Pass
	6	2437	-8.16	6.02	0.23	-1.91	-0.02	Pass
	11	2462	-8.16	6.02	0.23	-1.91	-0.02	Pass

Note:

1. Method E) 2) c) 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 = $8\text{dBi} + 10\log(4) = 14.02\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $8 - (14.02 - 6) = -0.02\text{dBm}$.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11g

TX chain	Channel	Frequency (MHz)	PSD w/o Duty Factor (dBm/10kHz)	10 log (N=4) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/10kHz)	Limit (dBm/3kHz)	Pass / Fail
0	1	2412	-16.18	6.02	0.24	-9.92	-0.02	Pass
	6	2437	-11.91	6.02	0.24	-5.65	-0.02	Pass
	11	2462	-16.55	6.02	0.24	-10.29	-0.02	Pass
1	1	2412	-15.43	6.02	0.24	-9.17	-0.02	Pass
	6	2437	-10.91	6.02	0.24	-4.65	-0.02	Pass
	11	2462	-15.85	6.02	0.24	-9.59	-0.02	Pass
2	1	2412	-15.01	6.02	0.24	-8.75	-0.02	Pass
	6	2437	-10.17	6.02	0.24	-3.91	-0.02	Pass
	11	2462	-15.31	6.02	0.24	-9.05	-0.02	Pass
3	1	2412	-15.39	6.02	0.24	-9.13	-0.02	Pass
	6	2437	-10.47	6.02	0.24	-4.21	-0.02	Pass
	11	2462	-16.24	6.02	0.24	-9.98	-0.02	Pass

Note:

1. Method E) 2) c) 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 = 8dBi + 10log(4) = 14.02dBi > 6dBi, so the power density limit shall be reduced to 8-(14.02-6) = -0.02dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE20)

TX chain	Channel	Frequency (MHz)	PSD w/o Duty Factor (dBm/10kHz)	10 log (N=4) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/10kHz)	Limit (dBm/3kHz)	Pass / Fail
0	1	2412	-17.71	6.02	0.23	-11.46	-0.02	Pass
	6	2437	-11.85	6.02	0.23	-5.60	-0.02	Pass
	11	2462	-19.02	6.02	0.23	-12.77	-0.02	Pass
1	1	2412	-16.72	6.02	0.23	-10.47	-0.02	Pass
	6	2437	-11.35	6.02	0.23	-5.10	-0.02	Pass
	11	2462	-18.63	6.02	0.23	-12.38	-0.02	Pass
2	1	2412	-16.10	6.02	0.23	-9.85	-0.02	Pass
	6	2437	-10.88	6.02	0.23	-4.63	-0.02	Pass
	11	2462	-18.40	6.02	0.23	-12.15	-0.02	Pass
3	1	2412	-16.86	6.02	0.23	-10.61	-0.02	Pass
	6	2437	-11.60	6.02	0.23	-5.35	-0.02	Pass
	11	2462	-18.53	6.02	0.23	-12.28	-0.02	Pass

Note:

1. Method E) 2) c) 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 = 8dBi + 10log(4) = 14.02dBi > 6dBi, so the power density limit shall be reduced to 8-(14.02-6) = -0.02dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE40)

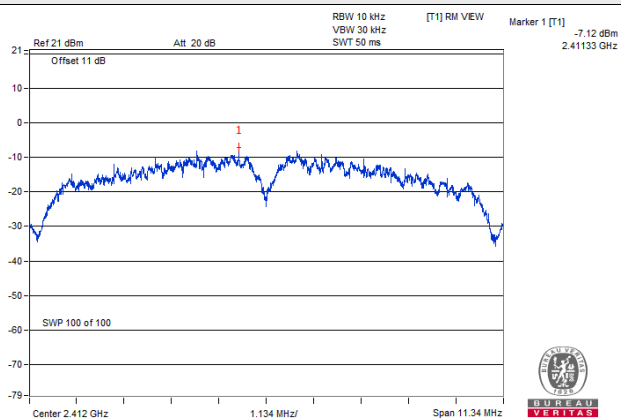
TX chain	Channel	Frequency (MHz)	PSD w/o Duty Factor (dBm/10kHz)	10 log (N=4) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/10kHz)	Limit (dBm/3kHz)	Pass / Fail
0	3	2422	-21.04	6.02	0.46	-14.56	-0.02	Pass
	6	2437	-18.96	6.02	0.46	-12.48	-0.02	Pass
	9	2452	-19.83	6.02	0.46	-13.35	-0.02	Pass
1	3	2422	-20.32	6.02	0.46	-13.84	-0.02	Pass
	6	2437	-17.89	6.02	0.46	-11.41	-0.02	Pass
	9	2452	-19.40	6.02	0.46	-12.92	-0.02	Pass
2	3	2422	-20.10	6.02	0.46	-13.62	-0.02	Pass
	6	2437	-17.83	6.02	0.46	-11.35	-0.02	Pass
	9	2452	-18.69	6.02	0.46	-12.21	-0.02	Pass
3	3	2422	-20.80	6.02	0.46	-14.32	-0.02	Pass
	6	2437	-17.21	6.02	0.46	-10.73	-0.02	Pass
	9	2452	-19.65	6.02	0.46	-13.17	-0.02	Pass

Note:

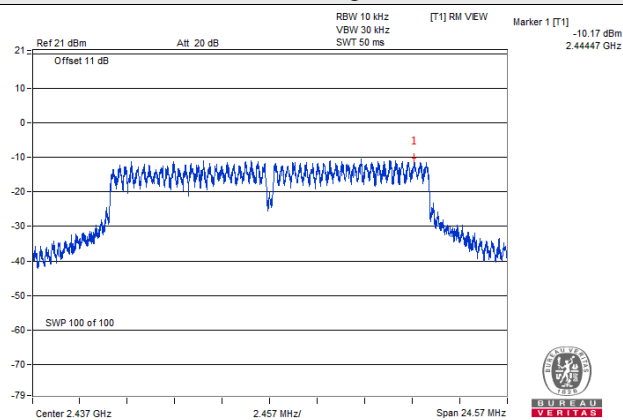
- Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N_{ANT}) dB.
- Directional gain = 8dBi + 10log(4) = 14.02dBi > 6dBi, so the power density limit shall be reduced to 8-(14.02-6) = -0.02dBm.
- Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

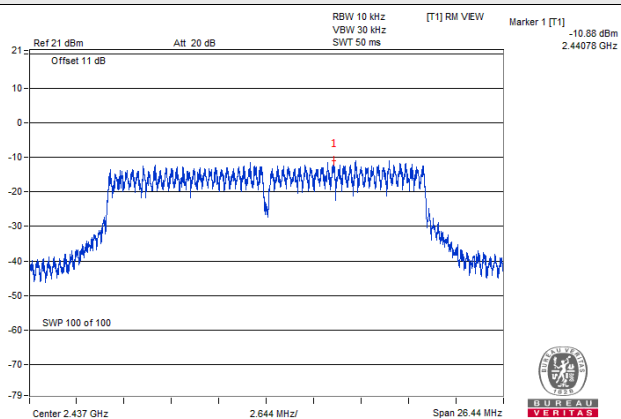
802.11b



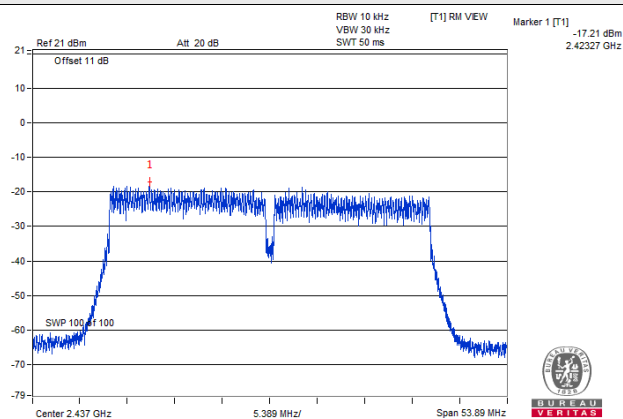
802.11g



802.11ax (HE20)



802.11ax (HE40)



4.6 Conducted Out of Band Emission Measurement

4.6.1 Limits of Conducted Out of Band Emission Measurement

Below -30dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).

4.6.2 Test Setup



4.6.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.6.4 Test Procedure

MEASUREMENT PROCEDURE REF

- Set the RBW = 100 kHz.
- Set the VBW $\geq$ 300 kHz.
- Detector = peak.
- Sweep time = auto couple.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.

MEASUREMENT PROCEDURE OOB

- Set RBW = 100 kHz.
- Set VBW $\geq$ 300 kHz.
- Detector = peak.
- Sweep = auto couple.
- Trace Mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum amplitude level.

4.6.5 Deviation from Test Standard

No deviation.

4.6.6 EUT Operating Condition

Same as item 4.3.6

4.6.7 Test Results

The conducted emission test is performed on each TX port of operating mode without summing or adding 10log (N) since the limit is relative emission limit.

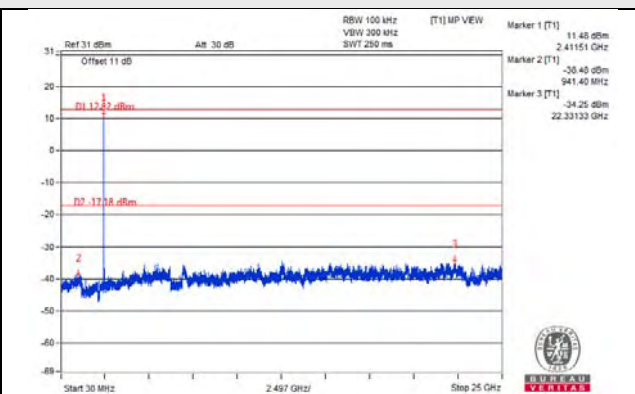
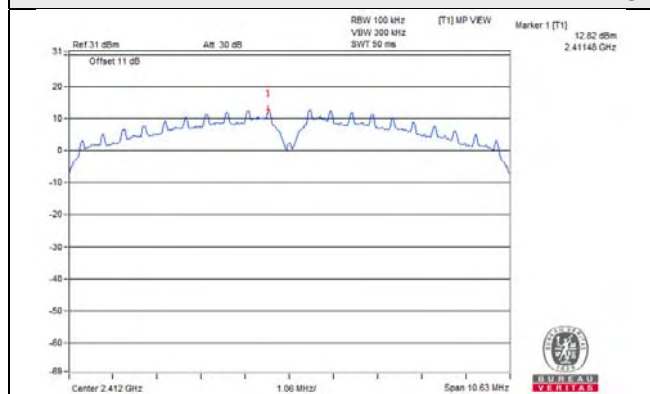
The spectrum plots are attached on the following pages. D1 line indicates the highest level, and D2 line indicates the 30dB offset below D1. It shows compliance with the requirement.

Test Mode A (Internal antenna + Eth7 Radio)

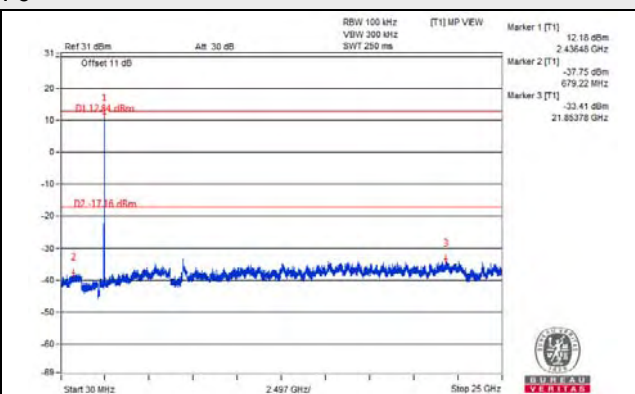
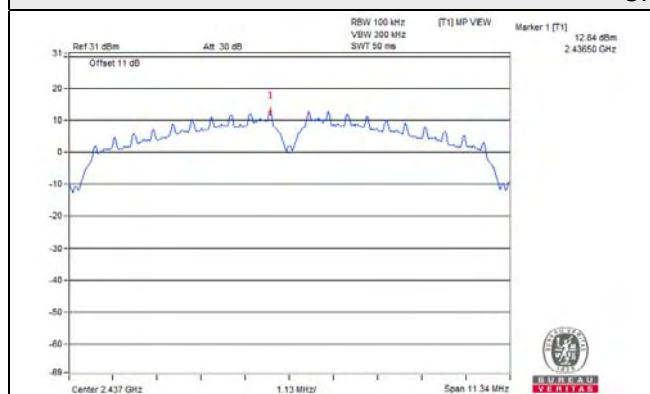
1TX

802.11b

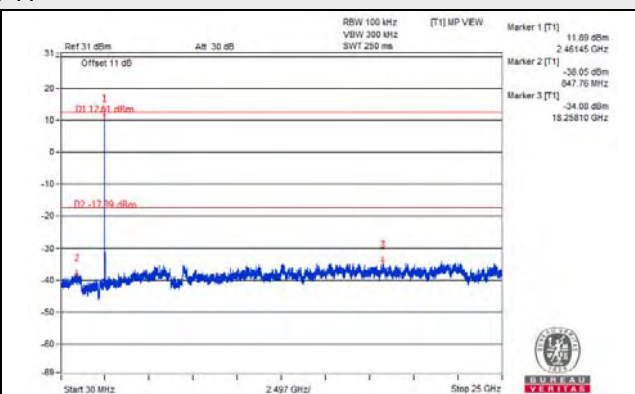
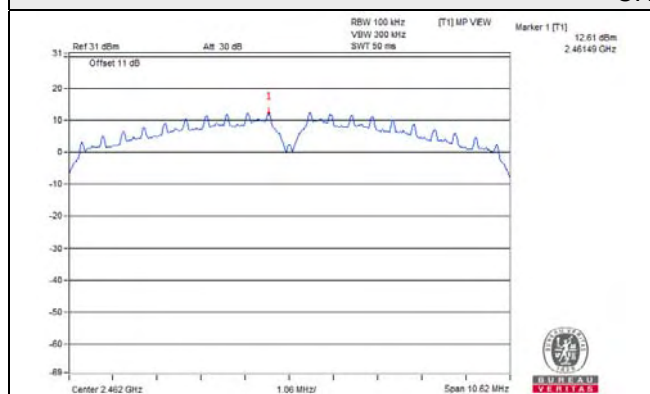
CH 1



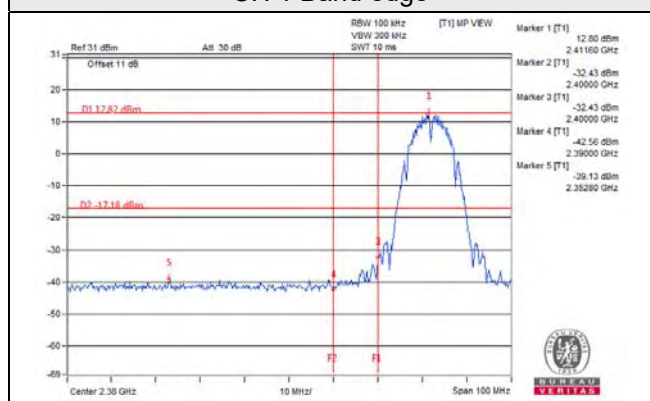
CH 6



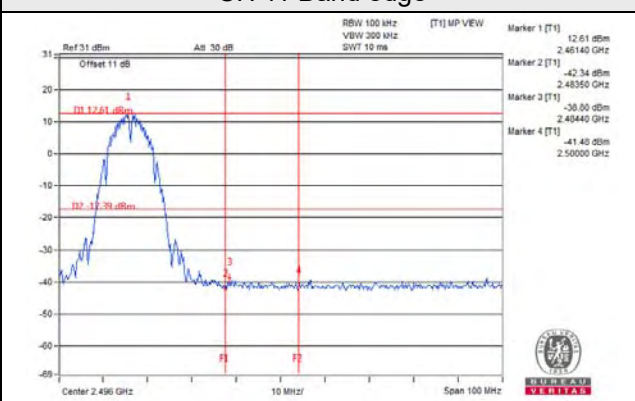
CH 11



CH 1 Band edge

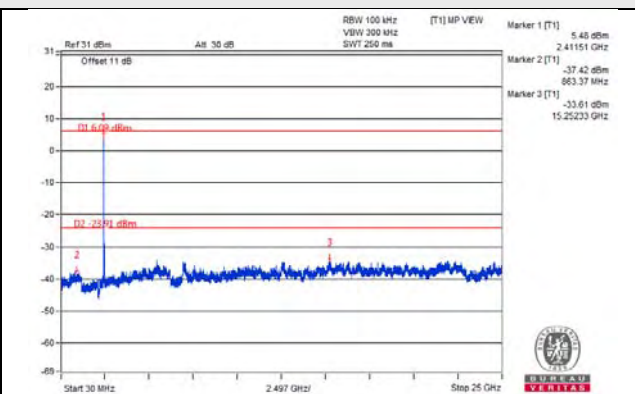
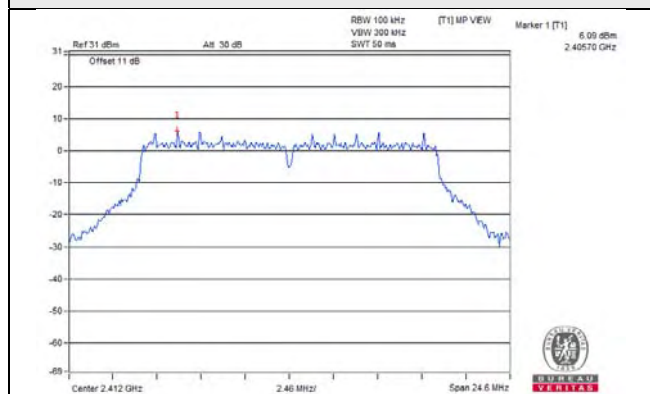


CH 11 Band edge

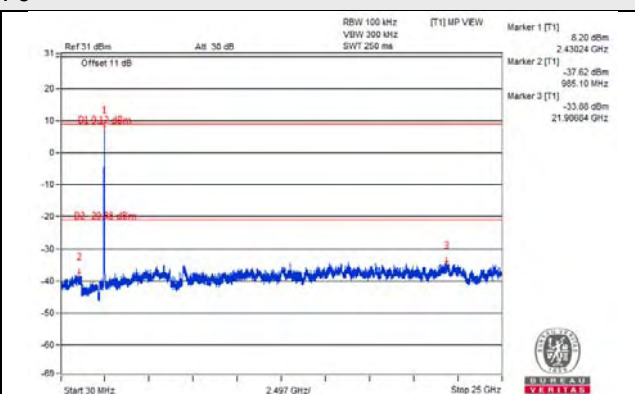
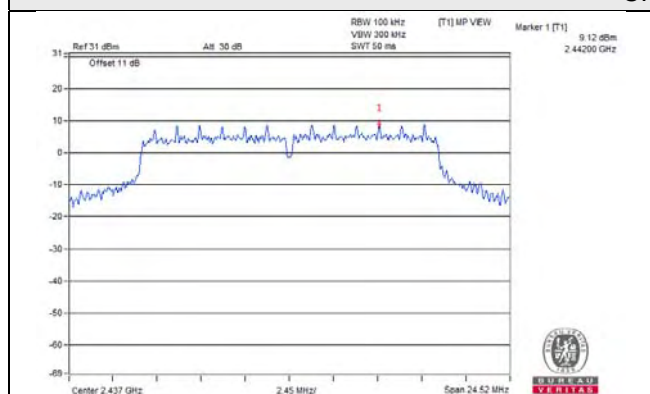


802.11g

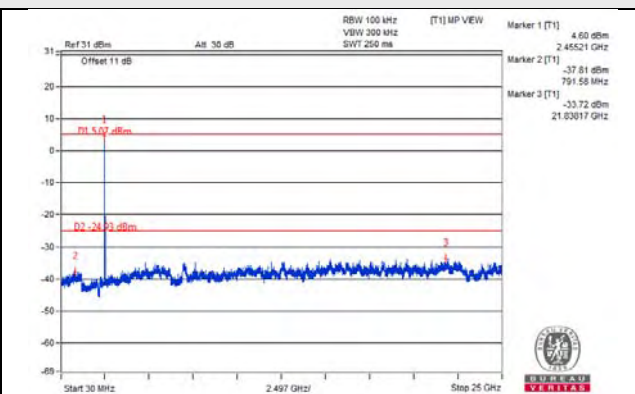
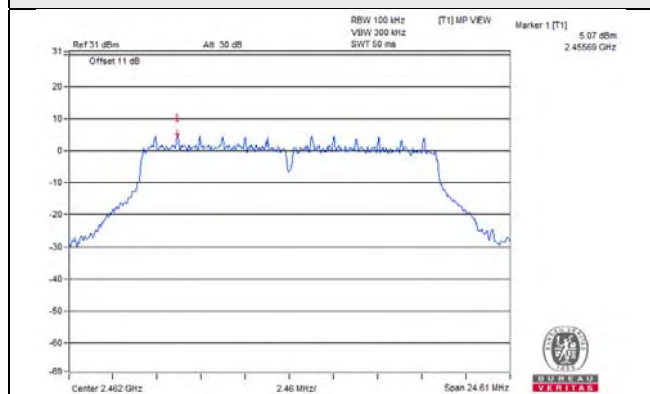
CH 1



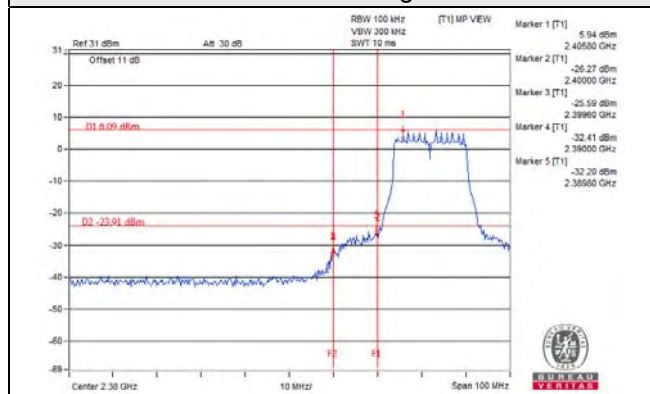
CH 6



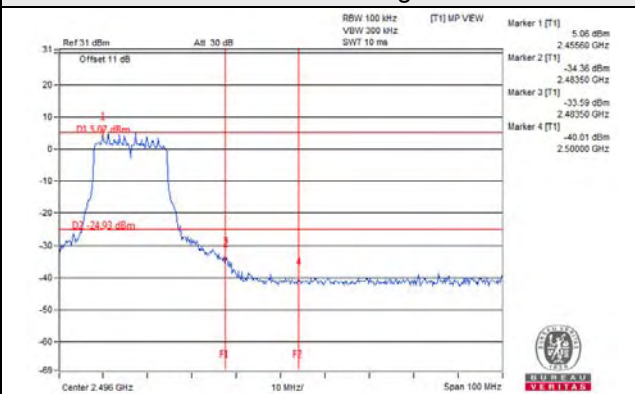
CH 11



CH 1 Band edge

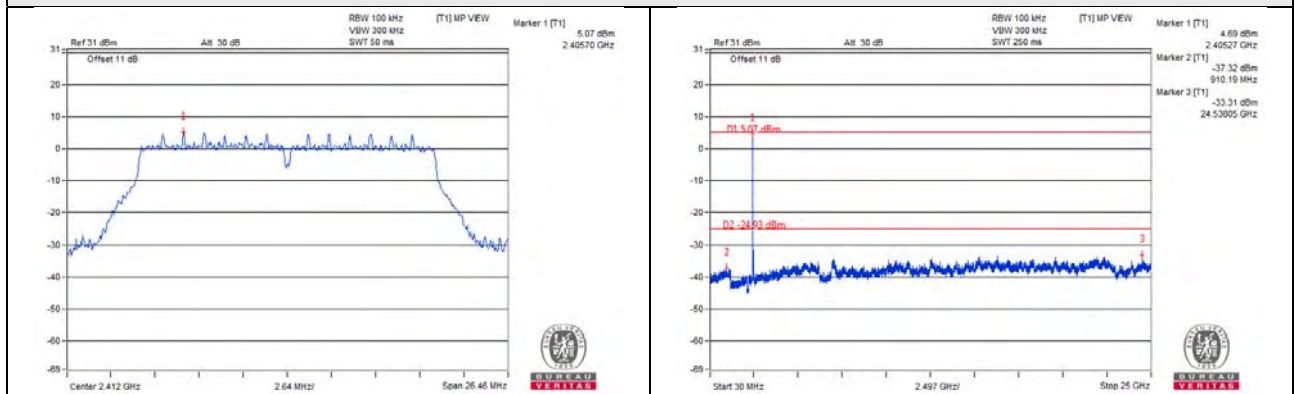


CH 11 Band edge

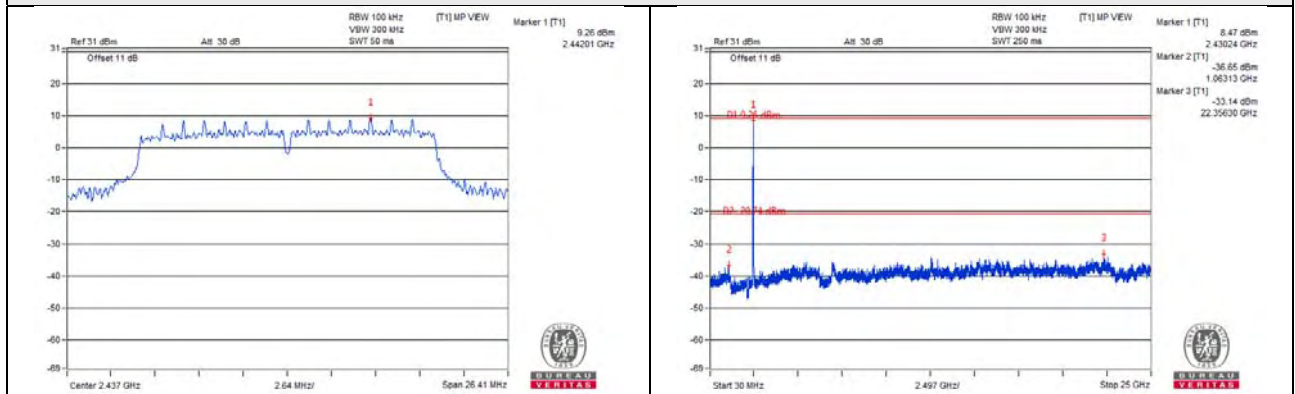


802.11ax (HE20)

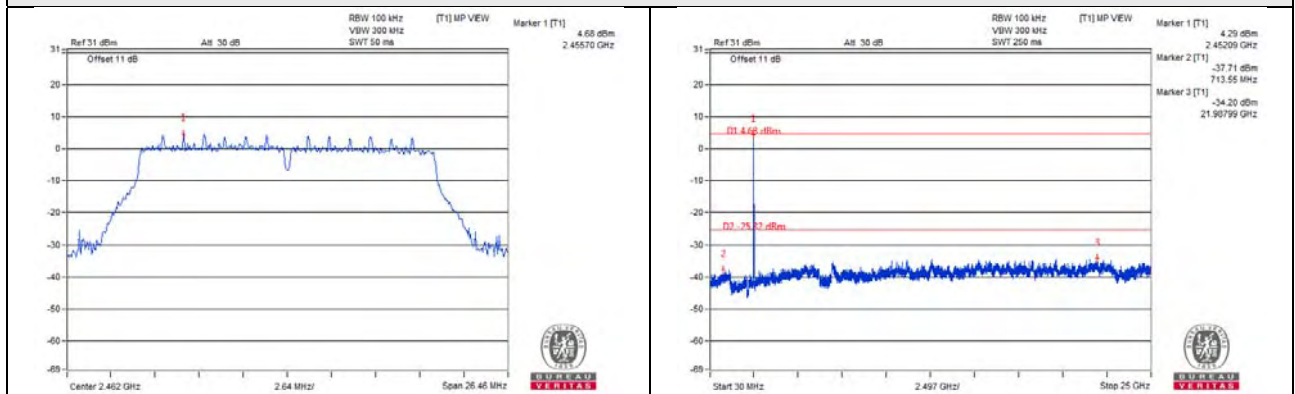
CH 1



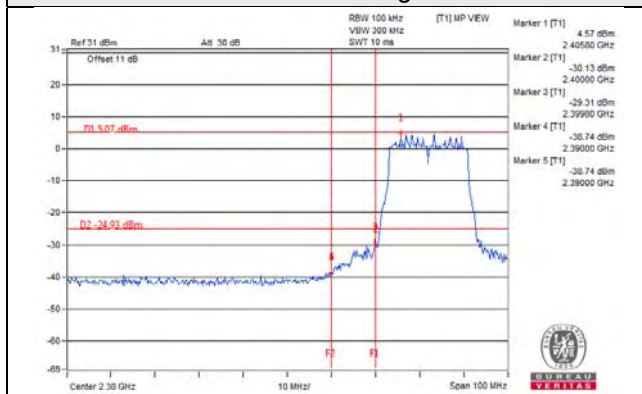
CH 6



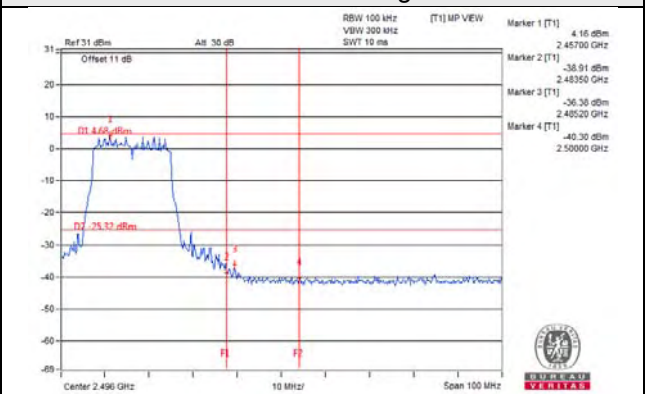
CH 11



CH 1 Band edge

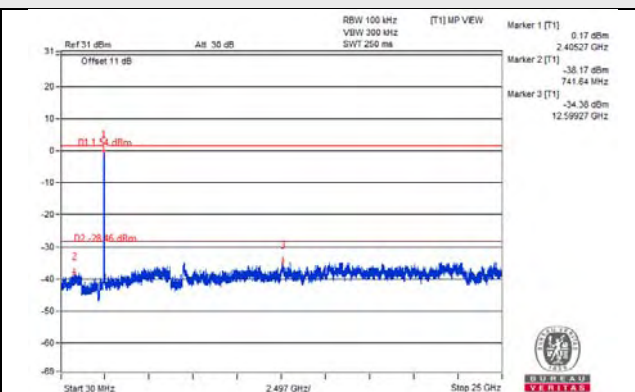
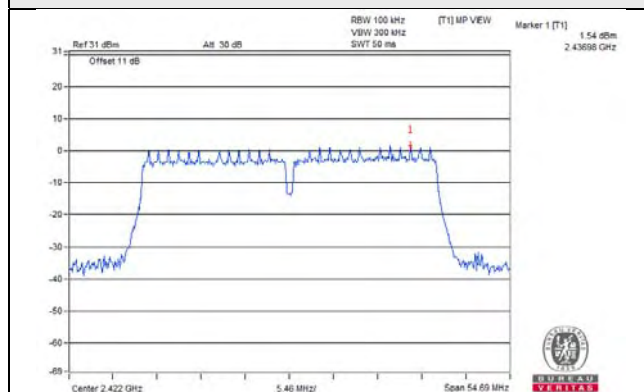


CH 11 Band edge

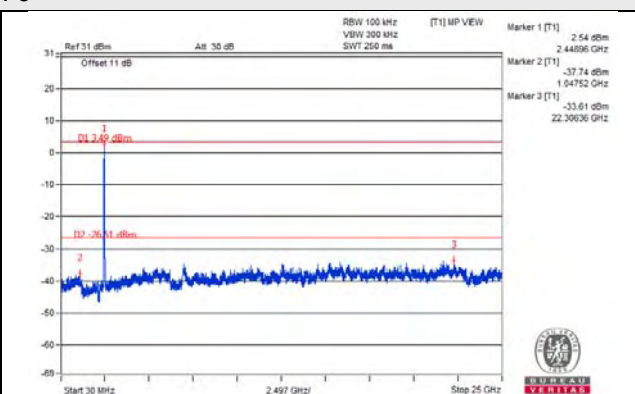
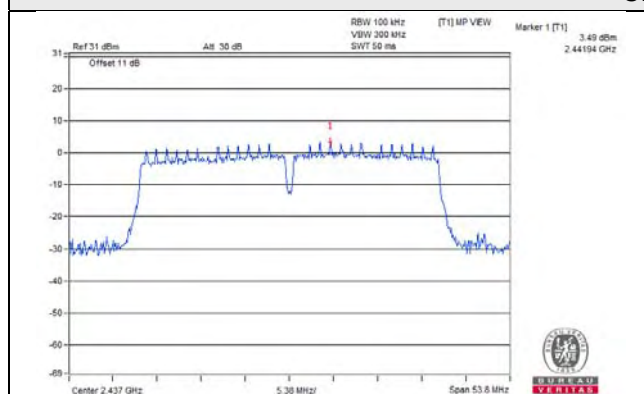


802.11ax (HE40)

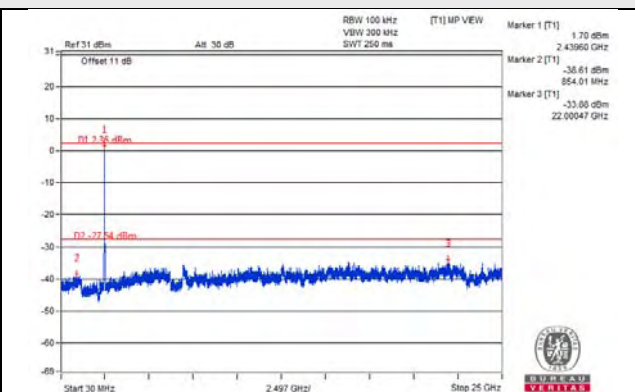
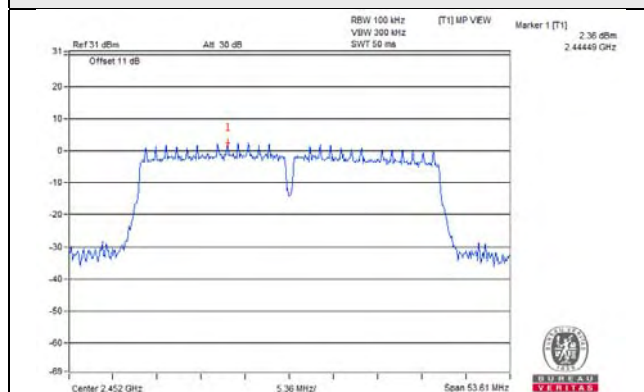
CH 3



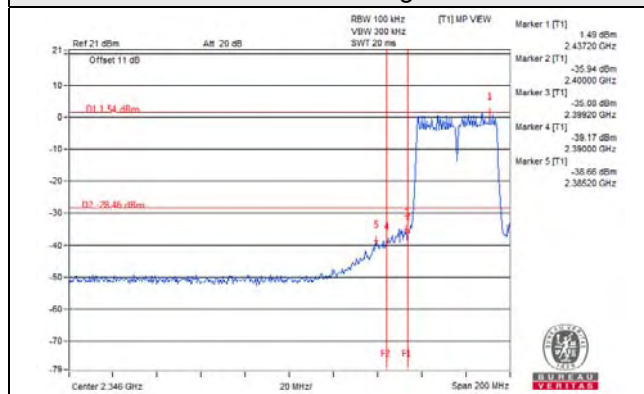
CH 6



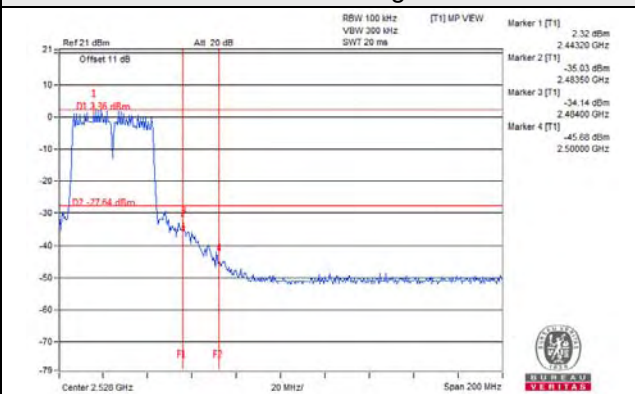
CH 9



CH 3 Band edge



CH 9 Band edge

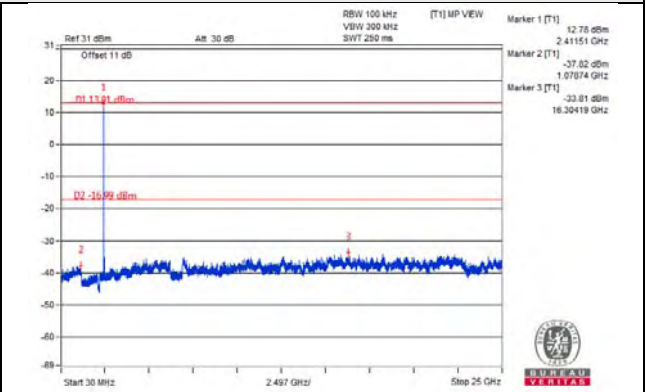
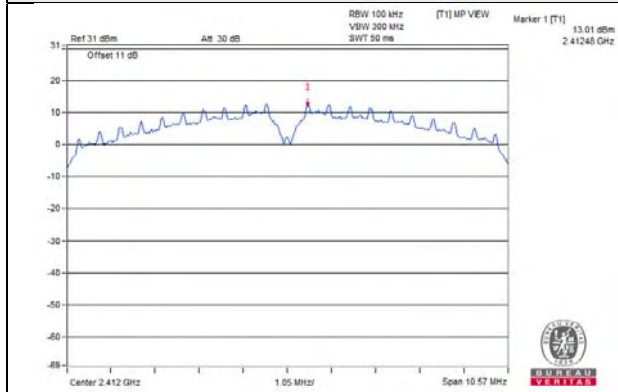


Test Mode C (Internal antenna + Eth8 Radio)

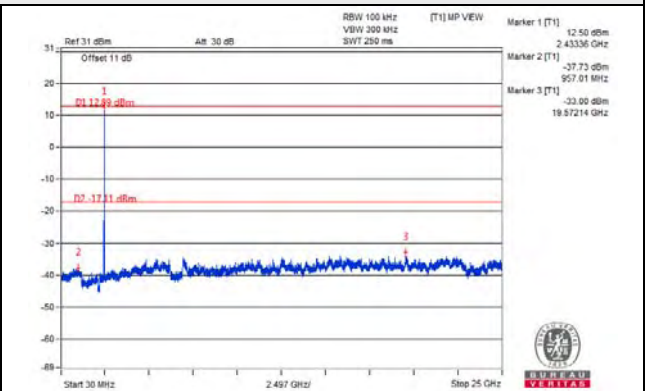
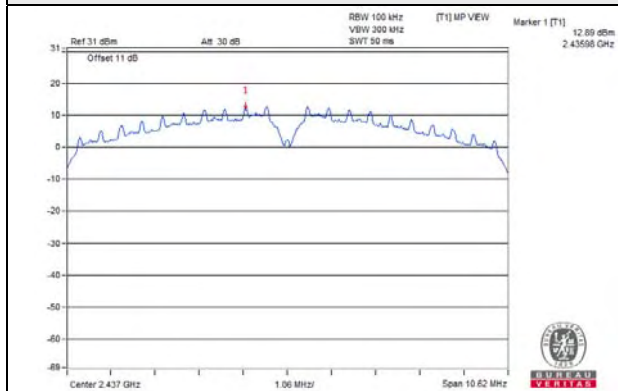
1TX

802.11b

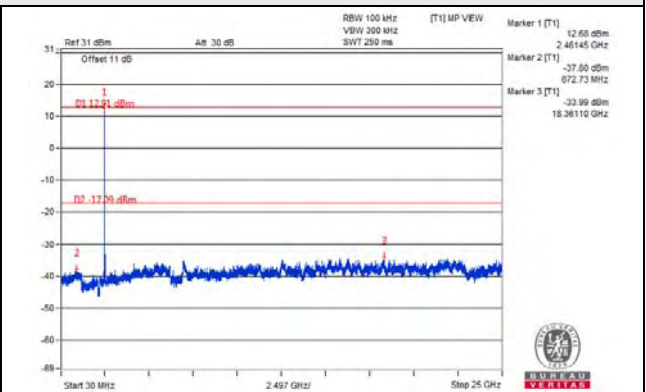
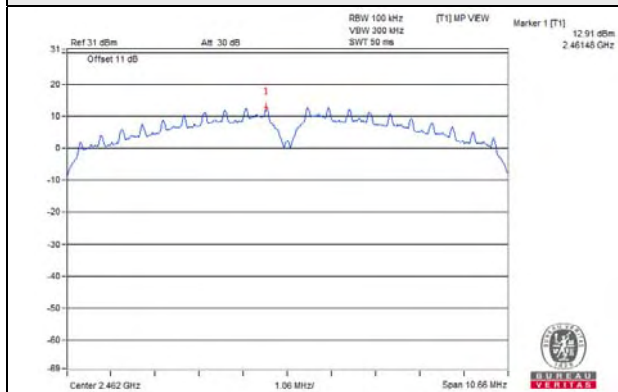
CH 1



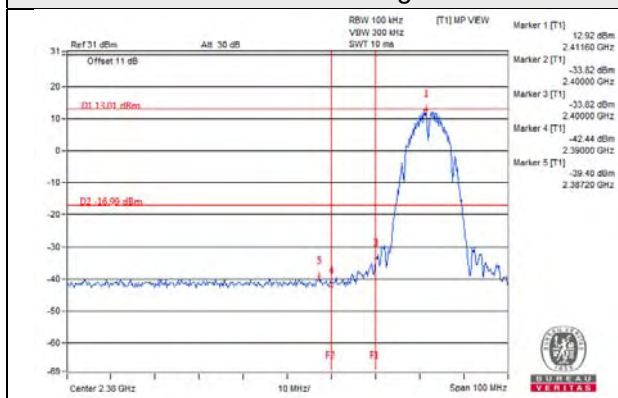
CH 6



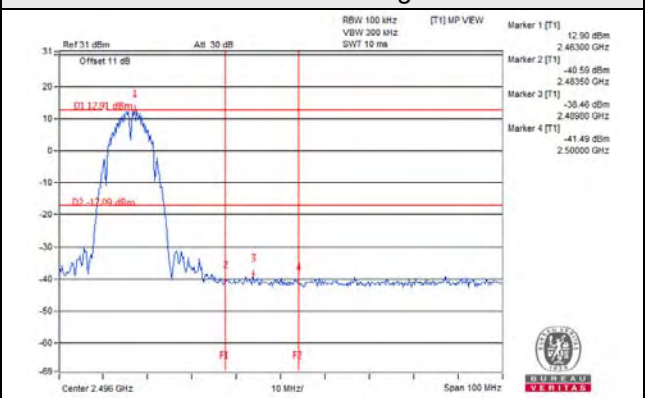
CH 11



CH 1 Band edge

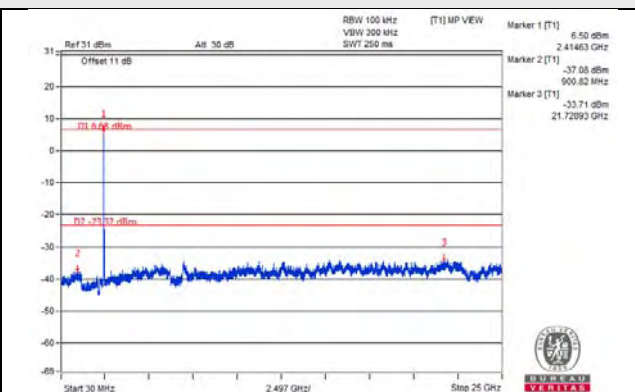
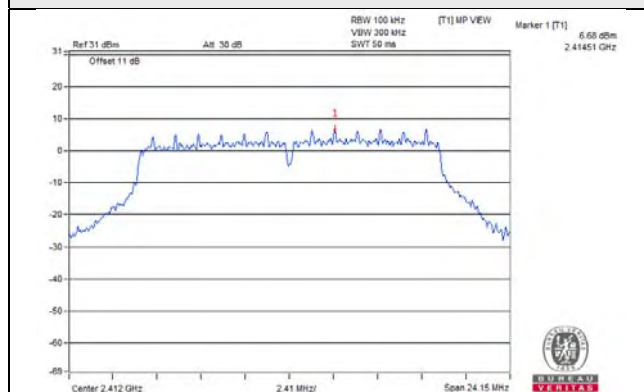


CH 11 Band edge

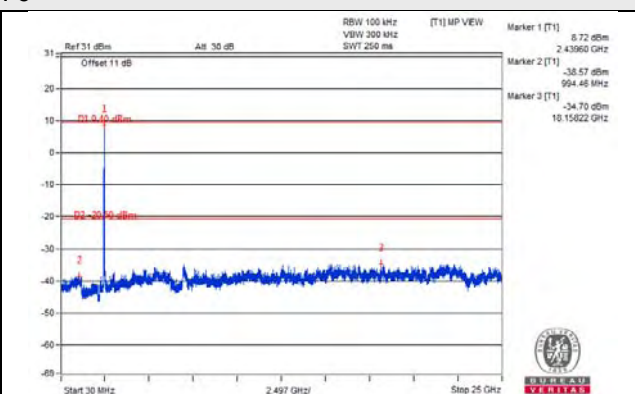
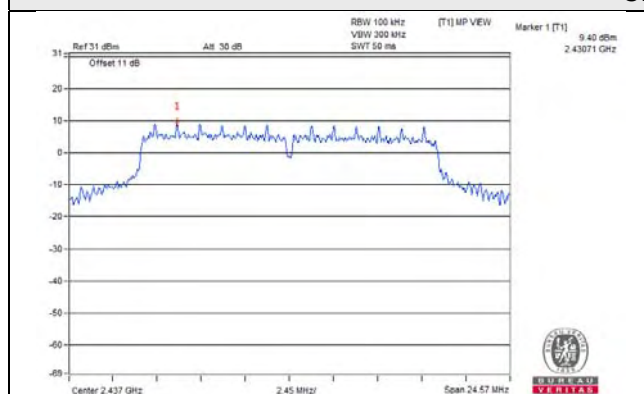


802.11g

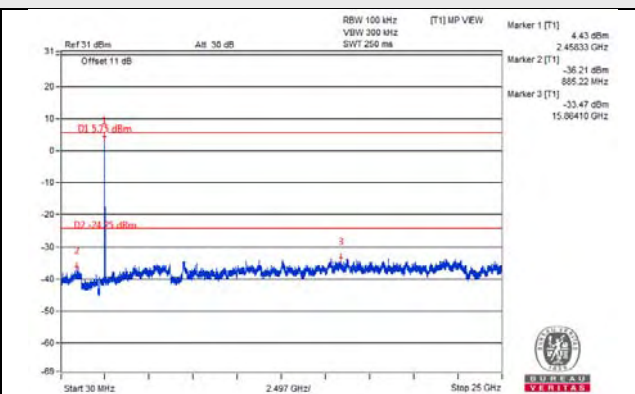
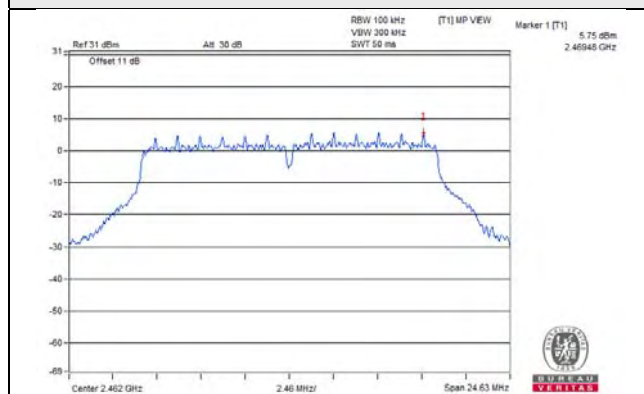
CH 1



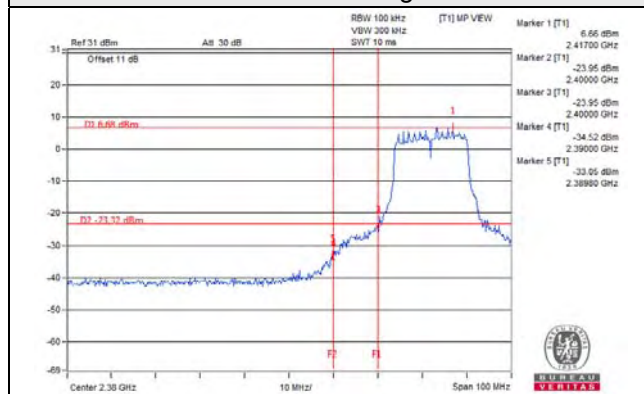
CH 6



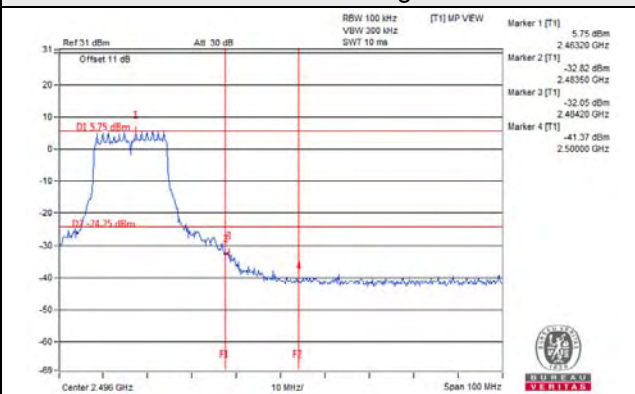
CH 11



CH 1 Band edge

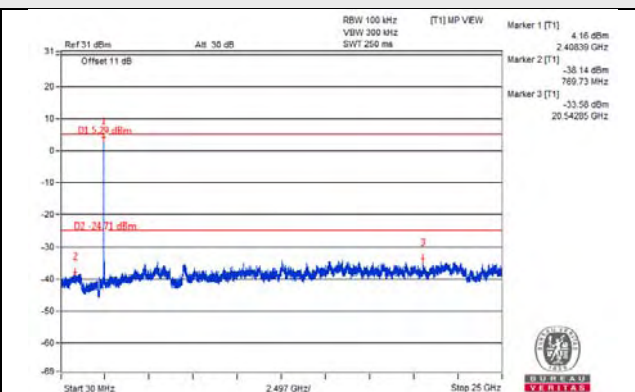
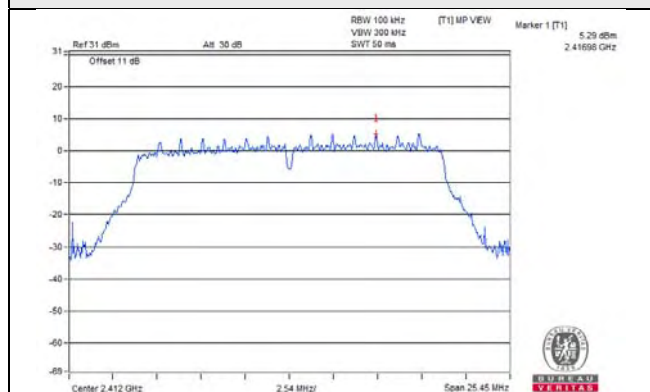


CH 11 Band edge

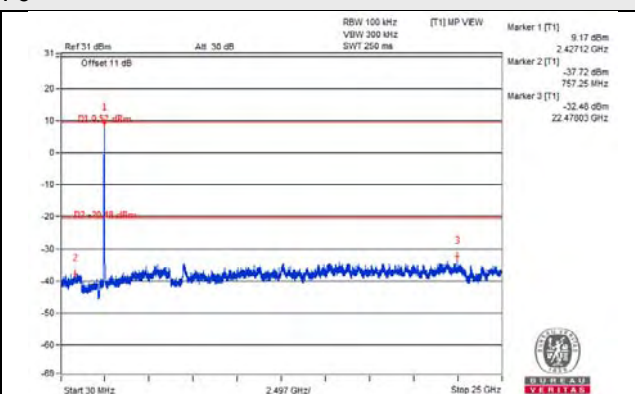
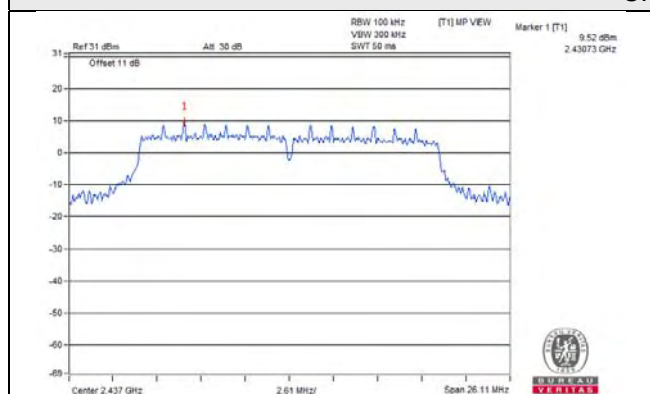


802.11ax (HE20)

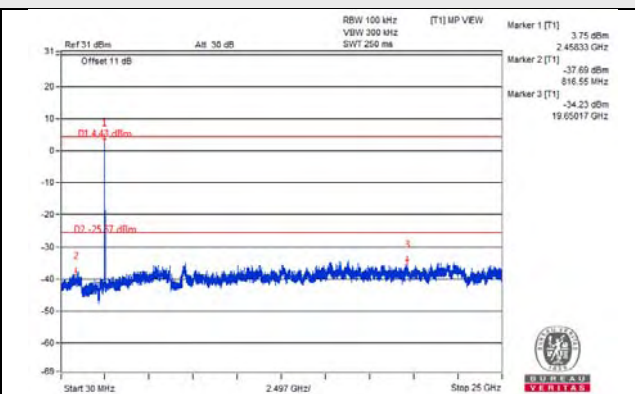
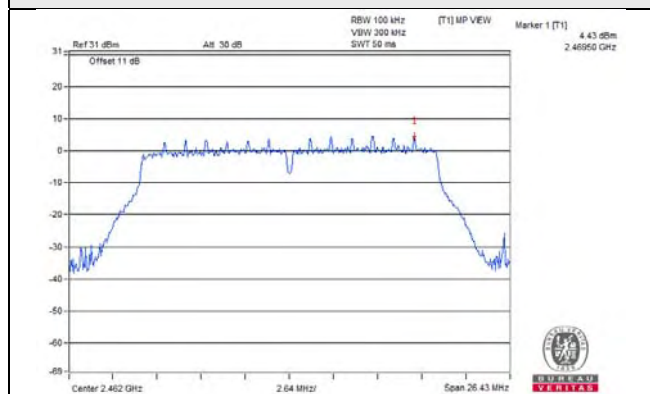
CH 1



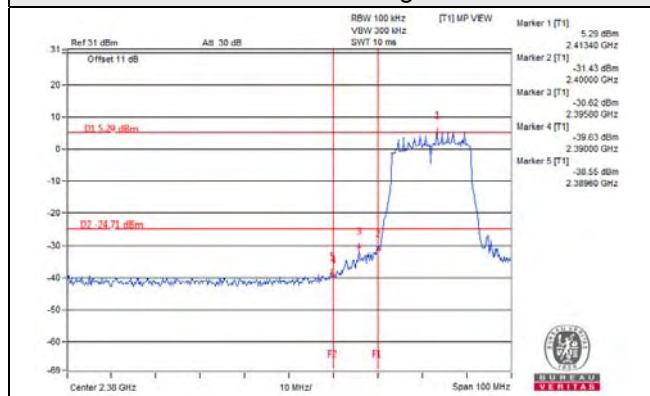
CH 6



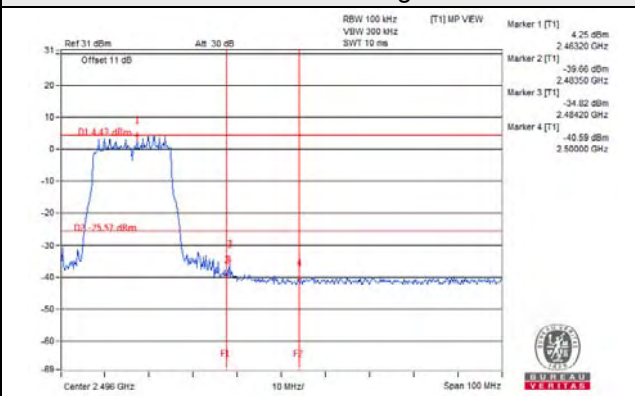
CH 11



CH 1 Band edge

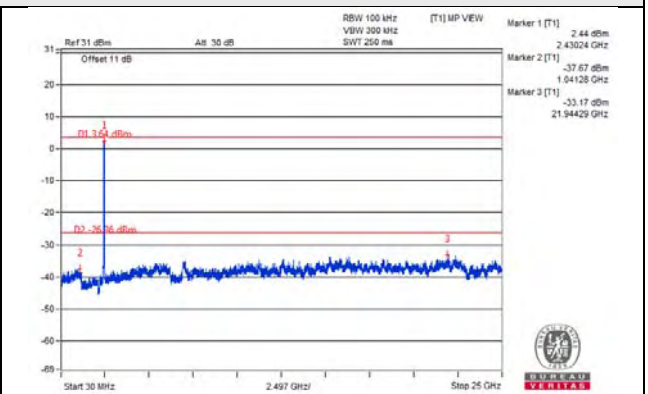
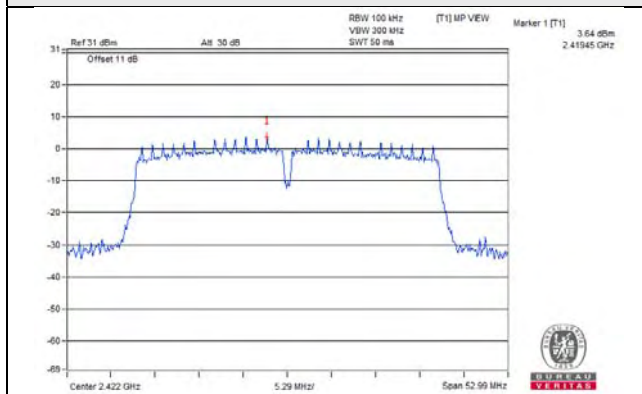


CH 11 Band edge

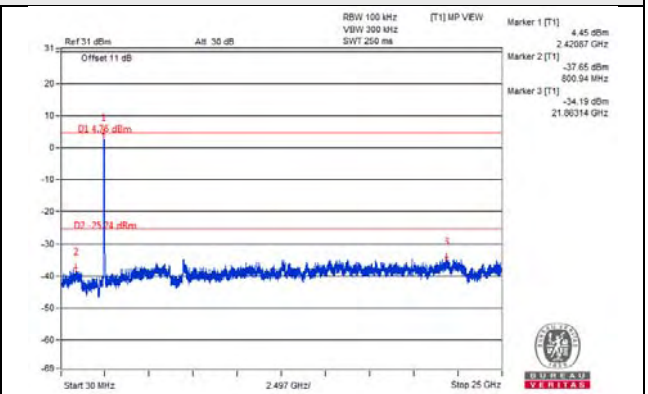
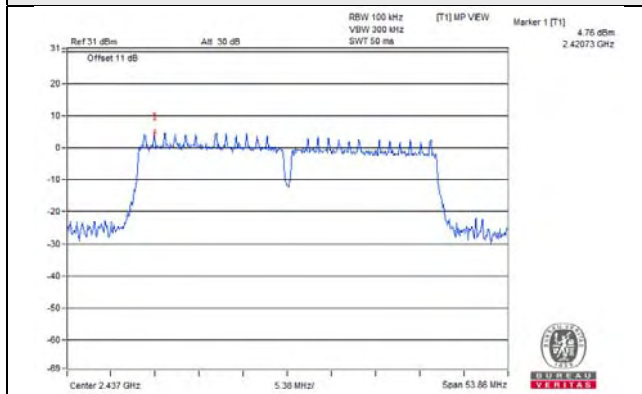


802.11ax (HE40)

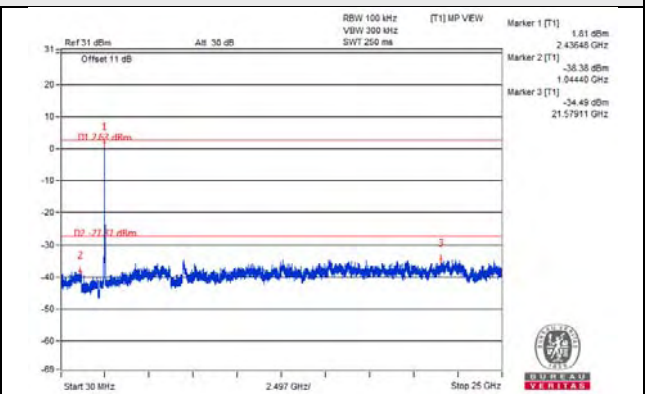
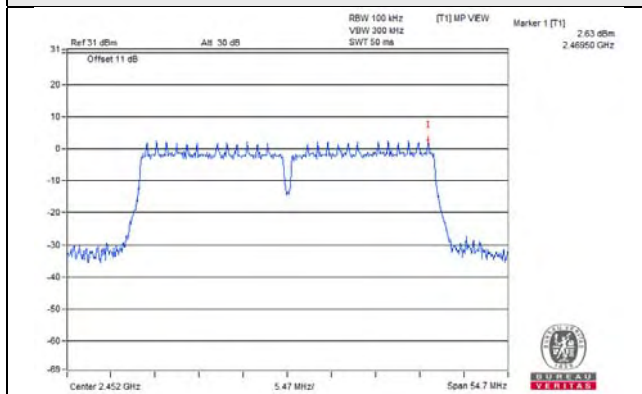
CH 3



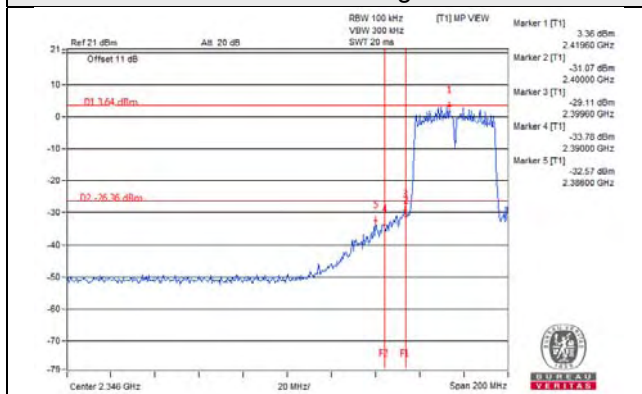
CH 6



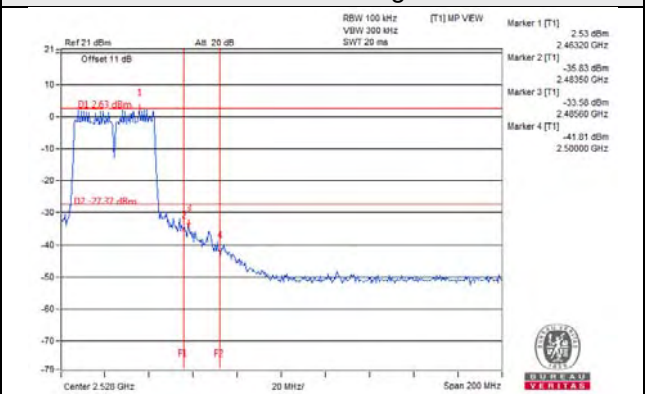
CH 9



CH 3 Band edge



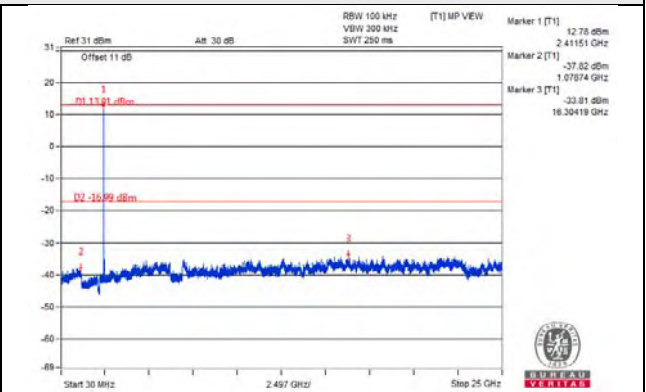
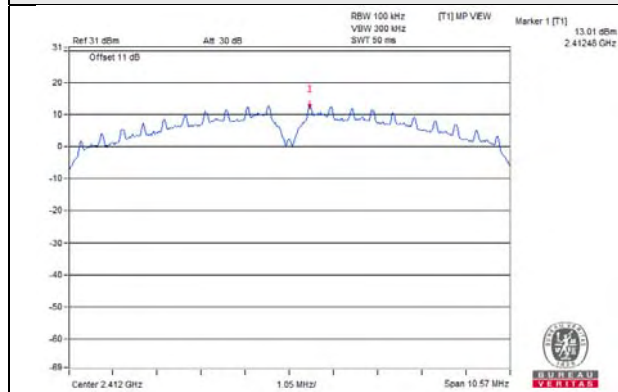
CH 9 Band edge



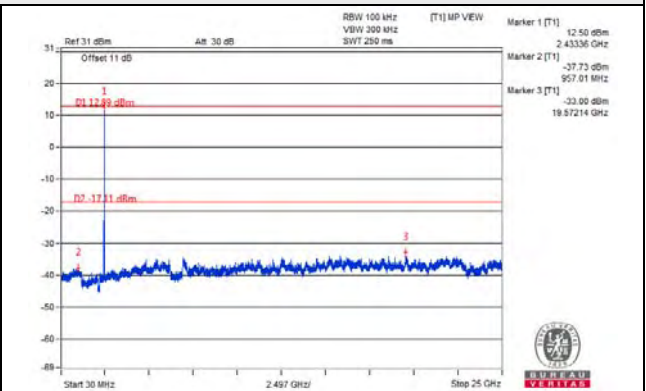
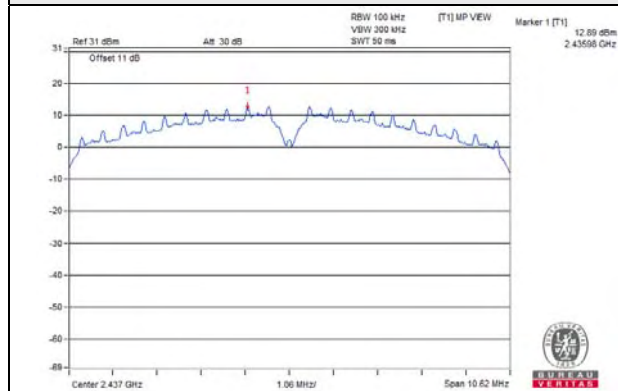
2TX

802.11b Chain 2

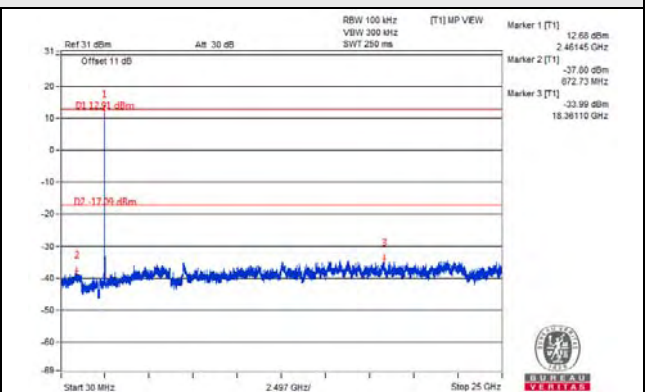
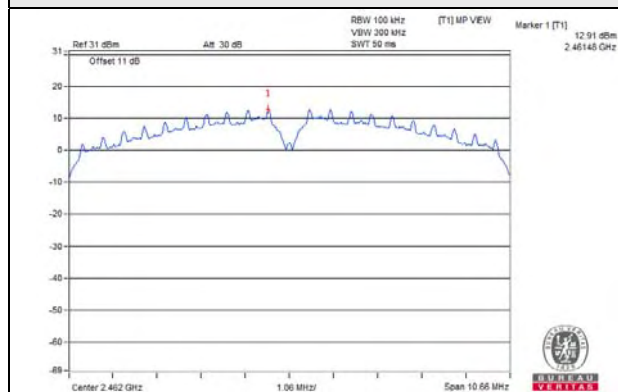
CH 1



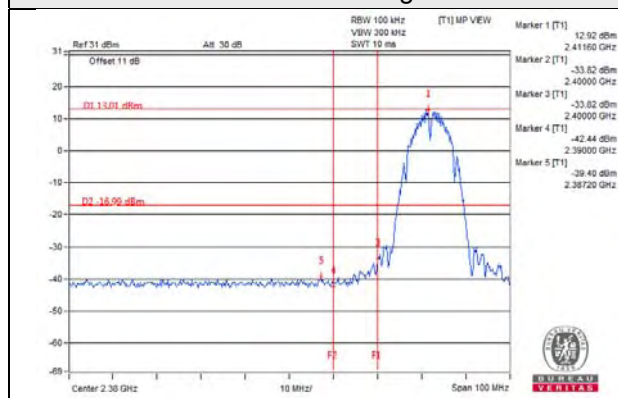
CH 6



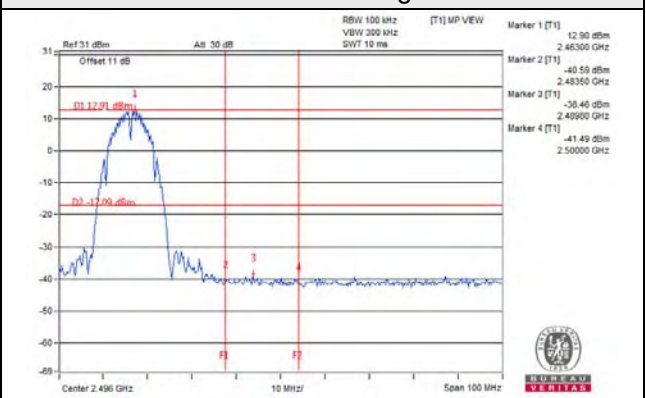
CH 11



CH 1 Band edge

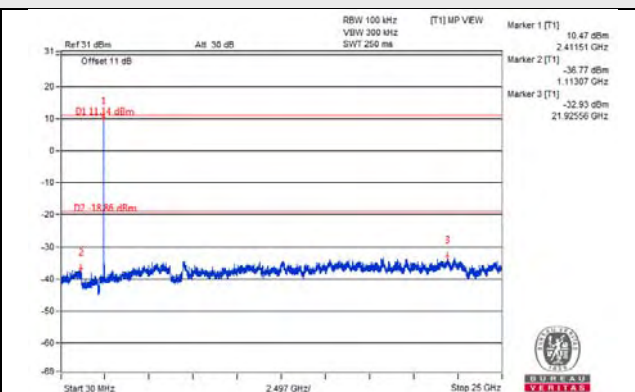
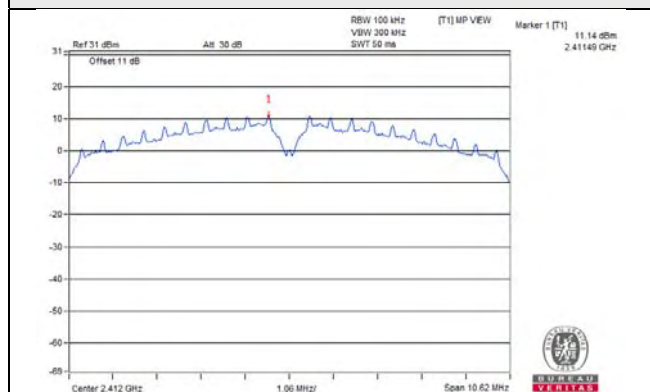


CH 11 Band edge

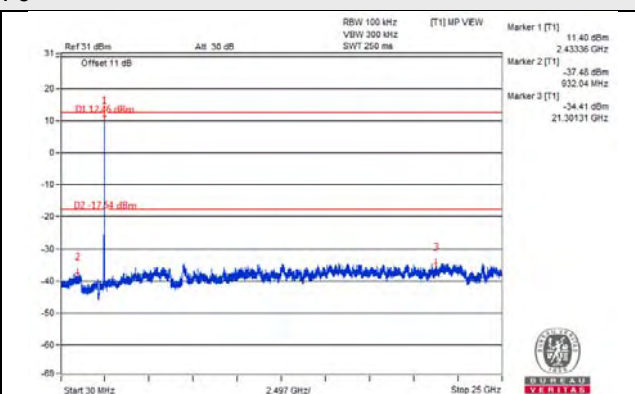
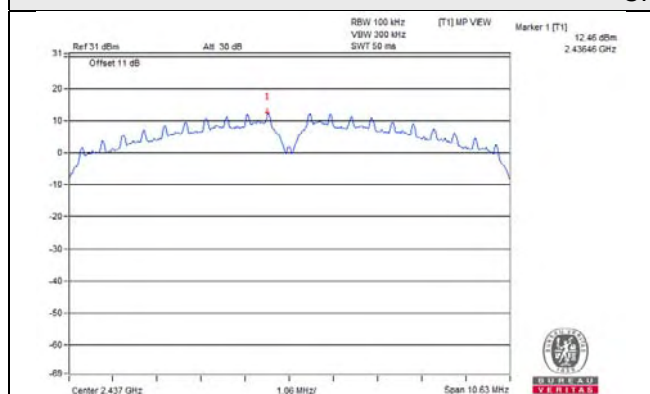


802.11b_Chain 3

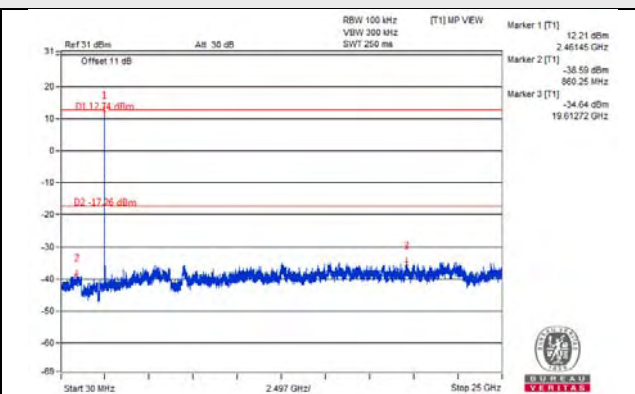
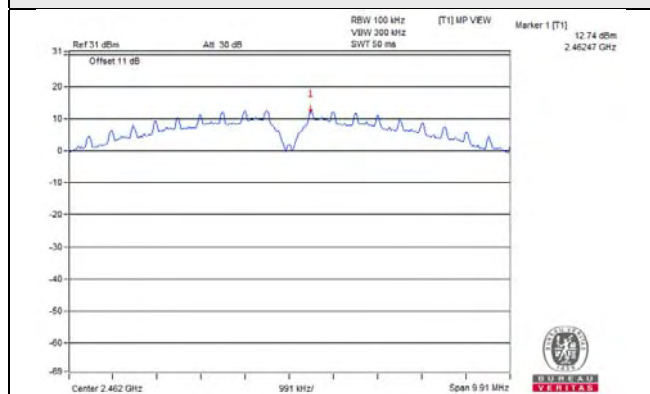
CH 1



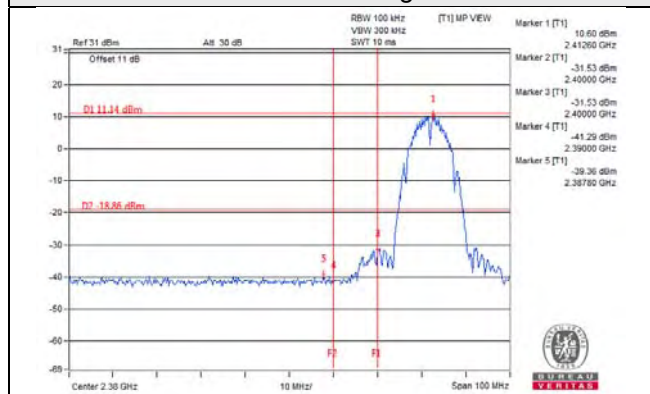
CH 6



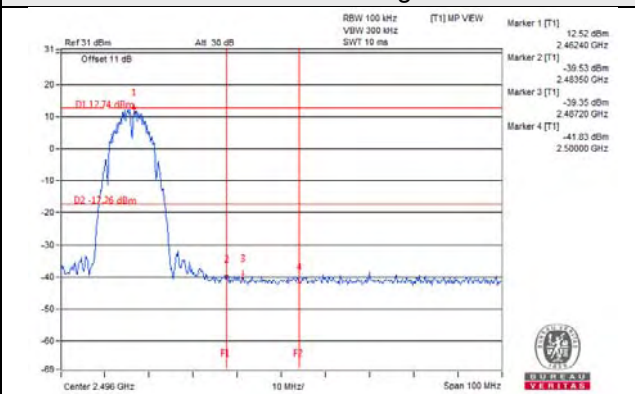
CH 11



CH 1 Band edge

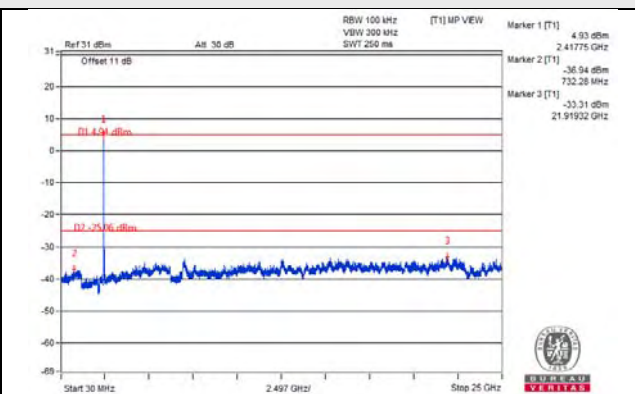
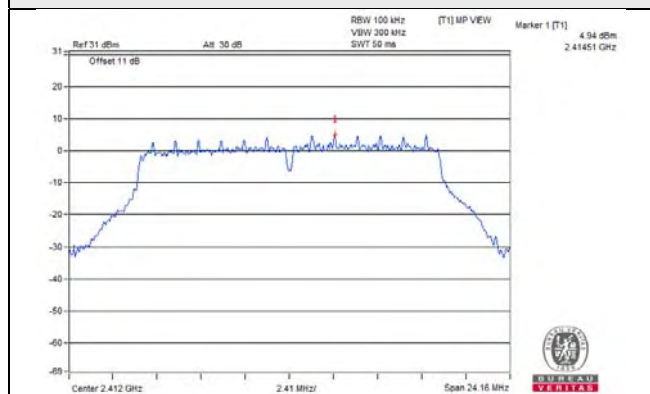


CH 11 Band edge

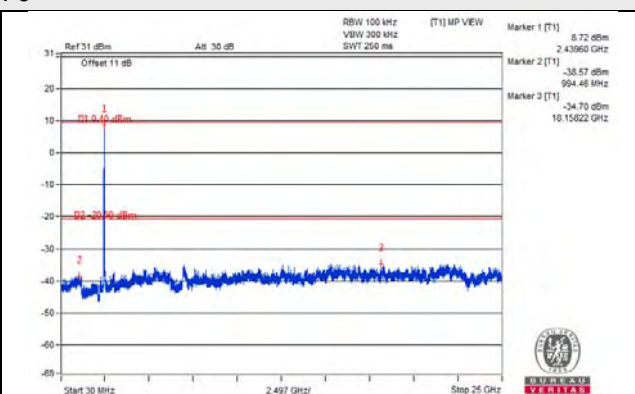
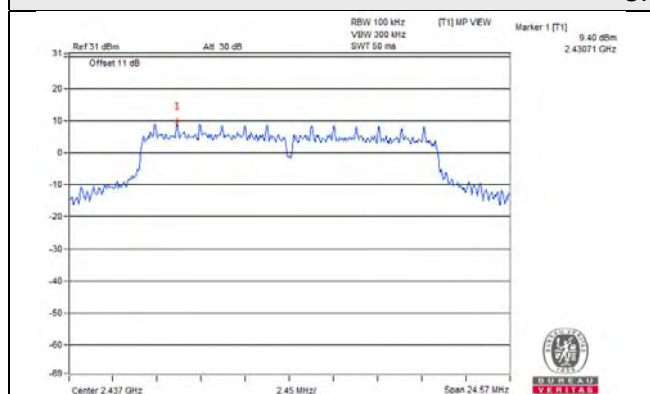


802.11g_Chain 2

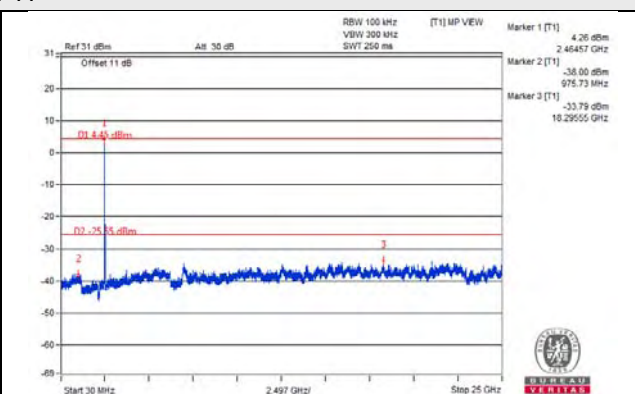
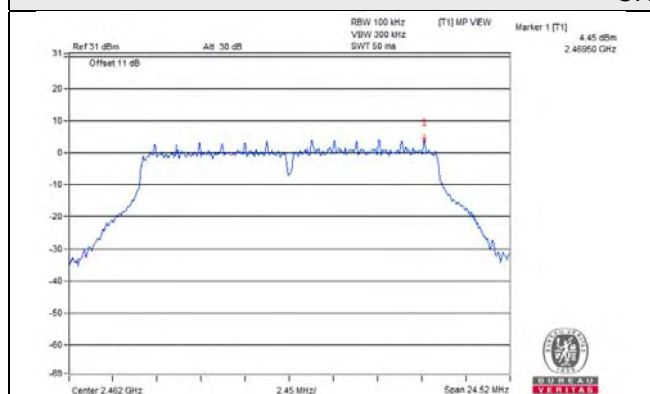
CH 1



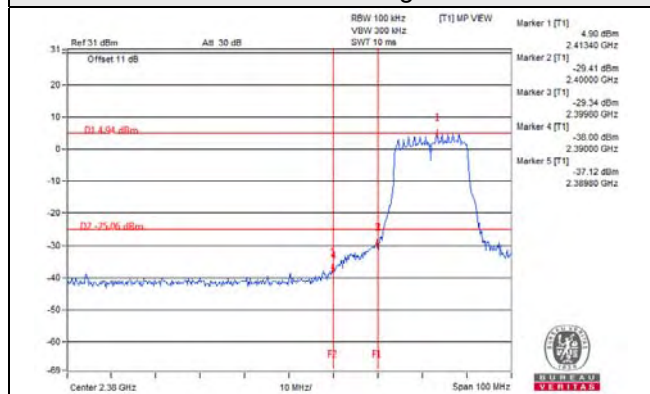
CH 6



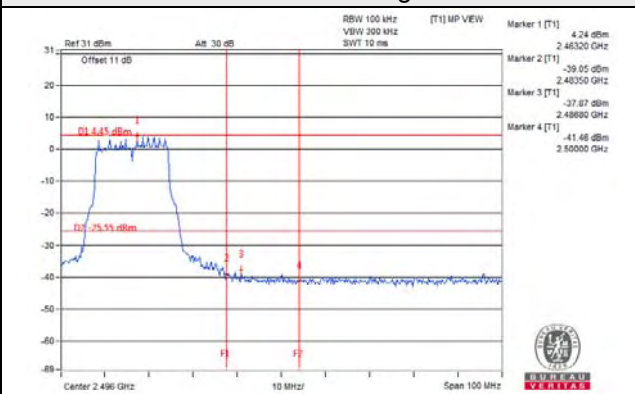
CH 11



CH 1 Band edge

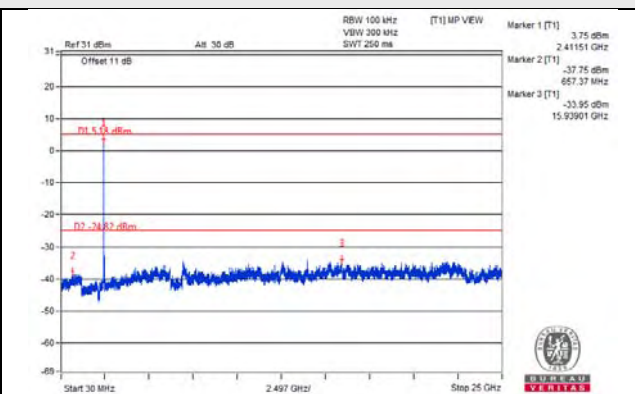
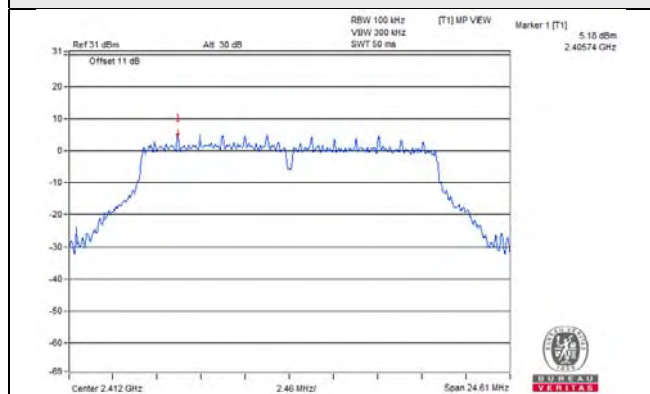


CH 11 Band edge

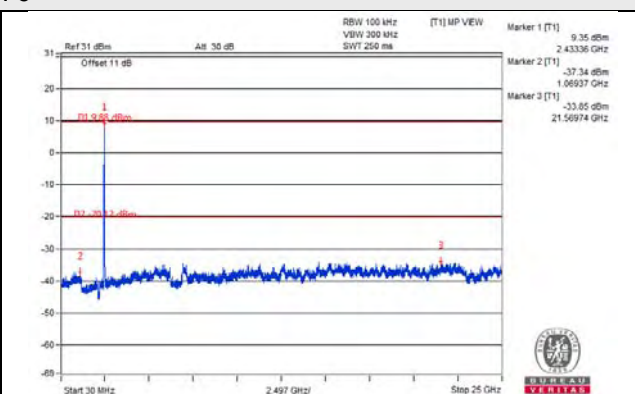
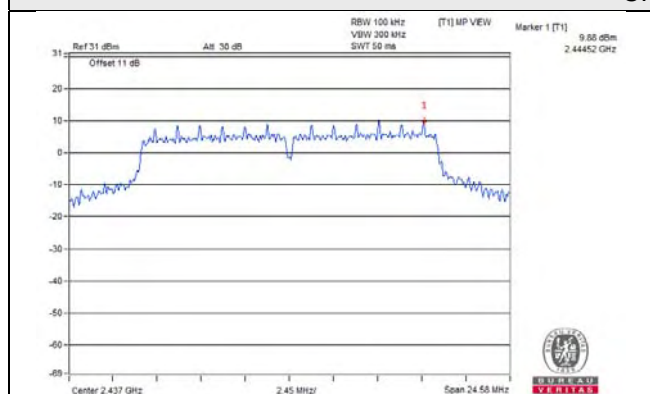


802.11g_Chain 3

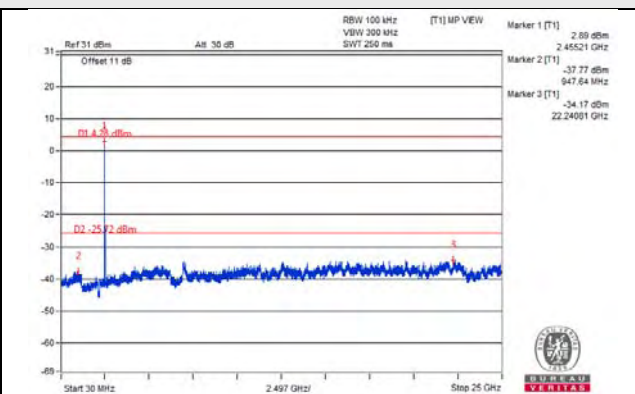
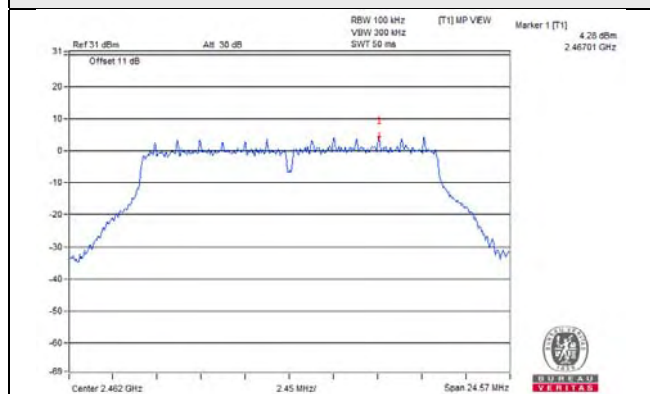
CH 1



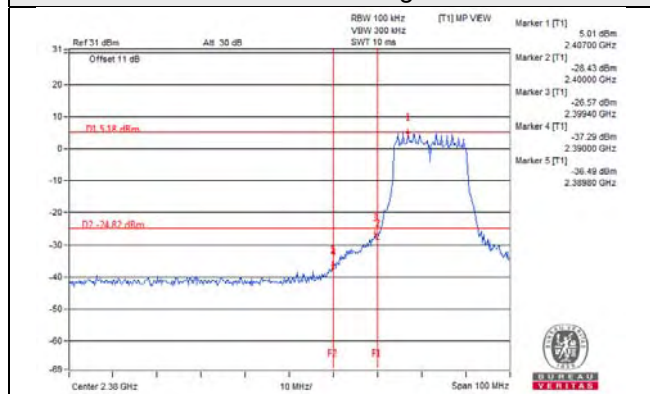
CH 6



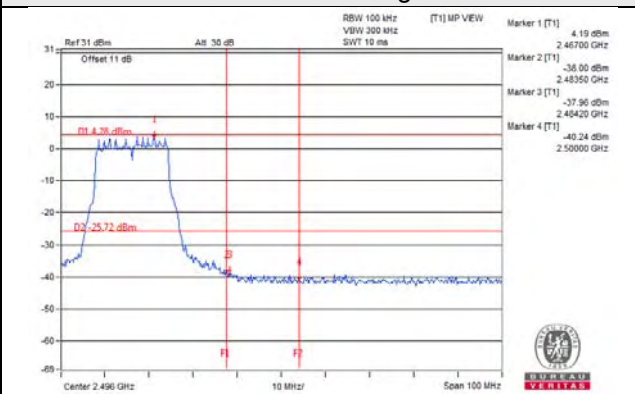
CH 11



CH 1 Band edge

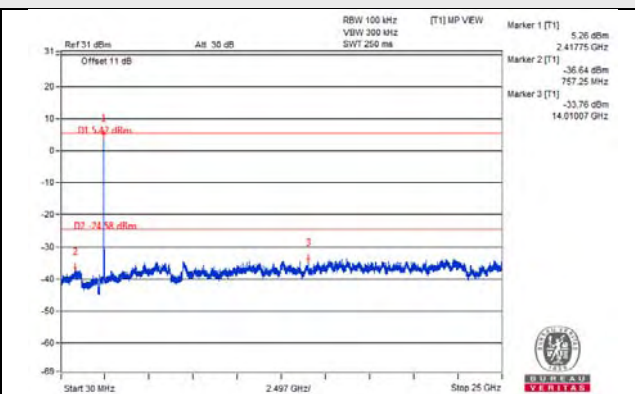
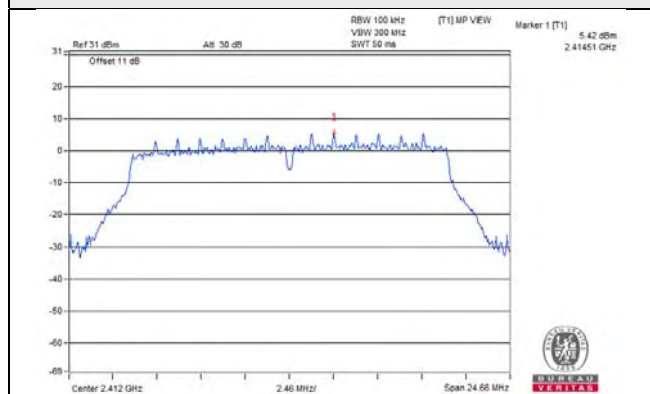


CH 11 Band edge

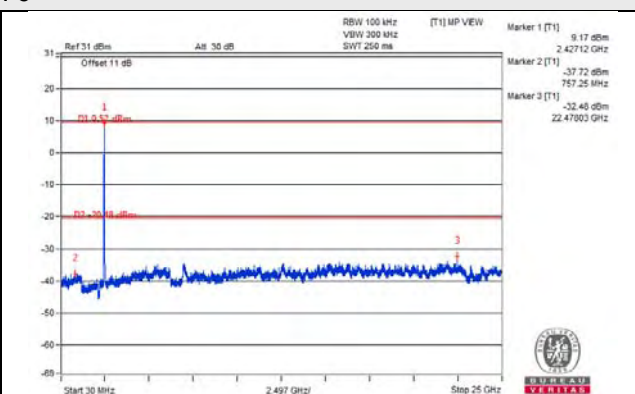
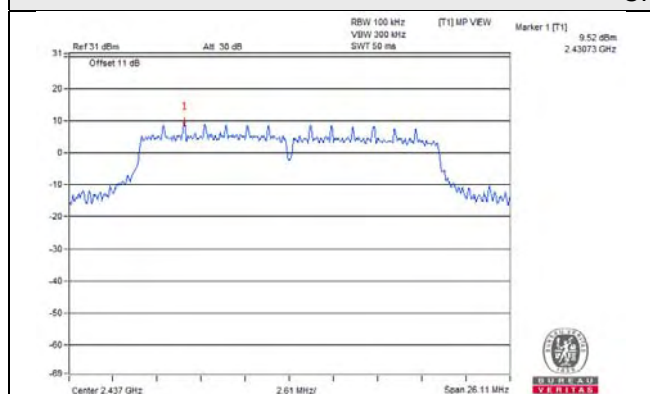


802.11ax (HE20)_Chain 2

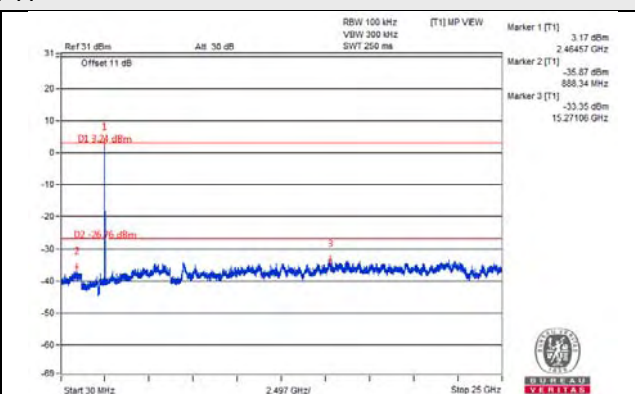
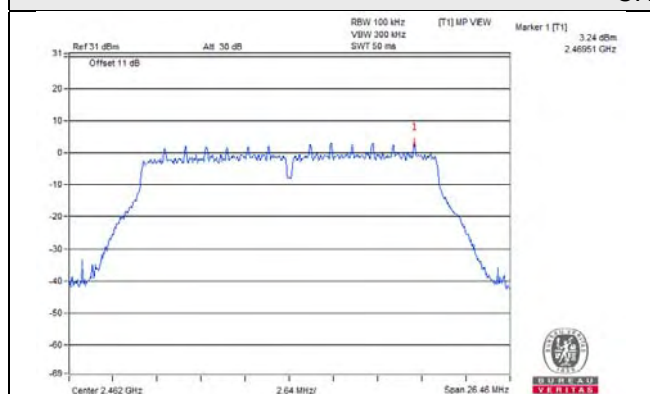
CH 1



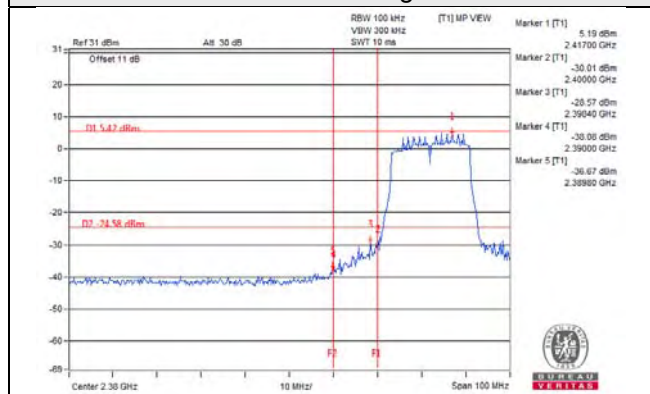
CH 6



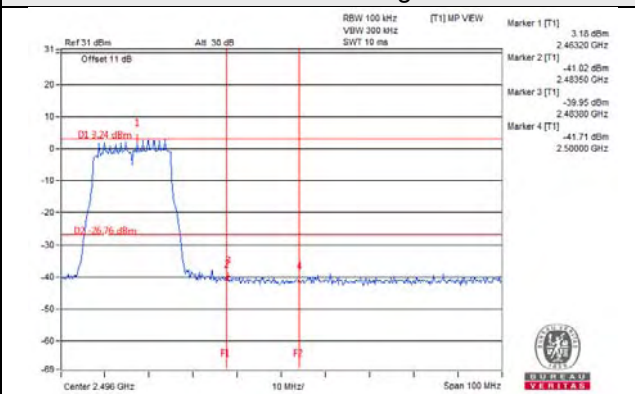
CH 11



CH 1 Band edge

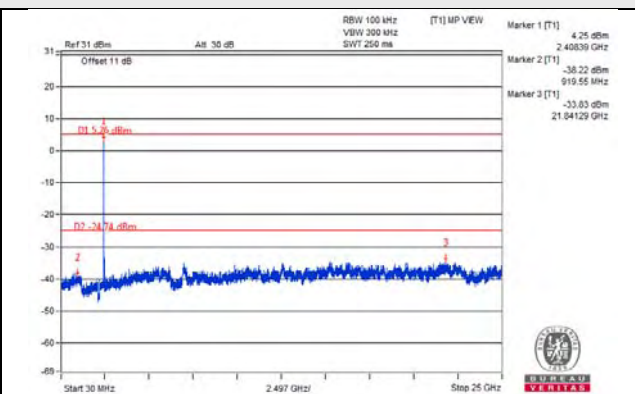
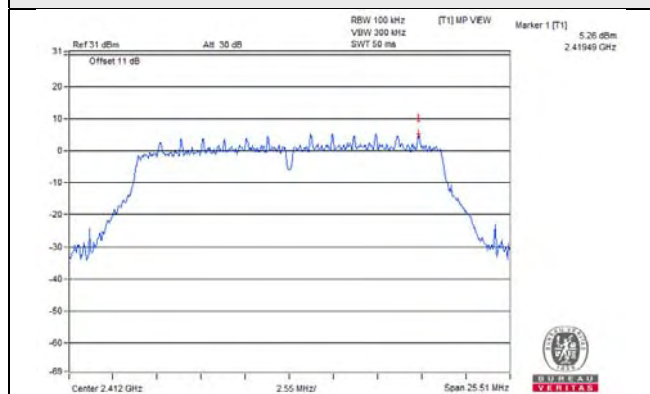


CH 11 Band edge

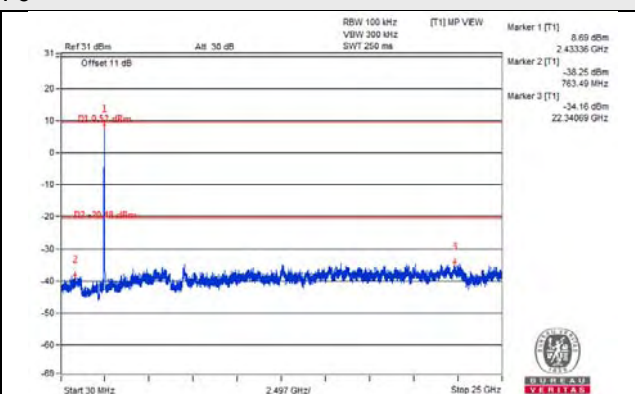
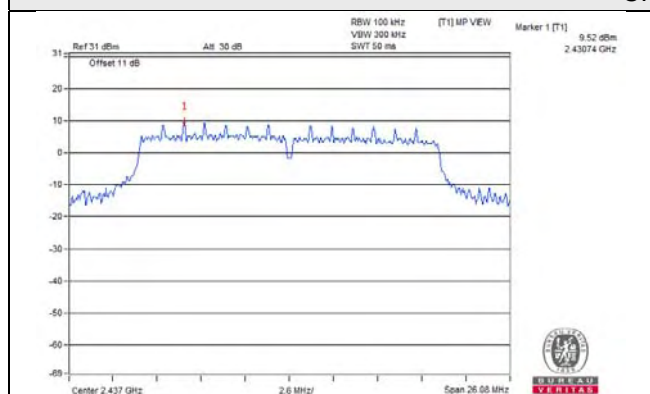


802.11ax (HE20)_Chain 3

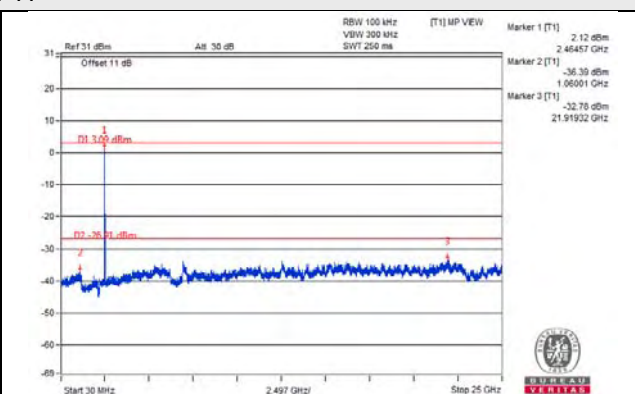
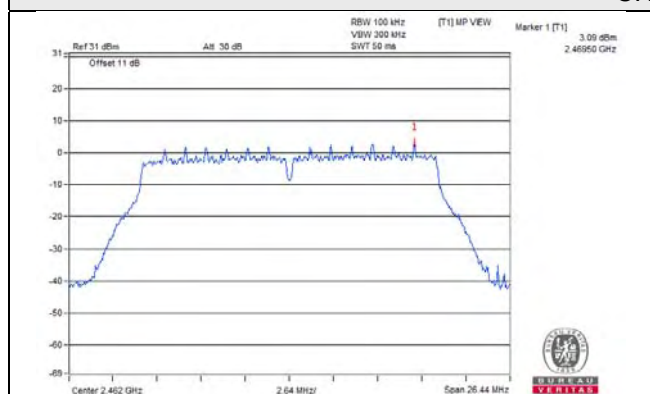
CH 1



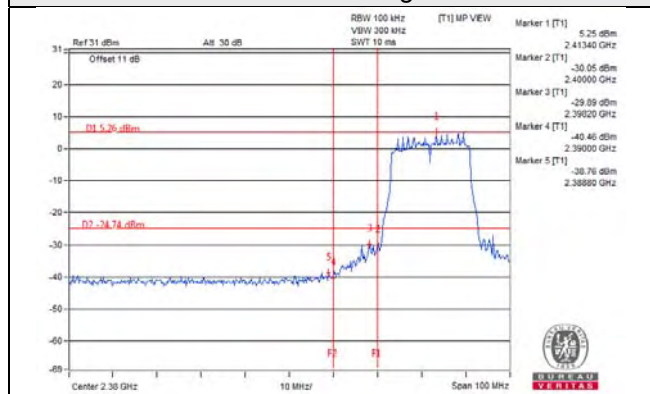
CH 6



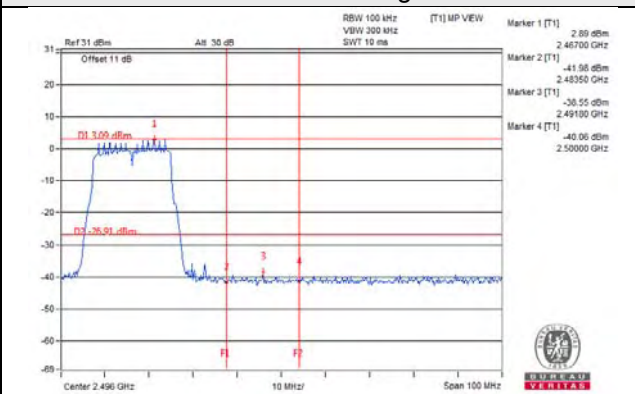
CH 11



CH 1 Band edge

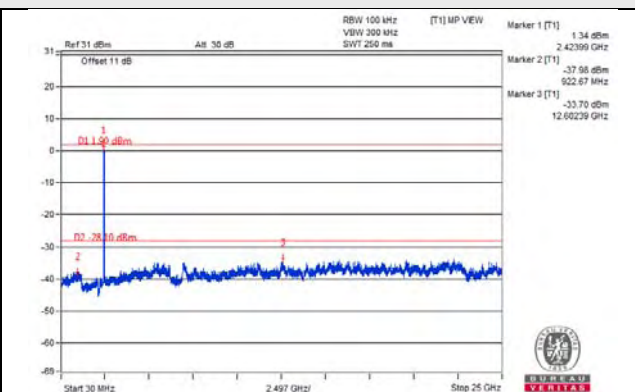
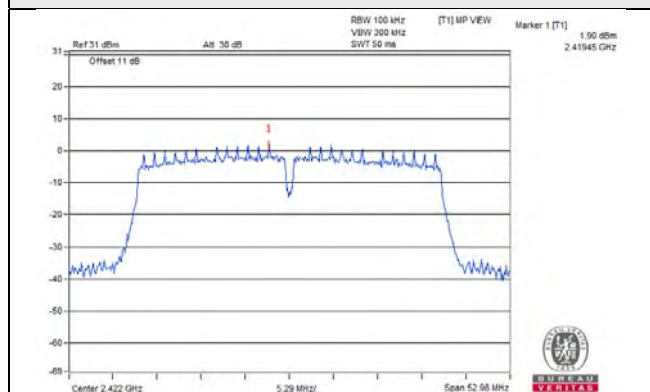


CH 11 Band edge

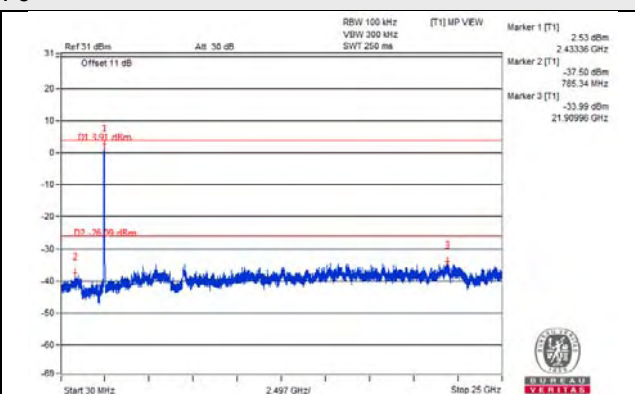
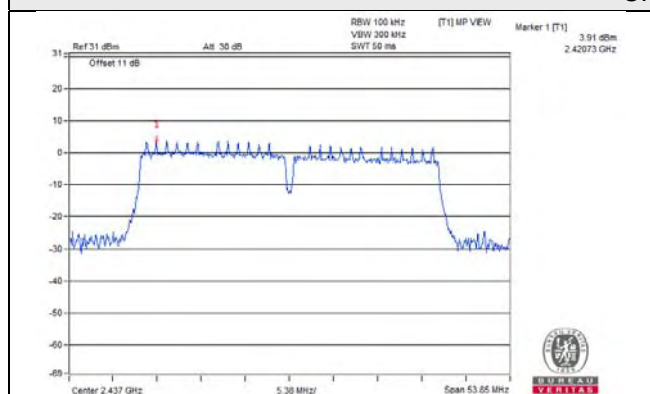


802.11ax (HE40)_Chain 2

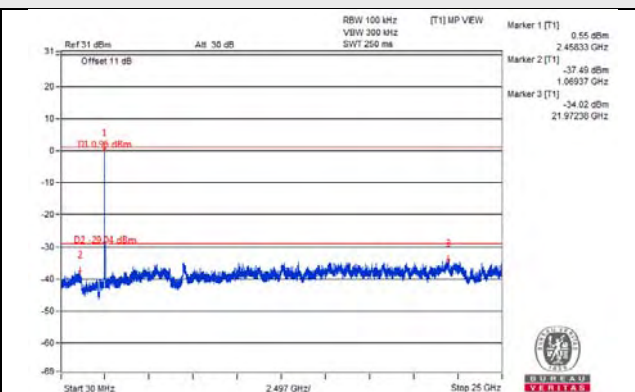
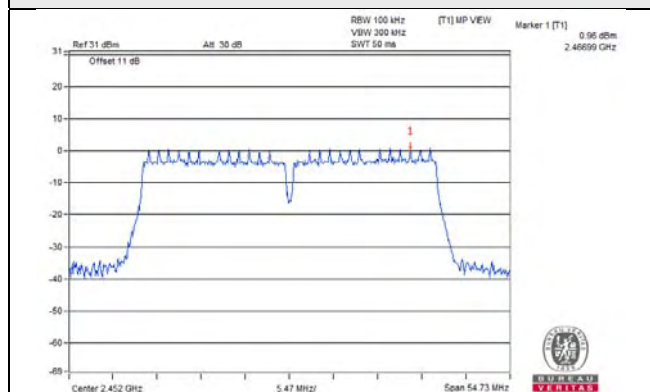
CH 3



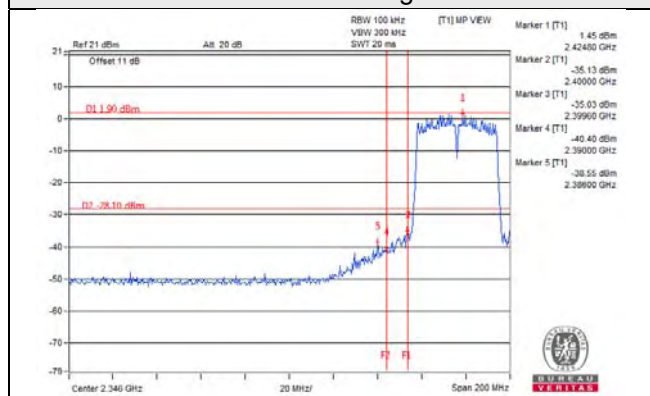
CH 6



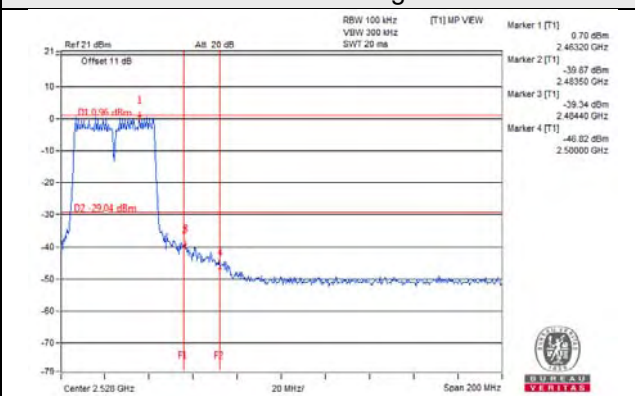
CH 9



CH 3 Band edge

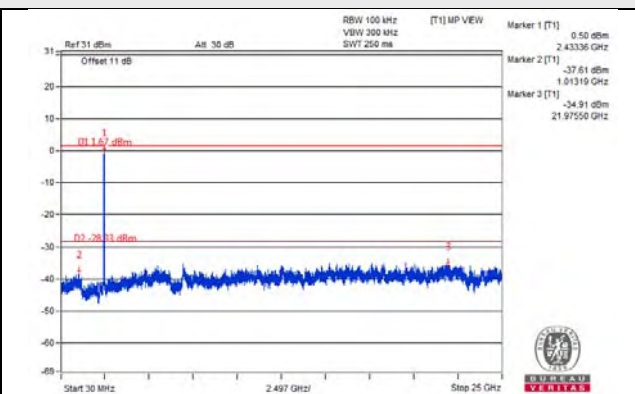
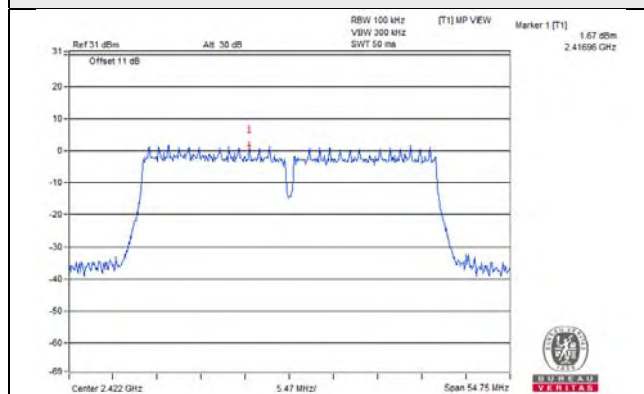


CH 9 Band edge

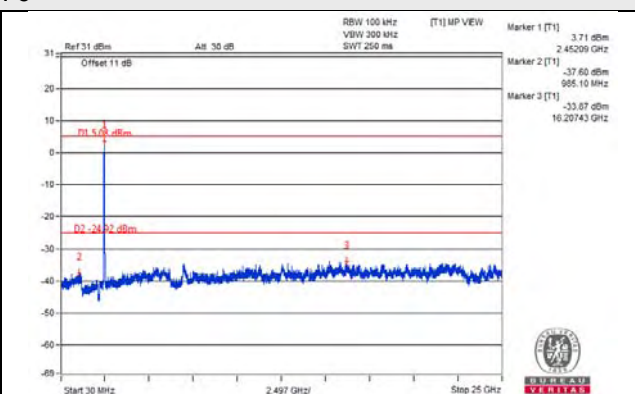
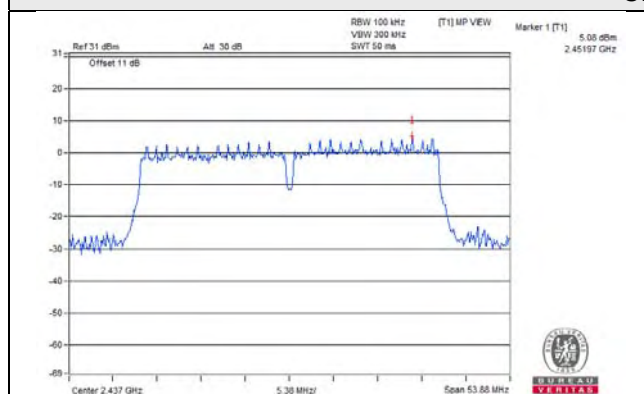


802.11ax (HE40)_Chain 3

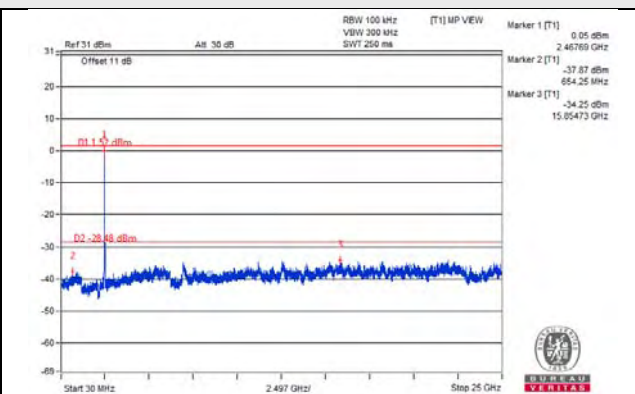
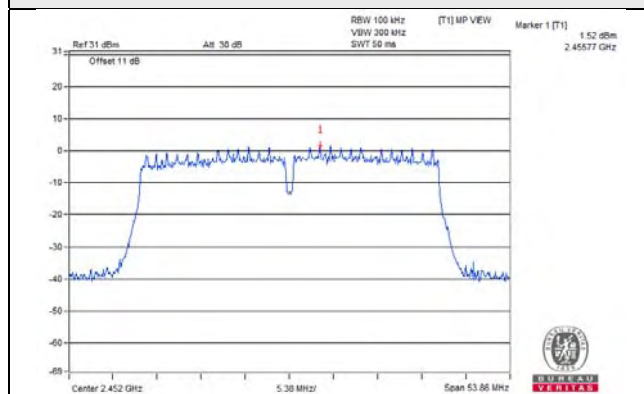
CH 3



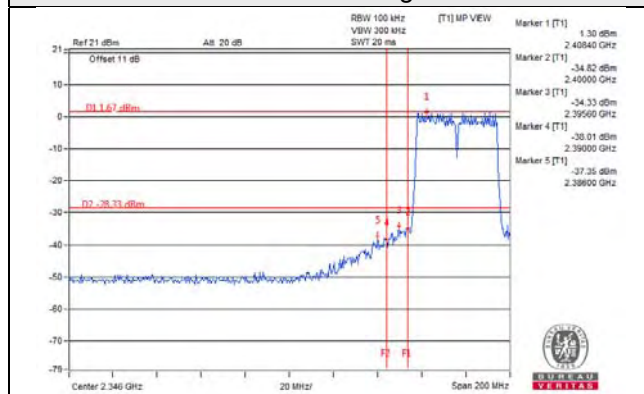
CH 6



CH 9



CH 3 Band edge



CH 9 Band edge

