

FCC TEST REPORT

(Part 15, Subpart E)

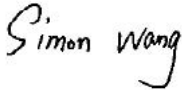
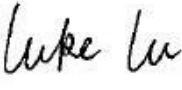
Applicant:	CPSpeed CO.,LTD.
Address:	3505 stLuke's Tower,8-1 Akashi-cho, Chuo-ku, Tokyo 104-0044

Manufacturer or Supplier:	MeiG Smart Technology Co., Ltd
Address:	2nd Floor,Office Building,No.5 Lingxia Road,Fenghuang,Fuyong Street,Bao'an District,Shenzhen
Product:	Speed Wi-Fi DOCK 5G 01
Brand Name:	CPSpeed
Model Name:	CPS01
FCC ID:	2BMKV-CPS01
Date of tests:	Nov. 12, 2024~Dec. 12, 2024

The tests have been carried out according to the requirements of the following standard:

☒ **FCC Part 15, Subpart E, Section 15.407**

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Prepared by Simon Wang Engineer / Mobile Department	Approved by Luke Lu Manager / Mobile Department
	
Date: Dec. 12, 2024	Date: Dec. 12, 2024

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
W7L-P24090006RF03	Original release	Dec. 12, 2024



1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC PART 15, SUBPART E			
STANDARD SECTION	TEST TYPE AND LIMIT	RESULT	TEST LAB
15.407(b)(9)	AC Power Conducted Emission	Compliance	B
15.407(b) (1/2/3/4/5)	Radiated Emission & Band Edge Measurement	Compliance	A
15.407(a/1/2/3)	Maximum conducted output Power	Compliance	A
15.407(a/1/2/3)	Peak Power Spectral Density	Compliance	A
15.407(a)(2)(1 2)	26 dB Bandwidth	Compliance	A
15.407(e)	6 dB Bandwidth	Compliance	A
15.203	Antenna Requirement	Compliance	A

NOTE:

1. Except the data of RSE and Band Edge Measurement, other data please refer to the appendix C.
2. Preliminary Investigation scans were completed to compare Full RU Tone modes and Single User Tone modes. It was found that SU modes were worst case over Full RU-Tone mode in every instance, and the physical waveforms of SU mode and FULL RU-Tone are the same, and both FULL RU-Tone mode have lower power than SU mode. Therefore, only SU mode was report as it is representative of Full RU-Tone worst case scenario.
3. For 802.11n HT20/ ac VHT20 and 802.11n HT40 / ac VHT40 mode, the whole testing is assessed only 802.11 n HT20/ n HT40 by referring to their higher conducted power.
4. RLAN 5G supports mode:
 - (1) 802.11a only supports SISO; 802.11n&ac&AX supports both SISO and MIMO (SISO and MIMO use the same setup level)
 - (2) for partially RU, the 802.11ax HE40/80/160MHz RU26T/52T/106T/242T modes are cover by the 11ax HE20MHz modes, the 802.11ax HE80/160MHz RU484T modes are cover by the 11ax HE40MHz modes, the 802.11ax HE80MHz RU996T modes are cover by the 11ax HE80MHz modes.



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***Test Lab Information Reference**

Lab A:

BV 7Layers Communications Technology (Shenzhen) Co., Ltd

Lab Address:

Room B37, Warehouse A5, No.3 Chiwan 4th Road, Zhaoshang Street, Nanshan District Shenzhen, Guangdong, People's Republic of China

Accredited Test Lab Cert 3939.01

FCC Site Registration No. : 525120; Designation No. : CN1171;

Lab B:

Huarui 7Layers High Technology (Suzhou) Co., Ltd.

Lab Address:

Tower N, Innovation Center, 88 Zhuyi Road, High-tech District, Suzhou City, Anhui Province

Accredited Test Lab Cert 6613.01

The FCC Site Registration No. is 434559; The Designation No. is CN1325.

1.1 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	UNCERTAINTY
AC Power Conducted emissions	±2.70dB
Radiated emissions (9KHz~30MHz)	±2.68dB
Radiated emissions (30MHz~1GHz)	±4.98dB
Radiated emissions (1GHz ~6GHz)	±4.70dB
Radiated emissions (6GHz ~18GHz)	±4.60dB
Radiated emissions (18GHz ~40GHz)	±4.12dB
Conducted emissions	±4.01dB
Occupied Channel Bandwidth	±43.58KHz
Conducted Output power	±2.06dB
Power Spectral Density	±0.85 dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.



2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Speed Wi-Fi DOCK 5G 01
BRAND NAME	CPSpeed
MODEL NAME	CPS01
NOMINAL VOLTAGE	5.0Vdc(adapter or host equipment) 3.85Vdc (Li-ion, battery)
MODULATION	OFDM, OFDMA
TRANSFER RATE	802.11a: 54.0/ 48.0/ 36.0/ 24.0/ 18.0/ 12.0/ 9.0/ 6.0Mbps 802.11n: up to 300.0Mbps 802.11ac: up to 866.6Mbps 802.11ax: up to 1201Mbps
OPERATING FREQUENCY	5180 ~ 5240MHz, 5260 ~ 5320MHz, 5500 ~ 5720MHz
NUMBER OF CHANNEL	5180 ~ 5240MHz: 4 for 802.11a, 802.11n/ac/ax (20MHz)/ 802.11ax(20M RU 26/52/106/242) 2 for 802.11n/ac/ax (40MHz)/ 802.11ax(40M RU 484) 1 for 802. 802.11ac/ax (80MHz)/ 802.11ax(80MRU996) 1 for 802.11ax (160MHz)/802.11ax(160MRU 1992) 5260 ~ 5320MHz: 4 for 802.11a, 802.11n/ac/ax (20MHz)/ 802.11ax(20M RU 26/52/106/242) 2 for 802.11n/ac/ax (40MHz)/ 802.11ax(40M RU 484) 1 for 802.11ac/ax (80MHz)/ 802.11ax(80M RU 996) 5500 ~ 5720MHz: 12 for 802.11a, 802.11n/ac/ax (20MHz)/ 802.11ax(20M RU 26/52/106/242) 6 for 802.11n/ac/ax (40MHz)/ 802.11ax(40M RU 484) 3 for 802.11ac/ax (80MHz)/ 802.11ax(80M RU 996) 1 for 802.11ax (160MHz)/802.11ax(160MRU 1992)
MAX. OUTPUT POWER	97.50 mW for 5180 ~ 5240MHz 99.77 mW for 5260 ~ 5320MHz 107.65 mW for 5500 ~ 5720MHz
ANTENNA TYPE	IFA/ Monopole Antenna
ANTENNA GAIN	ANT W0:



	1.5dBi for 5180 ~ 5240MHz 1.5dBi for 5260 ~ 5320MHz 1.5dBi for 5500 ~ 5720MHz ANT W1: 1.5dBi for 5180 ~ 5240MHz 1.5dBi for 5260 ~ 5320MHz 1.5dBi for 5500 ~ 5720MHz
HW VERSION	CPS01_V1.03
SW VERSION	CPS01_D.0.5_EQ101
I/O PORTS	Refer to user's manual
CABLE SUPPLIED	N/A

NOTE:

- For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- The EUT incorporates a MIMO function. Physically, the EUT provides two completed transmitter and two receiver.

MODULATION MODE	TX FUNCTION
802.11a	1TX/1RX
802.11n/802.11ac/ax (20MHz)	2TX/2RX
802.11n/802.11ac/ax (40MHz)	2TX/2RX
802.11ac/ax (80MHz)	2TX/2RX
802.11ax (160MHz)	2TX/2RX
802.11ax (20MHz RU 242)	2TX/2RX
802.11ax (40MHz RU 484)	2TX/2RX
802.11ax (80MHz RU 996)	2TX/2RX
802.11ax (160MHz RU 1992)	2TX/2RX

- For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.
- Antenna gain and EUT conducted cable loss are provided by the customer, and the laboratory will record the results based on these items that involve these two parameters.



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9. List of Accessory:

ACCESSORIES	BRAND	MANUFACTURER	MODEL	SPECIFICATION
LCD Panel 1	ZZW	Shenzhen Zoneway Technology Co.,Ltd	ZZW240QBS-149 9A	N/A
LCD Panel 2	Rouxian	Chongqing Rouxian Intelligent Technology Co., Ltd	24JS1199-QT	N/A
LCD Panel 3	Yiou	Hubei Yiou Electronics Co.,Ltd.	TBD	N/A
Battery 1	BYD	Shenzhen BYD Lithium Battery Company Limited	CPS01-CSL3456 83	Capacity: 5400mAh, Li-ion Battery
Battery 2	ATL	Dongguan Amperex Technology Limited	CPS01-345683	Capacity: 5400mAh, Li-ion Battery
AC Adapter 1	N/A	N/A	N/A	I/P:100-240Vac, 0.5A, 50-60Hz, O/P: 5 Vdc, 2.5A or 9Vdc, 1.7A or 12Vdc, 1.25A
AC Adapter 2	N/A	N/A	N/A	I/P:100-240Vac, 0.5A, 50-60Hz, O/P: 5 Vdc, 2.5A or 9Vdc, 1.7A or 12Vdc, 1.25A

2.2 DESCRIPTION OF TEST MODES

FOR 5180 ~ 5240MHz

4 channels are provided for 802.11a, 802.11n, 802.11ac/ax (20MHz)/ 802.11ax (20MHz RU 26/52/106):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
36	5180 MHz	44	5220 MHz
40	5200 MHz	48	5240 MHz

2 channels are provided for 802.11n, 802.11ac/ax (40MHz)/ 802.11ax (40MHz RU 484):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
38	5190 MHz	46	5230 MHz

1 channel is provided for 802.11ac/ax (80MHz)/ 802.11ax (80MHz RU 996):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
42	5210 MHz		

1 channel is provided for 802.11ax (160MHz)/ 802.11ax (160MHz RU 1992):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
50	5250 MHz		

FOR 5260 ~ 5320MHz

4 channels are provided for 802.11a, 802.11n, 802.11ac/ax (20MHz)/ 802.11ax (20MHz RU 26/52/106):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
52	5260 MHz	60	5300 MHz
56	5280 MHz	64	5320 MHz

2 channels are provided for 802.11n, 802.11ac/ax (40MHz)/ 802.11ax (40MHz RU 484):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
54	5270 MHz	62	5310 MHz

1 channel is provided for 802.11ac/ax (80MHz)/ 802.11ax (80MHz RU 996):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
58	5290 MHz		

FOR 5500 ~ 5720MHz

12 channels are provided for 802.11a, 802.11n, 802.11ac/ax (20MHz)/ 802.11ax (20MHz RU 26/52/106):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
100	5500 MHz	124	5620MHz
104	5520 MHz	128	5640MHz
108	5540 MHz	132	5660 MHz
112	5560 MHz	136	5680 MHz
116	5580 MHz	140	5700 MHz
120	5600 MHz	144	5720 MHz

6 channels are provided for 802.11n, 802.11ac/ax (40MHz)/ 802.11ax (40MHz RU 484):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
102	5510 MHz	126	5630MHz
110	5550 MHz	134	5670 MHz
118	5590 MHz	142	5710 MHz

3 channel is provided for 802.11ac/ax (80MHz)/ 802.11ax (80MHz RU 996):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
106	5530 MHz	138	5690 MHz
122	5610 MHz		

1 channel is provided for 802.11ax (160MHz)/ 802.11ax (160MHz RU 1992):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
114	5570 MHz		



2.2.1 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

EUT CONFIGURE MODE	APPLICABLE TO				DESCRIPTION
	RE $\geq$ 1G	RE<1G	PLC	APCM	
A	√	√	√	-	Powered by Adapter with wifi(5G) link
B	-	-	-	√	Powered by Battery with wifi(5G) link
C	-	-	-	-	Powered by USB with wifi(5G) link

Where

RE $\geq$ 1G: Radiated Emission above 1GHz**RE<1G:** Radiated Emission below 1GHz**PLC:** Power Line Conducted Emission**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**.**NOTE:** "-" means no effect**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).

☒ The following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
A	802.11ax (20MHz RU52)	5260-5320	52 to 64	52	OFDMA	MCS0



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).
- ☒ The following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
A	802.11a	5180-5240	36 to 48	36, 40, 48	OFDM	6.0
A	802.11n/ac/ax (20MHz)/ 802.11ax (20MHz RU 26/52/106)		36 to 48	36, 40, 48	OFDM, OFDMA	MCS0
A	802.11n/ac/ax (40MHz)		38 to 46	38, 46	OFDM, OFDMA	MCS0
A	802.11ac/ax (80MHz)		42	42	OFDM, OFDMA	MCS0
A	802.11ax (160MHz)		50	50	OFDM, OFDMA	MCS0
A	802.11a	5260-5320	52 to 64	52, 60, 64	OFDM	6.0
A	802.11n/ac/ax (20MHz)/ 802.11ax (20MHz RU 26/52/106)		52 to 64	52, 60, 64	OFDM, OFDMA	MCS0
A	802.11n/ac/ax (40MHz)		54 to 62	54, 62	OFDM, OFDMA	MCS0
A	802.11ac/ax (80MHz)		58	58	OFDM, OFDMA	MCS0
A	802.11a	5500-5720	100 to 144	100, 116, 140, 144	OFDM	6.0
A	802.11n/ac/ax (20MHz)/ 802.11ax (20MHz RU 26/52/106)		100 to 144	100, 116, 140, 144	OFDM, OFDMA	MCS0
A	802.11n/ac/ax (40MHz)		102 to 142	102, 110, 134, 142	OFDM, OFDMA	MCS0
A	802.11ac/ax (80MHz)		106 to 138	106, 138	OFDM, OFDMA	MCS0
A	802.11ax (160MHz)		114	114	OFDM, OFDMA	MCS0



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).
- ☒ The following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
A	802.11ax (20MHz RU52)	5260-5320	52 to 64	52	OFDMA	MCS0

BANDEDGE MEASUREMENT:

- ☒ 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).
- ☒ The following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
A	802.11a	5180-5240	36 to 48	36, 40, 48	OFDM	6.0
A	802.11n/ac/ax (20MHz)/ 802.11ax (20MHz RU 26/52/106)		36 to 48	36, 40, 48	OFDM, OFDMA	MCS0
A	802.11n/ac/ax (40MHz)		38 to 46	38, 46	OFDM, OFDMA	MCS0
A	802.11ac/ax (80MHz)		42	42	OFDM, OFDMA	MCS0
A	802.11ax (160MHz)		50	50	OFDM, OFDMA	MCS0
A	802.11a	5260-5320	52 to 64	52, 60, 64	OFDM	6.0
A	802.11n/ac/ax (20MHz)/ 802.11ax (20MHz RU 26/52/106)		52 to 64	52, 60, 64	OFDM, OFDMA	MCS0
A	802.11n/ac/ax (40MHz)		54 to 62	54, 62	OFDM, OFDMA	MCS0
A	802.11ac/ax (80MHz)		58	58	OFDM, OFDMA	MCS0
A	802.11a	5500-5720	100 to 144	100, 116, 140, 144	OFDM	6.0
A	802.11n/ac/ax (20MHz)/ 802.11ax (20MHz RU 26/52/106)		100 to 144	100, 116, 140, 144	OFDM, OFDMA	MCS0
A	802.11n/ac/ax (40MHz)		102 to 142	102, 110, 134, 142	OFDM, OFDMA	MCS0
A	802.11ac/ax (80MHz)		106 to 138	106, 138	OFDM, OFDMA	MCS0
A	802.11ax (160MHz)		114	114	OFDM, OFDMA	MCS0

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).
- ☒ The following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
A	802.11a	5180-5240	36 to 48	36, 40, 48	OFDM	6.0
A	802.11n/ac/ax (20MHz)/ 802.11ax (20MHz RU 26/52/106)		36 to 48	36, 40, 48	OFDM, OFDMA	MCS0
A	802.11n/ac/ax (40MHz)		38 to 46	38, 46	OFDM, OFDMA	MCS0
A	802.11ac/ax (80MHz)		42	42	OFDM, OFDMA	MCS0
A	802.11ax (160MHz)		50	50	OFDM, OFDMA	MCS0
A	802.11a	5260-5320	52 to 64	52, 60, 64	OFDM	6.0
A	802.11n/ac/ax (20MHz)/ 802.11ax (20MHz RU 26/52/106)		52 to 64	52, 60, 64	OFDM, OFDMA	MCS0
A	802.11n/ac/ax (40MHz)		54 to 62	54, 62	OFDM, OFDMA	MCS0
A	802.11ac/ax (80MHz)		58	58	OFDM, OFDMA	MCS0
A	802.11a	5500-5720	100 to 144	100, 116, 140, 144	OFDM	6.0
A	802.11n/ac/ax (20MHz)/ 802.11ax (20MHz RU 26/52/106)		100 to 144	100, 116, 140, 144	OFDM, OFDMA	MCS0
A	802.11n/ac/ax (40MHz)		102 to 142	102, 110, 134, 142	OFDM, OFDMA	MCS0
A	802.11ac/ax (80MHz)		106 to 138	106, 138	OFDM, OFDMA	MCS0
A	802.11ax (160MHz)		114	114	OFDM, OFDMA	MCS0

TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
RE<1G	23deg. C, 70%RH	DC 5V By Adapter	Jace Hu
RE≥1G	23deg. C, 70%RH	DC 5V By Adapter	Jace Hu
PLC	25deg. C, 52%RH	DC 5V By Adapter	James Fu
APCM	25deg. C, 60%RH	DC 3.85V By DC Supply	James Fu



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2.3 DUTY CYCLE OF TEST SIGNAL

Please Refer to Appendix C Of this test report.

2.4 DESCRIPTION OF SUPPORT UNITS

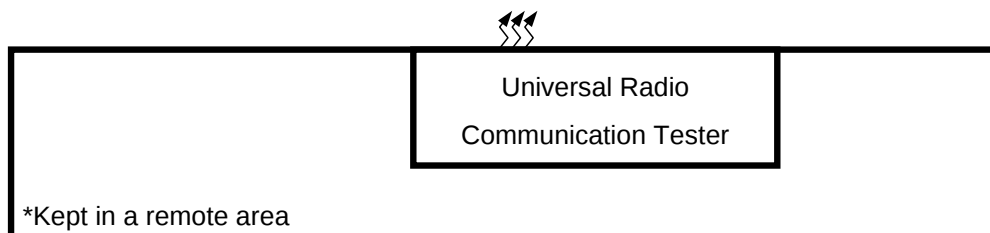
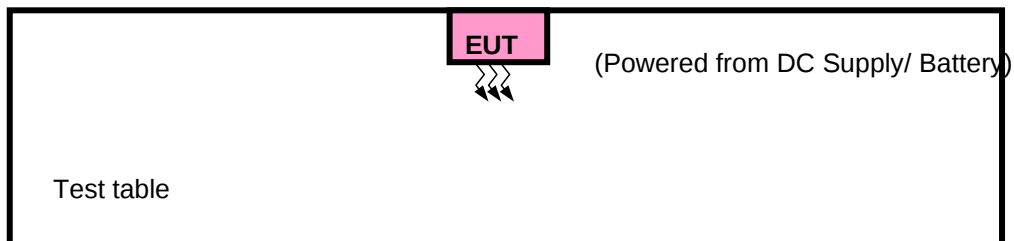
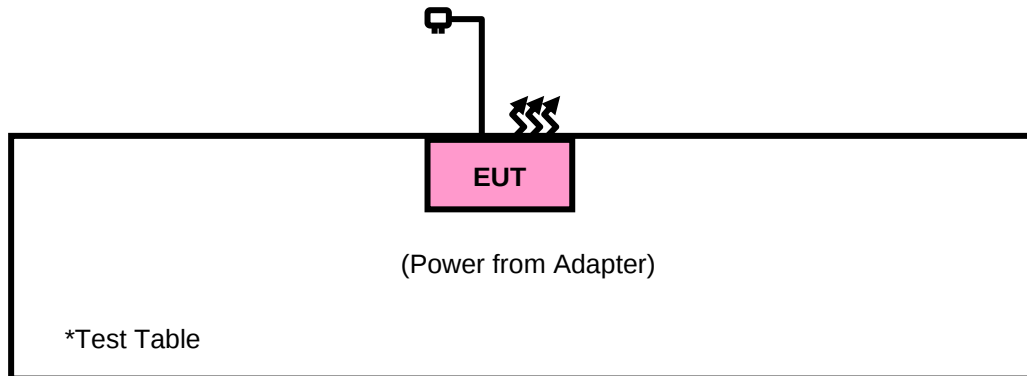
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	Desktop	Lenovo	M73 SFF	PC04GRQV	N/A
2	Desktop	Lenovo	M73 SFF	PC06CS27	N/A
3	Laptop	Lenovo	ThinkpadL440	R90FTFKN	N/A
4	DC source	Kikusui/JP	PMX18-5A	0000001	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	AC Line: Unshielded, Detachable 1.5m
2	AC Line: Unshielded, Detachable 1.5m
3	AC Line: Unshielded, Detachable 1.5m
4	DC Line: Unshielded, Detachable 1.0m



2.4.1 CONFIGURATION OF SYSTEM UNDER TEST



2.5 GENERAL DESCRIPTION OF APPLIED STANDARDS

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

FCC Part 15, Subpart E (15.407)

KDB 789033 D02 General U-NII Test Procedures New Rules v02r01

ANSI C63.10-2020

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

NOTE: The EUT is also considered as a kind of computer peripheral, because the connection to computer is necessary for typical use. It has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (Certification). The test report has been issued separately.

3 TEST TYPES AND RESULTS

3.1 RADIATED EMISSION AND BANDEDGE MEASUREMENT

3.1.1 LIMITS OF RADIATED EMISSION AND BANDEDGE MEASUREMENT

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

FREQUENCIES (MHz)	FIELD STRENGTH (microvolts/meter)	MEASUREMENT DISTANCE (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

NOTE:

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

3.1.2 LIMITS OF UNWANTED EMISSION

RESTRICTED BANDS	APPLICABLE TO	LIMIT	
	789033 D02 General UNII Test Procedures New Rules v02r01	FIELD STRENGTH AT 3m (dBμV/m)	
		PK : 74	AV : 54
OUT OF THE RESTRICTED BANDS	APPLICABLE TO	EIRP LIMIT (dBm/MHz)	EQUIVALENT FIELD STRENGTH AT 3m (dBμV/m)
	15.407(b)(1)	PK : -27	PK : 68.2
	15.407(b)(2)		
	15.407(b)(3)		

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

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

3.1.3 TEST INSTRUMENTS

Lab A:

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
3m Semi-anechoic Chamber	ETS-LINDGREN	9m*6m*6m	Euroshieldpn-CT0001143-1216	Nov. 14,23	Nov. 13,26
Bilog Antenna	ETS-LINDGREN	3143B	00161965	Feb. 17,24	Feb. 16,25
Horn Antenna	ETS-LINDGREN	3117	00168692	Feb. 17,24	Feb. 16,25
Horn Antenna (18GHz-40GHz)	N/A	QWH-SL-18-40-K-SG/QMS-00361	15433	Sep.02, 24	Sep.01, 25
Test Software	E3	V 9.160323	N/A	N/A	N/A
Test Software	JS1120-3	3.2.06	N/A	N/A	N/A
10dB Attenuator	JFW/USA	50HF-010-SMA	N/A	May. 05,24	May. 04,25
MXE EMI Receiver	KEYSIGHT	N9038A-544	MY54450026	Mar. 27,24	Mar. 26,25
Signal Pre-Amplifier	EMSI	EMC 9135	980249	May. 05,24	May. 04,25
Signal Pre-Amplifier	EMSI	EMC 012645B	980257	May.09,24	May.08,25
Signal Pre-Amplifier	EMSI	EMC 184045B	980259	Feb. 16,24	Feb. 15,25
DC Source	Kikusui/JP	PMX18-5A	0000001	Aug. 10,24	Aug. 09,25
Power Meter	Anritsu	ML2495A	1506002	Feb. 13,24	Feb. 12,25
Power Sensor	Anritsu	MA2411B	1339352	Feb. 13,24	Feb. 12,25
Loop Antenna	Schwarzbeck	FMZB 1519B	00173	Sep.01,24	Aug.31,25

- NOTE:**
1. The calibration interval of the above test instruments is 12 months or 36 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
 2. The test was performed in 3m Chamber.
 3. The FCC Site Registration No. is 525120; The Designation No. is CN1171.

3.1.4 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 0.8 meters (for below 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height 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 Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

NOTE:

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

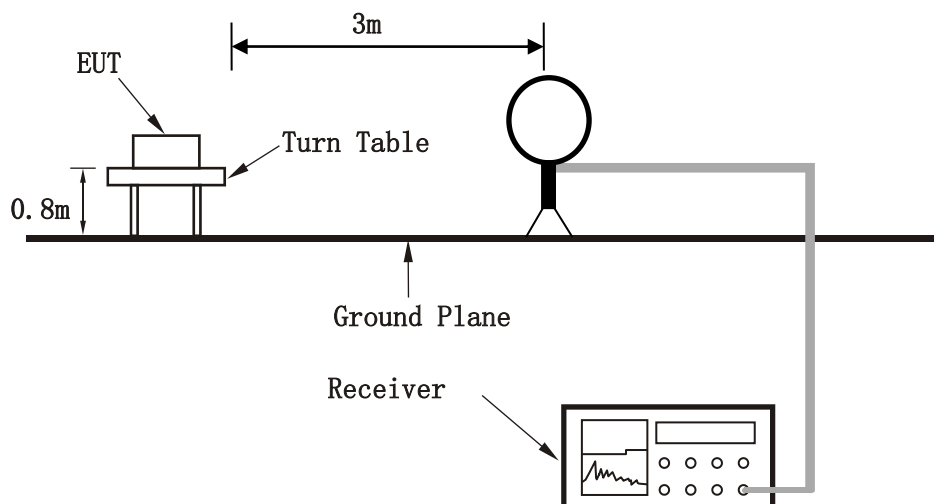
3.1.5 DEVIATION FROM TEST STANDARD

No deviation.

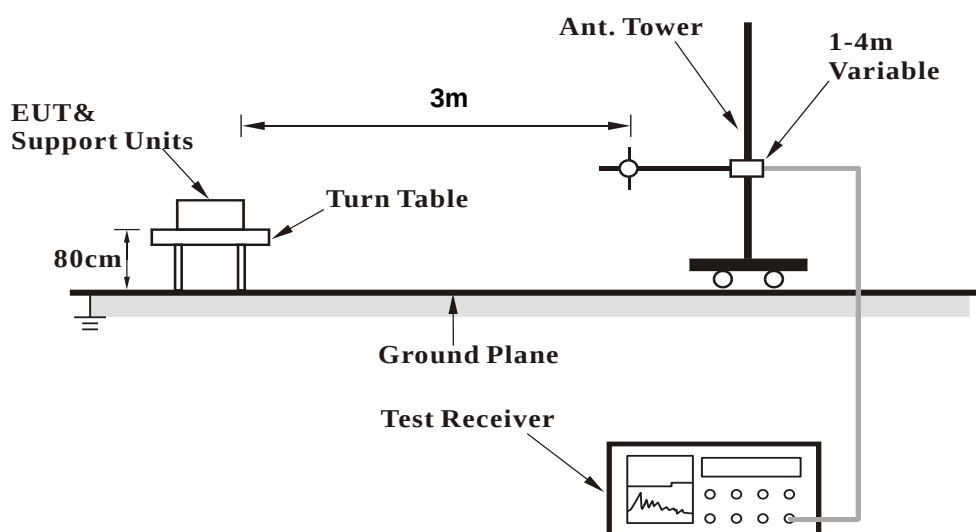


3.1.6 TEST SETUP

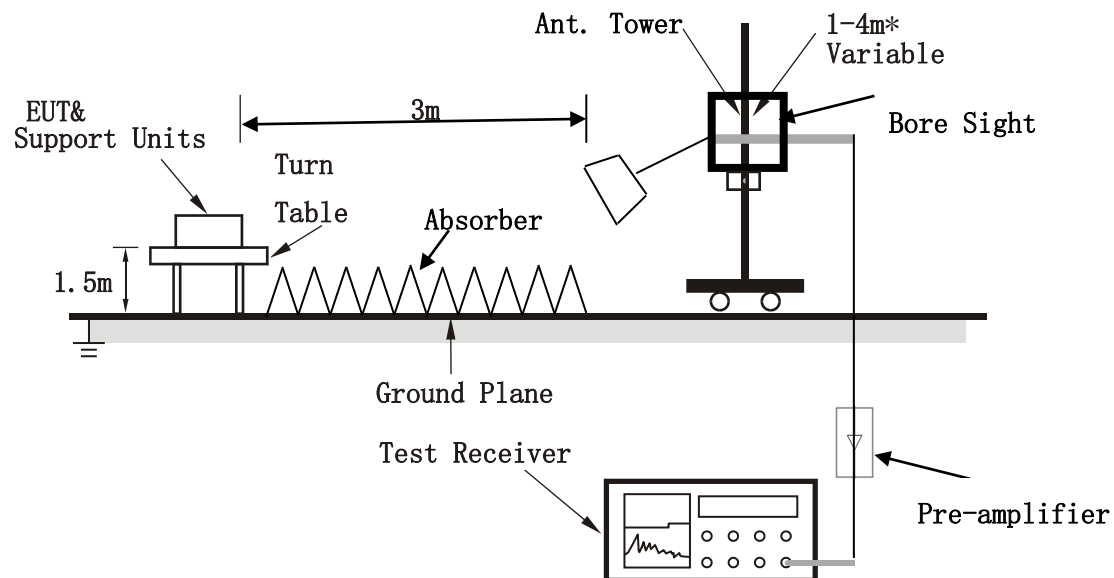
<Frequency Range 9KHz~30MHz >



< Frequency Range 30MHz~1GHz >



<Frequency Range above 1GHz>



Note: Above 1G is a directional antenna

Depends on the EUT height and the antenna 3dB beamwidth both, refer to section 7.3 of CISPR 16-2-3.

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

3.1.7 EUT OPERATING CONDITION

- Set the EUT under full load condition and placed them on a testing table.
- Set the transmitter part of EUT under transmission condition continuously at specific channel frequency.
- The necessary accessories enable the EUT in full functions.



3.1.8 TEST RESULTS

NOTE : The 9K~30MHz amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required in the report.

30 MHz – 1GHz data:

Band 2

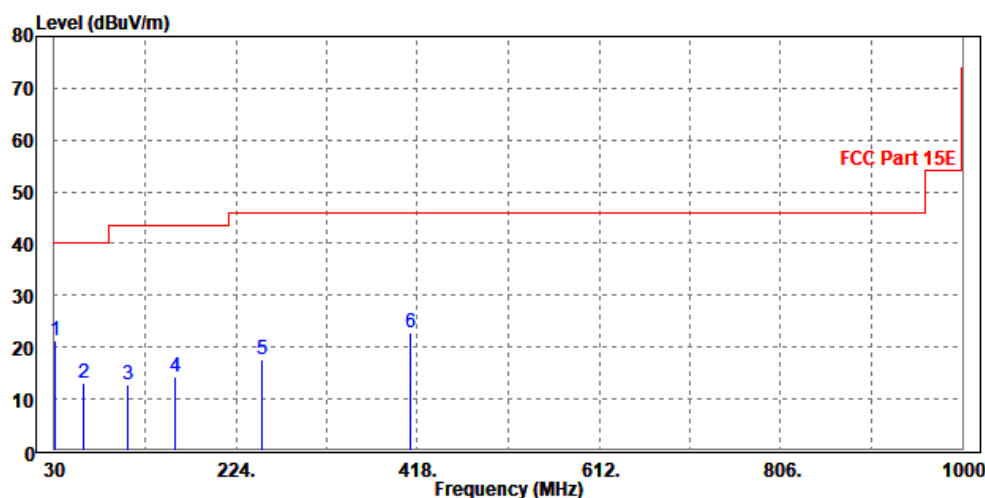
802.11ax (20MHz) (RU52):

CHANNEL	TX Channel 52	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
30.97	21.3	33.98	40	-18.7	24.61	0.14	37.43	100	360	QP
61.04	13.15	34.53	40	-26.85	15.67	0.31	37.36	100	360	QP
108.57	12.85	33.85	43.5	-30.65	15.29	0.57	36.86	100	360	QP
159.01	14.33	33.35	43.5	-29.17	16.9	0.78	36.7	100	360	QP
251.16	17.71	34.57	46	-28.29	18.57	1.15	36.58	100	360	QP
411.21	22.67	34.16	46	-23.33	23.62	1.6	36.71	100	360	QP

REMARKS:

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



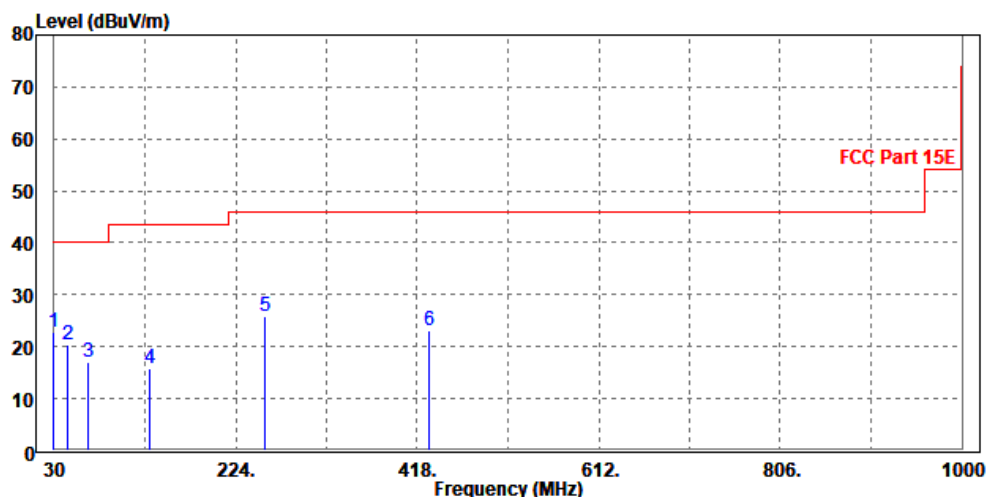


CHANNEL	Channel 52	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
30	22.95	35.26	40	-17.05	25	0.13	37.44	100	0	QP
43.58	20.28	39.85	40	-19.72	17.54	0.25	37.36	100	0	QP
65.89	17.04	40.3	40	-22.96	13.73	0.35	37.34	100	0	QP
131.85	15.95	38.44	43.5	-27.55	13.6	0.69	36.78	100	0	QP
256.01	25.72	42.23	46	-20.28	18.9	1.17	36.58	100	0	QP
430.61	23.05	35.18	46	-22.95	22.99	1.68	36.8	100	0	QP

REMARKS:

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





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ABOVE 1GHz WORST-CASE DATA:

Note: For higher frequency, the emission is too low to be detected.

Band 1

802.11a_ANT W0(SISO Mode):

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	53.85	55.07	74	-20.15	34.2	11.17	46.59	100	130	Peak
5150	46.76	47.98	54	-7.24	34.2	11.17	46.59	100	130	Average
5180	104.13	105.26	/	/	34.26	11.2	46.59	100	130	Peak
5180	97.31	98.44	/	/	34.26	11.2	46.59	100	130	Average
5350	53.03	53.88	74	-20.97	34.3	11.39	46.54	100	130	Peak
5350	46.6	47.45	54	-7.4	34.3	11.39	46.54	100	130	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	52.54	53.96	74	-21.46	34	11.17	46.59	100	200	Peak
5150	47.25	48.67	54	-6.75	34	11.17	46.59	100	200	Average
5180	104.27	105.72	/	/	33.94	11.2	46.59	100	200	Peak
5180	97.72	99.17	/	/	33.94	11.2	46.59	100	200	Average
5350	53.48	53.83	74	-20.52	34.8	11.39	46.54	100	200	Peak
5350	46.96	47.31	54	-7.04	34.8	11.39	46.54	100	200	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5180MHz: Fundamental frequency.



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Test Report No.: W7L-P24090006RF03

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	53.47	54.69	74	-20.53	34.2	11.17	46.59	100	60	Peak
5150	48.53	49.75	54	-5.47	34.2	11.17	46.59	100	60	Average
5200	104.15	105.21	/	/	34.3	11.22	46.58	100	60	Peak
5200	97.94	99	/	/	34.3	11.22	46.58	100	60	Average
5350	53.55	54.4	74	-20.45	34.3	11.39	46.54	100	60	Peak
5350	48.36	49.21	54	-5.64	34.3	11.39	46.54	100	60	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	54.77	56.19	74	-19.23	34	11.17	46.59	100	70	Peak
5150	47.96	49.38	54	-6.04	34	11.17	46.59	100	70	Average
5200	104.8	106.26	/	/	33.9	11.22	46.58	100	70	Peak
5200	98.18	99.64	/	/	33.9	11.22	46.58	100	70	Average
5350	57.44	57.79	74	-16.56	34.8	11.39	46.54	100	70	Peak
5350	48.7	49.05	54	-5.3	34.8	11.39	46.54	100	70	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5200MHz: Fundamental frequency.



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Test Report No.: W7L-P24090006RF03

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	53.43	54.65	74	-20.57	34.2	11.17	46.59	150	60	Peak
5150	49.07	50.29	54	-4.93	34.2	11.17	46.59	150	60	Average
5240	105.06	105.9	/	/	34.46	11.27	46.57	150	60	Peak
5240	98.11	98.95	/	/	34.46	11.27	46.57	150	60	Average
5350	56.56	57.41	74	-17.44	34.3	11.39	46.54	150	60	Peak
5350	47.78	48.63	54	-6.22	34.3	11.39	46.54	150	60	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	54.4	55.82	74	-19.6	34	11.17	46.59	100	70	Peak
5150	48.32	49.74	54	-5.68	34	11.17	46.59	100	70	Average
5240	104.16	105.48	/	/	33.98	11.27	46.57	100	70	Peak
5240	96.75	98.07	/	/	33.98	11.27	46.57	100	70	Average
5350	54.21	54.56	74	-19.79	34.8	11.39	46.54	100	70	Peak
5350	48.7	49.05	54	-5.3	34.8	11.39	46.54	100	70	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5240MHz: Fundamental frequency.



802.11a_ANT W1(SISO Mode):

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.55	56.77	74	-18.45	34.2	11.17	46.59	100	60	Peak
5150	48.5	49.72	54	-5.5	34.2	11.17	46.59	100	60	Average
5180	105.2	106.33	/	/	34.26	11.2	46.59	100	60	Peak
5180	97.72	98.85	/	/	34.26	11.2	46.59	100	60	Average
5350	56.45	57.3	74	-17.55	34.3	11.39	46.54	100	60	Peak
5350	48.52	49.37	54	-5.48	34.3	11.39	46.54	100	60	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	54.77	56.19	74	-19.23	34	11.17	46.59	100	190	Peak
5150	47.91	49.33	54	-6.09	34	11.17	46.59	100	190	Average
5180	96.51	97.96	/	/	33.94	11.2	46.59	100	190	Peak
5180	89.81	91.26	/	/	33.94	11.2	46.59	100	190	Average
5350	53.52	53.87	74	-20.48	34.8	11.39	46.54	100	190	Peak
5350	48.6	48.95	54	-5.4	34.8	11.39	46.54	100	190	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5180MHz: Fundamental frequency.



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Test Report No.: W7L-P24090006RF03

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	54.53	55.75	74	-19.47	34.2	11.17	46.59	100	60	Peak
5150	48.32	49.54	54	-5.68	34.2	11.17	46.59	100	60	Average
5200	104.76	105.82	/	/	34.3	11.22	46.58	100	60	Peak
5200	97.87	98.93	/	/	34.3	11.22	46.58	100	60	Average
5350	53.93	54.78	74	-20.07	34.3	11.39	46.54	100	60	Peak
5350	47.71	48.56	54	-6.29	34.3	11.39	46.54	100	60	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.26	56.68	74	-18.74	34	11.17	46.59	100	190	Peak
5150	48.73	50.15	54	-5.27	34	11.17	46.59	100	190	Average
5200	95.78	97.24	/	/	33.9	11.22	46.58	100	190	Peak
5200	90.47	91.93	/	/	33.9	11.22	46.58	100	190	Average
5350	56.26	56.61	74	-17.74	34.8	11.39	46.54	100	190	Peak
5350	49.03	49.38	54	-4.97	34.8	11.39	46.54	100	190	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5200MHz: Fundamental frequency.



**BUREAU
VERITAS**

Test Report No.: W7L-P24090006RF03

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	53.76	54.98	74	-20.24	34.2	11.17	46.59	100	60	Peak
5150	48.75	49.97	54	-5.25	34.2	11.17	46.59	100	60	Average
5240	104.45	105.29	/	/	34.46	11.27	46.57	100	60	Peak
5240	97.49	98.33	/	/	34.46	11.27	46.57	100	60	Average
5350	54.07	54.92	74	-19.93	34.3	11.39	46.54	100	60	Peak
5350	48.4	49.25	54	-5.6	34.3	11.39	46.54	100	60	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.06	56.48	74	-18.94	34	11.17	46.59	100	200	Peak
5150	48.52	49.94	54	-5.48	34	11.17	46.59	100	200	Average
5240	96.85	98.17	/	/	33.98	11.27	46.57	100	200	Peak
5240	90.47	91.79	/	/	33.98	11.27	46.57	100	200	Average
5350	55.66	56.01	74	-18.34	34.8	11.39	46.54	100	200	Peak
5350	48.68	49.03	54	-5.32	34.8	11.39	46.54	100	200	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5240MHz: Fundamental frequency.



**BUREAU
VERITAS**

Test Report No.: W7L-P24090006RF03

802.11n (20MHz)(MIMO Mode)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.73	56.95	74	-18.27	34.2	11.17	46.59	100	265	Peak
5150	48.83	50.05	54	-5.17	34.2	11.17	46.59	100	265	Average
5180	104.92	106.05	/	/	34.26	11.2	46.59	100	265	Peak
5180	98.53	99.66	/	/	34.26	11.2	46.59	100	265	Average
5350	54.05	54.9	74	-19.95	34.3	11.39	46.54	100	265	Peak
5350	48.31	49.16	54	-5.69	34.3	11.39	46.54	100	265	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	54.82	56.24	74	-19.18	34	11.17	46.59	100	320	Peak
5150	48.62	50.04	54	-5.38	34	11.17	46.59	100	320	Average
5180	103.68	105.13	/	/	33.94	11.2	46.59	100	320	Peak
5180	97.74	99.19	/	/	33.94	11.2	46.59	100	320	Average
5350	54.42	54.77	74	-19.58	34.8	11.39	46.54	100	320	Peak
5350	48.65	49	54	-5.35	34.8	11.39	46.54	100	320	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5180MHz: Fundamental frequency.



**BUREAU
VERITAS**

Test Report No.: W7L-P24090006RF03

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.44	56.66	74	-18.56	34.2	11.17	46.59	100	265	Peak
5150	48.16	49.38	54	-5.84	34.2	11.17	46.59	100	265	Average
5200	104.09	105.15	/	/	34.3	11.22	46.58	100	265	Peak
5200	97.83	98.89	/	/	34.3	11.22	46.58	100	265	Average
5350	53.98	54.83	74	-20.02	34.3	11.39	46.54	100	265	Peak
5350	48.83	49.68	54	-5.17	34.3	11.39	46.54	100	265	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.02	56.44	74	-18.98	34	11.17	46.59	100	320	Peak
5150	48.52	49.94	54	-5.48	34	11.17	46.59	100	320	Average
5200	103.21	104.67	/	/	33.9	11.22	46.58	100	320	Peak
5200	97.1	98.56	/	/	33.9	11.22	46.58	100	320	Average
5350	53.91	54.26	74	-20.09	34.8	11.39	46.54	100	320	Peak
5350	49.46	49.81	54	-4.54	34.8	11.39	46.54	100	320	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5200MHz: Fundamental frequency.



**BUREAU
VERITAS**

Test Report No.: W7L-P24090006RF03

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	53.48	54.7	74	-20.52	34.2	11.17	46.59	100	265	Peak
5150	48.26	49.48	54	-5.74	34.2	11.17	46.59	100	265	Average
5240	103.26	104.1	/	/	34.46	11.27	46.57	100	265	Peak
5240	96.82	97.66	/	/	34.46	11.27	46.57	100	265	Average
5350	53.94	54.79	74	-20.06	34.3	11.39	46.54	100	265	Peak
5350	47.58	48.43	54	-6.42	34.3	11.39	46.54	100	265	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	54.42	55.84	74	-19.58	34	11.17	46.59	100	320	Peak
5150	48.67	50.09	54	-5.33	34	11.17	46.59	100	320	Average
5240	101.98	103.3	/	/	33.98	11.27	46.57	100	320	Peak
5240	94.78	96.1	/	/	33.98	11.27	46.57	100	320	Average
5350	54.4	54.75	74	-19.6	34.8	11.39	46.54	100	320	Peak
5350	47.97	48.32	54	-6.03	34.8	11.39	46.54	100	320	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5240MHz: Fundamental frequency.



802.11n (40MHz)(MIMO Mode)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	53.76	54.98	74	-20.24	34.2	11.17	46.59	100	265	Peak
5150	48.42	49.64	54	-5.58	34.2	11.17	46.59	100	265	Average
5190	100.13	101.22	/	/	34.28	11.21	46.58	100	265	Peak
5190	95.63	96.72	/	/	34.28	11.21	46.58	100	265	Average
5350	52.46	53.31	74	-21.54	34.3	11.39	46.54	100	265	Peak
5350	48.54	49.39	54	-5.46	34.3	11.39	46.54	100	265	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	53.6	55.02	74	-20.4	34	11.17	46.59	100	320	Peak
5150	47.96	49.38	54	-6.04	34	11.17	46.59	100	320	Average
5190	98.82	100.27	/	/	33.92	11.21	46.58	100	320	Peak
5190	93.93	95.38	/	/	33.92	11.21	46.58	100	320	Average
5350	55.04	55.39	74	-18.96	34.8	11.39	46.54	100	320	Peak
5350	49.16	49.51	54	-4.84	34.8	11.39	46.54	100	320	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5190MHz: Fundamental frequency.



**BUREAU
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Test Report No.: W7L-P24090006RF03

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	52.69	53.91	74	-21.31	34.2	11.17	46.59	100	265	Peak
5150	49.5	50.72	54	-4.5	34.2	11.17	46.59	100	265	Average
5230	100.02	100.91	/	/	34.42	11.26	46.57	100	265	Peak
5230	94.79	95.68	/	/	34.42	11.26	46.57	100	265	Average
5350	53.9	54.75	74	-20.1	34.3	11.39	46.54	100	265	Peak
5350	47.71	48.56	54	-6.29	34.3	11.39	46.54	100	265	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	53.58	55	74	-20.42	34	11.17	46.59	100	320	Peak
5150	48.02	49.44	54	-5.98	34	11.17	46.59	100	320	Average
5230	98.41	99.76	/	/	33.96	11.26	46.57	100	320	Peak
5230	92.83	94.18	/	/	33.96	11.26	46.57	100	320	Average
5350	54.79	55.14	74	-19.21	34.8	11.39	46.54	100	320	Peak
5350	49.13	49.48	54	-4.87	34.8	11.39	46.54	100	320	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5230MHz: Fundamental frequency.



802.11ac (80MHz)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	52.27	53.49	74	-21.73	34.2	11.17	46.59	100	265	Peak
5150	49.53	50.75	54	-4.47	34.2	11.17	46.59	100	265	Average
5210	96.88	97.88	/	/	34.34	11.24	46.58	100	265	Peak
5210	93.3	94.3	/	/	34.34	11.24	46.58	100	265	Average
5350	52.03	52.88	74	-21.97	34.3	11.39	46.54	100	265	Peak
5350	48.54	49.39	54	-5.46	34.3	11.39	46.54	100	265	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	53.15	54.57	74	-20.85	34	11.17	46.59	100	320	Peak
5150	49.7	51.12	54	-4.3	34	11.17	46.59	100	320	Average
5210	95.8	97.22	/	/	33.92	11.24	46.58	100	320	Peak
5210	91.8	93.22	/	/	33.92	11.24	46.58	100	320	Average
5350	54.14	54.49	74	-19.86	34.8	11.39	46.54	100	320	Peak
5350	49.11	49.46	54	-4.89	34.8	11.39	46.54	100	320	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5210MHz: Fundamental frequency.



802.11ax (20MHz)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	53.36	54.58	74	-20.64	34.2	11.17	46.59	100	265	Peak
5150	48.65	49.87	54	-5.35	34.2	11.17	46.59	100	265	Average
5180	108.33	109.46	/	/	34.26	11.2	46.59	100	265	Peak
5180	98.42	99.55	/	/	34.26	11.2	46.59	100	265	Average
5350	53.93	54.78	74	-20.07	34.3	11.39	46.54	100	265	Peak
5350	47.17	48.02	54	-6.83	34.3	11.39	46.54	100	265	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	53.16	54.58	74	-20.84	34	11.17	46.59	100	80	Peak
5150	48.78	50.2	54	-5.22	34	11.17	46.59	100	80	Average
5180	106.12	107.57	/	/	33.94	11.2	46.59	100	80	Peak
5180	96.73	98.18	/	/	33.94	11.2	46.59	100	80	Average
5350	53.71	54.06	74	-20.29	34.8	11.39	46.54	100	80	Peak
5350	48.47	48.82	54	-5.53	34.8	11.39	46.54	100	80	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5180MHz: Fundamental frequency.



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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	54.6	55.82	74	-19.4	34.2	11.17	46.59	100	265	Peak
5150	48.73	49.95	54	-5.27	34.2	11.17	46.59	100	265	Average
5200	106.17	107.23	/	/	34.3	11.22	46.58	100	265	Peak
5200	97.74	98.8	/	/	34.3	11.22	46.58	100	265	Average
5350	53.88	54.73	74	-20.12	34.3	11.39	46.54	100	265	Peak
5350	48.21	49.06	54	-5.79	34.3	11.39	46.54	100	265	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	52.92	54.34	74	-21.08	34	11.17	46.59	100	320	Peak
5150	47.99	49.41	54	-6.01	34	11.17	46.59	100	320	Average
5200	105.18	106.64	/	/	33.9	11.22	46.58	100	320	Peak
5200	97.17	98.63	/	/	33.9	11.22	46.58	100	320	Average
5350	56.4	56.75	74	-17.6	34.8	11.39	46.54	100	320	Peak
5350	48.03	48.38	54	-5.97	34.8	11.39	46.54	100	320	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5200MHz: Fundamental frequency.



**BUREAU
VERITAS**

Test Report No.: W7L-P24090006RF03

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	53.74	54.96	74	-20.26	34.2	11.17	46.59	100	265	Peak
5150	49.03	50.25	54	-4.97	34.2	11.17	46.59	100	265	Average
5240	105.28	106.12	/	/	34.46	11.27	46.57	100	265	Peak
5240	96.54	97.38	/	/	34.46	11.27	46.57	100	265	Average
5350	56.29	57.14	74	-17.71	34.3	11.39	46.54	100	265	Peak
5350	48.07	48.92	54	-5.93	34.3	11.39	46.54	100	265	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	52.04	53.46	74	-21.96	34	11.17	46.59	100	340	Peak
5150	48.78	50.2	54	-5.22	34	11.17	46.59	100	340	Average
5240	104.22	105.54	/	/	33.98	11.27	46.57	100	340	Peak
5240	95.08	96.4	/	/	33.98	11.27	46.57	100	340	Average
5350	53.95	54.3	74	-20.05	34.8	11.39	46.54	100	340	Peak
5350	49.08	49.43	54	-4.92	34.8	11.39	46.54	100	340	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5240MHz: Fundamental frequency.



802.11ax (40MHz)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	53.22	54.44	74	-20.78	34.2	11.17	46.59	100	270	Peak
5150	48.77	49.99	54	-5.23	34.2	11.17	46.59	100	270	Average
5190	102.02	103.11	/	/	34.28	11.21	46.58	100	270	Peak
5190	95.13	96.22	/	/	34.28	11.21	46.58	100	270	Average
5350	53.73	54.58	74	-20.27	34.3	11.39	46.54	100	270	Peak
5350	49.06	49.91	54	-4.94	34.3	11.39	46.54	100	270	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	52.61	54.03	74	-21.39	34	11.17	46.59	100	80	Peak
5150	48.72	50.14	54	-5.28	34	11.17	46.59	100	80	Average
5190	100.1	101.55	/	/	33.92	11.21	46.58	100	80	Peak
5190	96.55	98	/	/	33.92	11.21	46.58	100	80	Average
5350	56.44	56.79	74	-17.56	34.8	11.39	46.54	100	80	Peak
5350	48.85	49.2	54	-5.15	34.8	11.39	46.54	100	80	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5190MHz: Fundamental frequency.



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Test Report No.: W7L-P24090006RF03

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	54.32	55.54	74	-19.68	34.2	11.17	46.59	100	265	Peak
5150	48.98	50.2	54	-5.02	34.2	11.17	46.59	100	265	Average
5230	101.61	102.5	/	/	34.42	11.26	46.57	100	265	Peak
5230	94.75	95.64	/	/	34.42	11.26	46.57	100	265	Average
5350	53.96	54.81	74	-20.04	34.3	11.39	46.54	100	265	Peak
5350	48.22	49.07	54	-5.78	34.3	11.39	46.54	100	265	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	52.1	53.52	74	-21.9	34	11.17	46.59	100	320	Peak
5150	49	50.42	54	-5	34	11.17	46.59	100	320	Average
5230	100.69	102.04	/	/	33.96	11.26	46.57	100	320	Peak
5230	92.91	94.26	/	/	33.96	11.26	46.57	100	320	Average
5350	53.62	53.97	74	-20.38	34.8	11.39	46.54	100	320	Peak
5350	47.94	48.29	54	-6.06	34.8	11.39	46.54	100	320	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5230MHz: Fundamental frequency.



Test Report No.: W7L-P24090006RF03

802.11ax (80MHz)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	52.62	53.84	74	-21.38	34.2	11.17	46.59	100	265	Peak
5150	48.94	50.16	54	-5.06	34.2	11.17	46.59	100	265	Average
5210	98.54	99.54	/	/	34.34	11.24	46.58	100	265	Peak
5210	92.13	93.13	/	/	34.34	11.24	46.58	100	265	Average
5350	53.4	54.25	74	-20.6	34.3	11.39	46.54	100	265	Peak
5350	47.47	48.32	54	-6.53	34.3	11.39	46.54	100	265	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	52.68	54.1	74	-21.32	34	11.17	46.59	100	320	Peak
5150	49.33	50.75	54	-4.67	34	11.17	46.59	100	320	Average
5210	97.66	99.08	/	/	33.92	11.24	46.58	100	320	Peak
5210	92.09	93.51	/	/	33.92	11.24	46.58	100	320	Average
5350	53.59	53.94	74	-20.41	34.8	11.39	46.54	100	320	Peak
5350	48.55	48.9	54	-5.45	34.8	11.39	46.54	100	320	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5210MHz: Fundamental frequency.



Test Report No.: W7L-P24090006RF03

802.11ax (160MHz)

CHANNEL	TX Channel 50	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.29	56.51	74	-18.71	34.2	11.17	46.59	100	265	Peak
5150	49.83	51.05	54	-4.17	34.2	11.17	46.59	100	265	Average
5250	96.19	96.98	/	/	34.5	11.28	46.57	100	265	Peak
5250	88.83	89.62	/	/	34.5	11.28	46.57	100	265	Average
5350	54.36	55.21	74	-19.64	34.3	11.39	46.54	100	265	Peak
5350	48.9	49.75	54	-5.1	34.3	11.39	46.54	100	265	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	53.07	54.49	74	-20.93	34	11.17	46.59	100	320	Peak
5150	48.89	50.31	54	-5.11	34	11.17	46.59	100	320	Average
5250	94.13	95.42	/	/	34	11.28	46.57	100	320	Peak
5250	88.31	89.6	/	/	34	11.28	46.57	100	320	Average
5350	55.49	55.84	74	-18.51	34.8	11.39	46.54	100	320	Peak
5350	49.22	49.57	54	-4.78	34.8	11.39	46.54	100	320	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5210MHz: Fundamental frequency.



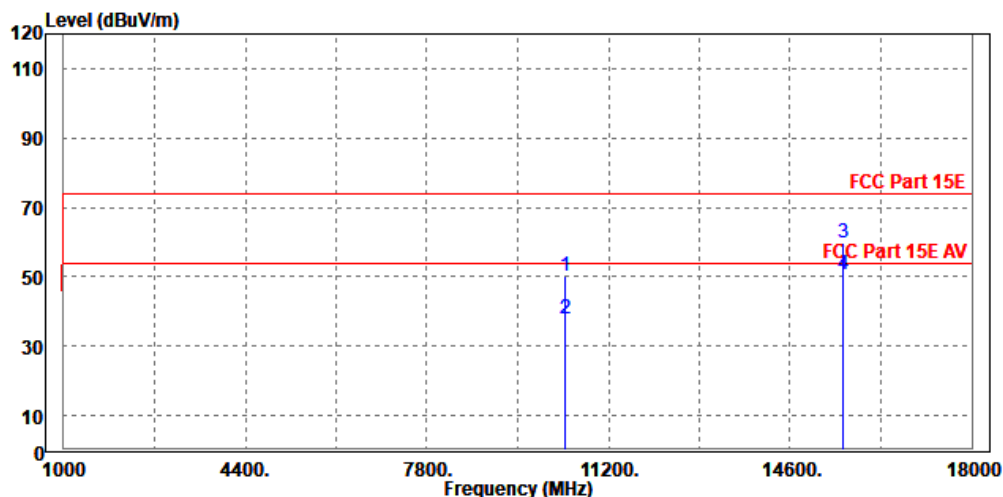
802.11a

Worst case harmonic:

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

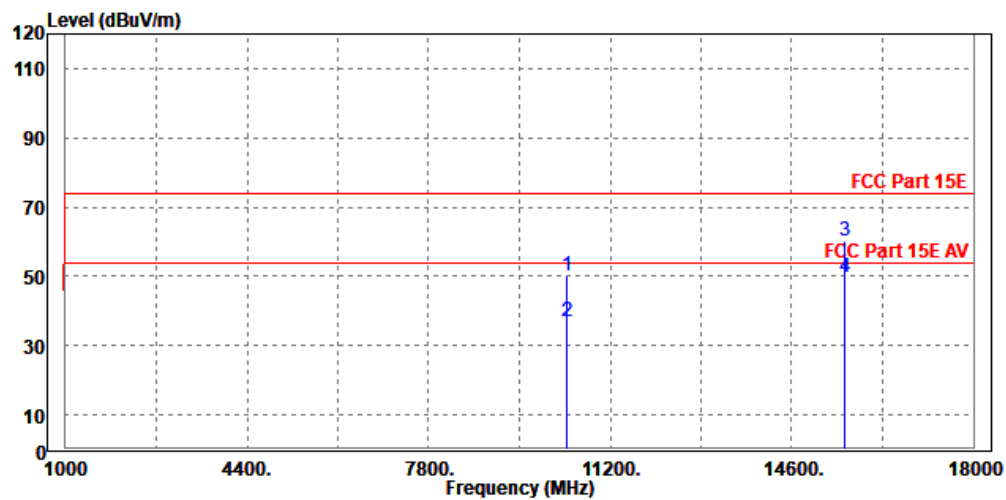
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m		
1	10401.000	50.39	43.05	74.00	-23.61	7.34	Peak	Horizontal
2	10401.000	37.76	30.42	54.00	-16.24	7.34	Average	Horizontal
3	PK15600.000	59.87	39.85	74.00	-14.13	20.02	Peak	Horizontal
4	PP15600.000	50.74	30.72	54.00	-3.26	20.02	Average	Horizontal





ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m		
1	10400.000	50.25	43.31	74.00	-23.75	6.94	Peak	Vertical
2	10400.000	36.97	30.03	54.00	-17.03	6.94	Average	Vertical
3	PK15603.000	60.09	40.47	74.00	-13.91	19.62	Peak	Vertical
4	PP15603.000	49.85	30.23	54.00	-4.15	19.62	Average	Vertical



REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5210MHz: Fundamental frequency.
- For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.



5G WIFI-RU(MIMO Mode)

802.11ax (20MHz) (RU26):

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	54.04	55.26	74	-19.96	34.2	11.17	46.59	100	265	Peak
5150	49.17	50.39	54	-4.83	34.2	11.17	46.59	100	265	Average
5180	107.1	108.23	/	/	34.26	11.2	46.59	100	265	Peak
5180	97.01	98.14	/	/	34.26	11.2	46.59	100	265	Average
5350	54.31	55.16	74	-19.69	34.3	11.39	46.54	100	265	Peak
5350	48.46	49.31	54	-5.54	34.3	11.39	46.54	100	265	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	54.98	56.4	74	-19.02	34	11.17	46.59	100	85	Peak
5150	48.69	50.11	54	-5.31	34	11.17	46.59	100	85	Average
5180	107.58	109.03	/	/	33.94	11.2	46.59	100	85	Peak
5180	97.78	99.23	/	/	33.94	11.2	46.59	100	85	Average
5350	53.36	53.71	74	-20.64	34.8	11.39	46.54	100	85	Peak
5350	49	49.35	54	-5	34.8	11.39	46.54	100	85	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5180MHz: Fundamental frequency.



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Test Report No.: W7L-P24090006RF03

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	53.53	54.75	74	-20.47	34.2	11.17	46.59	100	265	Peak
5150	48.09	49.31	54	-5.91	34.2	11.17	46.59	100	265	Average
5200	106.68	107.74	/	/	34.3	11.22	46.58	100	265	Peak
5200	98.75	99.81	/	/	34.3	11.22	46.58	100	265	Average
5350	53.76	54.61	74	-20.24	34.3	11.39	46.54	100	265	Peak
5350	48.2	49.05	54	-5.8	34.3	11.39	46.54	100	265	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	53.06	54.48	74	-20.94	34	11.17	46.59	100	85	Peak
5150	47.33	48.75	54	-6.67	34	11.17	46.59	100	85	Average
5200	105.59	107.05	/	/	33.9	11.22	46.58	100	85	Peak
5200	98.12	99.58	/	/	33.9	11.22	46.58	100	85	Average
5350	53.17	53.52	74	-20.83	34.8	11.39	46.54	100	85	Peak
5350	48.11	48.46	54	-5.89	34.8	11.39	46.54	100	85	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5200MHz: Fundamental frequency.

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	52.13	53.35	74	-21.87	34.2	11.17	46.59	100	265	Peak
5150	47.62	48.84	54	-6.38	34.2	11.17	46.59	100	265	Average
5240	107.25	108.09	/	/	34.46	11.27	46.57	100	265	Peak
5240	98.85	99.69	/	/	34.46	11.27	46.57	100	265	Average
5350	53.11	53.96	74	-20.89	34.3	11.39	46.54	100	265	Peak
5350	48.08	48.93	54	-5.92	34.3	11.39	46.54	100	265	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	53.2	54.62	74	-20.8	34	11.17	46.59	100	320	Peak
5150	47.53	48.95	54	-6.47	34	11.17	46.59	100	320	Average
5240	106.16	107.48	/	/	33.98	11.27	46.57	100	320	Peak
5240	98	99.32	/	/	33.98	11.27	46.57	100	320	Average
5350	53.62	53.97	74	-20.38	34.8	11.39	46.54	100	320	Peak
5350	48.09	48.44	54	-5.91	34.8	11.39	46.54	100	320	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5240MHz: Fundamental frequency.



802.11ax (20MHz) (RU52):

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	53.47	54.69	74	-20.53	34.2	11.17	46.59	100	280	Peak
5150	48.17	49.39	54	-5.83	34.2	11.17	46.59	100	280	Average
5180	105.99	107.12	/	/	34.26	11.2	46.59	100	280	Peak
5180	97.79	98.92	/	/	34.26	11.2	46.59	100	280	Average
5350	53.21	54.06	74	-20.79	34.3	11.39	46.54	100	280	Peak
5350	47.88	48.73	54	-6.12	34.3	11.39	46.54	100	280	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	52.55	53.97	74	-21.45	34	11.17	46.59	100	195	Peak
5150	47.24	48.66	54	-6.76	34	11.17	46.59	100	195	Average
5180	105.49	106.94	/	/	33.94	11.2	46.59	100	195	Peak
5180	96.62	98.07	/	/	33.94	11.2	46.59	100	195	Average
5350	54.48	54.83	74	-19.52	34.8	11.39	46.54	100	195	Peak
5350	48.24	48.59	54	-5.76	34.8	11.39	46.54	100	195	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5180MHz: Fundamental frequency.



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Test Report No.: W7L-P24090006RF03

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	54.98	56.2	74	-19.02	34.2	11.17	46.59	100	265	Peak
5150	48.27	49.49	54	-5.73	34.2	11.17	46.59	100	265	Average
5200	106.6	107.66	/	/	34.3	11.22	46.58	100	265	Peak
5200	98.69	99.75	/	/	34.3	11.22	46.58	100	265	Average
5350	53.59	54.44	74	-20.41	34.3	11.39	46.54	100	265	Peak
5350	47.74	48.59	54	-6.26	34.3	11.39	46.54	100	265	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	52.7	54.12	74	-21.3	34	11.17	46.59	100	195	Peak
5150	47.46	48.88	54	-6.54	34	11.17	46.59	100	195	Average
5200	104.96	106.42	/	/	33.9	11.22	46.58	100	195	Peak
5200	97.9	99.36	/	/	33.9	11.22	46.58	100	195	Average
5350	52.95	53.3	74	-21.05	34.8	11.39	46.54	100	195	Peak
5350	48.58	48.93	54	-5.42	34.8	11.39	46.54	100	195	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5200MHz: Fundamental frequency.



**BUREAU
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Test Report No.: W7L-P24090006RF03

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	53.73	54.95	74	-20.27	34.2	11.17	46.59	100	265	Peak
5150	48.46	49.68	54	-5.54	34.2	11.17	46.59	100	265	Average
5240	107.73	108.57	/	/	34.46	11.27	46.57	100	265	Peak
5240	98.15	98.99	/	/	34.46	11.27	46.57	100	265	Average
5350	54.25	55.1	74	-19.75	34.3	11.39	46.54	100	265	Peak
5350	47.99	48.84	54	-6.01	34.3	11.39	46.54	100	265	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	52.58	54	74	-21.42	34	11.17	46.59	100	195	Peak
5150	47.71	49.13	54	-6.29	34	11.17	46.59	100	195	Average
5240	105.35	106.67	/	/	33.98	11.27	46.57	100	195	Peak
5240	95.34	96.66	/	/	33.98	11.27	46.57	100	195	Average
5350	54.65	55	74	-19.35	34.8	11.39	46.54	100	195	Peak
5350	48.19	48.54	54	-5.81	34.8	11.39	46.54	100	195	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5240MHz: Fundamental frequency.



802.11ax (20MHz) (RU106):

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	54.05	55.27	74	-19.95	34.2	11.17	46.59	100	265	Peak
5150	47.9	49.12	54	-6.1	34.2	11.17	46.59	100	265	Average
5180	105.75	106.88	/	/	34.26	11.2	46.59	100	265	Peak
5180	97.71	98.84	/	/	34.26	11.2	46.59	100	265	Average
5350	54.1	54.95	74	-19.9	34.3	11.39	46.54	100	265	Peak
5350	48.07	48.92	54	-5.93	34.3	11.39	46.54	100	265	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	53.36	54.78	74	-20.64	34	11.17	46.59	100	195	Peak
5150	47.83	49.25	54	-6.17	34	11.17	46.59	100	195	Average
5180	105.93	107.38	/	/	33.94	11.2	46.59	100	195	Peak
5180	96.14	97.59	/	/	33.94	11.2	46.59	100	195	Average
5350	54.4	54.75	74	-19.6	34.8	11.39	46.54	100	195	Peak
5350	48.41	48.76	54	-5.59	34.8	11.39	46.54	100	195	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5180MHz: Fundamental frequency.



**BUREAU
VERITAS**

Test Report No.: W7L-P24090006RF03

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	53.2	54.42	74	-20.8	34.2	11.17	46.59	100	265	Peak
5150	47.98	49.2	54	-6.02	34.2	11.17	46.59	100	265	Average
5200	105.86	106.92	/	/	34.3	11.22	46.58	100	265	Peak
5200	97.17	98.23	/	/	34.3	11.22	46.58	100	265	Average
5350	55	55.85	74	-19	34.3	11.39	46.54	100	265	Peak
5350	48.24	49.09	54	-5.76	34.3	11.39	46.54	100	265	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	52.17	53.59	74	-21.83	34	11.17	46.59	100	195	Peak
5150	47.79	49.21	54	-6.21	34	11.17	46.59	100	195	Average
5200	105.56	107.02	/	/	33.9	11.22	46.58	100	195	Peak
5200	97.04	98.5	/	/	33.9	11.22	46.58	100	195	Average
5350	51.74	52.09	74	-22.26	34.8	11.39	46.54	100	195	Peak
5350	48.51	48.86	54	-5.49	34.8	11.39	46.54	100	195	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5200MHz: Fundamental frequency.



**BUREAU
VERITAS**

Test Report No.: W7L-P24090006RF03

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	53.85	55.07	74	-20.15	34.2	11.17	46.59	100	265	Peak
5150	48.56	49.78	54	-5.44	34.2	11.17	46.59	100	265	Average
5240	105.63	106.47	/	/	34.46	11.27	46.57	100	265	Peak
5240	96.7	97.54	/	/	34.46	11.27	46.57	100	265	Average
5350	54.33	55.18	74	-19.67	34.3	11.39	46.54	100	265	Peak
5350	47.83	48.68	54	-6.17	34.3	11.39	46.54	100	265	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	52.45	53.87	74	-21.55	34	11.17	46.59	100	195	Peak
5150	47.7	49.12	54	-6.3	34	11.17	46.59	100	195	Average
5240	106.87	108.19	/	/	33.98	11.27	46.57	100	195	Peak
5240	96.36	97.68	/	/	33.98	11.27	46.57	100	195	Average
5350	54.63	54.98	74	-19.37	34.8	11.39	46.54	100	195	Peak
5350	47.79	48.14	54	-6.21	34.8	11.39	46.54	100	195	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5240MHz: Fundamental frequency.



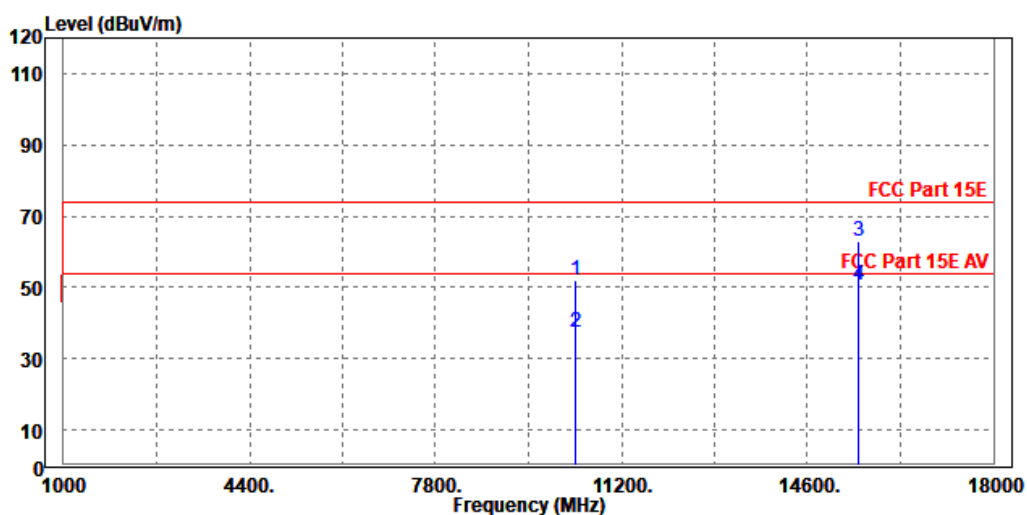
802.11ax (20MHz) (RU26):

Worst case harmonic:

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

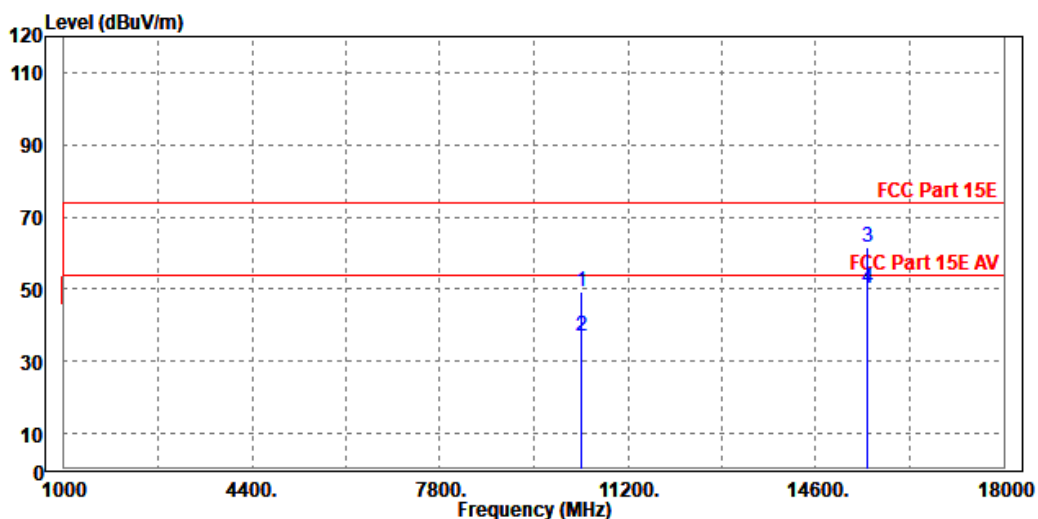
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m		
1	10360.000	52.03	44.74	74.00	-21.97	7.29	Peak	Horizontal
2	10360.000	37.56	30.27	54.00	-16.44	7.29	Average	Horizontal
3	PK15535.000	62.99	42.71	74.00	-11.01	20.28	Peak	Horizontal
4	PP15535.000	50.82	30.54	54.00	-3.18	20.28	Average	Horizontal





ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m		
1	10360.000	49.39	42.38	74.00	-24.61	7.01	Peak	Vertical
2	10360.000	36.88	29.87	54.00	-17.12	7.01	Average	Vertical
3	PK15535.000	61.43	41.48	74.00	-12.57	19.95	Peak	Vertical
4	PP15535.000	50.29	30.34	54.00	-3.71	19.95	Average	Vertical



REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5190MHz: Fundamental frequency.
- For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.



Test Report No.: W7L-P24090006RF03

Band 2

802.11a_ANT W0(SISO Mode)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	54.87	56.09	74	-19.13	34.2	11.17	46.59	100	60	Peak
5150	48.22	49.44	54	-5.78	34.2	11.17	46.59	100	60	Average
5260	104.15	104.97	/	/	34.46	11.29	46.57	100	60	Peak
5260	96.35	97.17	/	/	34.46	11.29	46.57	100	60	Average
5350	55.27	56.12	74	-18.73	34.3	11.39	46.54	100	60	Peak
5350	47.36	48.21	54	-6.64	34.3	11.39	46.54	100	60	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.01	56.43	74	-18.99	34	11.17	46.59	100	70	Peak
5150	47.67	49.09	54	-6.33	34	11.17	46.59	100	70	Average
5260	104.47	105.63	/	/	34.12	11.29	46.57	100	70	Peak
5260	96.51	97.67	/	/	34.12	11.29	46.57	100	70	Average
5350	53.88	54.23	74	-20.12	34.8	11.39	46.54	100	70	Peak
5350	47.58	47.93	54	-6.42	34.8	11.39	46.54	100	70	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5260MHz: Fundamental frequency.



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Test Report No.: W7L-P24090006RF03

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	54.27	55.49	74	-19.73	34.2	11.17	46.59	100	60	Peak
5150	48.14	49.36	54	-5.86	34.2	11.17	46.59	100	60	Average
5300	105.41	106.33	/	/	34.3	11.34	46.56	100	60	Peak
5300	97.21	98.13	/	/	34.3	11.34	46.56	100	60	Average
5350	53.76	54.61	74	-20.24	34.3	11.39	46.54	100	60	Peak
5350	47.82	48.67	54	-6.18	34.3	11.39	46.54	100	60	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	53.3	54.72	74	-20.7	34	11.17	46.59	100	70	Peak
5150	48.42	49.84	54	-5.58	34	11.17	46.59	100	70	Average
5300	104.69	105.31	/	/	34.6	11.34	46.56	100	70	Peak
5300	97.65	98.27	/	/	34.6	11.34	46.56	100	70	Average
5350	56.05	56.4	74	-17.95	34.8	11.39	46.54	100	70	Peak
5350	48.37	48.72	54	-5.63	34.8	11.39	46.54	100	70	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5300MHz: Fundamental frequency.



**BUREAU
VERITAS**

Test Report No.: W7L-P24090006RF03

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	54.65	55.87	74	-19.35	34.2	11.17	46.59	100	55	Peak
5150	48.31	49.53	54	-5.69	34.2	11.17	46.59	100	55	Average
5320	104.34	105.23	/	/	34.3	11.36	46.55	100	55	Peak
5320	97.89	98.78	/	/	34.3	11.36	46.55	100	55	Average
5350	55.48	56.33	74	-18.52	34.3	11.39	46.54	100	55	Peak
5350	49.38	50.23	54	-4.62	34.3	11.39	46.54	100	55	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	53.59	55.01	74	-20.41	34	11.17	46.59	100	70	Peak
5150	47.44	48.86	54	-6.56	34	11.17	46.59	100	70	Average
5320	105.25	105.76	/	/	34.68	11.36	46.55	100	70	Peak
5320	97.02	97.53	/	/	34.68	11.36	46.55	100	70	Average
5350	56.32	56.67	74	-17.68	34.8	11.39	46.54	100	70	Peak
5350	48.72	49.07	54	-5.28	34.8	11.39	46.54	100	70	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5320MHz: Fundamental frequency.



802.11a_ANT W1(SISO Mode)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	54.59	55.81	74	-19.41	34.2	11.17	46.59	100	260	Peak
5150	48.27	49.49	54	-5.73	34.2	11.17	46.59	100	260	Average
5260	103.83	104.65	/	/	34.46	11.29	46.57	100	260	Peak
5260	96.39	97.21	/	/	34.46	11.29	46.57	100	260	Average
5350	53.72	54.57	74	-20.28	34.3	11.39	46.54	100	260	Peak
5350	47.78	48.63	54	-6.22	34.3	11.39	46.54	100	260	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.23	56.65	74	-18.77	34	11.17	46.59	100	345	Peak
5150	48.6	50.02	54	-5.4	34	11.17	46.59	100	345	Average
5260	96.22	97.38	/	/	34.12	11.29	46.57	100	345	Peak
5260	90.84	92	/	/	34.12	11.29	46.57	100	345	Average
5350	53.32	53.67	74	-20.68	34.8	11.39	46.54	100	345	Peak
5350	48.03	48.38	54	-5.97	34.8	11.39	46.54	100	345	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5260MHz: Fundamental frequency.

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.26	56.48	74	-18.74	34.2	11.17	46.59	100	260	Peak
5150	48.98	50.2	54	-5.02	34.2	11.17	46.59	100	260	Average
5300	105.31	106.23	/	/	34.3	11.34	46.56	100	260	Peak
5300	97.68	98.6	/	/	34.3	11.34	46.56	100	260	Average
5350	54.41	55.26	74	-19.59	34.3	11.39	46.54	100	260	Peak
5350	48.32	49.17	54	-5.68	34.3	11.39	46.54	100	260	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	53.25	54.67	74	-20.75	34	11.17	46.59	100	345	Peak
5150	48.09	49.51	54	-5.91	34	11.17	46.59	100	345	Average
5300	97.33	97.95	/	/	34.6	11.34	46.56	100	345	Peak
5300	91.34	91.96	/	/	34.6	11.34	46.56	100	345	Average
5350	57.31	57.66	74	-16.69	34.8	11.39	46.54	100	345	Peak
5350	48.39	48.74	54	-5.61	34.8	11.39	46.54	100	345	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5300MHz: Fundamental frequency.

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	54.51	55.73	74	-19.49	34.2	11.17	46.59	100	260	Peak
5150	48.65	49.87	54	-5.35	34.2	11.17	46.59	100	260	Average
5320	104.79	105.68	/	/	34.3	11.36	46.55	100	260	Peak
5320	97.45	98.34	/	/	34.3	11.36	46.55	100	260	Average
5350	55.79	56.64	74	-18.21	34.3	11.39	46.54	100	260	Peak
5350	48.34	49.19	54	-5.66	34.3	11.39	46.54	100	260	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	52.97	54.39	74	-21.03	34	11.17	46.59	100	330	Peak
5150	48.65	50.07	54	-5.35	34	11.17	46.59	100	330	Average
5320	98.72	99.23	/	/	34.68	11.36	46.55	100	330	Peak
5320	91.28	91.79	/	/	34.68	11.36	46.55	100	330	Average
5350	54.72	55.07	74	-19.28	34.8	11.39	46.54	100	330	Peak
5350	49.72	50.07	54	-4.28	34.8	11.39	46.54	100	330	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5320MHz: Fundamental frequency.



802.11n (20MHz) (MIMO Mode)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	54.02	55.24	74	-19.98	34.2	11.17	46.59	100	265	Peak
5150	48.76	49.98	54	-5.24	34.2	11.17	46.59	100	265	Average
5260	104.56	105.38	/	/	34.46	11.29	46.57	100	265	Peak
5260	96.67	97.49	/	/	34.46	11.29	46.57	100	265	Average
5350	53.53	54.38	74	-20.47	34.3	11.39	46.54	100	265	Peak
5350	48.54	49.39	54	-5.46	34.3	11.39	46.54	100	265	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.81	57.23	74	-18.19	34	11.17	46.59	100	320	Peak
5150	48.28	49.7	54	-5.72	34	11.17	46.59	100	320	Average
5260	101.71	102.87	/	/	34.12	11.29	46.57	100	320	Peak
5260	94.92	96.08	/	/	34.12	11.29	46.57	100	320	Average
5350	55.97	56.32	74	-18.03	34.8	11.39	46.54	100	320	Peak
5350	49.4	49.75	54	-4.6	34.8	11.39	46.54	100	320	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5260MHz: Fundamental frequency.



**BUREAU
VERITAS**

Test Report No.: W7L-P24090006RF03

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	54.75	55.97	74	-19.25	34.2	11.17	46.59	100	265	Peak
5150	49.69	50.91	54	-4.31	34.2	11.17	46.59	100	265	Average
5300	103.75	104.67	/	/	34.3	11.34	46.56	100	265	Peak
5300	96.08	97	/	/	34.3	11.34	46.56	100	265	Average
5350	53.42	54.27	74	-20.58	34.3	11.39	46.54	100	265	Peak
5350	47.67	48.52	54	-6.33	34.3	11.39	46.54	100	265	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	52.53	53.95	74	-21.47	34	11.17	46.59	100	320	Peak
5150	48.83	50.25	54	-5.17	34	11.17	46.59	100	320	Average
5300	103.34	103.96	/	/	34.6	11.34	46.56	100	320	Peak
5300	96.82	97.44	/	/	34.6	11.34	46.56	100	320	Average
5350	57.64	57.99	74	-16.36	34.8	11.39	46.54	100	320	Peak
5350	48.58	48.93	54	-5.42	34.8	11.39	46.54	100	320	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5300MHz: Fundamental frequency.



**BUREAU
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Test Report No.: W7L-P24090006RF03

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	53.8	55.02	74	-20.2	34.2	11.17	46.59	100	265	Peak
5150	48.61	49.83	54	-5.39	34.2	11.17	46.59	100	265	Average
5320	103.37	104.26	/	/	34.3	11.36	46.55	100	265	Peak
5320	96.62	97.51	/	/	34.3	11.36	46.55	100	265	Average
5350	54.39	55.24	74	-19.61	34.3	11.39	46.54	100	265	Peak
5350	47.81	48.66	54	-6.19	34.3	11.39	46.54	100	265	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	53.13	54.55	74	-20.87	34	11.17	46.59	100	320	Peak
5150	48.37	49.79	54	-5.63	34	11.17	46.59	100	320	Average
5320	102.1	102.61	/	/	34.68	11.36	46.55	100	320	Peak
5320	95.07	95.58	/	/	34.68	11.36	46.55	100	320	Average
5350	52.92	53.27	74	-21.08	34.8	11.39	46.54	100	320	Peak
5350	48.48	48.83	54	-5.52	34.8	11.39	46.54	100	320	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5320MHz: Fundamental frequency.



802.11n (40MHz) (MIMO Mode)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	52	53.22	74	-22	34.2	11.17	46.59	100	265	Peak
5150	48.43	49.65	54	-5.57	34.2	11.17	46.59	100	265	Average
5270	99.49	100.33	/	/	34.42	11.3	46.56	100	265	Peak
5270	93.71	94.55	/	/	34.42	11.3	46.56	100	265	Average
5350	53.44	54.29	74	-20.56	34.3	11.39	46.54	100	265	Peak
5350	48.88	49.73	54	-5.12	34.3	11.39	46.54	100	265	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	52.08	53.5	74	-21.92	34	11.17	46.59	100	320	Peak
5150	47.99	49.41	54	-6.01	34	11.17	46.59	100	320	Average
5270	97.97	98.99	/	/	34.24	11.3	46.56	100	320	Peak
5270	92.15	93.17	/	/	34.24	11.3	46.56	100	320	Average
5350	53.79	54.14	74	-20.21	34.8	11.39	46.54	100	320	Peak
5350	48.2	48.55	54	-5.8	34.8	11.39	46.54	100	320	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5270MHz: Fundamental frequency.

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	52.45	53.67	74	-21.55	34.2	11.17	46.59	100	280	Peak
5150	47.36	48.58	54	-6.64	34.2	11.17	46.59	100	280	Average
5310	99.37	100.27	/	/	34.3	11.35	46.55	100	280	Peak
5310	93.45	94.35	/	/	34.3	11.35	46.55	100	280	Average
5350	53.94	54.79	74	-20.06	34.3	11.39	46.54	100	280	Peak
5350	47.59	48.44	54	-6.41	34.3	11.39	46.54	100	280	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	53.05	54.47	74	-20.95	34	11.17	46.59	100	320	Peak
5150	48.59	50.01	54	-5.41	34	11.17	46.59	100	320	Average
5310	97.33	97.89	/	/	34.64	11.35	46.55	100	320	Peak
5310	92.17	92.73	/	/	34.64	11.35	46.55	100	320	Average
5350	54.32	54.67	74	-19.68	34.8	11.39	46.54	100	320	Peak
5350	48.2	48.55	54	-5.8	34.8	11.39	46.54	100	320	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5310MHz: Fundamental frequency.



802.11ac (80MHz) (MIMO Mode)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	53.41	54.63	74	-20.59	34.2	11.17	46.59	100	280	Peak
5150	48.9	50.12	54	-5.1	34.2	11.17	46.59	100	280	Average
5290	96.96	97.86	/	/	34.34	11.32	46.56	100	280	Peak
5290	91.06	91.96	/	/	34.34	11.32	46.56	100	280	Average
5350	54.17	55.02	74	-19.83	34.3	11.39	46.54	100	280	Peak
5350	48.99	49.84	54	-5.01	34.3	11.39	46.54	100	280	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	52.08	53.5	74	-21.92	34	11.17	46.59	100	195	Peak
5150	48.65	50.07	54	-5.35	34	11.17	46.59	100	195	Average
5290	95.2	95.96	/	/	34.48	11.32	46.56	100	195	Peak
5290	89.51	90.27	/	/	34.48	11.32	46.56	100	195	Average
5350	54.65	55	74	-19.35	34.8	11.39	46.54	100	195	Peak
5350	48.96	49.31	54	-5.04	34.8	11.39	46.54	100	195	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5290MHz: Fundamental frequency.



802.11ax (20MHz) (MIMO Mode)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	54.12	55.34	74	-19.88	34.2	11.17	46.59	100	35	Peak
5150	48.59	49.81	54	-5.41	34.2	11.17	46.59	100	35	Average
5260	105.64	106.46	/	/	34.46	11.29	46.57	100	35	Peak
5260	96.08	96.9	/	/	34.46	11.29	46.57	100	35	Average
5350	53.17	54.02	74	-20.83	34.3	11.39	46.54	100	35	Peak
5350	47.96	48.81	54	-6.04	34.3	11.39	46.54	100	35	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	51.89	53.31	74	-22.11	34	11.17	46.59	100	345	Peak
5150	48.39	49.81	54	-5.61	34	11.17	46.59	100	345	Average
5260	105.35	106.51	/	/	34.12	11.29	46.57	100	345	Peak
5260	94.62	95.78	/	/	34.12	11.29	46.57	100	345	Average
5350	56.2	56.55	74	-17.8	34.8	11.39	46.54	100	345	Peak
5350	47.91	48.26	54	-6.09	34.8	11.39	46.54	100	345	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5260MHz: Fundamental frequency.



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Test Report No.: W7L-P24090006RF03

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	52.33	53.55	74	-21.67	34.2	11.17	46.59	100	35	Peak
5150	48.7	49.92	54	-5.3	34.2	11.17	46.59	100	35	Average
5300	105.62	106.54	/	/	34.3	11.34	46.56	100	35	Peak
5300	96.02	96.94	/	/	34.3	11.34	46.56	100	35	Average
5350	53.92	54.77	74	-20.08	34.3	11.39	46.54	100	35	Peak
5350	48.28	49.13	54	-5.72	34.3	11.39	46.54	100	35	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.5	56.92	74	-18.5	34	11.17	46.59	100	340	Peak
5150	48	49.42	54	-6	34	11.17	46.59	100	340	Average
5300	105.15	105.77	/	/	34.6	11.34	46.56	100	340	Peak
5300	95.49	96.11	/	/	34.6	11.34	46.56	100	340	Average
5350	55.55	55.9	74	-18.45	34.8	11.39	46.54	100	340	Peak
5350	49.44	49.79	54	-4.56	34.8	11.39	46.54	100	340	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5300MHz: Fundamental frequency.



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Test Report No.: W7L-P24090006RF03

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	54.87	56.09	74	-19.13	34.2	11.17	46.59	100	40	Peak
5150	47.55	48.77	54	-6.45	34.2	11.17	46.59	100	40	Average
5320	105.27	106.16	/	/	34.3	11.36	46.55	100	40	Peak
5320	96.18	97.07	/	/	34.3	11.36	46.55	100	40	Average
5350	54.88	55.73	74	-19.12	34.3	11.39	46.54	100	40	Peak
5350	48.03	48.88	54	-5.97	34.3	11.39	46.54	100	40	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	52.09	53.51	74	-21.91	34	11.17	46.59	100	340	Peak
5150	47.96	49.38	54	-6.04	34	11.17	46.59	100	340	Average
5320	105.92	106.43	/	/	34.68	11.36	46.55	100	340	Peak
5320	95.7	96.21	/	/	34.68	11.36	46.55	100	340	Average
5350	54.7	55.05	74	-19.3	34.8	11.39	46.54	100	340	Peak
5350	48.59	48.94	54	-5.41	34.8	11.39	46.54	100	340	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5320MHz: Fundamental frequency.



Test Report No.: W7L-P24090006RF03

802.11ax (40MHz) (MIMO Mode)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	54.35	55.57	74	-19.65	34.2	11.17	46.59	200	265	Peak
5150	49.15	50.37	54	-4.85	34.2	11.17	46.59	200	265	Average
5270	100.86	101.7	/	/	34.42	11.3	46.56	200	265	Peak
5270	92.85	93.69	/	/	34.42	11.3	46.56	200	265	Average
5350	52.62	53.47	74	-21.38	34.3	11.39	46.54	200	265	Peak
5350	48.33	49.18	54	-5.67	34.3	11.39	46.54	200	265	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	52.92	54.34	74	-21.08	34	11.17	46.59	100	80	Peak
5150	48.73	50.15	54	-5.27	34	11.17	46.59	100	80	Average
5270	98.78	99.8	/	/	34.24	11.3	46.56	100	80	Peak
5270	91.37	92.39	/	/	34.24	11.3	46.56	100	80	Average
5350	56.51	56.86	74	-17.49	34.8	11.39	46.54	100	80	Peak
5350	48.66	49.01	54	-5.34	34.8	11.39	46.54	100	80	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5270MHz: Fundamental frequency.



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Test Report No.: W7L-P24090006RF03

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	52.42	53.64	74	-21.58	34.2	11.17	46.59	100	35	Peak
5150	48.91	50.13	54	-5.09	34.2	11.17	46.59	100	35	Average
5310	99.7	100.6	/	/	34.3	11.35	46.55	100	35	Peak
5310	93.11	94.01	/	/	34.3	11.35	46.55	100	35	Average
5350	53.4	54.25	74	-20.6	34.3	11.39	46.54	100	35	Peak
5350	48.2	49.05	54	-5.8	34.3	11.39	46.54	100	35	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	52.55	53.97	74	-21.45	34	11.17	46.59	100	340	Peak
5150	48.18	49.6	54	-5.82	34	11.17	46.59	100	340	Average
5310	99.57	100.13	/	/	34.64	11.35	46.55	100	340	Peak
5310	92.5	93.06	/	/	34.64	11.35	46.55	100	340	Average
5350	53.62	53.97	74	-20.38	34.8	11.39	46.54	100	340	Peak
5350	48.65	49	54	-5.35	34.8	11.39	46.54	100	340	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5310MHz: Fundamental frequency.



802.11ax (80MHz) (MIMO Mode)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	52.3	53.52	74	-21.7	34.2	11.17	46.59	100	275	Peak
5150	49.57	50.79	54	-4.43	34.2	11.17	46.59	100	275	Average
5290	97.97	98.87	/	/	34.34	11.32	46.56	100	275	Peak
5290	90.38	91.28	/	/	34.34	11.32	46.56	100	275	Average
5350	53.55	54.4	74	-20.45	34.3	11.39	46.54	100	275	Peak
5350	45.76	46.61	54	-8.24	34.3	11.39	46.54	100	275	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	52.19	53.61	74	-21.81	34	11.17	46.59	100	320	Peak
5150	48.23	49.65	54	-5.77	34	11.17	46.59	100	320	Average
5290	96.78	97.54	/	/	34.48	11.32	46.56	100	320	Peak
5290	89.85	90.61	/	/	34.48	11.32	46.56	100	320	Average
5350	52.33	52.68	74	-21.67	34.8	11.39	46.54	100	320	Peak
5350	48.92	49.27	54	-5.08	34.8	11.39	46.54	100	320	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5290MHz: Fundamental frequency.



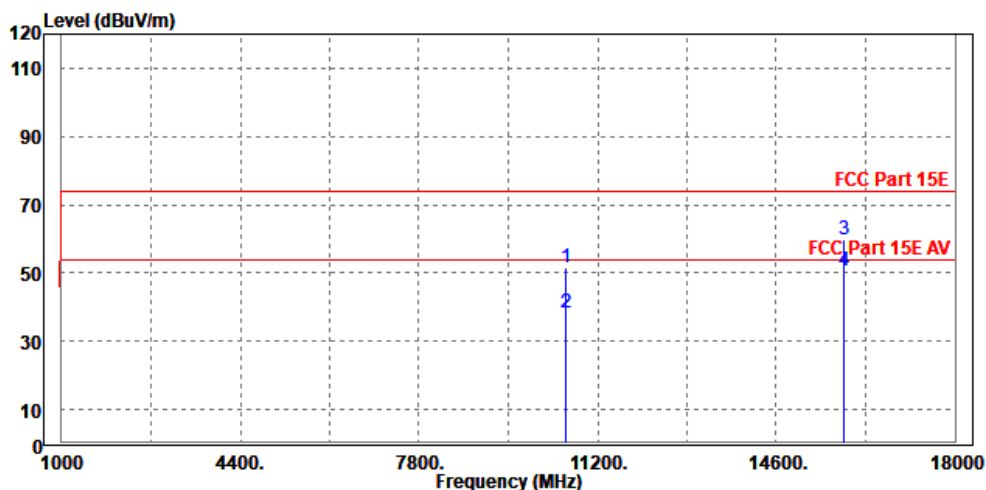
802.11n (20MHz)

Worst case harmonic:

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

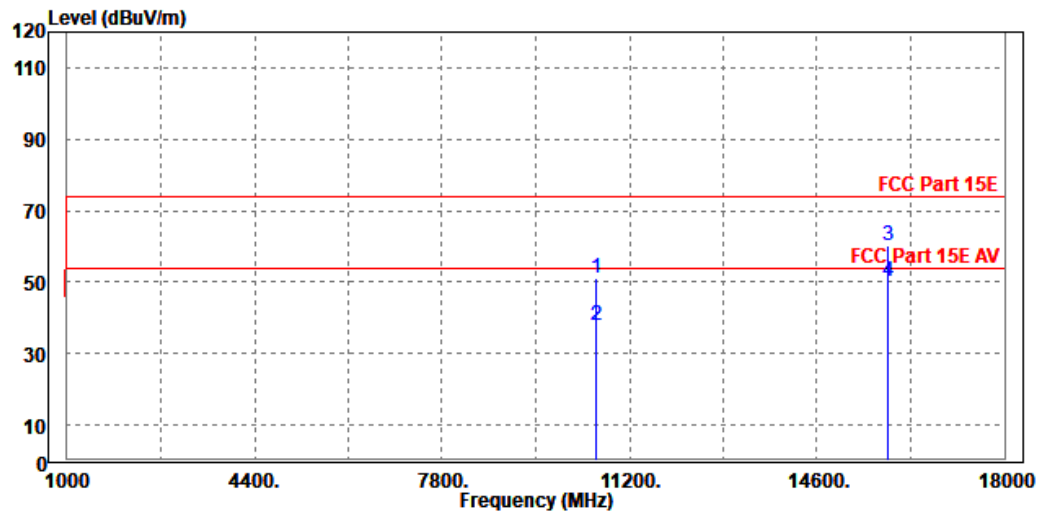
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m		
1	10605.000	51.35	44.10	74.00	-22.65	7.25	Peak	Horizontal
2	10605.000	38.31	31.06	54.00	-15.69	7.25	Average	Horizontal
3	PK15900.000	59.74	40.56	74.00	-14.26	19.18	Peak	Horizontal
4	PP15900.000	50.49	31.31	54.00	-3.51	19.18	Average	Horizontal





ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m		
1	10600.000	51.15	43.90	74.00	-22.85	7.25	Peak	Vertical
2	10600.000	38.00	30.75	54.00	-16.00	7.25	Average	Vertical
3	PK15892.000	60.36	41.15	74.00	-13.64	19.21	Peak	Vertical
4	PP15892.000	50.40	31.19	54.00	-3.60	19.21	Average	Vertical



REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5300MHz: Fundamental frequency.
- For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.



**BUREAU
VERITAS**

Test Report No.: W7L-P24090006RF03

5G WIFI-RU

802.11ax (20MHz) (RU26):

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	54.26	55.48	74	-19.74	34.2	11.17	46.59	100	265	Peak
5150	48.88	50.1	54	-5.12	34.2	11.17	46.59	100	265	Average
5260	104.62	105.44	/	/	34.46	11.29	46.57	100	265	Peak
5260	95.94	96.76	/	/	34.46	11.29	46.57	100	265	Average
5350	54.27	55.12	74	-19.73	34.3	11.39	46.54	100	265	Peak
5350	47.71	48.56	54	-6.29	34.3	11.39	46.54	100	265	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	51.94	53.36	74	-22.06	34	11.17	46.59	100	320	Peak
5150	47.62	49.04	54	-6.38	34	11.17	46.59	100	320	Average
5260	104.83	105.99	/	/	34.12	11.29	46.57	100	320	Peak
5260	96.26	97.42	/	/	34.12	11.29	46.57	100	320	Average
5350	53.32	53.67	74	-20.68	34.8	11.39	46.54	100	320	Peak
5350	47.98	48.33	54	-6.02	34.8	11.39	46.54	100	320	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5260MHz: Fundamental frequency.

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	53.03	54.25	74	-20.97	34.2	11.17	46.59	100	265	Peak
5150	48.03	49.25	54	-5.97	34.2	11.17	46.59	100	265	Average
5300	104.22	105.14	/	/	34.3	11.34	46.56	100	265	Peak
5300	96.83	97.75	/	/	34.3	11.34	46.56	100	265	Average
5350	53.16	54.01	74	-20.84	34.3	11.39	46.54	100	265	Peak
5350	47.69	48.54	54	-6.31	34.3	11.39	46.54	100	265	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	51.81	53.23	74	-22.19	34	11.17	46.59	100	200	Peak
5150	48.07	49.49	54	-5.93	34	11.17	46.59	100	200	Average
5300	105.73	106.35	/	/	34.6	11.34	46.56	100	200	Peak
5300	98.78	99.4	/	/	34.6	11.34	46.56	100	200	Average
5350	55.35	55.7	74	-18.65	34.8	11.39	46.54	100	200	Peak
5350	48.43	48.78	54	-5.57	34.8	11.39	46.54	100	200	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5300MHz: Fundamental frequency.



**BUREAU
VERITAS**

Test Report No.: W7L-P24090006RF03

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	52.72	53.94	74	-21.28	34.2	11.17	46.59	100	40	Peak
5150	48.39	49.61	54	-5.61	34.2	11.17	46.59	100	40	Average
5320	105.25	106.14	/	/	34.3	11.36	46.55	100	40	Peak
5320	97.4	98.29	/	/	34.3	11.36	46.55	100	40	Average
5350	53.44	54.29	74	-20.56	34.3	11.39	46.54	100	40	Peak
5350	48.1	48.95	54	-5.9	34.3	11.39	46.54	100	40	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	52.51	53.93	74	-21.49	34	11.17	46.59	100	200	Peak
5150	47.88	49.3	54	-6.12	34	11.17	46.59	100	200	Average
5320	104.5	105.01	/	/	34.68	11.36	46.55	100	200	Peak
5320	96.55	97.06	/	/	34.68	11.36	46.55	100	200	Average
5350	54.29	54.64	74	-19.71	34.8	11.39	46.54	100	200	Peak
5350	48.22	48.57	54	-5.78	34.8	11.39	46.54	100	200	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5320MHz: Fundamental frequency.



**BUREAU
VERITAS**

Test Report No.: W7L-P24090006RF03

802.11ax (20MHz) (RU52):

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	52.98	54.2	74	-21.02	34.2	11.17	46.59	100	280	Peak
5150	48.48	49.7	54	-5.52	34.2	11.17	46.59	100	280	Average
5260	105.79	106.61	/	/	34.46	11.29	46.57	100	280	Peak
5260	97.14	97.96	/	/	34.46	11.29	46.57	100	280	Average
5350	53.34	54.19	74	-20.66	34.3	11.39	46.54	100	280	Peak
5350	47.74	48.59	54	-6.26	34.3	11.39	46.54	100	280	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	53.17	54.59	74	-20.83	34	11.17	46.59	100	195	Peak
5150	48.48	49.9	54	-5.52	34	11.17	46.59	100	195	Average
5260	105.61	106.77	/	/	34.12	11.29	46.57	100	195	Peak
5260	97.29	98.45	/	/	34.12	11.29	46.57	100	195	Average
5350	53.81	54.16	74	-20.19	34.8	11.39	46.54	100	195	Peak
5350	50.14	50.49	54	-3.86	34.8	11.39	46.54	100	195	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5260MHz: Fundamental frequency.

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	54.35	55.57	74	-19.65	34.2	11.17	46.59	100	265	Peak
5150	47.64	48.86	54	-6.36	34.2	11.17	46.59	100	265	Average
5300	107.51	108.43	/	/	34.3	11.34	46.56	100	265	Peak
5300	98.39	99.31	/	/	34.3	11.34	46.56	100	265	Average
5350	52.79	53.64	74	-21.21	34.3	11.39	46.54	100	265	Peak
5350	48.47	49.32	54	-5.53	34.3	11.39	46.54	100	265	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	54.72	56.14	74	-19.28	34	11.17	46.59	100	195	Peak
5150	48.9	50.32	54	-5.1	34	11.17	46.59	100	195	Average
5300	107.32	107.94	/	/	34.6	11.34	46.56	100	195	Peak
5300	98.19	98.81	/	/	34.6	11.34	46.56	100	195	Average
5350	53.12	53.47	74	-20.88	34.8	11.39	46.54	100	195	Peak
5350	48.13	48.48	54	-5.87	34.8	11.39	46.54	100	195	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5300MHz: Fundamental frequency.

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	52.43	53.65	74	-21.57	34.2	11.17	46.59	100	280	Peak
5150	48.12	49.34	54	-5.88	34.2	11.17	46.59	100	280	Average
5320	105.32	106.21	/	/	34.3	11.36	46.55	100	280	Peak
5320	98.08	98.97	/	/	34.3	11.36	46.55	100	280	Average
5350	55.85	56.7	74	-18.15	34.3	11.39	46.54	100	280	Peak
5350	48.2	49.05	54	-5.8	34.3	11.39	46.54	100	280	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	54.99	56.41	74	-19.01	34	11.17	46.59	100	195	Peak
5150	48.27	49.69	54	-5.73	34	11.17	46.59	100	195	Average
5320	105.98	106.49	/	/	34.68	11.36	46.55	100	195	Peak
5320	97.02	97.53	/	/	34.68	11.36	46.55	100	195	Average
5350	55.3	55.65	74	-18.7	34.8	11.39	46.54	100	195	Peak
5350	48.82	49.17	54	-5.18	34.8	11.39	46.54	100	195	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5320MHz: Fundamental frequency.



Test Report No.: W7L-P24090006RF03

802.11ax (20MHz) (RU106):

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	54.41	55.63	74	-19.59	34.2	11.17	46.59	100	280	Peak
5150	47.91	49.13	54	-6.09	34.2	11.17	46.59	100	280	Average
5260	105.53	106.35	/	/	34.46	11.29	46.57	100	280	Peak
5260	96.05	96.87	/	/	34.46	11.29	46.57	100	280	Average
5350	54.13	54.98	74	-19.87	34.3	11.39	46.54	100	280	Peak
5350	48.97	49.82	54	-5.03	34.3	11.39	46.54	100	280	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	53.77	55.19	74	-20.23	34	11.17	46.59	100	195	Peak
5150	48.07	49.49	54	-5.93	34	11.17	46.59	100	195	Average
5260	106.74	107.9	/	/	34.12	11.29	46.57	100	195	Peak
5260	95.91	97.07	/	/	34.12	11.29	46.57	100	195	Average
5350	53.49	53.84	74	-20.51	34.8	11.39	46.54	100	195	Peak
5350	48.5	48.85	54	-5.5	34.8	11.39	46.54	100	195	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5260MHz: Fundamental frequency.

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	53.62	54.84	74	-20.38	34.2	11.17	46.59	100	280	Peak
5150	48.64	49.86	54	-5.36	34.2	11.17	46.59	100	280	Average
5300	106.56	107.48	/	/	34.3	11.34	46.56	100	280	Peak
5300	97.45	98.37	/	/	34.3	11.34	46.56	100	280	Average
5350	53.39	54.24	74	-20.61	34.3	11.39	46.54	100	280	Peak
5350	48.52	49.37	54	-5.48	34.3	11.39	46.54	100	280	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	52.33	53.75	74	-21.67	34	11.17	46.59	100	195	Peak
5150	48.25	49.67	54	-5.75	34	11.17	46.59	100	195	Average
5300	107.13	107.75	/	/	34.6	11.34	46.56	100	195	Peak
5300	97.54	98.16	/	/	34.6	11.34	46.56	100	195	Average
5350	52.82	53.17	74	-21.18	34.8	11.39	46.54	100	195	Peak
5350	48.38	48.73	54	-5.62	34.8	11.39	46.54	100	195	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5300MHz: Fundamental frequency.



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Test Report No.: W7L-P24090006RF03

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	52.72	53.94	74	-21.28	34.2	11.17	46.59	100	280	Peak
5150	48.65	49.87	54	-5.35	34.2	11.17	46.59	100	280	Average
5320	107.32	108.21	/	/	34.3	11.36	46.55	100	280	Peak
5320	97.97	98.86	/	/	34.3	11.36	46.55	100	280	Average
5350	53.47	54.32	74	-20.53	34.3	11.39	46.54	100	280	Peak
5350	47.87	48.72	54	-6.13	34.3	11.39	46.54	100	280	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	53.77	55.19	74	-20.23	34	11.17	46.59	100	195	Peak
5150	48.06	49.48	54	-5.94	34	11.17	46.59	100	195	Average
5320	107.39	107.9	/	/	34.68	11.36	46.55	100	195	Peak
5320	97.63	98.14	/	/	34.68	11.36	46.55	100	195	Average
5350	54.18	54.53	74	-19.82	34.8	11.39	46.54	100	195	Peak
5350	48.59	48.94	54	-5.41	34.8	11.39	46.54	100	195	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5320MHz: Fundamental frequency.



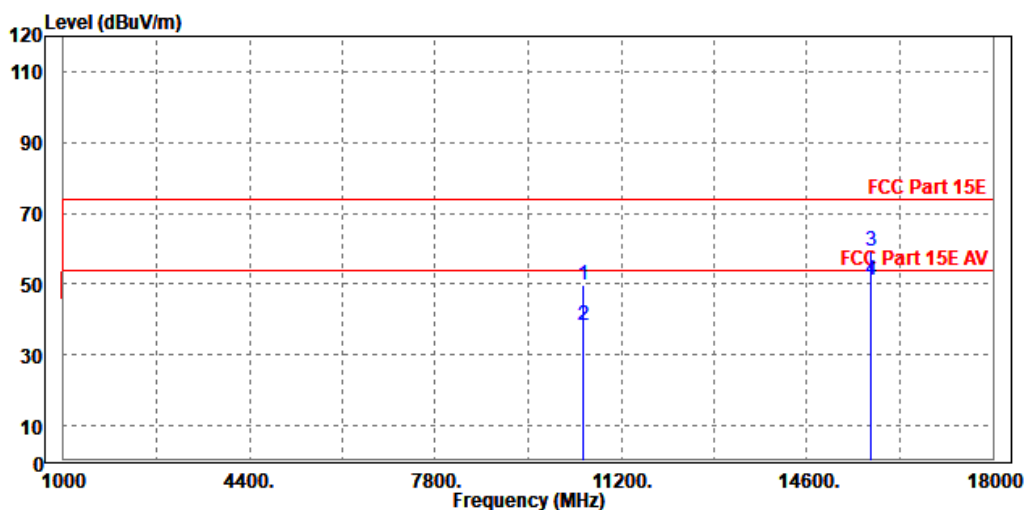
802.11ax (80MHz) (RU52):

Worst case harmonic:

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

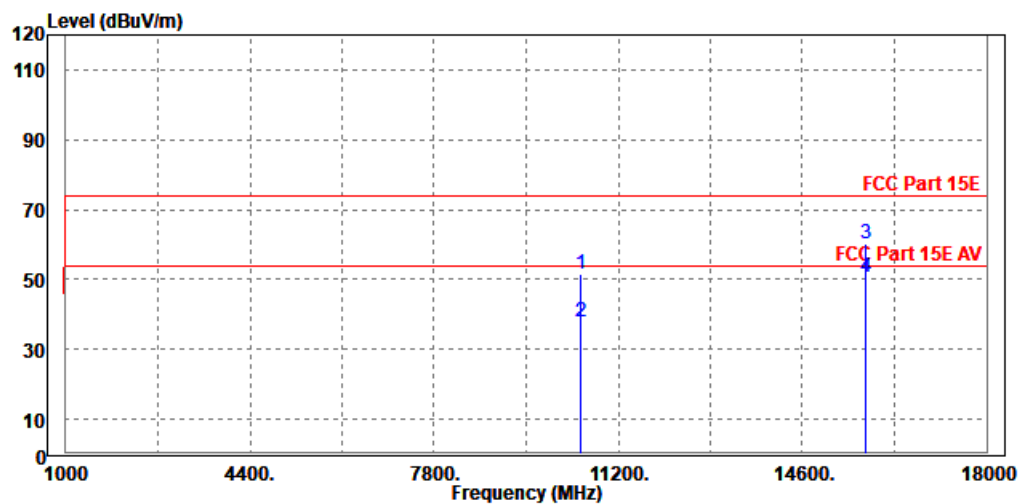
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m		
1	10520.000	49.88	42.62	74.00	-24.12	7.26	Peak	Horizontal
2	10520.000	38.32	31.06	54.00	-15.68	7.26	Average	Horizontal
3	PK15773.000	59.16	39.58	74.00	-14.84	19.58	Peak	Horizontal
4	PP15773.000	50.89	31.31	54.00	-3.11	19.58	Average	Horizontal





ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m		
1	10520.000	51.39	44.29	74.00	-22.61	7.10	Peak	Vertical
2	10520.000	37.94	30.84	54.00	-16.06	7.10	Average	Vertical
3	PK15780.000	60.19	40.65	74.00	-13.81	19.54	Peak	Vertical
4	PP15780.000	50.59	31.05	54.00	-3.41	19.54	Average	Vertical



REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5290MHz: Fundamental frequency.
3. For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.



Test Report No.: W7L-P24090006RF03

Band 3

802.11a_ANT W0(SISO Mode)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	53.38	53.79	74	-20.62	34.58	11.52	46.51	100	55	Peak
5460	49.02	49.43	54	-4.98	34.58	11.52	46.51	100	55	Average
5470	54.82	55.24	68.2	-13.38	34.56	11.53	46.51	100	55	Peak
5500	102.82	103.27	/	/	34.5	11.56	46.51	100	55	Peak
5500	95.93	96.38	/	/	34.5	11.56	46.51	100	55	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	52.8	53.51	74	-21.2	34.28	11.52	46.51	100	55	Peak
5460	47.85	48.56	54	-6.15	34.28	11.52	46.51	100	55	Average
5470	55.11	55.83	68.2	-13.09	34.26	11.53	46.51	100	55	Peak
5500	104.55	105.3	/	/	34.2	11.56	46.51	100	55	Peak
5500	97.84	98.59	/	/	34.2	11.56	46.51	100	55	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5500MHz: Fundamental frequency.
3. #: Out of restricted band.



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VERITAS**

Test Report No.: W7L-P24090006RF03

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	52.94	53.35	74	-21.06	34.58	11.52	46.51	100	45	Peak
5460	48.62	49.03	54	-5.38	34.58	11.52	46.51	100	45	Average
5470	54.65	55.07	68.2	-13.55	34.56	11.53	46.51	100	45	Peak
5580	103.56	104.16	/	/	34.3	11.59	46.49	100	45	Peak
5580	96.23	96.83	/	/	34.3	11.59	46.49	100	45	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	53.98	54.69	74	-20.02	34.28	11.52	46.51	100	195	Peak
5460	47.91	48.62	54	-6.09	34.28	11.52	46.51	100	195	Average
5470	53.46	54.18	68.2	-14.74	34.26	11.53	46.51	100	195	Peak
5580	104.47	104.43	/	/	34.94	11.59	46.49	100	195	Peak
5580	97.09	97.05	/	/	34.94	11.59	46.49	100	195	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5580MHz: Fundamental frequency.
- #: Out of restricted band.



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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5700	103.27	103.49	/	/	34.6	11.64	46.46	100	45	Peak
5700	96.44	96.66	/	/	34.6	11.64	46.46	100	45	Average
5725	55.74	55.99	68.2	-12.46	34.55	11.65	46.45	100	45	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5700	103.35	103.87	/	/	34.3	11.64	46.46	100	195	Peak
5700	95.86	96.38	/	/	34.3	11.64	46.46	100	195	Average
5725	55.17	55.62	68.2	-13.03	34.35	11.65	46.45	100	195	Peak

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5700MHz: Fundamental frequency.
3. #: Out of restricted band.



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Test Report No.: W7L-P24090006RF03

CHANNEL	TX Channel 144	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5470	53.37	53.79	68.2	-14.83	34.56	11.53	46.51	100	45	Peak
5720	103.81	104.06	/	/	34.56	11.64	46.45	100	45	Peak
5720	96.98	97.23	/	/	34.56	11.64	46.45	100	45	Average
5850	55.93	55.76	68.2	-12.27	34.9	11.69	46.42	100	45	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5470	54.09	54.81	68.2	-14.11	34.26	11.53	46.51	100	195	Peak
5720	103.73	104.2	/	/	34.34	11.64	46.45	100	195	Peak
5720	96.23	96.7	/	/	34.34	11.64	46.45	100	195	Average
5850	55.82	55.25	68.2	-12.38	35.3	11.69	46.42	100	195	Peak

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5720MHz: Fundamental frequency.
3. #: Out of restricted band.



802.11a_ANT W1(SISO Mode)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	54.33	54.74	74	-19.67	34.58	11.52	46.51	100	270	Peak
5460	48.79	49.2	54	-5.21	34.58	11.52	46.51	100	270	Average
5470	54.74	55.16	68.2	-13.46	34.56	11.53	46.51	100	270	Peak
5500	103.46	103.91	/	/	34.5	11.56	46.51	100	270	Peak
5500	97.47	97.92	/	/	34.5	11.56	46.51	100	270	Average

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	53.85	54.56	74	-20.15	34.28	11.52	46.51	100	215	Peak
5460	48.29	49	54	-5.71	34.28	11.52	46.51	100	215	Average
5470	54.08	54.8	68.2	-14.12	34.26	11.53	46.51	100	215	Peak
5500	96	96.75	/	/	34.2	11.56	46.51	100	215	Peak
5500	88.97	89.72	/	/	34.2	11.56	46.51	100	215	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5500MHz: Fundamental frequency.
3. #: Out of restricted band.



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Test Report No.: W7L-P24090006RF03

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	54.11	54.52	74	-19.89	34.58	11.52	46.51	100	275	Peak
5460	49.84	50.25	54	-4.16	34.58	11.52	46.51	100	275	Average
5470	54.84	55.26	68.2	-13.36	34.56	11.53	46.51	100	275	Peak
5580	103.36	103.96	/	/	34.3	11.59	46.49	100	275	Peak
5580	96.05	96.65	/	/	34.3	11.59	46.49	100	275	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	55.68	56.39	74	-18.32	34.28	11.52	46.51	100	215	Peak
5460	48.11	48.82	54	-5.89	34.28	11.52	46.51	100	215	Average
5470	55.34	56.06	68.2	-12.86	34.26	11.53	46.51	100	215	Peak
5580	96.19	96.15	/	/	34.94	11.59	46.49	100	215	Peak
5580	89.74	89.7	/	/	34.94	11.59	46.49	100	215	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5580MHz: Fundamental frequency.
3. #: Out of restricted band.



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VERITAS**

Test Report No.: W7L-P24090006RF03

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5700	101.29	101.51	/	/	34.6	11.64	46.46	100	270	Peak
5700	94.81	95.03	/	/	34.6	11.64	46.46	100	270	Average
5725	52.72	52.97	68.2	-15.48	34.55	11.65	46.45	100	270	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5700	94.83	95.35	/	/	34.3	11.64	46.46	100	80	Peak
5700	88.35	88.87	/	/	34.3	11.64	46.46	100	80	Average
5725	54.66	55.11	68.2	-13.54	34.35	11.65	46.45	100	80	Peak

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5700MHz: Fundamental frequency.
3. #: Out of restricted band.



**BUREAU
VERITAS**

Test Report No.: W7L-P24090006RF03

CHANNEL	TX Channel 144	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5470	52.76	53.18	68.2	-15.44	34.56	11.53	46.51	100	270	Peak
5720	100.62	100.87	/	/	34.56	11.64	46.45	100	270	Peak
5720	94.16	94.41	/	/	34.56	11.64	46.45	100	270	Average
5850	54.72	54.55	68.2	-13.48	34.9	11.69	46.42	100	270	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5470	53.92	54.64	68.2	-14.28	34.26	11.53	46.51	100	220	Peak
5720	95.09	95.56	/	/	34.34	11.64	46.45	100	220	Peak
5720	88.45	88.92	/	/	34.34	11.64	46.45	100	220	Average
5850	58.65	58.08	68.2	-9.55	35.3	11.69	46.42	100	220	Peak

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5720MHz: Fundamental frequency.
3. #: Out of restricted band.



802.11n (20MHz) (MIMO Mode)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	55.41	55.82	74	-18.59	34.58	11.52	46.51	100	45	Peak
5460	48.98	49.39	54	-5.02	34.58	11.52	46.51	100	45	Average
5470	53.64	54.06	68.2	-14.56	34.56	11.53	46.51	100	45	Peak
5500	102.82	103.27	/	/	34.5	11.56	46.51	100	45	Peak
5500	95.8	96.25	/	/	34.5	11.56	46.51	100	45	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	54.49	55.2	74	-19.51	34.28	11.52	46.51	100	320	Peak
5460	49.44	50.15	54	-4.56	34.28	11.52	46.51	100	320	Average
5470	53.89	54.61	68.2	-14.31	34.26	11.53	46.51	100	320	Peak
5500	100.47	101.22	/	/	34.2	11.56	46.51	100	320	Peak
5500	93.65	94.4	/	/	34.2	11.56	46.51	100	320	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5500MHz: Fundamental frequency.
- #: Out of restricted band.



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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	54.72	55.13	74	-19.28	34.58	11.52	46.51	100	280	Peak
5460	48.77	49.18	54	-5.23	34.58	11.52	46.51	100	280	Average
5470	54.4	54.82	68.2	-13.8	34.56	11.53	46.51	100	280	Peak
5580	101.12	101.72	/	/	34.3	11.59	46.49	100	280	Peak
5580	93.57	94.17	/	/	34.3	11.59	46.49	100	280	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	52.21	52.92	74	-21.79	34.28	11.52	46.51	100	320	Peak
5460	48.89	49.6	54	-5.11	34.28	11.52	46.51	100	320	Average
5470	54.26	54.98	68.2	-13.94	34.26	11.53	46.51	100	320	Peak
5580	101.94	101.9	/	/	34.94	11.59	46.49	100	320	Peak
5580	94.63	94.59	/	/	34.94	11.59	46.49	100	320	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5580MHz: Fundamental frequency.
- #: Out of restricted band.



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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5700	100.06	100.28	/	/	34.6	11.64	46.46	100	45	Peak
5700	93.52	93.74	/	/	34.6	11.64	46.46	100	45	Average
5725	53.4	53.65	68.2	-14.8	34.55	11.65	46.45	100	45	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5700	99.59	100.11	/	/	34.3	11.64	46.46	100	195	Peak
5700	92.82	93.34	/	/	34.3	11.64	46.46	100	195	Average
5725	53.72	54.17	68.2	-14.48	34.35	11.65	46.45	100	195	Peak

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5700MHz: Fundamental frequency.
- #: Out of restricted band.



CHANNEL	TX Channel 144	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5470	55.44	55.86	68.2	-12.76	34.56	11.53	46.51	100	45	Peak
5720	101.02	101.27	/	/	34.56	11.64	46.45	100	45	Peak
5720	93.61	93.86	/	/	34.56	11.64	46.45	100	45	Average
5850	53.73	53.56	68.2	-14.47	34.9	11.69	46.42	100	45	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5470	54.71	55.43	68.2	-13.49	34.26	11.53	46.51	100	195	Peak
5720	99.84	100.31	/	/	34.34	11.64	46.45	100	195	Peak
5720	93.46	93.93	/	/	34.34	11.64	46.45	100	195	Average
5850	56.24	55.67	68.2	-11.96	35.3	11.69	46.42	100	195	Peak

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5720MHz: Fundamental frequency.
3. #: Out of restricted band.

802.11n (40MHz)(MIMO Mode)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	53.67	54.08	74	-20.33	34.58	11.52	46.51	100	280	Peak
5460	48.94	49.35	54	-5.06	34.58	11.52	46.51	100	280	Average
5470	52.12	52.54	68.2	-16.08	34.56	11.53	46.51	100	280	Peak
5510	96.64	97.12	/	/	34.46	11.56	46.5	100	280	Peak
5510	92.55	93.03	/	/	34.46	11.56	46.5	100	280	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	52.65	53.36	74	-21.35	34.28	11.52	46.51	100	195	Peak
5460	48.49	49.2	54	-5.51	34.28	11.52	46.51	100	195	Average
5470	52.62	53.34	68.2	-15.58	34.26	11.53	46.51	100	195	Peak
5510	95.63	96.27	/	/	34.3	11.56	46.5	100	195	Peak
5510	91.57	92.21	/	/	34.3	11.56	46.5	100	195	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5510MHz: Fundamental frequency.
3. #: Out of restricted band.



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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	54.57	54.98	74	-19.43	34.58	11.52	46.51	100	45	Peak
5460	49.25	49.66	54	-4.75	34.58	11.52	46.51	100	45	Average
5470	54.07	54.49	68.2	-14.13	34.56	11.53	46.51	100	45	Peak
5550	97.06	97.67	/	/	34.3	11.58	46.49	100	45	Peak
5550	92.47	93.08	/	/	34.3	11.58	46.49	100	45	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	52.04	52.75	74	-21.96	34.28	11.52	46.51	100	195	Peak
5460	48.28	48.99	54	-5.72	34.28	11.52	46.51	100	195	Average
5470	54.2	54.92	68.2	-14	34.26	11.53	46.51	100	195	Peak
5550	97.28	97.49	/	/	34.7	11.58	46.49	100	195	Peak
5550	92.97	93.18	/	/	34.7	11.58	46.49	100	195	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5500MHz: Fundamental frequency.
- #: Out of restricted band.



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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5670	96.63	96.87	/	/	34.6	11.62	46.46	100	45	Peak
5670	92.82	93.06	/	/	34.6	11.62	46.46	100	45	Average
5725	54.49	54.74	68.2	-13.71	34.55	11.65	46.45	100	45	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5670	96.84	97.26	/	/	34.42	11.62	46.46	100	195	Peak
5670	92.88	93.3	/	/	34.42	11.62	46.46	100	195	Average
5725	52.68	53.13	68.2	-15.52	34.35	11.65	46.45	100	195	Peak

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5670MHz: Fundamental frequency.
- #: Out of restricted band.



CHANNEL	TX Channel 142	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5470	54.01	54.43	68.2	-14.19	34.56	11.53	46.51	100	45	Peak
5710	95.42	95.65	/	/	34.58	11.64	46.45	100	45	Peak
5710	91.68	91.91	/	/	34.58	11.64	46.45	100	45	Average
5850	54	53.83	68.2	-14.2	34.9	11.69	46.42	100	45	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5470	55.03	55.75	68.2	-13.17	34.26	11.53	46.51	100	195	Peak
5710	96.54	97.03	/	/	34.32	11.64	46.45	100	195	Peak
5710	92.01	92.5	/	/	34.32	11.64	46.45	100	195	Average
5850	53.69	53.12	68.2	-14.51	35.3	11.69	46.42	100	195	Peak

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5710MHz: Fundamental frequency.
3. #: Out of restricted band.



802.11ac (80MHz) (MIMO Mode)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	52.82	53.23	74	-21.18	34.58	11.52	46.51	100	45	Peak
5460	49.38	49.79	54	-4.62	34.58	11.52	46.51	100	45	Average
5470	53.23	53.65	68.2	-14.97	34.56	11.53	46.51	100	45	Peak
5530	94.18	94.73	/	/	34.38	11.57	46.5	100	45	Peak
5530	90.4	90.95	/	/	34.38	11.57	46.5	100	45	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	51.8	52.51	74	-22.2	34.28	11.52	46.51	100	195	Peak
5460	48.53	49.24	54	-5.47	34.28	11.52	46.51	100	195	Average
5470	51.9	52.62	68.2	-16.3	34.26	11.53	46.51	100	195	Peak
5530	93.39	93.82	/	/	34.5	11.57	46.5	100	195	Peak
5530	90.63	91.06	/	/	34.5	11.57	46.5	100	195	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5530MHz: Fundamental frequency.
3. #: Out of restricted band.



CHANNEL	TX Channel 122	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	52.5	52.91	74	-21.5	34.58	11.52	46.51	100	45	Peak
5460	49.05	49.46	54	-4.95	34.58	11.52	46.51	100	45	Average
5470	53.77	54.19	68.2	-14.43	34.56	11.53	46.51	100	45	Peak
5610	91.59	92.11	/	/	34.36	11.6	46.48	100	45	Peak
5610	88.72	89.24	/	/	34.36	11.6	46.48	100	45	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	53.52	54.23	74	-20.48	34.28	11.52	46.51	100	195	Peak
5460	48.34	49.05	54	-5.66	34.28	11.52	46.51	100	195	Average
5470	54.51	55.23	68.2	-13.69	34.26	11.53	46.51	100	195	Peak
5610	92.97	92.87	/	/	34.98	11.6	46.48	100	195	Peak
5610	89.77	89.67	/	/	34.98	11.6	46.48	100	195	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5610MHz: Fundamental frequency.
3. #: Out of restricted band.



CHANNEL	TX Channel 138	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5470	53.68	54.1	68.2	-14.52	34.56	11.53	46.51	100	45	Peak
5690	90.95	91.18	/	/	34.6	11.63	46.46	100	45	Peak
5690	87.94	88.17	/	/	34.6	11.63	46.46	100	45	Average
5850	54.67	54.5	68.2	-13.53	34.9	11.69	46.42	100	45	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5470	52.99	53.71	68.2	-15.21	34.26	11.53	46.51	100	195	Peak
5690	91.31	91.8	/	/	34.34	11.63	46.46	100	195	Peak
5690	88.2	88.69	/	/	34.34	11.63	46.46	100	195	Average
5850	56.1	55.53	68.2	-12.1	35.3	11.69	46.42	100	195	Peak

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5690MHz: Fundamental frequency.
3. #: Out of restricted band.



802.11ax (20MHz) (MIMO Mode)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	54.29	54.7	74	-19.71	34.58	11.52	46.51	100	45	Peak
5460	48.12	48.53	54	-5.88	34.58	11.52	46.51	100	45	Average
5470	56.6	57.02	68.2	-11.6	34.56	11.53	46.51	100	45	Peak
5500	105.31	105.76	/	/	34.5	11.56	46.51	100	45	Peak
5500	95.73	96.18	/	/	34.5	11.56	46.51	100	45	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	53.98	54.69	74	-20.02	34.28	11.52	46.51	100	40	Peak
5460	48.47	49.18	54	-5.53	34.28	11.52	46.51	100	40	Average
5470	55.15	55.87	68.2	-13.05	34.26	11.53	46.51	100	40	Peak
5500	103.49	104.24	/	/	34.2	11.56	46.51	100	40	Peak
5500	93.23	93.98	/	/	34.2	11.56	46.51	100	40	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5500MHz: Fundamental frequency.
- #: Out of restricted band.



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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	52.58	52.99	74	-21.42	34.58	11.52	46.51	100	35	Peak
5460	48.04	48.45	54	-5.96	34.58	11.52	46.51	100	35	Average
5470	53.66	54.08	68.2	-14.54	34.56	11.53	46.51	100	35	Peak
5580	102.67	103.27	/	/	34.3	11.59	46.49	100	35	Peak
5580	94.25	94.85	/	/	34.3	11.59	46.49	100	35	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	54.87	55.58	74	-19.13	34.28	11.52	46.51	100	195	Peak
5460	48.25	48.96	54	-5.75	34.28	11.52	46.51	100	195	Average
5470	55.17	55.89	68.2	-13.03	34.26	11.53	46.51	100	195	Peak
5580	103.19	103.15	/	/	34.94	11.59	46.49	100	195	Peak
5580	94.67	94.63	/	/	34.94	11.59	46.49	100	195	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5580MHz: Fundamental frequency.
- #: Out of restricted band.



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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5700	102.27	102.49	/	/	34.6	11.64	46.46	100	35	Peak
5700	93.4	93.62	/	/	34.6	11.64	46.46	100	35	Average
5725	52.94	53.19	68.2	-15.26	34.55	11.65	46.45	100	35	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5700	102.78	103.3	/	/	34.3	11.64	46.46	100	190	Peak
5700	93.42	93.94	/	/	34.3	11.64	46.46	100	190	Average
5725	53.68	54.13	68.2	-14.52	34.35	11.65	46.45	100	190	Peak

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5700MHz: Fundamental frequency.
3. #: Out of restricted band.



CHANNEL	TX Channel 144	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5470	52.86	53.28	68.2	-15.34	34.56	11.53	46.51	100	35	Peak
5720	102.13	102.38	/	/	34.56	11.64	46.45	100	35	Peak
5720	92.87	93.12	/	/	34.56	11.64	46.45	100	35	Average
5850	54.28	54.11	68.2	-13.92	34.9	11.69	46.42	100	35	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5470	54.97	55.69	68.2	-13.23	34.26	11.53	46.51	100	195	Peak
5720	102.19	102.66	/	/	34.34	11.64	46.45	100	195	Peak
5720	93.24	93.71	/	/	34.34	11.64	46.45	100	195	Average
5850	55.53	54.96	68.2	-12.67	35.3	11.69	46.42	100	195	Peak

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5720MHz: Fundamental frequency.
3. #: Out of restricted band.

802.11ax (40MHz) (MIMO Mode)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	53.19	53.6	74	-20.81	34.58	11.52	46.51	100	280	Peak
5460	48.28	48.69	54	-5.72	34.58	11.52	46.51	100	280	Average
5470	53.3	53.72	68.2	-14.9	34.56	11.53	46.51	100	280	Peak
5510	98.59	99.07	/	/	34.46	11.56	46.5	100	280	Peak
5510	91.25	91.73	/	/	34.46	11.56	46.5	100	280	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	54.26	54.97	74	-19.74	34.28	11.52	46.51	100	195	Peak
5460	48.01	48.72	54	-5.99	34.28	11.52	46.51	100	195	Average
5470	50.62	51.34	68.2	-17.58	34.26	11.53	46.51	100	195	Peak
5510	96.47	97.11	/	/	34.3	11.56	46.5	100	195	Peak
5510	90.83	91.47	/	/	34.3	11.56	46.5	100	195	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5510MHz: Fundamental frequency.
3. #: Out of restricted band.

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	52.97	53.38	74	-21.03	34.58	11.52	46.51	100	35	Peak
5460	49.22	49.63	54	-4.78	34.58	11.52	46.51	100	35	Average
5470	53.16	53.58	68.2	-15.04	34.56	11.53	46.51	100	35	Peak
5550	97.56	98.17	/	/	34.3	11.58	46.49	100	35	Peak
5550	90.63	91.24	/	/	34.3	11.58	46.49	100	35	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	52.3	53.01	74	-21.7	34.28	11.52	46.51	100	195	Peak
5460	48.22	48.93	54	-5.78	34.28	11.52	46.51	100	195	Average
5470	51.82	52.54	68.2	-16.38	34.26	11.53	46.51	100	195	Peak
5550	97.52	97.73	/	/	34.7	11.58	46.49	100	195	Peak
5550	91.4	91.61	/	/	34.7	11.58	46.49	100	195	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5500MHz: Fundamental frequency.
- #: Out of restricted band.



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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5670	95.99	96.23	/	/	34.6	11.62	46.46	100	280	Peak
5670	89.3	89.54	/	/	34.6	11.62	46.46	100	280	Average
5725	52.75	53	68.2	-15.45	34.55	11.65	46.45	100	280	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5670	97.43	97.85	/	/	34.42	11.62	46.46	100	195	Peak
5670	91.52	91.94	/	/	34.42	11.62	46.46	100	195	Average
5725	52.36	52.81	68.2	-15.84	34.35	11.65	46.45	100	195	Peak

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5670MHz: Fundamental frequency.
- #: Out of restricted band.



CHANNEL	TX Channel 142	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5470	55.08	55.5	68.2	-13.12	34.56	11.53	46.51	100	35	Peak
5710	97.13	97.36	/	/	34.58	11.64	46.45	100	35	Peak
5710	90.55	90.78	/	/	34.58	11.64	46.45	100	35	Average
5850	51.69	51.52	68.2	-16.51	34.9	11.69	46.42	100	35	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5470	54.77	55.49	68.2	-13.43	34.26	11.53	46.51	100	195	Peak
5710	96.1	96.59	/	/	34.32	11.64	46.45	100	195	Peak
5710	90.74	91.23	/	/	34.32	11.64	46.45	100	195	Average
5850	55.18	54.61	68.2	-13.02	35.3	11.69	46.42	100	195	Peak

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5710MHz: Fundamental frequency.
3. #: Out of restricted band.



802.11ax (80MHz) (MIMO Mode)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	52.79	53.2	74	-21.21	34.58	11.52	46.51	100	275	Peak
5460	48.97	49.38	54	-5.03	34.58	11.52	46.51	100	275	Average
5470	52.77	53.19	68.2	-15.43	34.56	11.53	46.51	100	275	Peak
5530	94.21	94.76	/	/	34.38	11.57	46.5	100	275	Peak
5530	89.38	89.93	/	/	34.38	11.57	46.5	100	275	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	52.16	52.87	74	-21.84	34.28	11.52	46.51	100	195	Peak
5460	49	49.71	54	-5	34.28	11.52	46.51	100	195	Average
5470	52.34	53.06	68.2	-15.86	34.26	11.53	46.51	100	195	Peak
5530	95.17	95.6	/	/	34.5	11.57	46.5	100	195	Peak
5530	88.98	89.41	/	/	34.5	11.57	46.5	100	195	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5530MHz: Fundamental frequency.
3. #: Out of restricted band.



CHANNEL	TX Channel 122	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	54.14	54.55	74	-19.86	34.58	11.52	46.51	100	280	Peak
5460	48.99	49.4	54	-5.01	34.58	11.52	46.51	100	280	Average
5470	52.7	53.12	68.2	-15.5	34.56	11.53	46.51	100	280	Peak
5610	93.06	93.58	/	/	34.36	11.6	46.48	100	280	Peak
5610	87.89	88.41	/	/	34.36	11.6	46.48	100	280	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	52.69	53.4	74	-21.31	34.28	11.52	46.51	100	195	Peak
5460	49.01	49.72	54	-4.99	34.28	11.52	46.51	100	195	Average
5470	52.85	53.57	68.2	-15.35	34.26	11.53	46.51	100	195	Peak
5610	94.39	94.29	/	/	34.98	11.6	46.48	100	195	Peak
5610	89.57	89.47	/	/	34.98	11.6	46.48	100	195	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5610MHz: Fundamental frequency.
3. #: Out of restricted band.



CHANNEL	TX Channel 138	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5470	54.01	54.43	68.2	-14.19	34.56	11.53	46.51	100	35	Peak
5690	91.27	91.5	/	/	34.6	11.63	46.46	100	35	Peak
5690	87.03	87.26	/	/	34.6	11.63	46.46	100	35	Average
5850	53.05	52.88	68.2	-15.15	34.9	11.69	46.42	100	35	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5470	52.55	53.27	68.2	-15.65	34.26	11.53	46.51	100	195	Peak
5690	92.07	92.56	/	/	34.34	11.63	46.46	100	195	Peak
5690	87.58	88.07	/	/	34.34	11.63	46.46	100	195	Average
5850	53.62	53.05	68.2	-14.58	35.3	11.69	46.42	100	195	Peak

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5690MHz: Fundamental frequency.
3. #: Out of restricted band.



802.11ax (160MHz) (MIMO Mode)

CHANNEL	TX Channel 114	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	54.51	54.92	74	-19.49	34.58	11.52	46.51	100	280	Peak
5460	48.97	49.38	54	-5.03	34.58	11.52	46.51	100	280	Average
5470	54.02	54.44	68.2	-14.18	34.56	11.53	46.51	100	280	Peak
5570	91.15	91.75	/	/	34.3	11.59	46.49	100	280	Peak
5570	86.93	87.53	/	/	34.3	11.59	46.49	100	280	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	52.78	53.49	74	-21.22	34.28	11.52	46.51	100	195	Peak
5460	48.71	49.42	54	-5.29	34.28	11.52	46.51	100	195	Average
5470	53.16	53.88	68.2	-15.04	34.26	11.53	46.51	100	195	Peak
5570	92.17	92.21	/	/	34.86	11.59	46.49	100	195	Peak
5570	87.6	87.64	/	/	34.86	11.59	46.49	100	195	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5530MHz: Fundamental frequency.
3. #: Out of restricted band.



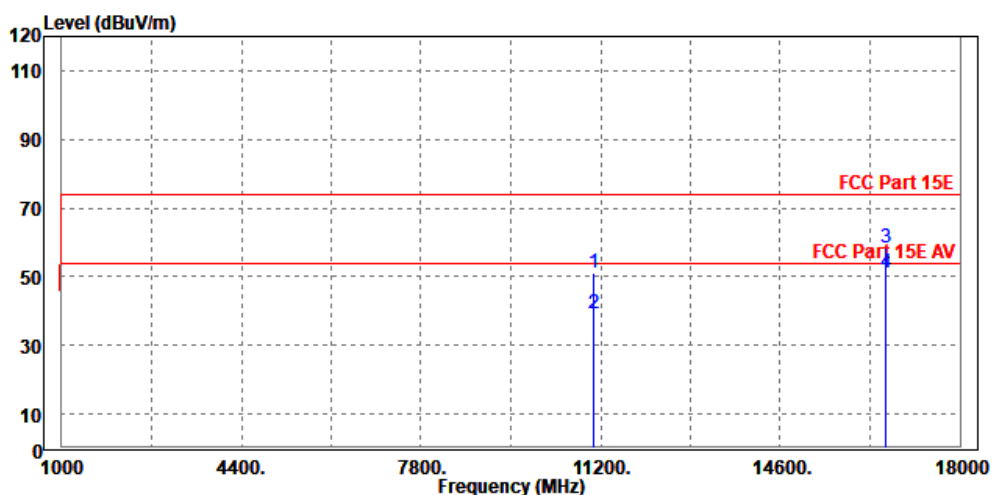
802.11ac (80MHz)

Worst case harmonic:

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

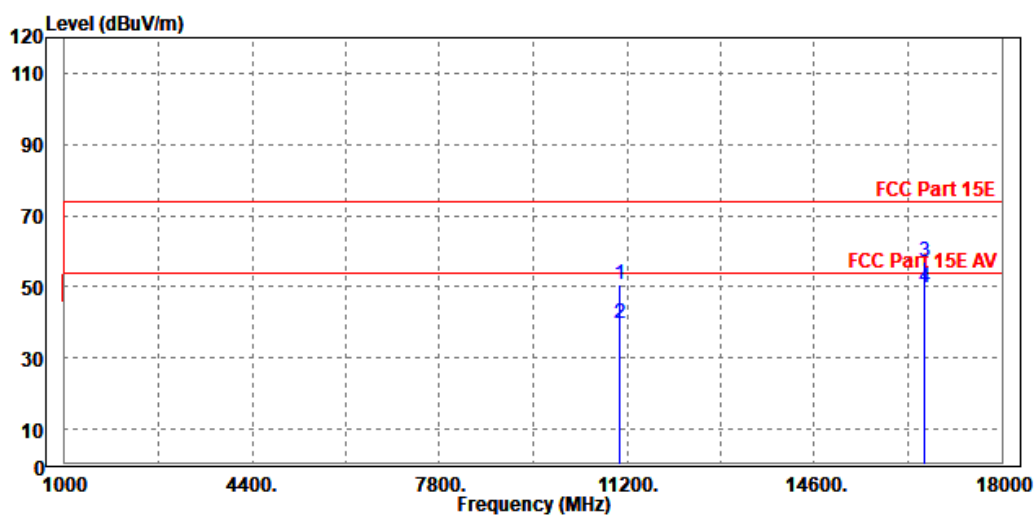
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m		
1	11060.000	50.94	43.96	74.00	-23.06	6.98	Peak	Horizontal
2	11060.000	39.29	32.31	54.00	-14.71	6.98	Average	Horizontal
3	PK16589.000	58.38	40.37	74.00	-15.62	18.01	Peak	Horizontal
4	PP16589.000	50.88	32.87	54.00	-3.12	18.01	Average	Horizontal



ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m		
1	11064.000	50.80	43.29	74.00	-23.20	7.51	Peak	Vertical
2	11064.000	39.53	32.02	54.00	-14.47	7.51	Average	Vertical
3	PK16590.000	57.25	39.44	74.00	-16.75	17.81	Peak	Vertical
4	PP16590.000	49.96	32.15	54.00	-4.04	17.81	Average	Vertical



REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5500MHz: Fundamental frequency.
3. For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.



5G WIFI-RU

802.11ax (20MHz) (RU26):

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	54.77	55.18	74	-19.23	34.58	11.52	46.51	100	40	Peak
5460	48.79	49.2	54	-5.21	34.58	11.52	46.51	100	40	Average
5470	54.62	55.04	68.2	-13.58	34.56	11.53	46.51	100	40	Peak
5500	104.89	105.34	/	/	34.5	11.56	46.51	100	40	Peak
5500	97.26	97.71	/	/	34.5	11.56	46.51	100	40	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	53.87	54.58	74	-20.13	34.28	11.52	46.51	100	195	Peak
5460	48.81	49.52	54	-5.19	34.28	11.52	46.51	100	195	Average
5470	52.88	53.6	68.2	-15.32	34.26	11.53	46.51	100	195	Peak
5500	102.46	103.21	/	/	34.2	11.56	46.51	100	195	Peak
5500	94.17	94.92	/	/	34.2	11.56	46.51	100	195	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5500MHz: Fundamental frequency.
3. #: Out of restricted band.



802.11ax (20MHz) (RU26):

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	54.01	54.42	74	-19.99	34.58	11.52	46.51	100	40	Peak
5460	48.71	49.12	54	-5.29	34.58	11.52	46.51	100	40	Average
5470	55.51	55.93	68.2	-12.69	34.56	11.53	46.51	100	40	Peak
5580	104.6	105.2	/	/	34.3	11.59	46.49	100	40	Peak
5580	97.33	97.93	/	/	34.3	11.59	46.49	100	40	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	53.76	54.47	74	-20.24	34.28	11.52	46.51	100	195	Peak
5460	47.84	48.55	54	-6.16	34.28	11.52	46.51	100	195	Average
5470	54.26	54.98	68.2	-13.94	34.26	11.53	46.51	100	195	Peak
5580	104.27	104.23	/	/	34.94	11.59	46.49	100	195	Peak
5580	96	95.96	/	/	34.94	11.59	46.49	100	195	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5580MHz: Fundamental frequency.
3. #: Out of restricted band.



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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5700	102.41	102.63	/	/	34.6	11.64	46.46	100	265	Peak
5700	94.32	94.54	/	/	34.6	11.64	46.46	100	265	Average
5725	55.33	55.58	68.2	-12.87	34.55	11.65	46.45	100	265	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5700	102.66	103.18	/	/	34.3	11.64	46.46	100	195	Peak
5700	95.11	95.63	/	/	34.3	11.64	46.46	100	195	Average
5725	52.87	53.32	68.2	-15.33	34.35	11.65	46.45	100	195	Peak

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5700MHz: Fundamental frequency.
3. #: Out of restricted band.



CHANNEL	TX Channel 144	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5470	54.03	54.45	68.2	-14.17	34.56	11.53	46.51	100	265	Peak
5720	102.64	102.89	/	/	34.56	11.64	46.45	100	265	Peak
5720	93.88	94.13	/	/	34.56	11.64	46.45	100	265	Average
5850	55.39	55.22	68.2	-12.81	34.9	11.69	46.42	100	265	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5470	55.74	56.46	68.2	-12.46	34.26	11.53	46.51	100	195	Peak
5720	102.33	102.8	/	/	34.34	11.64	46.45	100	195	Peak
5720	94.68	95.15	/	/	34.34	11.64	46.45	100	195	Average
5850	54.67	54.1	68.2	-13.53	35.3	11.69	46.42	100	195	Peak

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5720MHz: Fundamental frequency.
- #: Out of restricted band.



802.11ax (20MHz) (RU52):

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	56.52	56.93	74	-17.48	34.58	11.52	46.51	100	280	Peak
5460	48.78	49.19	54	-5.22	34.58	11.52	46.51	100	280	Average
5470	54.3	54.72	68.2	-13.9	34.56	11.53	46.51	100	280	Peak
5500	107.75	108.2	/	/	34.5	11.56	46.51	100	280	Peak
5500	99.53	99.98	/	/	34.5	11.56	46.51	100	280	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	51.78	52.49	74	-22.22	34.28	11.52	46.51	100	195	Peak
5460	48.49	49.2	54	-5.51	34.28	11.52	46.51	100	195	Average
5470	52.73	53.45	68.2	-15.47	34.26	11.53	46.51	100	195	Peak
5500	106.08	106.83	/	/	34.2	11.56	46.51	100	195	Peak
5500	98.28	99.03	/	/	34.2	11.56	46.51	100	195	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5500MHz: Fundamental frequency.
3. #: Out of restricted band.



802.11ax (20MHz) (RU52):

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	56.13	56.54	74	-17.87	34.58	11.52	46.51	100	280	Peak
5460	48.29	48.7	54	-5.71	34.58	11.52	46.51	100	280	Average
5470	55.51	55.93	68.2	-12.69	34.56	11.53	46.51	100	280	Peak
5580	105.74	106.34	/	/	34.3	11.59	46.49	100	280	Peak
5580	96.53	97.13	/	/	34.3	11.59	46.49	100	280	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	48.86	49.57	74	-25.14	34.28	11.52	46.51	100	195	Peak
5460	53.51	54.22	74	-20.49	34.28	11.52	46.51	100	195	Average
5470	53.94	54.66	68.2	-14.26	34.26	11.53	46.51	100	195	Peak
5580	107.07	107.03	/	/	34.94	11.59	46.49	100	195	Peak
5580	99.49	99.45	/	/	34.94	11.59	46.49	100	195	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5580MHz: Fundamental frequency.
- #: Out of restricted band.



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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5700	104.1	104.32	/	/	34.6	11.64	46.46	100	35	Peak
5700	93.86	94.08	/	/	34.6	11.64	46.46	100	35	Average
5725	54.69	54.94	68.2	-13.51	34.55	11.65	46.45	100	35	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5700	104.71	105.23	/	/	34.3	11.64	46.46	100	195	Peak
5700	96.16	96.68	/	/	34.3	11.64	46.46	100	195	Average
5725	54.41	54.86	68.2	-13.79	34.35	11.65	46.45	100	195	Peak

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5700MHz: Fundamental frequency.
3. #: Out of restricted band.



CHANNEL	TX Channel 144	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5470	55.16	55.58	68.2	-13.04	34.56	11.53	46.51	100	25	Peak
5720	105.13	105.38	/	/	34.56	11.64	46.45	100	25	Peak
5720	96.45	96.7	/	/	34.56	11.64	46.45	100	25	Average
5850	55.88	55.71	68.2	-12.32	34.9	11.69	46.42	100	25	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5470	53.75	54.47	68.2	-14.45	34.26	11.53	46.51	100	195	Peak
5720	108.66	109.13	/	/	34.34	11.64	46.45	100	195	Peak
5720	98.72	99.19	/	/	34.34	11.64	46.45	100	195	Average
5850	55.31	54.74	68.2	-12.89	35.3	11.69	46.42	100	195	Peak

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5720MHz: Fundamental frequency.
3. #: Out of restricted band.



802.11ax (20MHz) (RU106):

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	54.12	54.53	74	-19.88	34.58	11.52	46.51	100	280	Peak
5460	49.44	49.85	54	-4.56	34.58	11.52	46.51	100	280	Average
5470	54.56	54.98	68.2	-13.64	34.56	11.53	46.51	100	280	Peak
5500	106.96	107.41	/	/	34.5	11.56	46.51	100	280	Peak
5500	97.83	98.28	/	/	34.5	11.56	46.51	100	280	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	54.9	55.61	74	-19.1	34.28	11.52	46.51	100	195	Peak
5460	48.13	48.84	54	-5.87	34.28	11.52	46.51	100	195	Average
5470	54.29	55.01	68.2	-13.91	34.26	11.53	46.51	100	195	Peak
5500	107.73	108.48	/	/	34.2	11.56	46.51	100	195	Peak
5500	97.25	98	/	/	34.2	11.56	46.51	100	195	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5500MHz: Fundamental frequency.
3. #: Out of restricted band.



802.11ax (20MHz) (RU106):

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	52.39	52.8	74	-21.61	34.58	11.52	46.51	100	280	Peak
5460	48.69	49.1	54	-5.31	34.58	11.52	46.51	100	280	Average
5470	53.94	54.36	68.2	-14.26	34.56	11.53	46.51	100	280	Peak
5580	105.34	105.94	/	/	34.3	11.59	46.49	100	280	Peak
5580	96.96	97.56	/	/	34.3	11.59	46.49	100	280	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	52.98	53.69	74	-21.02	34.28	11.52	46.51	100	195	Peak
5460	48.29	49	54	-5.71	34.28	11.52	46.51	100	195	Average
5470	53.74	54.46	68.2	-14.46	34.26	11.53	46.51	100	195	Peak
5580	107.84	107.8	/	/	34.94	11.59	46.49	100	195	Peak
5580	98.54	98.5	/	/	34.94	11.59	46.49	100	195	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5580MHz: Fundamental frequency.
3. #: Out of restricted band.



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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5700	104.2	104.42	/	/	34.6	11.64	46.46	100	275	Peak
5700	94.15	94.37	/	/	34.6	11.64	46.46	100	275	Average
5725	54.8	55.05	68.2	-13.4	34.55	11.65	46.45	100	275	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5700	104.27	104.79	/	/	34.3	11.64	46.46	100	195	Peak
5700	96.26	96.78	/	/	34.3	11.64	46.46	100	195	Average
5725	53.27	53.72	68.2	-14.93	34.35	11.65	46.45	100	195	Peak

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5700MHz: Fundamental frequency.
3. #: Out of restricted band.



CHANNEL	TX Channel 144	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5470	53.47	53.89	68.2	-14.73	34.56	11.53	46.51	100	40	Peak
5720	103.7	103.95	/	/	34.56	11.64	46.45	100	40	Peak
5720	93.87	94.12	/	/	34.56	11.64	46.45	100	40	Average
5850	53.92	53.75	68.2	-14.28	34.9	11.69	46.42	100	40	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5470	53.94	54.66	68.2	-14.26	34.26	11.53	46.51	100	195	Peak
5720	104.91	105.38	/	/	34.34	11.64	46.45	100	195	Peak
5720	96.61	97.08	/	/	34.34	11.64	46.45	100	195	Average
5850	53.88	53.31	68.2	-14.32	35.3	11.69	46.42	100	195	Peak

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5720MHz: Fundamental frequency.
3. #: Out of restricted band.



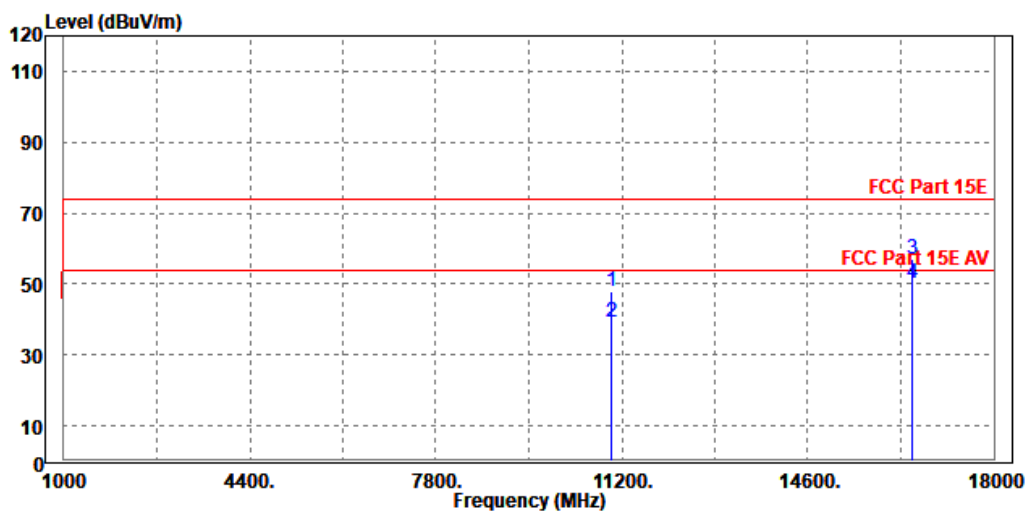
802.11ax (20MHz) (RU106):

Worst case harmonic:

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

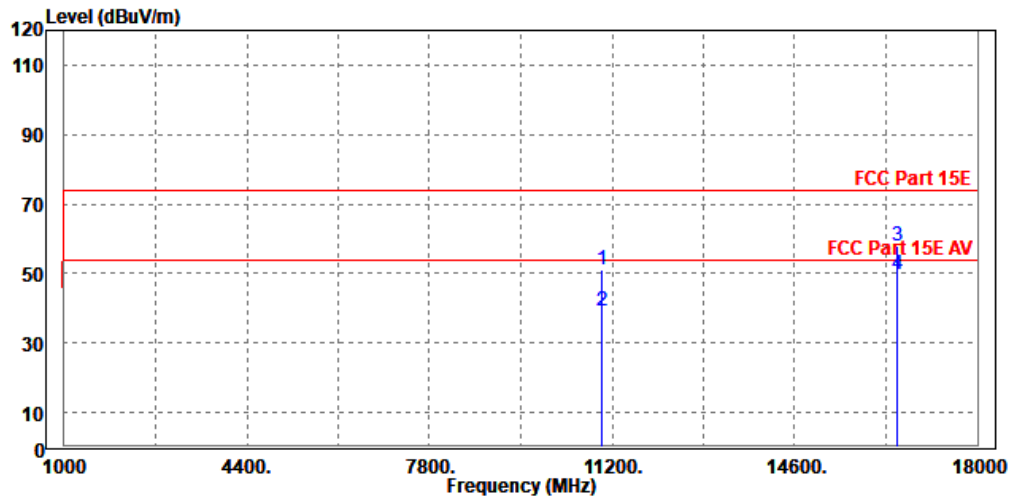
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m		
1	10996.000	47.79	40.92	74.00	-26.21	6.87	Peak	Horizontal
2	10996.000	39.04	32.17	54.00	-14.96	6.87	Average	Horizontal
3	PK16500.000	57.18	39.22	74.00	-16.82	17.96	Peak	Horizontal
4	PP16500.000	50.30	32.34	54.00	-3.70	17.96	Average	Horizontal





ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m		
1	10996.000	50.98	43.72	74.00	-23.02	7.26	Peak	Vertical
2	10996.000	39.18	31.92	54.00	-14.82	7.26	Average	Vertical
3	PK16500.000	57.83	40.07	74.00	-16.17	17.76	Peak	Vertical
4	PP16500.000	49.94	32.18	54.00	-4.06	17.76	Average	Vertical



REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5500MHz: Fundamental frequency.
3. For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.

3.2 CONDUCTED EMISSION MEASUREMENT

3.2.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dB μ V)	
	Quasi-peak	Average
0.15 ~ 0.5	66 to 56	56 to 46
0.5 ~ 5	56	46
5 ~ 30	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.
 3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

3.2.2 TEST INSTRUMENTS

Lab B:

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESR3	102749	Mar.28,24	Mar.27,26
ELEKTRA test software	Rohde&Schwarz	ELEKTRA	NA	N/A	N/A
LISN network	Rohde&Schwarz	ENV216	102640	Mar.28,24	Mar.27,26
CABLE	Rohde&Schwarz	W61.01	N/A	Apr.27,24	Apr.26,25

NOTE:

1. The test was performed in CE shielded room.
2. The calibration interval of the above test instruments is 12/24 months. And the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.

3.2.3 TEST PROCEDURES

- a. 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.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

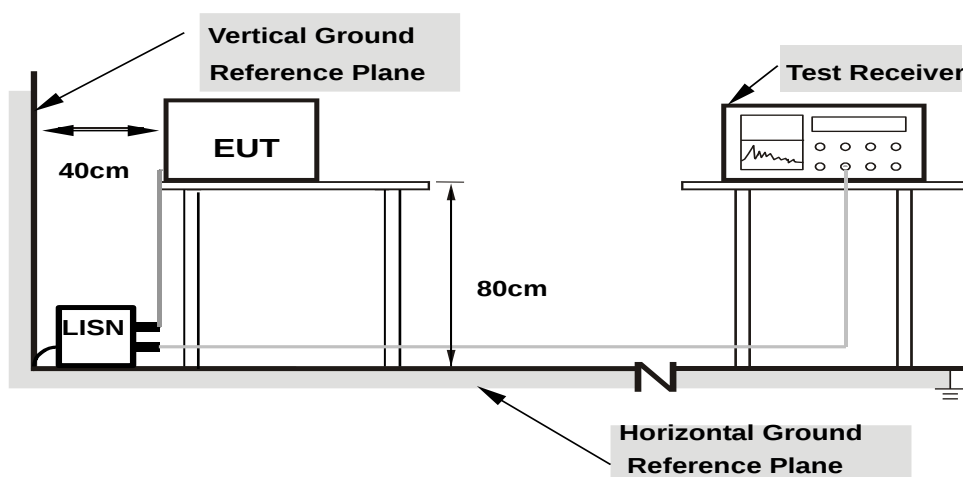
NOTE: All modes of operation were investigated and the worst-case emissions are reported.



3.2.4 DEVIATION FROM TEST STANDARD

No deviation.

3.2.5 TEST SETUP



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

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

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

3.2.6 EUT OPERATING CONDITIONS

Same as 3.1.7.

3.2.7 TEST RESULTS

CONDUCTED WORST-CASE DATA:

Frequency Range	150KHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120Vac, 60Hz	Environmental Conditions	26deg. C, 51%RH
Tested By	Hanwen Xu		

Rg	Frequency [MHz]	QPK Level [dBμV]	QPK Limit [dBμV]	QPK Margin [dB]	CAV Level [dBμV]	CAV: AVG Limit [dBμV]	CAV Margin [dB]	Correction [dB]	Line	Meas. BW [kHz]
1	0.173	56.31	64.84	8.53	34.50	54.84	20.34	12.31	L1	9.000
1	0.740	39.04	56.00	16.96	32.95	46.00	13.05	11.74	L1	9.000
1	2.126	24.40	56.00	31.60	18.96	46.00	27.04	11.76	L1	9.000
1	4.439	20.93	56.00	35.07	15.23	46.00	30.77	11.79	L1	9.000
1	8.705	14.98	60.00	45.02	9.11	50.00	40.89	11.82	L1	9.000
1	19.370	14.15	60.00	45.85	8.14	50.00	41.86	11.87	L1	9.000

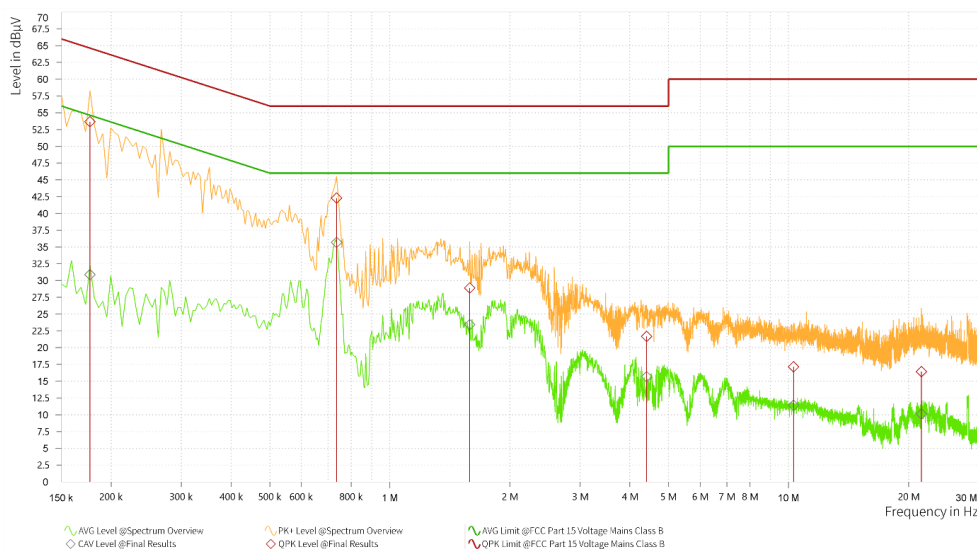
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Limit value - Emission level
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.



Frequency Range	150KHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120Vac, 60Hz	Environmental Conditions	26deg. C, 51%RH
Tested By	Hanwen Xu		

Rg	Frequency [MHz]	QPK Level [dBμV]	QPK Limit [dBμV]	QPK Margin [dB]	CAV Level [dBμV]	CAV: AVG Limit [dBμV]	CAV Margin [dB]	Correction [dB]	Line	Meas. BW [kHz]
1	0.177	53.67	64.63	10.96	30.87	54.63	23.76	12.22	N	9.000
1	0.735	42.28	56.00	13.72	35.67	46.00	10.33	12.74	N	9.000
1	1.586	28.87	56.00	27.13	23.43	46.00	22.57	12.74	N	9.000
1	4.407	21.66	56.00	34.34	15.65	46.00	30.35	12.76	N	9.000
1	10.289	17.15	60.00	42.85	11.40	50.00	38.60	12.79	N	9.000
1	21.552	16.42	60.00	43.58	10.12	50.00	39.88	12.86	N	9.000

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Limit value - Emission level
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.



3.3 MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

3.3.1 LIMITS OF MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

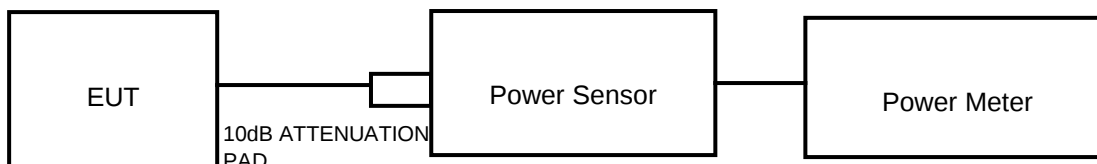
Operation Band	EUT Category		LIMIT
U-NII-1		Outdoor Access Point	1 Watt (30 dBm) (Max. e.i.r.p $\leq$ 125mW(21 dBm) at any elevation angle above 30 degrees as measured from the horizon)
		Fixed point-to-point Access Point	1 Watt (30 dBm)
	B	Indoor Access Point	1 Watt (30 dBm)
	√	Client devices	250mW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

NOTE: Where B is the 26dB emission bandwidth in MHz.

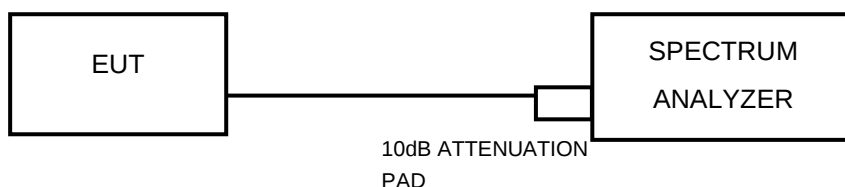
3.3.2 TEST SETUP

FOR POWER OUTPUT MEASUREMENT

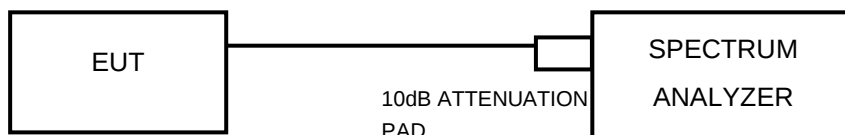
802.11a, 802.11n/ac/ax (20MHz), 802.11 n/ac/ax (40MHz) TEST CONFIGURATION



802.11ac/ax (80MHz) TEST CONFIGURATION



FOR 26dB BANDWIDTH



3.3.3 TEST INSTRUMENTS

Lab A:

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Power Meter	ANRITSU	ML2495A	1506002	Feb. 13,24	Feb. 12,25
EXA Signal Analyzer	KEYSIGHT	N9010A-526	MY54510523	Feb. 13,24	Feb. 12,25
EXA Signal Analyzer	KEYSIGHT	N9010A-544	MY54510355	May.09,24	May.08,25
Power Sensor	ANRITSU	MA2411B	1339352	Feb. 13,24	Feb. 12,25

NOTE:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
2. The test was performed in RF Oven room.

3.3.4 TEST PROCEDURE

FOR POWER MEASUREMENT

For 802.11a, 802.11 n/ac/ax (20MHz), 802.11 n/ac/ax (40MHz)

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

For 802.11ac/ax (80MHz)

1. Measure the duty cycle, x , of the transmitter output signal as described in II.B.
2. Set span to encompass the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal.
3. Set RBW = 1 MHz.
4. Set VBW $\geq$ 3 MHz.
5. Number of points in sweep $\geq 2 \times \text{span} / \text{RBW}$. (This ensures that bin-to-bin spacing is $\leq \text{RBW}/2$, so that narrowband signals are not lost between frequency bins.)
6. Sweep time = auto.
7. Detector = power averaging (rms), if available. Otherwise, use sample detector mode.
8. Do not use sweep triggering. Allow the sweep to “free run.”
9. Trace average at least 100 traces in power averaging (rms) mode; however, the number of traces to be averaged shall be increased above 100 as needed to ensure that the average accurately represents the true average over the on and off periods of the transmitter.
10. Add $10 \log (1/x)$, where x is the duty cycle, to the measured power to compute the average power during the actual transmission times (because the measurement represents an average over both the on and off times of the transmission). For example, add $10 \log (1/0.25) = 6 \text{ dB}$ if the duty cycle is 25%.

FOR 99 PERCENT OCCUPIED BANDWIDTH

The following procedure shall be used for measuring (99 %) power bandwidth:

1. Set center frequency to the nominal EUT channel center frequency.
2. Set span = 1.5 times to 5.0 times the OBW.
3. Set RBW = 1 % to 5 % of the OBW
4. Set VBW $\geq 3 \cdot$ RBW
5. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
6. Use the 99 % power bandwidth function of the instrument (if available).
7. If the instrument does not have a 99 % power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.

FOR 26dB BANDWIDTH

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

FOR 6dB BANDWIDTH

1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW) ≥ 3 RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

3.3.5 DEVIATION FROM TEST STANDARD

No deviation.

3.3.6 EUT OPERATING CONDITIONS

The software provided by client to enable the EUT under transmission condition continuously at specific channel frequencies individually.



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3.3.7 TEST RESULTS

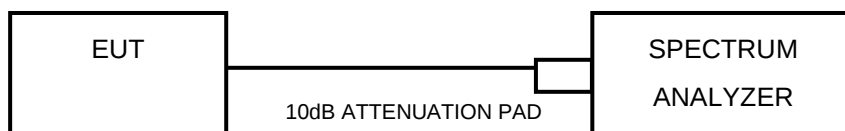
Please Refer to Appendix C Of this test report.

3.4 MAXIMUM POWER SPECTRAL DENSITY MEASUREMENT

3.4.1 LIMITS OF MAXIMUM POWER SPECTRAL DENSITY MEASUREMENT

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

3.4.2 TEST SETUP



3.4.3 TEST INSTRUMENTS

Refer to section 3.3.3 to get information of above instrument.

3.4.4 TEST PROCEDURES

Using method SA-2(Band1/2/3)

- 1) Set span to encompass the entire emission bandwidth (EBW) of the signal.
- 2) Set RBW = 1 MHz, Set VBW $\geq$ 3 MHz, Detector = RMS
- 3) Set Channel power measure = 1MHz
- 4) Sweep time = auto, trigger set to "free run".
- 5) Trace average at least 100 traces in power averaging mode.
- 6) Add $10 \log(1/x)$, where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times (because the measurement represents an average over both the on and off times of the transmission).
- 7) Record the max value

Using method SA-2 (Band4)

- 1) Set span to encompass the entire emission bandwidth (EBW) of the signal.
- 2) Set RBW = 300 KHz, Set VBW $\geq$ 1 MHz, Detector = RMS
- 3) Set Channel power measure = 1MHz
- 4) Sweep time = auto, trigger set to "free run".
- 5) Trace average at least 100 traces in power averaging mode.
- 6) Add $10 \log(500\text{kHz}/\text{RBW})$ to the test result. $10 \log(500\text{kHz}/300\text{KHZ}) = 2.22\text{dBm}$
- 7) Add $10 \log(1/x)$, where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times (because the measurement represents an average over both the on and off times of the transmission).
- 8) Record the max value

3.4.5 DEVIATION FROM TEST STANDARD

No deviation.

3.4.6 EUT OPERATING CONDITIONS

Same as 3.1.7.



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3.4.7 TEST RESULTS

Please Refer to Appendix C Of this test report.

3.5 AUTOMATICALLY DISCONTINUE TRANSMISSION

3.5.1 LIMIT OF AUTOMATICALLY DISCONTINUE TRANSMISSION

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signalling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization a description of how this requirement is met.

3.5.2 TEST INSTRUMENTS

Refer to section 3.3.3 to get information of above instrument.

3.5.3 TEST RESULT

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission

3.6 ANTENNA REQUIREMENTS

3.6.1 STANDARD APPLICABLE

If transmitting antenna directional gain is greater than 6 dBi, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.6.2 ANTENNA CONNECTED CONSTRUCTION

An embedded-in antenna design is used.

3.6.3 ANTENNA GAIN

According to FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

Directional gain = GANT + Array Gain, where Array Gain is as follows.

For power spectral density (PSD) measurements on all devices,

Array Gain = $10 \log(N_{ANT} / N_{ss})$ dB;

For power measurements on IEEE 802.11 devices, Array Gain = 0 dB for $N_{ANT} \leq 4$;

The EUT supports Cyclic Delay Diversity (CDD) mode,

For power measurements, the directional GANT is set equal to the antenna having the highest gain as following formulas.

Directional Gain = Max.Gain + Array Gain.

For PSD measurements, the directional GANT is calculation is following F)2)f)ii of KDB 662911 D01 v02r01.

The directional gain is calculated as following table.

5GHz Band1/2 3/4	Ant W0 (dBi)	Ant W1 (dBi)	DG For Power (dBi)	DG For PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
	1.5	1.5	1.5	4.51	0.00	0.00

NOTE :DG= directional gain, Power Limit Reduction = DG For Power Gain -6dbi<0

PSD Limit Reduction = DG For PSD – 6dBi<0. Therefore, it is not necessary to reduce maximum peak output power and PSD limit.



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4 PHOTOGRAPHS OF THE TEST CONFIGURATION

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



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5 MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No modifications were made to the EUT by the lab during the test.

--END--