

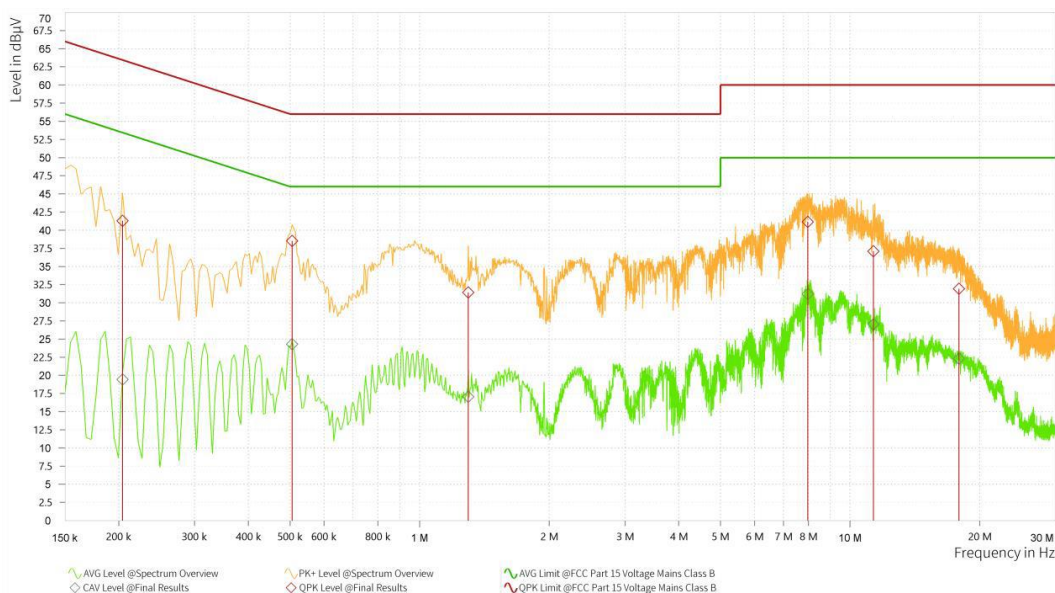


FREQUENCY RANGE	150KHz ~ 30MHz	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Quasi-Peak (QP) / Average (AV), 9 kHz
INPUT POWER	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	26deg. C, 51%RH
TESTED BY	Hanwen Xu		

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	0.204	41.30	63.45	22.15	19.43	53.45	34.02	9.77	N	9.000
1	0.506	38.52	56.00	17.48	24.30	46.00	21.70	9.75	N	9.000
1	1.298	31.41	56.00	24.59	17.06	46.00	28.94	9.78	N	9.000
1	7.976	41.14	60.00	18.86	31.21	50.00	18.79	10.62	N	9.000
1	11.324	37.09	60.00	22.91	27.05	50.00	22.95	11.33	N	9.000
1	17.912	31.92	60.00	28.08	22.29	50.00	27.71	13.00	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
3. measurement with the average detector is unnecessary.
4. The emission levels of other frequencies were very low against the limit.
5. Margin value = Limit value - Emission level
6. Correction factor = Insertion loss + Cable loss
7. Emission Level = Correction Factor + Reading Value.





4. PHOTOGRAPHS OF THE TEST CONFIGURATION

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



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.



BUREAU Test Report No.: PSU-QBJ2512030414RF03
VERITAS

6. APPENDIX: THE ORIGINAL REPORT

FCC TEST REPORT

(Part 15, Subpart E)

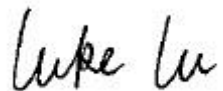
Applicant:	Honeywell International Inc Honeywell Safety and Productivity Solutions
Address:	9680 Old Bailes Road, Fort Mill, SC 29707 United States

Manufacturer or Supplier:	Honeywell International Inc Honeywell Safety and Productivity Solutions
Address:	9680 Old Bailes Road, Fort Mill, SC 29707 United States
Product:	Mobile Computer
Brand Name:	Honeywell
Model Name:	CT45P-X0N
FCC ID:	HD5-CT45PX0N
Date of tests:	Jun. 19, 2021 ~ Sep. 16, 2021

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: Sep. 17, 2021	 Date: Sep. 17, 2021

This report is governed by, and incorporates by reference, CPS Conditions of Service as posted at the date of issuance of this report at <http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions/> and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.

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Test Report No.: W7L-P21080021RF09

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
W7L-P21080021RF09	Original release	Sep. 17, 2021



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	Remark
15.407(b)(6)	AC Power Conducted Emission	Compliance	Meet the requirement of limit.Minimum passing margin is 34.56dB at 0.436000MHz
15.407(b) (1/2/3/4/5)	Radiated Emission & Band Edge Measurement	Compliance	Meet the requirement of limit.Minimum passing margin is -3.13dB at 5460MHz
15.407(a/1/2/3)	Maximum conducted output Power	Compliance	16.49dB for 5180 ~ 5240MHz 16.03dB for 5260 ~ 5320MHz 16.48dB for 5500 ~ 5720MHz 12.15dB for 5745 ~ 5825MHz
15.407(a/1/2/3)	Peak Power Spectral Density	Compliance	Meet the requirement of limit.Minimum passing margin is 5.71dB at 5720MHz
15.403(i)	26 dB Bandwidth	Compliance	Meet the requirement of limit.Minimum passing margin is 124.084MHz at 5210MHz
15.407(e)	6 dB Bandwidth	Compliance	Meet the requirement of limit.Minimum passing margin is 77.550MHz at 5690MHz
15.203	Antenna Requirement	Compliance	/
15.403(i)	99% Bandwidth	Compliance	Meet the requirement of limit.Minimum passing margin is 78.347MHz at 5210MHz

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	$\pm 2.70\text{dB}$
Radiated emissions (30MHz~1GMHz)	$\pm 4.98\text{dB}$
Radiated emissions (1GMHz ~6GMHz)	$\pm 4.70\text{dB}$
Radiated emissions (6GMHz ~18GMHz)	$\pm 4.60\text{dB}$
Radiated emissions (18GMHz ~40GMHz)	$\pm 4.12\text{dB}$
Conducted emissions	$\pm 4.01\text{dB}$
Occupied Channel Bandwidth	$\pm 43.58\text{KHz}$
Conducted Output power	$\pm 2.06\text{dB}$
Power Spectral Density	$\pm 0.85\text{ dB}$

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	Mobile Computer
BRAND NAME	Honeywell
MODEL NAME	CT45P-X0N
NOMINAL VOLTAGE	3.85Vdc (Lithium-ion cell, battery)
MODULATION	OFDM
TRANSFER RATE	802.11a: 54.0/ 48.0/ 36.0/ 24.0/ 18.0/ 12.0/ 9.0/ 6.0Mbps 802.11n: up to MCS7 802.11ac: up to 390.0Mbps 802.11ax: up to 1201.0Mbps
OPERATING FREQUENCY	5180 ~ 5240MHz, 5260 ~ 5320MHz, 5500 ~ 5720MHz, 5745 ~ 5825MHz
NUMBER OF CHANNEL	5180 ~ 5240MHz: 4 for 802.11a, 802.11n/ac/ ax(20MHz) 2 for 802.11n/ac/ ax (40MHz) 1 for 802. 802.11ac/ ax (80MHz) 5260 ~ 5320MHz: 4 for 802.11a, 802.11n/ac/ ax (20MHz) 2 for 802.11n/ac/ ax (40MHz) 1 for 802.11ac/ ax (80MHz) 5500 ~ 5720MHz: 12 for 802.11a, 802.11n/ac/ ax (20MHz) 6 for 802.11n/ac/ ax (40MHz) 3 for 802.11ac/ ax (80MHz) 5745 ~ 5825MHz: 5 for 802.11a, 802.11n/ac/ ax (20MHz) 3 for 802.11n/ac/ ax (40MHz) 2 for 802.11ac/ ax (80MHz)
AVERAGE POWER	16.49dB for 5180 ~ 5240MHz 16.03dB for 5260 ~ 5320MHz 16.48dB for 5500 ~ 5720MHz 12.15dB for 5745 ~ 5825MHz
ANTENNA TYPE	PIFA Antenna
ANTENNA GAIN	ANT 0: PIFA Antenna with 1.5 dBi for 5180 ~ 5240MHz PIFA Antenna with 1.7 dBi for 5260 ~ 5320MHz PIFA Antenna with 1.6 dBi for 5500 ~ 5720MHz PIFA Antenna with 1.5 dBi for 5745 ~ 5825MHz ANT 1: PIFA Antenna with 2.3 dBi for 5180 ~ 5240MHz PIFA Antenna with 2.2 dBi for 5260 ~ 5320MHz PIFA Antenna with 1.7 dBi for 5500 ~ 5720MHz PIFA Antenna with 1.2 dBi for 5745 ~ 5825MHz
HW VERSION	V1.0



SW VERSION	OS.11.001
I/O PORTS	Refer to user's manual
CABLE SUPPLIED	USB cable: unshielded without ferrite, 1.25 meter Earphone cable: unshielded without ferrite, 1.27 meter

NOTE:

- For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- This product includes the following two SKU which hardware is exactly same, the difference is described as following, Sample 1 was full test, sample 2 verify the worst case check worst case Radiated emission:

SAMPLE	EUT CONFIGURATION INFORMATION
1	SKU ID:CT45P-X0N-37D100G ,Assembled with Scanner Imager: S0703
2	SKU ID:CT45P-X0N-38D100G ,Assembled with Scanner Imager: N6803/S0803

- The EUT incorporates a SISO function. Physically, the EUT provides one completed transmitter and one receiver.

MODULATION MODE	TX FUNCTION
802.11a	2TX/2RX
802.11n/802.11ac/802.11ax (20MHz)	2TX/2RX
802.11n/802.11ac/802.11ax (40MHz)	2TX/2RX
802.11n/802.11ac/802.11ax (80MHz)	2TX/2RX

- For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.

List of Accessory:

ACCESSORIES	BRAND	MODEL	SPECIFICATION
Battery	Honeywell	CT50-BTSC	Capacity: 3.85vdc 4020mAh
AC Adapter	HONOR	ADS-12B-06 05010E	I/P:100-240Vac, 0.3A O/P: 5Vdc, 2A
USB Cable	Honeywell	CT40-SN	Shielded, 1.25meter
Earphone	Honeywell	PTE-300N 3.5L	Shielded, 1.27meter
LCD Panel	CASIL	CTM10801920T01	5.0" FHD(1928*1080)

2.2 DESCRIPTION OF TEST MODES

FOR 5180 ~ 5240MHz

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

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 (40MHz) / 802.11ax (40MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
38	5190 MHz	46	5230 MHz

1 channel is provided for 802.11ac (80MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
42	5210 MHz		

FOR 5260 ~ 5320MHz

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

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 (40MHz) / 802.11ax (40MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
54	5270 MHz	62	5310 MHz

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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
58	5290 MHz		

**FOR 5500 ~ 5720MHz**

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

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 (40MHz) / 802.11ax (40MHz):

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 (80MHz) / 802.11ax (80MHz):

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

FOR 5745 ~ 5825MHz

5 channels are provided for 802.11a, 802.11n, 802.11ac (20MHz) / 802.11ax (20MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
144	5720MHz	157	5785 MHz
149	5745 MHz	165	5825 MHz
153	5765 MHz		

3 channels are provided for 802.11n, 802.11ac (40MHz) / 802.11ax (40MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
142	5710 MHz	159	5795 MHz
151	5755 MHz		

2 channel is provided for 802.11ac (80MHz) / 802.11ax (80MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
138	5690MHz	155	5775 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).
- ☒ 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	802.11ac(40MHz)	5510-5710	102 to 141	102	OFDM	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).
- ☒ 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	802.11ac/ax/an (20MHz)		36 to 48	36, 40, 48	OFDM	MCS0
A	802.11ac/ax/an (40MHz)		38 to 46	38, 46	OFDM	MCS0
A	802.11ac/ax/an (80MHz)		42	42	OFDM	MCS0
A	802.11a	5260-5320	52 to 64	52, 60, 64	OFDM	6.0
A	802.11ac/ax/an (20MHz)		52 to 64	52, 60, 64	OFDM	MCS0
A	802.11ac/ax/an (40MHz)		54 to 62	54, 62	OFDM	MCS0
A	802.11ac/ax/an (80MHz)		58	58	OFDM	MCS0
A	802.11a	5500-5720	100 to 144	100, 116, 140, 144	OFDM	6.0
A	802.11ac/ax/an (20MHz)		100 to 144	100, 116, 140, 144	OFDM	MCS0
A	802.11ac/ax/an (40MHz)		102 to 142	102, 110, 134, 142	OFDM	MCS0
A	802.11ac/ax/an (80MHz)		106 to 138	106, 138	OFDM	MCS0
A	802.11a	5745-5825	144 to 165	144, 149, 157, 165	OFDM	6.0
A	802.11ac/ax/an (20MHz)		144 to 165	144, 149, 157, 165	OFDM	MCS0
A	802.11ac/ax/an (40MHz)		142 to 159	142, 151, 159	OFDM	MCS0
A	802.11ac/ax/an (80MHz)		138, 155	138, 155	OFDM	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).
- ☒ 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	802.11n (40MHz)	5180-5240	36 to 48	48	OFDM	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).
- ☒ 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, 48	36 to 48	6.0
A	802.11n (20MHz)		36 to 48	36, 48	36 to 48	MCS0
A	802.11n (40MHz)		38 to 46	38, 46	38 to 46	MCS0
A	802.11ac/ax (20MHz)		36 to 48	36, 48	36 to 48	MCS0
A	802.11ac/ax (40MHz)		38 to 46	38, 46	38 to 46	MCS0
A	802.11ac/ax (80MHz)		42	42	42	MCS0
A	802.11a	5260-5320	52 to 64	52, 64	52 to 64	6.0
A	802.11n (20MHz)		52 to 64	52, 64	52 to 64	MCS0
A	802.11n (40MHz)		54 to 62	54, 62	54 to 62	MCS0
A	802.11ac/ax (20MHz)		52 to 64	52, 64	52 to 64	MCS0
A	802.11ac/ax (40MHz)		54 to 62	54, 62	54 to 62	MCS0
A	802.11ac/ax (80MHz)		58	58	58	MCS0
A	802.11a	5500-5720	100 to 144	100, 116, 140, 144	100 to 144	6.0
A	802.11n (20MHz)		100 to 144	100, 116, 140, 144	100 to 144	MCS0
A	802.11n (40MHz)		102 to 142	102, 110, 134, 142	102 to 142	MCS0
A	802.11ac/ax (20MHz)		100 to 144	100, 116, 140, 144	100 to 144	MCS0
A	802.11ac/ax (40MHz)		102 to 142	102, 110, 134, 142	102 to 142	MCS0
A	802.11ac/ax (80MHz)		106 to 138	106, 138	106 to 138	MCS0
EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
A	802.11a	5745-5825	144 to 165	144, 149, 157,165	OFDM	6.0
A	802.11n (20MHz)		144 to 165	144, 149, 157,165	OFDM	MCS0
A	802.11n (40MHz)		142 to 159	142, 151, 159	OFDM	MCS0
A	802.11ac/ax (20MHz)		144 to 165	144, 149, 157,165	OFDM	MCS0



A	802.11ac/ax (40MHz)		142 to 159	142, 151, 159	OFDM	MCS0
A	802.11ac/ax (80MHz)		138,155	138, 155	OFDM	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).
- ☒ 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 (20MHz)		36 to 48	36, 40, 48	OFDM	MCS0
A	802.11n (40MHz)		38 to 46	38, 46	OFDM	MCS0
A	802.11ac/ax (20MHz)		36 to 48	36, 40, 48	OFDM	MCS0
A	802.11ac/ax (40MHz)		38 to 46	38, 46	OFDM	MCS0
A	802.11ac/ax (80MHz)		42	42	OFDM	MCS0
A	802.11a	5260-5320	52 to 64	52, 60, 64	OFDM	6.0
A	802.11n (20MHz)		52 to 64	52, 60, 64	OFDM	MCS0
A	802.11n (40MHz)		54 to 62	54, 62	OFDM	MCS0
A	802.11ac/ax (20MHz)		52 to 64	52, 60, 64	OFDM	MCS0
A	802.11ac/ax (40MHz)		54 to 62	54, 62	OFDM	MCS0
A	802.11ac/ax (80MHz)		58	58	OFDM	MCS0

A	802.11a	5500-5720	100 to 144	100, 116, 140, 144	OFDM	6.0
A	802.11n (20MHz)		100 to 144	100, 116, 140, 144	OFDM	MCS0
A	802.11n (40MHz)		102 to 142	102, 110, 134, 142	OFDM	MCS0
A	802.11ac/ax (20MHz)		100 to 144	100, 116, 140, 144	OFDM	MCS0
A	802.11ac/ax (40MHz)		102 to 142	102, 110, 134, 142	OFDM	MCS0
A	802.11ac/ax (80MHz)		106 to 138	106, 138	OFDM	MCS0
A	802.11a	5745-5825	144 to 165	144, 149, 157,165	OFDM	6.0
A	802.11n (20MHz)		144 to 165	144, 149, 157,165	OFDM	MCS0
A	802.11n (40MHz)		142 to 159	142, 151, 159	OFDM	MCS0
A	802.11ac/ax (20MHz)		144 to 165	144, 149, 157,165	OFDM	MCS0
A	802.11ac/ax (40MHz)		142 to 159	142, 151, 159	OFDM	MCS0
A	802.11ac/ax (80MHz)		138,155	138, 155	OFDM	MCS0

TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
RE<1G	23deg. C, 70%RH	DC 3.85V By Battery	Star Le
RE≥1G	23deg. C, 70%RH	DC 3.85V By Battery	Star Le
PLC	25deg. C, 52%RH	DC 3.85V By Battery	Lily Zhao
APCM	25deg. C, 60%RH	DC 3.85V By Battery	James Fu

2.3 DUTY CYCLE OF TEST SIGNAL

Please Refer to Appendix A 1. Of this test report.

WORST-CASE DATA:

Measured Duty Cycles				
Mode		Duty Cycles (%)		
		ANT 0	ANT 1	ANT 0+1
5GHz	11a	93.51	93.51	/
	11an20	93.10	93.10	/
	11an40	94.17	94.31	/
	11ac20	93.13	93.13	94.42
	11ac40	94.20	94.34	94.72
	11ac80	94.30	94.03	90.52
	11ax20	91.25	94.25	93.30
	11ax40	93.22	93.22	93.69
	11ax80	93.67	93.65	90.20

Note:

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

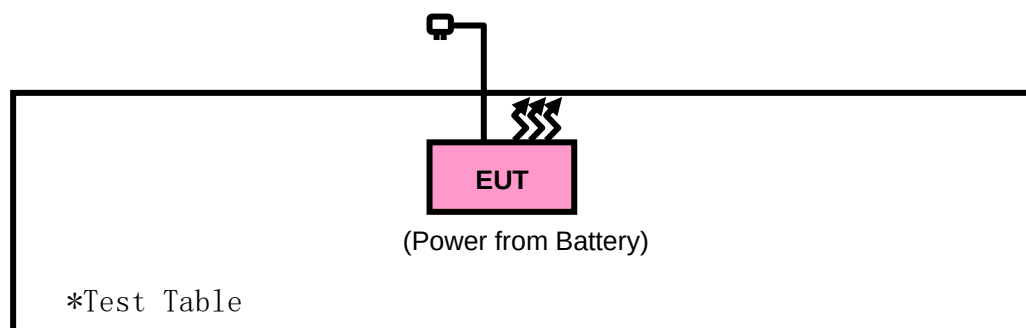
2.4 DESCRIPTION OF SUPPORT UNITS

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	Thnikpad L440	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 C63.10-2013

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)		
	15.407(b)(4)	See note 2 (FCC 16-24)	



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

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

2. All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

3.1.3 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
3m Semi-anechoic Chamber	ETS-LINDGREN	9m*6m*6m	Euroshieldpn-CT0001143-1216	May. 19,20	May. 18,23
Bilog Antenna	ETS-LINDGREN	3143B	00161965	Mar. 05,21	Mar. 04,22
Horn Antenna	ETS-LINDGREN	3117	00168728	Apr. 02,21	Apr. 01,22
Horn Antenna (18GHz-40GHz)	N/A	QWH-SL-18-40-K-SG/QMS-00361	15433	Aug. 25, 21	Aug. 24, 22
Test Software	E3	V 9.160323	N/A	N/A	N/A
Test Software	ADT	ADT_Radiated_V7.6.15.9.2	N/A	N/A	N/A
10dB Attenuator	JFW/USA	50HF-010-SMA	1505	Jun. 03,21	Jun. 02,22
MXE EMI Receiver	KEYSIGHT	N9038A-544	MY54450026	Apr. 22,21	Apr. 21,22
Signal Pre-Amplifier	EMSI	EMC 9135	980249	Jun. 02,21	Jun. 01,22
Signal Pre-Amplifier	EMSI	EMC 012645B	980257	Jun. 03,21	Jun. 02,22
Signal Pre-Amplifier	EMSI	EMC 184045B	980259	Apr. 22,21	Apr. 21,22

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:

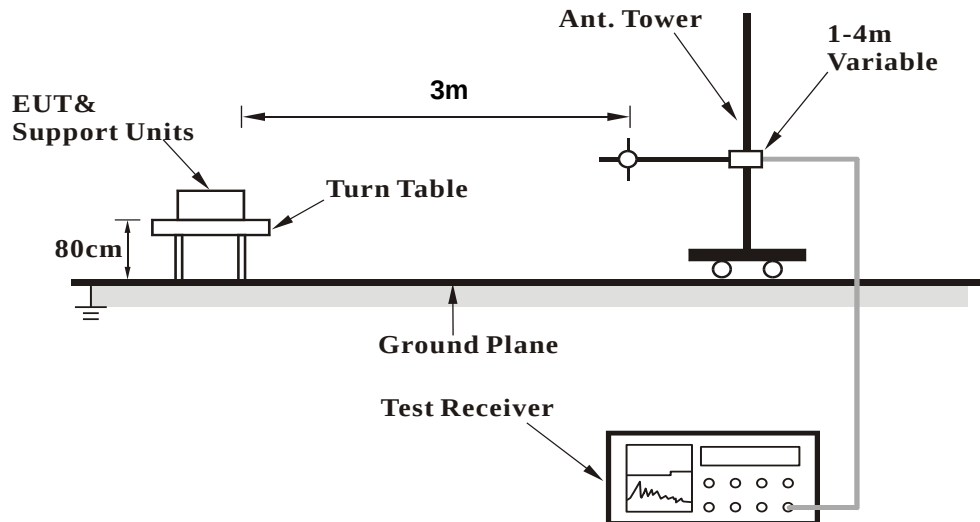
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency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

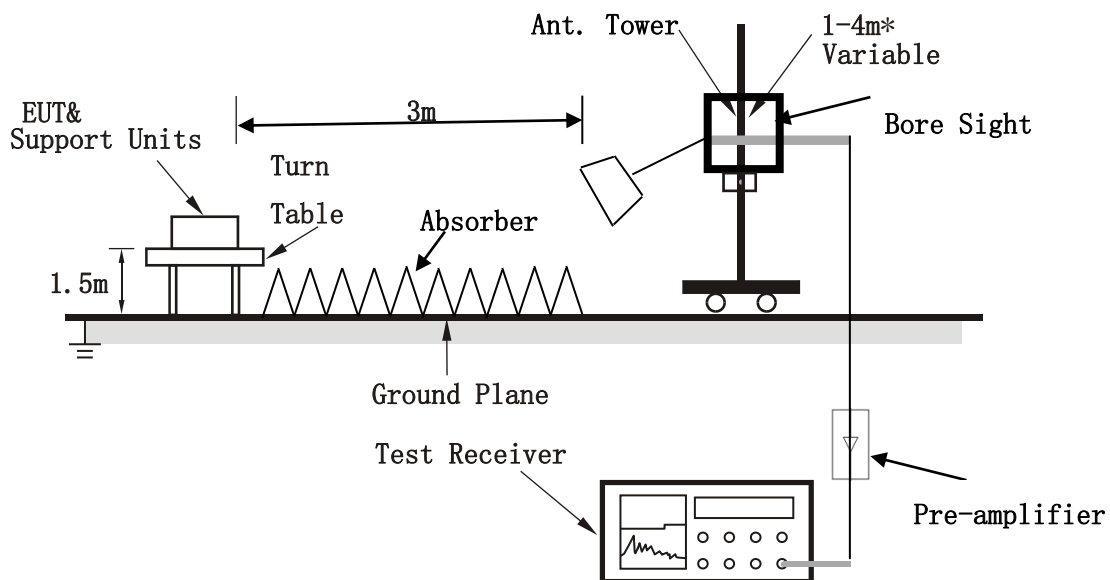
No deviation.

3.1.6 TEST SETUP

< Frequency Range 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).



Test Report No.: W7L-P21080021RF09

3.1.7 EUT OPERATING CONDITION

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



3.1.8 TEST RESULTS

BELOW 1GHz WORST-CASE DATA Ant 0:

30 MHz – 1GHz data:

Band 3

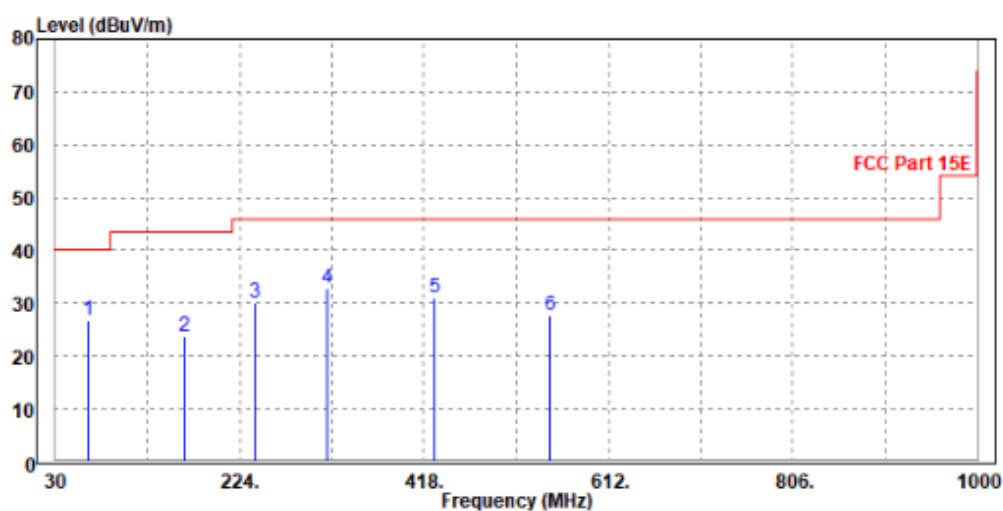
802.11ac (40MHz)

CHANNEL	TX Channel 102	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
63.95	26.65	55.31	40	-13.35	7.64	1.03	37.33	100	0	QP
165.8	23.61	47.98	43.5	-19.89	10.7	1.63	36.7	100	0	QP
240.49	30.02	51.9	46	-15.98	12.78	1.97	36.63	100	0	QP
316.15	33	53.03	46	-13	14.47	2.26	36.76	100	0	QP
428.67	30.99	47.79	46	-15.01	17.42	2.66	36.88	100	0	QP
550.89	27.78	42.17	46	-18.22	19.72	3.08	37.19	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.

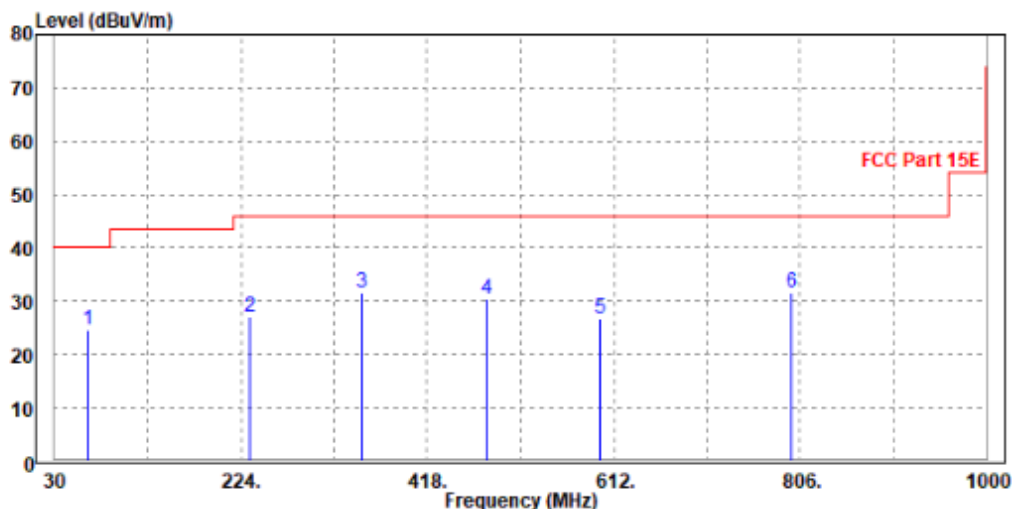


CHANNEL	Channel 102	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

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
63.95	24.56	52.96	40	-15.44	7.9	1.03	37.33	200	0	QP
232.73	27.02	48.69	46	-18.98	13.01	1.94	36.62	200	0	QP
350.1	31.55	49.86	46	-14.45	16.1	2.38	36.79	200	0	QP
480.08	30.29	45.69	46	-15.71	18.72	2.85	36.97	200	0	QP
597.45	26.8	40.1	46	-19.2	20.85	3.21	37.36	200	0	QP
796.3	31.53	42.36	46	-14.47	23.07	3.8	37.7	200	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.





Band 1

ABOVE 1GHz WORST-CASE DATA Ant 0:

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

802.11a

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	53.64	55.95	74	-20.36	34.52	9.52	46.35	118	295	Peak
5150	47.3	49.61	54	-6.7	34.52	9.52	46.35	118	295	Average
5180	106.19	108.42	-	-	34.54	9.58	46.35	118	295	Peak
5180	99.1	101.33	-	-	34.54	9.58	46.35	118	295	Average
5350	53.36	55.04	74	-20.64	34.68	9.94	46.3	118	295	Peak
5350	46.68	48.36	54	-7.32	34.68	9.94	46.3	118	295	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	53.11	55.34	74	-20.89	34.6	9.52	46.35	100	335	Peak
5150	47.5	49.73	54	-6.5	34.6	9.52	46.35	100	335	Average
5180	107.63	109.8	-	-	34.6	9.58	46.35	100	335	Peak
5180	104.06	106.23	-	-	34.6	9.58	46.35	100	335	Average
5350	53.54	55.3	74	-20.46	34.6	9.94	46.3	100	335	Peak
5350	47.16	48.92	54	-6.84	34.6	9.94	46.3	100	335	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 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	53.92	56.23	74	-20.08	34.52	9.52	46.35	118	295	Peak
5150	47	49.31	54	-7	34.52	9.52	46.35	118	295	Average
5200	106.57	108.73	-	-	34.56	9.62	46.34	118	295	Peak
5200	100.23	102.39	-	-	34.56	9.62	46.34	118	295	Average
5350	52.63	54.31	74	-21.37	34.68	9.94	46.3	118	295	Peak
5350	47.4	49.08	54	-6.6	34.68	9.94	46.3	118	295	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	54.25	56.48	74	-19.75	34.6	9.52	46.35	100	5	Peak
5150	47.44	49.67	54	-6.56	34.6	9.52	46.35	100	5	Average
5200	109.12	111.24	-	-	34.6	9.62	46.34	100	5	Peak
5200	102.57	104.69	-	-	34.6	9.62	46.34	100	5	Average
5350	53.26	55.02	74	-20.74	34.6	9.94	46.3	100	5	Peak
5350	46.92	48.68	54	-7.08	34.6	9.94	46.3	100	5	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	53.33	55.64	74	-20.67	34.52	9.52	46.35	118	295	Peak
5150	47.02	49.33	54	-6.98	34.52	9.52	46.35	118	295	Average
5240	105.99	108.02	-	-	34.59	9.71	46.33	118	295	Peak
5240	99.42	101.45	-	-	34.59	9.71	46.33	118	295	Average
5350	53.06	54.74	74	-20.94	34.68	9.94	46.3	118	295	Peak
5350	46.45	48.13	54	-7.55	34.68	9.94	46.3	118	295	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	53.72	55.95	74	-20.28	34.6	9.52	46.35	100	5	Peak
5150	47.33	49.56	54	-6.67	34.6	9.52	46.35	100	5	Average
5240	107.59	109.61	-	-	34.6	9.71	46.33	100	5	Peak
5240	100.51	102.53	-	-	34.6	9.71	46.33	100	5	Average
5350	53.12	54.88	74	-20.88	34.6	9.94	46.3	100	5	Peak
5350	47.22	48.98	54	-6.78	34.6	9.94	46.3	100	5	Average

REMARKS:

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



802.11n (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	53.37	55.68	74	-20.63	34.52	9.52	46.35	118	295	Peak
5150	47.15	49.46	54	-6.85	34.52	9.52	46.35	118	295	Average
5180	105.04	107.27	-	-	34.54	9.58	46.35	118	295	Peak
5180	97.25	99.48	-	-	34.54	9.58	46.35	118	295	Average
5350	54.1	55.78	74	-19.9	34.68	9.94	46.3	118	295	Peak
5350	47.01	48.69	54	-6.99	34.68	9.94	46.3	118	295	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	53.53	55.76	74	-20.47	34.6	9.52	46.35	100	360	Peak
5150	47.44	49.67	54	-6.56	34.6	9.52	46.35	100	360	Average
5180	106.03	108.2	-	-	34.6	9.58	46.35	100	360	Peak
5180	97.33	99.5	-	-	34.6	9.58	46.35	100	360	Average
5350	54.74	56.5	74	-19.26	34.6	9.94	46.3	100	360	Peak
5350	46.92	48.68	54	-7.08	34.6	9.94	46.3	100	360	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 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	54.29	56.6	74	-19.71	34.52	9.52	46.35	118	295	Peak
5150	47.38	49.69	54	-6.62	34.52	9.52	46.35	118	295	Average
5200	104.37	106.53	-	-	34.56	9.62	46.34	118	295	Peak
5200	97.21	99.37	-	-	34.56	9.62	46.34	118	295	Average
5350	52.46	54.14	74	-21.54	34.68	9.94	46.3	118	295	Peak
5350	47.04	48.72	54	-6.96	34.68	9.94	46.3	118	295	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	54.27	56.5	74	-19.73	34.6	9.52	46.35	100	360	Peak
5150	47	49.23	54	-7	34.6	9.52	46.35	100	360	Average
5200	105.9	108.02	-	-	34.6	9.62	46.34	100	360	Peak
5200	98.81	100.93	-	-	34.6	9.62	46.34	100	360	Average
5350	53.72	55.48	74	-20.28	34.6	9.94	46.3	100	360	Peak
5350	46.43	48.19	54	-7.57	34.6	9.94	46.3	100	360	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	53.09	55.4	74	-20.91	34.52	9.52	46.35	118	295	Peak
5150	47.5	49.81	54	-6.5	34.52	9.52	46.35	118	295	Average
5240	105.2	107.23	-	-	34.59	9.71	46.33	118	295	Peak
5240	97.93	99.96	-	-	34.59	9.71	46.33	118	295	Average
5350	54.06	55.74	74	-19.94	34.68	9.94	46.3	118	295	Peak
5350	47.51	49.19	54	-6.49	34.68	9.94	46.3	118	295	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	52.34	54.57	74	-21.66	34.6	9.52	46.35	100	360	Peak
5150	47.71	49.94	54	-6.29	34.6	9.52	46.35	100	360	Average
5240	106.07	108.09	-	-	34.6	9.71	46.33	100	360	Peak
5240	98.94	100.96	-	-	34.6	9.71	46.33	100	360	Average
5350	53.42	55.18	74	-20.58	34.6	9.94	46.3	100	360	Peak
5350	46.77	48.53	54	-7.23	34.6	9.94	46.3	100	360	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)

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	52.34	54.65	74	-21.66	34.52	9.52	46.35	100	295	Peak
5150	47.23	49.54	54	-6.77	34.52	9.52	46.35	100	295	Average
5190	92.65	94.84	-	-	34.55	9.6	46.34	100	295	Peak
5190	85.3	87.49	-	-	34.55	9.6	46.34	100	295	Average
5350	52.3	53.98	74	-21.7	34.68	9.94	46.3	100	295	Peak
5350	47.07	48.75	54	-6.93	34.68	9.94	46.3	100	295	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	52.41	54.64	74	-21.59	34.6	9.52	46.35	100	60	Peak
5150	47.38	49.61	54	-6.62	34.6	9.52	46.35	100	60	Average
5190	90.33	92.47	-	-	34.6	9.6	46.34	100	60	Peak
5190	83.03	85.17	-	-	34.6	9.6	46.34	100	60	Average
5350	53.17	54.93	74	-20.83	34.6	9.94	46.3	100	60	Peak
5350	46.99	48.75	54	-7.01	34.6	9.94	46.3	100	60	Average

REMARKS:

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



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	52.17	54.48	74	-21.83	34.52	9.52	46.35	120	295	Peak
5150	47	49.31	54	-7	34.52	9.52	46.35	120	295	Average
5230	93.13	95.19	-	-	34.58	9.69	46.33	120	295	Peak
5230	86.25	88.31	-	-	34.58	9.69	46.33	120	295	Average
5350	54.43	56.11	74	-19.57	34.68	9.94	46.3	120	295	Peak
5350	47.07	48.75	54	-6.93	34.68	9.94	46.3	120	295	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	54.32	74	-21.91	34.6	9.52	46.35	100	60	Peak
5150	47.01	49.24	54	-6.99	34.6	9.52	46.35	100	60	Average
5230	92.59	94.63	-	-	34.6	9.69	46.33	100	60	Peak
5230	84.56	86.6	-	-	34.6	9.69	46.33	100	60	Average
5350	52.37	54.13	74	-21.63	34.6	9.94	46.3	100	60	Peak
5350	46.91	48.67	54	-7.09	34.6	9.94	46.3	100	60	Average

REMARKS:

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



802.11ac (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	59.61	61.92	74	-14.39	34.52	9.52	46.35	100	255	Peak
5150	50.73	53.04	54	-3.27	34.52	9.52	46.35	100	255	Average
5180	102.03	104.26	-	-	34.54	9.58	46.35	100	255	Peak
5180	95.23	97.46	-	-	34.54	9.58	46.35	100	255	Average
5350	53.15	54.83	74	-20.85	34.68	9.94	46.3	100	255	Peak
5350	47.15	48.83	54	-6.85	34.68	9.94	46.3	100	255	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	57.75	59.98	74	-16.25	34.6	9.52	46.35	100	15	Peak
5150	49.73	51.96	54	-4.27	34.6	9.52	46.35	100	15	Average
5180	98.26	100.43	-	-	34.6	9.58	46.35	100	15	Peak
5180	91.01	93.18	-	-	34.6	9.58	46.35	100	15	Average
5350	54.02	55.78	74	-19.98	34.6	9.94	46.3	100	15	Peak
5350	46.79	48.55	54	-7.21	34.6	9.94	46.3	100	15	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	56.13	58.44	74	-17.87	34.52	9.52	46.35	100	255	Peak
5150	49.64	51.95	54	-4.36	34.52	9.52	46.35	100	255	Average
5200	102.59	104.75	-	-	34.56	9.62	46.34	100	255	Peak
5200	95.58	97.74	-	-	34.56	9.62	46.34	100	255	Average
5350	53.56	55.24	74	-20.44	34.68	9.94	46.3	100	255	Peak
5350	46.57	48.25	54	-7.43	34.68	9.94	46.3	100	255	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	55.64	57.87	74	-18.36	34.6	9.52	46.35	100	15	Peak
5150	49.38	51.61	54	-4.62	34.6	9.52	46.35	100	15	Average
5200	100.54	102.66	-	-	34.6	9.62	46.34	100	15	Peak
5200	91.94	94.06	-	-	34.6	9.62	46.34	100	15	Average
5350	55.61	57.37	74	-18.39	34.6	9.94	46.3	100	15	Peak
5350	47.68	49.44	54	-6.32	34.6	9.94	46.3	100	15	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	53.93	56.24	74	-20.07	34.52	9.52	46.35	100	255	Peak
5150	48.2	50.51	54	-5.8	34.52	9.52	46.35	100	255	Average
5240	102.93	104.96	-	-	34.59	9.71	46.33	100	255	Peak
5240	95.23	97.26	-	-	34.59	9.71	46.33	100	255	Average
5350	52.64	54.32	74	-21.36	34.68	9.94	46.3	100	255	Peak
5350	47.45	49.13	54	-6.55	34.68	9.94	46.3	100	255	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	54.19	56.42	74	-19.81	34.6	9.52	46.35	100	20	Peak
5150	48.51	50.74	54	-5.49	34.6	9.52	46.35	100	20	Average
5240	97.67	99.69	-	-	34.6	9.71	46.33	100	20	Peak
5240	91.08	93.1	-	-	34.6	9.71	46.33	100	20	Average
5350	53.34	55.1	74	-20.66	34.6	9.94	46.3	100	20	Peak
5350	47.29	49.05	54	-6.71	34.6	9.94	46.3	100	20	Average

REMARKS:

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



802.11ac (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	51.9	54.21	74	-22.1	34.52	9.52	46.35	137	290	Peak
5150	47.49	49.8	54	-6.51	34.52	9.52	46.35	137	290	Average
5190	90.1	92.29	-	-	34.55	9.6	46.34	137	290	Peak
5190	83.16	85.35	-	-	34.55	9.6	46.34	137	290	Average
5350	52.17	53.85	74	-21.83	34.68	9.94	46.3	137	290	Peak
5350	47.57	49.25	54	-6.43	34.68	9.94	46.3	137	290	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	54.33	74	-21.9	34.6	9.52	46.35	100	255	Peak
5150	47.39	49.62	54	-6.61	34.6	9.52	46.35	100	255	Average
5190	93.33	95.47	-	-	34.6	9.6	46.34	100	255	Peak
5190	83.61	85.75	-	-	34.6	9.6	46.34	100	255	Average
5350	52.69	54.45	74	-21.31	34.6	9.94	46.3	100	255	Peak
5350	46.37	48.13	54	-7.63	34.6	9.94	46.3	100	255	Average

REMARKS:

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



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	52.71	55.02	74	-21.29	34.52	9.52	46.35	137	290	Peak
5150	47.49	49.8	54	-6.51	34.52	9.52	46.35	137	290	Average
5230	89.91	91.97	-	-	34.58	9.69	46.33	137	290	Peak
5230	83.39	85.45	-	-	34.58	9.69	46.33	137	290	Average
5350	52.13	53.81	74	-21.87	34.68	9.94	46.3	137	290	Peak
5350	47.53	49.21	54	-6.47	34.68	9.94	46.3	137	290	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	55.29	74	-20.94	34.6	9.52	46.35	100	255	Peak
5150	47.45	49.68	54	-6.55	34.6	9.52	46.35	100	255	Average
5230	91.6	93.64	-	-	34.6	9.69	46.33	100	255	Peak
5230	82.26	84.3	-	-	34.6	9.69	46.33	100	255	Average
5350	51.43	53.19	74	-22.57	34.6	9.94	46.3	100	255	Peak
5350	46.67	48.43	54	-7.33	34.6	9.94	46.3	100	255	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 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	52.16	54.47	74	-21.84	34.52	9.52	46.35	120	295	Peak
5150	47.57	49.88	54	-6.43	34.52	9.52	46.35	120	295	Average
5210	85.47	87.6	-	-	34.57	9.64	46.34	120	295	Peak
5210	79.57	81.7	-	-	34.57	9.64	46.34	120	295	Average
5350	51.41	53.09	74	-22.59	34.68	9.94	46.3	120	295	Peak
5350	47	48.68	54	-7	34.68	9.94	46.3	120	295	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	52.9	55.13	74	-21.1	34.6	9.52	46.35	100	60	Peak
5150	47.81	50.04	54	-6.19	34.6	9.52	46.35	100	60	Average
5210	84.9	87	-	-	34.6	9.64	46.34	100	60	Peak
5210	77.85	79.95	-	-	34.6	9.64	46.34	100	60	Average
5350	51.9	53.66	74	-22.1	34.6	9.94	46.3	100	60	Peak
5350	47.5	49.26	54	-6.5	34.6	9.94	46.3	100	60	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 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	52.84	55.15	74	-21.16	34.52	9.52	46.35	105	80	Peak
5150	47.86	50.17	54	-6.14	34.52	9.52	46.35	105	80	Average
5180	102.42	104.65	-	-	34.54	9.58	46.35	105	80	Peak
5180	93.24	95.47	-	-	34.54	9.58	46.35	105	80	Average
5350	53.13	54.81	74	-20.87	34.68	9.94	46.3	105	80	Peak
5350	47.05	48.73	54	-6.95	34.68	9.94	46.3	105	80	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	52.81	55.04	74	-21.19	34.6	9.52	46.35	100	35	Peak
5150	47.22	49.45	54	-6.78	34.6	9.52	46.35	100	35	Average
5180	97.27	99.44	-	-	34.6	9.58	46.35	100	35	Peak
5180	87.42	89.59	-	-	34.6	9.58	46.35	100	35	Average
5350	54.4	56.16	74	-19.6	34.6	9.94	46.3	100	35	Peak
5350	46.81	48.57	54	-7.19	34.6	9.94	46.3	100	35	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 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	56.26	58.57	74	-17.74	34.52	9.52	46.35	100	305	Peak
5150	47.84	50.15	54	-6.16	34.52	9.52	46.35	100	305	Average
5200	99.72	101.88	-	-	34.56	9.62	46.34	100	305	Peak
5200	90.42	92.58	-	-	34.56	9.62	46.34	100	305	Average
5350	52.64	54.32	74	-21.36	34.68	9.94	46.3	100	305	Peak
5350	46.94	48.62	54	-7.06	34.68	9.94	46.3	100	305	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	53.33	55.56	74	-20.67	34.6	9.52	46.35	100	35	Peak
5150	47.95	50.18	54	-6.05	34.6	9.52	46.35	100	35	Average
5200	97.81	99.93	-	-	34.6	9.62	46.34	100	35	Peak
5200	89.49	91.61	-	-	34.6	9.62	46.34	100	35	Average
5350	53.46	55.22	74	-20.54	34.6	9.94	46.3	100	35	Peak
5350	47.34	49.1	54	-6.66	34.6	9.94	46.3	100	35	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 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	52.12	54.43	74	-21.88	34.52	9.52	46.35	100	305	Peak
5150	47.54	49.85	54	-6.46	34.52	9.52	46.35	100	305	Average
5240	99.2	101.23	-	-	34.59	9.71	46.33	100	305	Peak
5240	89.91	91.94	-	-	34.59	9.71	46.33	100	305	Average
5350	54.37	56.05	74	-19.63	34.68	9.94	46.3	100	305	Peak
5350	46.75	48.43	54	-7.25	34.68	9.94	46.3	100	305	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	54.38	56.61	74	-19.62	34.6	9.52	46.35	100	255	Peak
5150	47.65	49.88	54	-6.35	34.6	9.52	46.35	100	255	Average
5240	97.43	99.45	-	-	34.6	9.71	46.33	100	255	Peak
5240	88.42	90.44	-	-	34.6	9.71	46.33	100	255	Average
5350	53.75	55.51	74	-20.25	34.6	9.94	46.3	100	255	Peak
5350	47.8	49.56	54	-6.2	34.6	9.94	46.3	100	255	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 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	53.52	55.83	74	-20.48	34.52	9.52	46.35	120	295	Peak
5150	47.98	50.29	54	-6.02	34.52	9.52	46.35	120	295	Average
5190	91.25	93.44	-	-	34.55	9.6	46.34	120	295	Peak
5190	81.96	84.15	-	-	34.55	9.6	46.34	120	295	Average
5350	51.97	53.65	74	-22.03	34.68	9.94	46.3	120	295	Peak
5350	47.17	48.85	54	-6.83	34.68	9.94	46.3	120	295	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	52.34	54.57	74	-21.66	34.6	9.52	46.35	100	60	Peak
5150	47.62	49.85	54	-6.38	34.6	9.52	46.35	100	60	Average
5190	90.28	92.42	-	-	34.6	9.6	46.34	100	60	Peak
5190	82.69	84.83	-	-	34.6	9.6	46.34	100	60	Average
5350	51.75	53.51	74	-22.25	34.6	9.94	46.3	100	60	Peak
5350	47.79	49.55	54	-6.21	34.6	9.94	46.3	100	60	Average

REMARKS:

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



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	53.08	55.39	74	-20.92	34.52	9.52	46.35	120	295	Peak
5150	47.09	49.4	54	-6.91	34.52	9.52	46.35	120	295	Average
5230	91.28	93.34	-	-	34.58	9.69	46.33	120	295	Peak
5230	82.57	84.63	-	-	34.58	9.69	46.33	120	295	Average
5350	53.03	54.71	74	-20.97	34.68	9.94	46.3	120	295	Peak
5350	47.11	48.79	54	-6.89	34.68	9.94	46.3	120	295	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	55.53	74	-20.7	34.6	9.52	46.35	100	60	Peak
5150	46.75	48.98	54	-7.25	34.6	9.52	46.35	100	60	Average
5230	90.49	92.53	-	-	34.6	9.69	46.33	100	60	Peak
5230	81.27	83.31	-	-	34.6	9.69	46.33	100	60	Average
5350	52.37	54.13	74	-21.63	34.6	9.94	46.3	100	60	Peak
5350	46.56	48.32	54	-7.44	34.6	9.94	46.3	100	60	Average

REMARKS:

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



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	53.98	56.29	74	-20.02	34.52	9.52	46.35	120	295	Peak
5150	47.07	49.38	54	-6.93	34.52	9.52	46.35	120	295	Average
5210	91.44	93.57	-	-	34.57	9.64	46.34	120	295	Peak
5210	82.44	84.57	-	-	34.57	9.64	46.34	120	295	Average
5350	53.17	54.85	74	-20.83	34.68	9.94	46.3	120	295	Peak
5350	46.99	48.67	54	-7.01	34.68	9.94	46.3	120	295	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	53.04	55.27	74	-20.96	34.6	9.52	46.35	100	60	Peak
5150	47.5	49.73	54	-6.5	34.6	9.52	46.35	100	60	Average
5210	86.7	88.8	-	-	34.6	9.64	46.34	100	60	Peak
5210	80.5	82.6	-	-	34.6	9.64	46.34	100	60	Average
5350	53.17	54.93	74	-20.83	34.6	9.94	46.3	100	60	Peak
5350	47.48	49.24	54	-6.52	34.6	9.94	46.3	100	60	Average

REMARKS:

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



ABOVE 1GHz WORST-CASE DATA Ant 1:

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

802.11a

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	52.76	55.07	74	-21.24	34.52	9.52	46.35	120	290	Peak
5150	48.14	50.45	54	-5.86	34.52	9.52	46.35	120	290	Average
5180	91.33	93.56	-	-	34.54	9.58	46.35	120	290	Peak
5180	84.9	87.13	-	-	34.54	9.58	46.35	120	290	Average
5350	53.71	55.39	74	-20.29	34.68	9.94	46.3	120	290	Peak
5350	46.88	48.56	54	-7.12	34.68	9.94	46.3	120	290	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	52.91	55.14	74	-21.09	34.6	9.52	46.35	100	360	Peak
5150	47.8	50.03	54	-6.2	34.6	9.52	46.35	100	360	Average
5180	95.92	98.09	-	-	34.6	9.58	46.35	100	360	Peak
5180	87.26	89.43	-	-	34.6	9.58	46.35	100	360	Average
5350	55.05	56.81	74	-18.95	34.6	9.94	46.3	100	360	Peak
5350	47.53	49.29	54	-6.47	34.6	9.94	46.3	100	360	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 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	51.89	54.2	74	-22.11	34.52	9.52	46.35	100	90	Peak
5150	46.92	49.23	54	-7.08	34.52	9.52	46.35	100	90	Average
5200	90.61	92.77	-	-	34.56	9.62	46.34	100	90	Peak
5200	81.77	83.93	-	-	34.56	9.62	46.34	100	90	Average
5350	53.76	55.44	74	-20.24	34.68	9.94	46.3	100	90	Peak
5350	46.16	47.84	54	-7.84	34.68	9.94	46.3	100	90	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	55.88	58.11	74	-18.12	34.6	9.52	46.35	100	360	Peak
5150	47.77	50	54	-6.23	34.6	9.52	46.35	100	360	Average
5200	94.86	96.98	-	-	34.6	9.62	46.34	100	360	Peak
5200	87.54	89.66	-	-	34.6	9.62	46.34	100	360	Average
5350	55.43	57.19	74	-18.57	34.6	9.94	46.3	100	360	Peak
5350	47.1	48.86	54	-6.9	34.6	9.94	46.3	100	360	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 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	54.49	56.8	74	-19.51	34.52	9.52	46.35	135	290	Peak
5150	47.88	50.19	54	-6.12	34.52	9.52	46.35	135	290	Average
5240	91.4	93.43	-	-	34.59	9.71	46.33	135	290	Peak
5240	80.89	82.92	-	-	34.59	9.71	46.33	135	290	Average
5350	52.41	54.09	74	-21.59	34.68	9.94	46.3	135	290	Peak
5350	46.73	48.41	54	-7.27	34.68	9.94	46.3	135	290	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	52.79	55.02	74	-21.21	34.6	9.52	46.35	100	0	Peak
5150	48.06	50.29	54	-5.94	34.6	9.52	46.35	100	0	Average
5240	95.22	97.24	-	-	34.6	9.71	46.33	100	0	Peak
5240	89	91.02	-	-	34.6	9.71	46.33	100	0	Average
5350	52.08	53.84	74	-21.92	34.6	9.94	46.3	100	0	Peak
5350	46.95	48.71	54	-7.05	34.6	9.94	46.3	100	0	Average

REMARKS:

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



802.11n (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	54.03	56.34	74	-19.97	34.52	9.52	46.35	110	300	Peak
5150	48.19	50.5	54	-5.81	34.52	9.52	46.35	110	300	Average
5180	90.96	93.19	-	-	34.54	9.58	46.35	110	300	Peak
5180	81.14	83.37	-	-	34.54	9.58	46.35	110	300	Average
5350	53.56	55.24	74	-20.44	34.68	9.94	46.3	110	300	Peak
5350	46.59	48.27	54	-7.41	34.68	9.94	46.3	110	300	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	53.83	56.06	74	-20.17	34.6	9.52	46.35	100	330	Peak
5150	48.15	50.38	54	-5.85	34.6	9.52	46.35	100	330	Average
5180	94.4	96.57	-	-	34.6	9.58	46.35	100	330	Peak
5180	85.95	88.12	-	-	34.6	9.58	46.35	100	330	Average
5350	53.44	55.2	74	-20.56	34.6	9.94	46.3	100	330	Peak
5350	46.27	48.03	54	-7.73	34.6	9.94	46.3	100	330	Average

REMARKS:

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



**BUREAU
VERITAS**

Test Report No.: W7L-P21080021RF09

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	54.28	56.59	74	-19.72	34.52	9.52	46.35	110	285	Peak
5150	47.85	50.16	54	-6.15	34.52	9.52	46.35	110	285	Average
5200	91.91	94.07	-	-	34.56	9.62	46.34	110	285	Peak
5200	83.86	86.02	-	-	34.56	9.62	46.34	110	285	Average
5350	52.7	54.38	74	-21.3	34.68	9.94	46.3	110	285	Peak
5350	47.59	49.27	54	-6.41	34.68	9.94	46.3	110	285	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	54.31	56.54	74	-19.69	34.6	9.52	46.35	100	360	Peak
5150	46.9	49.13	54	-7.1	34.6	9.52	46.35	100	360	Average
5200	94.84	96.96	-	-	34.6	9.62	46.34	100	360	Peak
5200	85.57	87.69	-	-	34.6	9.62	46.34	100	360	Average
5350	51.82	53.58	74	-22.18	34.6	9.94	46.3	100	360	Peak
5350	46.56	48.32	54	-7.44	34.6	9.94	46.3	100	360	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	54.56	56.87	74	-19.44	34.52	9.52	46.35	110	280	Peak
5150	47.33	49.64	54	-6.67	34.52	9.52	46.35	110	280	Average
5240	90.13	92.16	-	-	34.59	9.71	46.33	110	280	Peak
5240	83.07	85.1	-	-	34.59	9.71	46.33	110	280	Average
5350	52.59	54.27	74	-21.41	34.68	9.94	46.3	110	280	Peak
5350	46.19	47.87	54	-7.81	34.68	9.94	46.3	110	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	54.81	57.04	74	-19.19	34.6	9.52	46.35	100	360	Peak
5150	46.78	49.01	54	-7.22	34.6	9.52	46.35	100	360	Average
5240	94.76	96.78	-	-	34.6	9.71	46.33	100	360	Peak
5240	85.02	87.04	-	-	34.6	9.71	46.33	100	360	Average
5350	54.04	55.8	74	-19.96	34.6	9.94	46.3	100	360	Peak
5350	46.2	47.96	54	-7.8	34.6	9.94	46.3	100	360	Average

REMARKS:

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



802.11n (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	52.8	55.11	74	-21.2	34.52	9.52	46.35	110	290	Peak
5150	47.37	49.68	54	-6.63	34.52	9.52	46.35	110	290	Average
5190	85.63	87.82	-	-	34.55	9.6	46.34	110	290	Peak
5190	78.05	80.24	-	-	34.55	9.6	46.34	110	290	Average
5350	53.07	54.75	74	-20.93	34.68	9.94	46.3	110	290	Peak
5350	47.81	49.49	54	-6.19	34.68	9.94	46.3	110	290	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	53.32	55.55	74	-20.68	34.6	9.52	46.35	100	0	Peak
5150	47.15	49.38	54	-6.85	34.6	9.52	46.35	100	0	Average
5190	90.6	92.74	-	-	34.6	9.6	46.34	100	0	Peak
5190	82.4	84.54	-	-	34.6	9.6	46.34	100	0	Average
5350	52.85	54.61	74	-21.15	34.6	9.94	46.3	100	0	Peak
5350	47.26	49.02	54	-6.74	34.6	9.94	46.3	100	0	Average

REMARKS:

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



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	52.12	54.43	74	-21.88	34.52	9.52	46.35	110	290	Peak
5150	47.06	49.37	54	-6.94	34.52	9.52	46.35	110	290	Average
5230	86.31	88.37	-	-	34.58	9.69	46.33	110	290	Peak
5230	80.96	83.02	-	-	34.58	9.69	46.33	110	290	Average
5350	53.16	54.84	74	-20.84	34.68	9.94	46.3	110	290	Peak
5350	48.06	49.74	54	-5.94	34.68	9.94	46.3	110	290	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	52.74	54.97	74	-21.26	34.6	9.52	46.35	100	0	Peak
5150	46.89	49.12	54	-7.11	34.6	9.52	46.35	100	0	Average
5230	91.73	93.77	-	-	34.6	9.69	46.33	100	0	Peak
5230	84.17	86.21	-	-	34.6	9.69	46.33	100	0	Average
5350	52.03	53.79	74	-21.97	34.6	9.94	46.3	100	0	Peak
5350	46.83	48.59	54	-7.17	34.6	9.94	46.3	100	0	Average

REMARKS:

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



802.11ac (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	54.81	57.12	74	-19.19	34.52	9.52	46.35	100	345	Peak
5150	49.02	51.33	54	-4.98	34.52	9.52	46.35	100	345	Average
5180	93.32	95.55	-	-	34.54	9.58	46.35	100	345	Peak
5180	86.87	89.1	-	-	34.54	9.58	46.35	100	345	Average
5350	53.23	54.91	74	-20.77	34.68	9.94	46.3	100	345	Peak
5350	47	48.68	54	-7	34.68	9.94	46.3	100	345	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	53.79	56.02	74	-20.21	34.6	9.52	46.35	100	10	Peak
5150	48.93	51.16	54	-5.07	34.6	9.52	46.35	100	10	Average
5180	99.04	101.21	-	-	34.6	9.58	46.35	100	10	Peak
5180	90.66	92.83	-	-	34.6	9.58	46.35	100	10	Average
5350	52.61	54.37	74	-21.39	34.6	9.94	46.3	100	10	Peak
5350	46.83	48.59	54	-7.17	34.6	9.94	46.3	100	10	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 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	54.25	56.56	74	-19.75	34.52	9.52	46.35	100	230	Peak
5150	48.68	50.99	54	-5.32	34.52	9.52	46.35	100	230	Average
5200	96.92	99.08	-	-	34.56	9.62	46.34	100	230	Peak
5200	87.26	89.42	-	-	34.56	9.62	46.34	100	230	Average
5350	52.87	54.55	74	-21.13	34.68	9.94	46.3	100	230	Peak
5350	47.92	49.6	54	-6.08	34.68	9.94	46.3	100	230	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	55.31	57.54	74	-18.69	34.6	9.52	46.35	100	10	Peak
5150	49.05	51.28	54	-4.95	34.6	9.52	46.35	100	10	Average
5200	99.22	101.34	-	-	34.6	9.62	46.34	100	10	Peak
5200	91.83	93.95	-	-	34.6	9.62	46.34	100	10	Average
5350	54.69	56.45	74	-19.31	34.6	9.94	46.3	100	10	Peak
5350	47.49	49.25	54	-6.51	34.6	9.94	46.3	100	10	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 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	54.33	56.64	74	-19.67	34.52	9.52	46.35	100	245	Peak
5150	48.27	50.58	54	-5.73	34.52	9.52	46.35	100	245	Average
5240	96.22	98.25	-	-	34.59	9.71	46.33	100	245	Peak
5240	88.9	90.93	-	-	34.59	9.71	46.33	100	245	Average
5350	54.63	56.31	74	-19.37	34.68	9.94	46.3	100	245	Peak
5350	47.43	49.11	54	-6.57	34.68	9.94	46.3	100	245	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	54.88	57.11	74	-19.12	34.6	9.52	46.35	100	20	Peak
5150	48.63	50.86	54	-5.37	34.6	9.52	46.35	100	20	Average
5240	98.43	100.45	-	-	34.6	9.71	46.33	100	20	Peak
5240	90.02	92.04	-	-	34.6	9.71	46.33	100	20	Average
5350	53.06	54.82	74	-20.94	34.6	9.94	46.3	100	20	Peak
5350	47.03	48.79	54	-6.97	34.6	9.94	46.3	100	20	Average

REMARKS:

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



802.11ac (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	52.79	55.1	74	-21.21	34.52	9.52	46.35	100	50	Peak
5150	48.61	50.92	54	-5.39	34.52	9.52	46.35	100	50	Average
5190	86.57	88.76	-	-	34.55	9.6	46.34	100	50	Peak
5190	79.24	81.43	-	-	34.55	9.6	46.34	100	50	Average
5350	52.36	54.04	74	-21.64	34.68	9.94	46.3	100	50	Peak
5350	47.9	49.58	54	-6.1	34.68	9.94	46.3	100	50	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	55.44	57.67	74	-18.56	34.6	9.52	46.35	100	0	Peak
5150	49.45	51.68	54	-4.55	34.6	9.52	46.35	100	0	Average
5190	88.74	90.88	-	-	34.6	9.6	46.34	100	0	Peak
5190	83.48	85.62	-	-	34.6	9.6	46.34	100	0	Peak
5350	59.04	60.8	74	-14.96	34.6	9.94	46.3	100	0	Peak
5350	48.41	50.17	54	-5.59	34.6	9.94	46.3	100	0	Average

REMARKS:

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



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	54.45	56.76	74	-19.55	34.52	9.52	46.35	100	50	Peak
5150	48.76	51.07	54	-5.24	34.52	9.52	46.35	100	50	Average
5230	83.54	85.6	-	-	34.58	9.69	46.33	100	50	Peak
5230	77.3	79.36	-	-	34.58	9.69	46.33	100	50	Average
5350	53.47	55.15	74	-20.53	34.68	9.94	46.3	100	50	Peak
5350	47.55	49.23	54	-6.45	34.68	9.94	46.3	100	50	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	53.99	56.22	74	-20.01	34.6	9.52	46.35	100	0	Peak
5150	48.7	50.93	54	-5.3	34.6	9.52	46.35	100	0	Average
5230	88.03	90.07	-	-	34.6	9.69	46.33	100	0	Peak
5230	81.62	83.66	-	-	34.6	9.69	46.33	100	0	Average
5350	54.51	56.27	74	-19.49	34.6	9.94	46.3	100	0	Peak
5350	47.73	49.49	54	-6.27	34.6	9.94	46.3	100	0	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	54.42	56.73	74	-19.58	34.52	9.52	46.35	100	295	Peak
5150	48.88	51.19	54	-5.12	34.52	9.52	46.35	100	295	Average
5210	90.68	92.81	-	-	34.57	9.64	46.34	100	295	Peak
5210	79.74	81.87	-	-	34.57	9.64	46.34	100	295	Average
5350	54.49	56.17	74	-19.51	34.68	9.94	46.3	100	295	Peak
5350	48.45	50.13	54	-5.55	34.68	9.94	46.3	100	295	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	54.68	56.91	74	-19.32	34.6	9.52	46.35	100	0	Peak
5150	49.27	51.5	54	-4.73	34.6	9.52	46.35	100	0	Average
5210	93.71	95.81	-	-	34.6	9.64	46.34	100	0	Peak
5210	85.66	87.76	-	-	34.6	9.64	46.34	100	0	Average
5350	53.63	55.39	74	-20.37	34.6	9.94	46.3	100	0	Peak
5350	47.92	49.68	54	-6.08	34.6	9.94	46.3	100	0	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 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	54.68	56.99	74	-19.32	34.52	9.52	46.35	100	90	Peak
5150	48.47	50.78	54	-5.53	34.52	9.52	46.35	100	90	Average
5180	90.41	92.64	-	-	34.54	9.58	46.35	100	90	Peak
5180	81.37	83.6	-	-	34.54	9.58	46.35	100	90	Average
5350	52.68	54.36	74	-21.32	34.68	9.94	46.3	100	90	Peak
5350	46.49	48.17	54	-7.51	34.68	9.94	46.3	100	90	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	52.63	54.86	74	-21.37	34.6	9.52	46.35	100	0	Peak
5150	48.85	51.08	54	-5.15	34.6	9.52	46.35	100	0	Average
5180	94.44	96.61	-	-	34.6	9.58	46.35	100	0	Peak
5180	85.43	87.6	-	-	34.6	9.58	46.35	100	0	Average
5350	53.96	55.72	74	-20.04	34.6	9.94	46.3	100	0	Peak
5350	47.82	49.58	54	-6.18	34.6	9.94	46.3	100	0	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 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	55.76	58.07	74	-18.24	34.52	9.52	46.35	130	90	Peak
5150	47.85	50.16	54	-6.15	34.52	9.52	46.35	130	90	Average
5200	88.8	90.96	-	-	34.56	9.62	46.34	130	90	Peak
5200	78.21	80.37	-	-	34.56	9.62	46.34	130	90	Average
5350	53.21	54.89	74	-20.79	34.68	9.94	46.3	130	90	Peak
5350	47.18	48.86	54	-6.82	34.68	9.94	46.3	130	90	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	53.22	55.45	74	-20.78	34.6	9.52	46.35	100	360	Peak
5150	48.05	50.28	54	-5.95	34.6	9.52	46.35	100	360	Average
5200	93.28	95.4	-	-	34.6	9.62	46.34	100	360	Peak
5200	85.07	87.19	-	-	34.6	9.62	46.34	100	360	Average
5350	52.56	54.32	74	-21.44	34.6	9.94	46.3	100	360	Peak
5350	47.66	49.42	54	-6.34	34.6	9.94	46.3	100	360	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	55.06	57.37	74	-18.94	34.52	9.52	46.35	100	90	Peak
5150	48.57	50.88	54	-5.43	34.52	9.52	46.35	100	90	Average
5240	88.64	90.67	–	–	34.59	9.71	46.33	100	90	Peak
5240	79.35	81.38	–	–	34.59	9.71	46.33	100	90	Average
5350	55.11	56.79	74	-18.89	34.68	9.94	46.3	100	90	Peak
5350	47.01	48.69	54	-6.99	34.68	9.94	46.3	100	90	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	54.92	57.15	74	-19.08	34.6	9.52	46.35	100	360	Peak
5150	48.52	50.75	54	-5.48	34.6	9.52	46.35	100	360	Average
5240	94.81	96.83	–	–	34.6	9.71	46.33	100	360	Peak
5240	85.39	87.41	–	–	34.6	9.71	46.33	100	360	Average
5350	52.95	54.71	74	-21.05	34.6	9.94	46.3	100	360	Peak
5350	46.94	48.7	54	-7.06	34.6	9.94	46.3	100	360	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 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	53.4	55.71	74	-20.6	34.52	9.52	46.35	100	50	Peak
5150	49.27	51.58	54	-4.73	34.52	9.52	46.35	100	50	Average
5190	93.52	95.71	-	-	34.55	9.6	46.34	100	50	Peak
5190	84.18	86.37	-	-	34.55	9.6	46.34	100	50	Average
5350	53.3	54.98	74	-20.7	34.68	9.94	46.3	100	50	Peak
5350	47.66	49.34	54	-6.34	34.68	9.94	46.3	100	50	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	57.24	74	-18.99	34.6	9.52	46.35	100	0	Peak
5150	48.95	51.18	54	-5.05	34.6	9.52	46.35	100	0	Average
5190	89.36	91.5	-	-	34.6	9.6	46.34	100	0	Peak
5190	78.21	80.35	-	-	34.6	9.6	46.34	100	0	Average
5350	53.39	55.15	74	-20.61	34.6	9.94	46.3	100	0	Peak
5350	48.45	50.21	54	-5.55	34.6	9.94	46.3	100	0	Average

REMARKS:

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



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	55.39	57.7	74	-18.61	34.52	9.52	46.35	100	50	Peak
5150	49.22	51.53	54	-4.78	34.52	9.52	46.35	100	50	Average
5230	91.92	93.98	-	-	34.58	9.69	46.33	100	50	Peak
5230	83.55	85.61	-	-	34.58	9.69	46.33	100	50	Average
5350	53.46	55.14	74	-20.54	34.68	9.94	46.3	100	50	Peak
5350	47.76	49.44	54	-6.24	34.68	9.94	46.3	100	50	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	54.74	56.97	74	-19.26	34.6	9.52	46.35	100	0	Peak
5150	49.08	51.31	54	-4.92	34.6	9.52	46.35	100	0	Average
5230	93.76	95.8	-	-	34.6	9.69	46.33	100	0	Peak
5230	83.52	85.56	-	-	34.6	9.69	46.33	100	0	Average
5350	54.73	56.49	74	-19.27	34.6	9.94	46.3	100	0	Peak
5350	47.25	49.01	54	-6.75	34.6	9.94	46.3	100	0	Average

REMARKS:

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



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	54.1	56.41	74	-19.9	34.52	9.52	46.35	100	50	Peak
5150	48.81	51.12	54	-5.19	34.52	9.52	46.35	100	50	Average
5210	89.84	91.97	-	-	34.57	9.64	46.34	100	50	Peak
5210	82.13	84.26	-	-	34.57	9.64	46.34	100	50	Average
5350	53.44	55.12	74	-20.56	34.68	9.94	46.3	100	50	Peak
5350	48.1	49.78	54	-5.9	34.68	9.94	46.3	100	50	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	55.27	57.5	74	-18.73	34.6	9.52	46.35	100	0	Peak
5150	49.94	52.17	54	-4.06	34.6	9.52	46.35	100	0	Average
5210	96.12	98.22	-	-	34.6	9.64	46.34	100	0	Peak
5210	84.25	86.35	-	-	34.6	9.64	46.34	100	0	Average
5350	54.3	56.06	74	-19.7	34.6	9.94	46.3	100	0	Peak
5350	47.74	49.5	54	-6.26	34.6	9.94	46.3	100	0	Average

REMARKS:

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



ABOVE 1GHz WORST-CASE DATA Ant 0+1:

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

802.11ac (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	56.13	58.44	74	-17.87	34.52	9.52	46.35	100	245	Peak
5150	50.04	52.35	54	-3.96	34.52	9.52	46.35	100	245	Average
5180	102.03	104.26	-	-	34.54	9.58	46.35	100	245	Peak
5180	93.77	96	-	-	34.54	9.58	46.35	100	245	Average
5350	53.66	55.34	74	-20.34	34.68	9.94	46.3	100	245	Peak
5350	46.66	48.34	54	-7.34	34.68	9.94	46.3	100	245	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	60.71	62.94	74	-13.29	34.6	9.52	46.35	100	320	Peak
5150	50.08	52.31	54	-3.92	34.6	9.52	46.35	100	320	Average
5180	104.64	106.81	-	-	34.6	9.58	46.35	100	320	Peak
5180	94.22	96.39	-	-	34.6	9.58	46.35	100	320	Average
5350	53.24	55	74	-20.76	34.6	9.94	46.3	100	320	Peak
5350	47.61	49.37	54	-6.39	34.6	9.94	46.3	100	320	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 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	53.22	55.53	74	-20.78	34.52	9.52	46.35	100	245	Peak
5150	48.27	50.58	54	-5.73	34.52	9.52	46.35	100	245	Average
5200	101.4	103.56	-	-	34.56	9.62	46.34	100	245	Peak
5200	92.65	94.81	-	-	34.56	9.62	46.34	100	245	Average
5350	53.69	55.37	74	-20.31	34.68	9.94	46.3	100	245	Peak
5350	47.31	48.99	54	-6.69	34.68	9.94	46.3	100	245	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	54.83	57.06	74	-19.17	34.6	9.52	46.35	100	320	Peak
5150	48.35	50.58	54	-5.65	34.6	9.52	46.35	100	320	Average
5200	102.98	105.1	-	-	34.6	9.62	46.34	100	320	Peak
5200	92.75	94.87	-	-	34.6	9.62	46.34	100	320	Average
5350	54.83	56.59	74	-19.17	34.6	9.94	46.3	100	320	Peak
5350	47.59	49.35	54	-6.41	34.6	9.94	46.3	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.



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	57.37	59.68	74	-16.63	34.52	9.52	46.35	100	245	Peak
5150	48.06	50.37	54	-5.94	34.52	9.52	46.35	100	245	Average
5240	103.33	105.36	-	-	34.59	9.71	46.33	100	245	Peak
5240	94.91	96.94	-	-	34.59	9.71	46.33	100	245	Average
5350	53.39	55.07	74	-20.61	34.68	9.94	46.3	100	245	Peak
5350	47.09	48.77	54	-6.91	34.68	9.94	46.3	100	245	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	53.1	55.33	74	-20.9	34.6	9.52	46.35	100	320	Peak
5150	49.56	51.79	54	-4.44	34.6	9.52	46.35	100	320	Average
5240	103.27	105.29	-	-	34.6	9.71	46.33	100	320	Peak
5240	93.27	95.29	-	-	34.6	9.71	46.33	100	320	Average
5350	53.06	54.82	74	-20.94	34.6	9.94	46.3	100	320	Peak
5350	46.53	48.29	54	-7.47	34.6	9.94	46.3	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.



802.11ac (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	55.04	57.35	74	-18.96	34.52	9.52	46.35	115	85	Peak
5150	50.51	52.82	54	-3.49	34.52	9.52	46.35	115	85	Average
5190	98.55	100.74	-	-	34.55	9.6	46.34	115	85	Peak
5190	89.56	91.75	-	-	34.55	9.6	46.34	115	85	Average
5350	52.92	54.6	74	-21.08	34.68	9.94	46.3	115	85	Peak
5350	46.87	48.55	54	-7.13	34.68	9.94	46.3	115	85	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	55.98	58.21	74	-18.02	34.6	9.52	46.35	100	0	Peak
5150	50.68	52.91	54	-3.32	34.6	9.52	46.35	100	0	Average
5190	99.76	101.9	-	-	34.6	9.6	46.34	100	0	Peak
5190	91.19	93.33	-	-	34.6	9.6	46.34	100	0	Average
5350	51.04	52.8	74	-22.96	34.6	9.94	46.3	100	0	Peak
5350	46.36	48.12	54	-7.64	34.6	9.94	46.3	100	0	Average

REMARKS:

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



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	54.54	56.85	74	-19.46	34.52	9.52	46.35	135	85	Peak
5150	48.92	51.23	54	-5.08	34.52	9.52	46.35	135	85	Average
5230	106.85	108.91	-	-	34.58	9.69	46.33	135	85	Peak
5230	100.19	102.25	-	-	34.58	9.69	46.33	135	85	Average
5350	55.18	56.86	74	-18.82	34.68	9.94	46.3	135	85	Peak
5350	46.69	48.37	54	-7.31	34.68	9.94	46.3	135	85	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	55.23	74	-21	34.6	9.52	46.35	100	0	Peak
5150	48.56	50.79	54	-5.44	34.6	9.52	46.35	100	0	Average
5230	106.53	108.57	-	-	34.6	9.69	46.33	100	0	Peak
5230	99.99	102.03	-	-	34.6	9.69	46.33	100	0	Average
5350	53.97	55.73	74	-20.03	34.6	9.94	46.3	100	0	Peak
5350	46.73	48.49	54	-7.27	34.6	9.94	46.3	100	0	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 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	52.31	54.62	74	-21.69	34.52	9.52	46.35	135	85	Peak
5150	48.03	50.34	54	-5.97	34.52	9.52	46.35	135	85	Average
5210	94.44	96.57	-	-	34.57	9.64	46.34	135	85	Peak
5210	86.15	88.28	-	-	34.57	9.64	46.34	135	85	Average
5350	51.61	53.29	74	-22.39	34.68	9.94	46.3	135	85	Peak
5350	46.25	47.93	54	-7.75	34.68	9.94	46.3	135	85	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	54.76	56.99	74	-19.24	34.6	9.52	46.35	100	0	Peak
5150	48.72	50.95	54	-5.28	34.6	9.52	46.35	100	0	Average
5210	94.04	96.14	-	-	34.6	9.64	46.34	100	0	Peak
5210	88.57	90.67	-	-	34.6	9.64	46.34	100	0	Average
5350	52.45	54.21	74	-21.55	34.6	9.94	46.3	100	0	Peak
5350	47.1	48.86	54	-6.9	34.6	9.94	46.3	100	0	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 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	51.73	54.04	74	-22.27	34.52	9.52	46.35	100	290	Peak
5150	47.73	50.04	54	-6.27	34.52	9.52	46.35	100	290	Average
5180	96.52	98.75	-	-	34.54	9.58	46.35	100	290	Peak
5180	87.83	90.06	-	-	34.54	9.58	46.35	100	290	Average
5350	47.31	48.99	74	-26.69	34.68	9.94	46.3	100	290	Peak
5350	50.64	52.32	54	-3.36	34.68	9.94	46.3	100	290	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	54.51	56.74	74	-19.49	34.6	9.52	46.35	100	335	Peak
5150	47.72	49.95	54	-6.28	34.6	9.52	46.35	100	335	Average
5180	99.25	101.42	-	-	34.6	9.58	46.35	100	335	Peak
5180	89.93	92.1	-	-	34.6	9.58	46.35	100	335	Average
5350	53.05	54.81	74	-20.95	34.6	9.94	46.3	100	335	Peak
5350	47.6	49.36	54	-6.4	34.6	9.94	46.3	100	335	Average

REMARKS:

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



**BUREAU
VERITAS**

Test Report No.: W7L-P21080021RF09

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	51.99	54.3	74	-22.01	34.52	9.52	46.35	118	290	Peak
5150	47.47	49.78	54	-6.53	34.52	9.52	46.35	118	290	Average
5200	96.67	98.83	-	-	34.56	9.62	46.34	118	290	Peak
5200	89.77	91.93	-	-	34.56	9.62	46.34	118	290	Average
5350	51.82	53.5	74	-22.18	34.68	9.94	46.3	118	290	Peak
5350	46.77	48.45	54	-7.23	34.68	9.94	46.3	118	290	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	54.23	74	-22	34.6	9.52	46.35	100	0	Peak
5150	47.47	49.7	54	-6.53	34.6	9.52	46.35	100	0	Average
5200	100.09	102.21	-	-	34.6	9.62	46.34	100	0	Peak
5200	91.22	93.34	-	-	34.6	9.62	46.34	100	0	Average
5350	53.59	55.35	74	-20.41	34.6	9.94	46.3	100	0	Peak
5350	46.78	48.54	54	-7.22	34.6	9.94	46.3	100	0	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	54.06	56.37	74	-19.94	34.52	9.52	46.35	140	300	Peak
5150	47.22	49.53	54	-6.78	34.52	9.52	46.35	140	300	Average
5240	96.93	98.96	-	-	34.59	9.71	46.33	140	300	Peak
5240	89.77	91.8	-	-	34.59	9.71	46.33	140	300	Average
5350	51.9	53.58	74	-22.1	34.68	9.94	46.3	140	300	Peak
5350	46.53	48.21	54	-7.47	34.68	9.94	46.3	140	300	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	53.55	55.78	74	-20.45	34.6	9.52	46.35	100	0	Peak
5150	48.03	50.26	54	-5.97	34.6	9.52	46.35	100	0	Average
5240	98.38	100.4	-	-	34.6	9.71	46.33	100	0	Peak
5240	90.11	92.13	-	-	34.6	9.71	46.33	100	0	Average
5350	52.76	54.52	74	-21.24	34.6	9.94	46.3	100	0	Peak
5350	46.72	48.48	54	-7.28	34.6	9.94	46.3	100	0	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 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	53.4	55.71	74	-20.6	34.52	9.52	46.35	100	50	Peak
5150	49.27	51.58	54	-4.73	34.52	9.52	46.35	100	50	Average
5190	93.52	95.71	-	-	34.55	9.6	46.34	100	50	Peak
5190	84.18	86.37	-	-	34.55	9.6	46.34	100	50	Average
5350	53.3	54.98	74	-20.7	34.68	9.94	46.3	100	50	Peak
5350	47.66	49.34	54	-6.34	34.68	9.94	46.3	100	50	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	53.34	55.57	74	-20.66	34.6	9.52	46.35	100	360	Peak
5150	48.32	50.55	54	-5.68	34.6	9.52	46.35	100	360	Average
5190	104.26	106.4	-	-	34.6	9.6	46.34	100	360	Peak
5190	95.19	97.33	-	-	34.6	9.6	46.34	100	360	Average
5350	52.98	54.74	74	-21.02	34.6	9.94	46.3	100	360	Peak
5350	46.71	48.47	54	-7.29	34.6	9.94	46.3	100	360	Average

REMARKS:

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



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	54.01	56.32	74	-19.99	34.52	9.52	46.35	100	85	Peak
5150	48.44	50.75	54	-5.56	34.52	9.52	46.35	100	85	Average
5230	102.68	104.74	-	-	34.58	9.69	46.33	100	85	Peak
5230	91.62	93.68	-	-	34.58	9.69	46.33	100	85	Average
5350	52.08	53.76	74	-21.92	34.68	9.94	46.3	100	85	Peak
5350	47.28	48.96	54	-6.72	34.68	9.94	46.3	100	85	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	52.71	54.94	74	-21.29	34.6	9.52	46.35	100	0	Peak
5150	47.73	49.96	54	-6.27	34.6	9.52	46.35	100	0	Average
5230	103.01	105.05	-	-	34.6	9.69	46.33	100	0	Peak
5230	92.38	94.42	-	-	34.6	9.69	46.33	100	0	Average
5350	53.56	55.32	74	-20.44	34.6	9.94	46.3	100	0	Peak
5350	46.4	48.16	54	-7.6	34.6	9.94	46.3	100	0	Average

REMARKS:

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



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	53.82	56.13	74	-20.18	34.52	9.52	46.35	135	100	Peak
5150	48.65	50.96	54	-5.35	34.52	9.52	46.35	135	100	Average
5210	96.55	98.68	-	-	34.57	9.64	46.34	135	100	Peak
5210	86.39	88.52	-	-	34.57	9.64	46.34	135	100	Average
5350	54.52	56.2	74	-19.48	34.68	9.94	46.3	135	100	Peak
5350	46.54	48.22	54	-7.46	34.68	9.94	46.3	135	100	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	53.38	55.61	74	-20.62	34.6	9.52	46.35	100	0	Peak
5150	48.81	51.04	54	-5.19	34.6	9.52	46.35	100	0	Average
5210	95.73	97.83	-	-	34.6	9.64	46.34	100	0	Peak
5210	87.7	89.8	-	-	34.6	9.64	46.34	100	0	Average
5350	51.92	53.68	74	-22.08	34.6	9.94	46.3	100	0	Peak
5350	45.96	47.72	54	-8.04	34.6	9.94	46.3	100	0	Average

REMARKS:

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



Band 2

ABOVE 1GHz WORST-CASE DATA Ant 0:

802.11a

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	53.18	55.49	74	-20.82	34.52	9.52	46.35	102	90	Peak
5150	47.14	49.45	54	-6.86	34.52	9.52	46.35	102	90	Average
5260	103.64	105.6	-	-	34.61	9.75	46.32	102	90	Peak
5260	96.72	98.68	-	-	34.61	9.75	46.32	102	90	Average
5350	53.03	54.71	74	-20.97	34.68	9.94	46.3	102	90	Peak
5350	46.93	48.61	54	-7.07	34.68	9.94	46.3	102	90	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	53.75	55.98	74	-20.25	34.6	9.52	46.35	100	0	Peak
5150	48.3	50.53	54	-5.7	34.6	9.52	46.35	100	0	Average
5260	97.93	99.9	-	-	34.6	9.75	46.32	100	0	Peak
5260	90.78	92.75	-	-	34.6	9.75	46.32	100	0	Average
5350	53.15	54.91	74	-20.85	34.6	9.94	46.3	100	0	Peak
5350	47.49	49.25	54	-6.51	34.6	9.94	46.3	100	0	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	52.01	54.32	74	-21.99	34.52	9.52	46.35	110	90	Peak
5150	48.17	50.48	54	-5.83	34.52	9.52	46.35	110	90	Average
5300	101	102.84	-	-	34.64	9.83	46.31	110	90	Peak
5300	94.69	96.53	-	-	34.64	9.83	46.31	110	90	Average
5350	53.03	54.71	74	-20.97	34.68	9.94	46.3	110	90	Peak
5350	46.99	48.67	54	-7.01	34.68	9.94	46.3	110	90	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	53.72	55.95	74	-20.28	34.6	9.52	46.35	100	255	Peak
5150	47.8	50.03	54	-6.2	34.6	9.52	46.35	100	255	Average
5300	97.33	99.21	-	-	34.6	9.83	46.31	100	255	Peak
5300	91.28	93.16	-	-	34.6	9.83	46.31	100	255	Average
5350	54.84	56.6	74	-19.16	34.6	9.94	46.3	100	255	Peak
5350	46.97	48.73	54	-7.03	34.6	9.94	46.3	100	255	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 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	52.34	54.65	74	-21.66	34.52	9.52	46.35	110	90	Peak
5150	47.45	49.76	54	-6.55	34.52	9.52	46.35	110	90	Average
5320	100.77	102.53	-	-	34.66	9.88	46.3	110	90	Peak
5320	93.72	95.48	-	-	34.66	9.88	46.3	110	90	Average
5350	52.54	54.22	74	-21.46	34.68	9.94	46.3	110	90	Peak
5350	49.01	50.69	54	-4.99	34.68	9.94	46.3	110	90	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	53.11	55.34	74	-20.89	34.6	9.52	46.35	120	255	Peak
5150	48.04	50.27	54	-5.96	34.6	9.52	46.35	120	255	Average
5320	97.62	99.44	-	-	34.6	9.88	46.3	120	255	Peak
5320	91.09	92.91	-	-	34.6	9.88	46.3	120	255	Average
5350	54.52	56.28	74	-19.48	34.6	9.94	46.3	120	255	Peak
5350	47.57	49.33	54	-6.43	34.6	9.94	46.3	120	255	Average

REMARKS:

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



802.11n (20MHz)

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	53.34	55.65	74	-20.66	34.52	9.52	46.35	102	90	Peak
5150	48.59	50.9	54	-5.41	34.52	9.52	46.35	102	90	Average
5260	104.14	106.1	-	-	34.61	9.75	46.32	102	90	Peak
5260	97.24	99.2	-	-	34.61	9.75	46.32	102	90	Average
5350	52.7	54.38	74	-21.3	34.68	9.94	46.3	102	90	Peak
5350	47.17	48.85	54	-6.83	34.68	9.94	46.3	102	90	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	53.8	56.03	74	-20.2	34.6	9.52	46.35	100	0	Peak
5150	47.27	49.5	54	-6.73	34.6	9.52	46.35	100	0	Average
5260	97.98	99.95	-	-	34.6	9.75	46.32	100	0	Peak
5260	91.57	93.54	-	-	34.6	9.75	46.32	100	0	Average
5350	52.39	54.15	74	-21.61	34.6	9.94	46.3	100	0	Peak
5350	47.12	48.88	54	-6.88	34.6	9.94	46.3	100	0	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	53.11	55.42	74	-20.89	34.52	9.52	46.35	102	90	Peak
5150	46.77	49.08	54	-7.23	34.52	9.52	46.35	102	90	Average
5300	102.41	104.25	-	-	34.64	9.83	46.31	102	90	Peak
5300	95.29	97.13	-	-	34.64	9.83	46.31	102	90	Average
5350	55.13	56.81	74	-18.87	34.68	9.94	46.3	102	90	Peak
5350	47.12	48.8	54	-6.88	34.68	9.94	46.3	102	90	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	53.74	55.97	74	-20.26	34.6	9.52	46.35	100	255	Peak
5150	47.11	49.34	54	-6.89	34.6	9.52	46.35	100	255	Average
5300	96.74	98.62	-	-	34.6	9.83	46.31	100	255	Peak
5300	89.94	91.82	-	-	34.6	9.83	46.31	100	255	Average
5350	54.05	55.81	74	-19.95	34.6	9.94	46.3	100	255	Peak
5350	46.72	48.48	54	-7.28	34.6	9.94	46.3	100	255	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 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	52.68	54.99	74	-21.32	34.52	9.52	46.35	102	90	Peak
5150	46.86	49.17	54	-7.14	34.52	9.52	46.35	102	90	Average
5320	101.6	103.36	-	-	34.66	9.88	46.3	102	90	Peak
5320	94.45	96.21	-	-	34.66	9.88	46.3	102	90	Average
5350	53.2	54.88	74	-20.8	34.68	9.94	46.3	102	90	Peak
5350	47.69	49.37	54	-6.31	34.68	9.94	46.3	102	90	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	52.35	54.58	74	-21.65	34.6	9.52	46.35	100	255	Peak
5150	47.1	49.33	54	-6.9	34.6	9.52	46.35	100	255	Average
5320	96.32	98.14	-	-	34.6	9.88	46.3	100	255	Peak
5320	89.05	90.87	-	-	34.6	9.88	46.3	100	255	Average
5350	52.9	54.66	74	-21.1	34.6	9.94	46.3	100	255	Peak
5350	46.54	48.3	54	-7.46	34.6	9.94	46.3	100	255	Average

REMARKS:

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



802.11n (40MHz)

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	54.6	56.91	74	-19.4	34.52	9.52	46.35	100	300	Peak
5150	48.71	51.02	54	-5.29	34.52	9.52	46.35	100	300	Average
5270	102.89	104.82	-	-	34.62	9.77	46.32	100	300	Peak
5270	95.67	97.6	-	-	34.62	9.77	46.32	100	300	Average
5350	53	54.68	74	-21	34.68	9.94	46.3	100	300	Peak
5350	46.57	48.25	54	-7.43	34.68	9.94	46.3	100	300	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	52.27	54.5	74	-21.73	34.6	9.52	46.35	100	255	Peak
5150	47.73	49.96	54	-6.27	34.6	9.52	46.35	100	255	Average
5270	101.79	103.74	-	-	34.6	9.77	46.32	100	255	Peak
5270	93.69	95.64	-	-	34.6	9.77	46.32	100	255	Average
5350	52.88	54.64	74	-21.12	34.6	9.94	46.3	100	255	Peak
5350	46.52	48.28	54	-7.48	34.6	9.94	46.3	100	255	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 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	52.95	55.26	74	-21.05	34.52	9.52	46.35	100	300	Peak
5150	48.13	50.44	54	-5.87	34.52	9.52	46.35	100	300	Average
5310	99.99	101.8	-	-	34.65	9.85	46.31	100	300	Peak
5310	94.9	96.71	-	-	34.65	9.85	46.31	100	300	Average
5350	54.28	55.96	74	-19.72	34.68	9.94	46.3	100	300	Peak
5350	49.3	50.98	54	-4.7	34.68	9.94	46.3	100	300	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	54.87	57.1	74	-19.13	34.6	9.52	46.35	100	260	Peak
5150	48.36	50.59	54	-5.64	34.6	9.52	46.35	100	260	Average
5310	100.27	102.13	-	-	34.6	9.85	46.31	100	260	Peak
5310	93.63	95.49	-	-	34.6	9.85	46.31	100	260	Average
5350	54.94	56.7	74	-19.06	34.6	9.94	46.3	100	260	Peak
5350	48.6	50.36	54	-5.4	34.6	9.94	46.3	100	260	Average

REMARKS:

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



802.11ac (20MHz)

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	53.34	55.65	74	-20.66	34.52	9.52	46.35	102	90	Peak
5150	47.03	49.34	54	-6.97	34.52	9.52	46.35	102	90	Average
5260	102.43	104.39	-	-	34.61	9.75	46.32	102	90	Peak
5260	95.56	97.52	-	-	34.61	9.75	46.32	102	90	Average
5350	53.16	54.84	74	-20.84	34.68	9.94	46.3	102	90	Peak
5350	46.96	48.64	54	-7.04	34.68	9.94	46.3	102	90	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	52.95	55.18	74	-21.05	34.6	9.52	46.35	100	255	Peak
5150	47.47	49.7	54	-6.53	34.6	9.52	46.35	100	255	Average
5260	96.37	98.34	-	-	34.6	9.75	46.32	100	255	Peak
5260	90.34	92.31	-	-	34.6	9.75	46.32	100	255	Average
5350	53.99	55.75	74	-20.01	34.6	9.94	46.3	100	255	Peak
5350	46.94	48.7	54	-7.06	34.6	9.94	46.3	100	255	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	52.41	54.72	74	-21.59	34.52	9.52	46.35	102	90	Peak
5150	47.74	50.05	54	-6.26	34.52	9.52	46.35	102	90	Average
5300	101.16	103	-	-	34.64	9.83	46.31	102	90	Peak
5300	95.22	97.06	-	-	34.64	9.83	46.31	102	90	Average
5350	52.95	54.63	74	-21.05	34.68	9.94	46.3	102	90	Peak
5350	46.87	48.55	54	-7.13	34.68	9.94	46.3	102	90	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	54.53	56.76	74	-19.47	34.6	9.52	46.35	100	255	Peak
5150	47.04	49.27	54	-6.96	34.6	9.52	46.35	100	255	Average
5300	96.08	97.96	-	-	34.6	9.83	46.31	100	255	Peak
5300	89.96	91.84	-	-	34.6	9.83	46.31	100	255	Average
5350	54.41	56.17	74	-19.59	34.6	9.94	46.3	100	255	Peak
5350	47.38	49.14	54	-6.62	34.6	9.94	46.3	100	255	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	54.25	56.56	74	-19.75	34.52	9.52	46.35	100	90	Peak
5150	49.41	51.72	54	-4.59	34.52	9.52	46.35	100	90	Average
5320	99.49	101.25	-	-	34.66	9.88	46.3	100	90	Peak
5320	90.77	92.53	-	-	34.66	9.88	46.3	100	90	Average
5350	54.84	56.52	74	-19.16	34.68	9.94	46.3	100	90	Peak
5350	48.25	49.93	54	-5.75	34.68	9.94	46.3	100	90	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	54.93	57.16	74	-19.07	34.6	9.52	46.35	100	255	Peak
5150	49.24	51.47	54	-4.76	34.6	9.52	46.35	100	255	Average
5320	94.27	96.09	-	-	34.6	9.88	46.3	100	255	Peak
5320	86.99	88.81	-	-	34.6	9.88	46.3	100	255	Average
5350	54.44	56.2	74	-19.56	34.6	9.94	46.3	100	255	Peak
5350	48.36	50.12	54	-5.64	34.6	9.94	46.3	100	255	Average

REMARKS:

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



802.11ac (40MHz)

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	52.9	55.21	74	-21.1	34.52	9.52	46.35	100	300	Peak
5150	47.97	50.28	54	-6.03	34.52	9.52	46.35	100	300	Average
5270	99.19	101.12	-	-	34.62	9.77	46.32	100	300	Peak
5270	92.91	94.84	-	-	34.62	9.77	46.32	100	300	Average
5350	53.99	55.67	74	-20.01	34.68	9.94	46.3	100	300	Peak
5350	46.41	48.09	54	-7.59	34.68	9.94	46.3	100	300	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	53.48	55.71	74	-20.52	34.6	9.52	46.35	100	260	Peak
5150	47.88	50.11	54	-6.12	34.6	9.52	46.35	100	260	Average
5270	98.41	100.36	-	-	34.6	9.77	46.32	100	260	Peak
5270	91.97	93.92	-	-	34.6	9.77	46.32	100	260	Average
5350	51.94	53.7	74	-22.06	34.6	9.94	46.3	100	260	Peak
5350	45.96	47.72	54	-8.04	34.6	9.94	46.3	100	260	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 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	53.89	56.2	74	-20.11	34.52	9.52	46.35	100	300	Peak
5150	47.79	50.1	54	-6.21	34.52	9.52	46.35	100	300	Average
5310	99.96	101.77	-	-	34.65	9.85	46.31	100	300	Peak
5310	92.81	94.62	-	-	34.65	9.85	46.31	100	300	Average
5350	53.47	55.15	74	-20.53	34.68	9.94	46.3	100	300	Peak
5350	47.21	48.89	54	-6.79	34.68	9.94	46.3	100	300	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	53.42	55.65	74	-20.58	34.6	9.52	46.35	100	260	Peak
5150	48.93	51.16	54	-5.07	34.6	9.52	46.35	100	260	Average
5310	100.47	102.33	-	-	34.6	9.85	46.31	100	260	Peak
5310	92.35	94.21	-	-	34.6	9.85	46.31	100	260	Average
5350	53.26	55.02	74	-20.74	34.6	9.94	46.3	100	260	Peak
5350	46.71	48.47	54	-7.29	34.6	9.94	46.3	100	260	Average

REMARKS:

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



802.11ac (80MHz)

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	53.62	55.93	74	-20.38	34.52	9.52	46.35	135	300	Peak
5150	48.42	50.73	54	-5.58	34.52	9.52	46.35	135	300	Average
5290	95.92	97.79	-	-	34.63	9.81	46.31	135	300	Peak
5290	89.7	91.57	-	-	34.63	9.81	46.31	135	300	Average
5350	53.42	55.1	74	-20.58	34.68	9.94	46.3	135	300	Peak
5350	46.56	48.24	54	-7.44	34.68	9.94	46.3	135	300	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	54.75	56.98	74	-19.25	34.6	9.52	46.35	130	260	Peak
5150	48.57	50.8	54	-5.43	34.6	9.52	46.35	130	260	Average
5290	94.41	96.31	-	-	34.6	9.81	46.31	130	260	Peak
5290	87.06	88.96	-	-	34.6	9.81	46.31	130	260	Average
5350	52.98	54.74	74	-21.02	34.6	9.94	46.3	130	260	Peak
5350	46.61	48.37	54	-7.39	34.6	9.94	46.3	130	260	Average

REMARKS:

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



802.11ax (20MHz)

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	55.77	58.08	74	-18.23	34.52	9.52	46.35	105	90	Peak
5150	48.84	51.15	54	-5.16	34.52	9.52	46.35	105	90	Average
5260	99.42	101.38	-	-	34.61	9.75	46.32	105	90	Peak
5260	91.21	93.17	-	-	34.61	9.75	46.32	105	90	Average
5350	55.02	56.7	74	-18.98	34.68	9.94	46.3	105	90	Peak
5350	47.69	49.37	54	-6.31	34.68	9.94	46.3	105	90	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	57.27	59.5	74	-16.73	34.6	9.52	46.35	100	255	Peak
5150	49.23	51.46	54	-4.77	34.6	9.52	46.35	100	255	Average
5260	95.97	97.94	-	-	34.6	9.75	46.32	100	255	Peak
5260	87.32	89.29	-	-	34.6	9.75	46.32	100	255	Average
5350	55.21	56.97	74	-18.79	34.6	9.94	46.3	100	255	Peak
5350	48.38	50.14	54	-5.62	34.6	9.94	46.3	100	255	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	55.21	57.52	74	-18.79	34.52	9.52	46.35	100	90	Peak
5150	48.54	50.85	54	-5.46	34.52	9.52	46.35	100	90	Average
5300	100.38	102.22	-	-	34.64	9.83	46.31	100	90	Peak
5300	92.21	94.05	-	-	34.64	9.83	46.31	100	90	Average
5350	54.39	56.07	74	-19.61	34.68	9.94	46.3	100	90	Peak
5350	47.65	49.33	54	-6.35	34.68	9.94	46.3	100	90	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	55.28	57.51	74	-18.72	34.6	9.52	46.35	100	255	Peak
5150	48.74	50.97	54	-5.26	34.6	9.52	46.35	100	255	Average
5300	94.52	96.4	-	-	34.6	9.83	46.31	100	255	Peak
5300	85.26	87.14	-	-	34.6	9.83	46.31	100	255	Average
5350	55.14	56.9	74	-18.86	34.6	9.94	46.3	100	255	Peak
5350	48.04	49.8	54	-5.96	34.6	9.94	46.3	100	255	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	54.61	56.92	74	-19.39	34.52	9.52	46.35	100	90	Peak
5150	48.04	50.35	54	-5.96	34.52	9.52	46.35	100	90	Average
5320	97.91	99.67	-	-	34.66	9.88	46.3	100	90	Peak
5320	89.37	91.13	-	-	34.66	9.88	46.3	100	90	Average
5350	52.46	54.14	74	-21.54	34.68	9.94	46.3	100	90	Peak
5350	47.15	48.83	54	-6.85	34.68	9.94	46.3	100	90	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	53.89	56.12	74	-20.11	34.6	9.52	46.35	100	255	Peak
5150	48.16	50.39	54	-5.84	34.6	9.52	46.35	100	255	Average
5320	94.48	96.3	-	-	34.6	9.88	46.3	100	255	Peak
5320	87.34	89.16	-	-	34.6	9.88	46.3	100	255	Average
5350	53.65	55.41	74	-20.35	34.6	9.94	46.3	100	255	Peak
5350	47.15	48.91	54	-6.85	34.6	9.94	46.3	100	255	Average

REMARKS:

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



802.11ax (40MHz)

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	54.34	56.65	74	-19.66	34.52	9.52	46.35	135	300	Peak
5150	48.48	50.79	54	-5.52	34.52	9.52	46.35	135	300	Average
5270	100.2	102.13	-	-	34.62	9.77	46.32	135	300	Peak
5270	91.87	93.8	-	-	34.62	9.77	46.32	135	300	Average
5350	52.84	54.52	74	-21.16	34.68	9.94	46.3	135	300	Peak
5350	46.39	48.07	54	-7.61	34.68	9.94	46.3	135	300	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	53.51	55.74	74	-20.49	34.6	9.52	46.35	130	260	Peak
5150	48.11	50.34	54	-5.89	34.6	9.52	46.35	130	260	Average
5270	99.67	101.62	-	-	34.6	9.77	46.32	130	260	Peak
5270	91.03	92.98	-	-	34.6	9.77	46.32	130	260	Average
5350	51.95	53.71	74	-22.05	34.6	9.94	46.3	130	260	Peak
5350	46.37	48.13	54	-7.63	34.6	9.94	46.3	130	260	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 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	52.24	54.55	74	-21.76	34.52	9.52	46.35	130	300	Peak
5150	48.44	50.75	54	-5.56	34.52	9.52	46.35	130	300	Average
5310	99.24	101.05	-	-	34.65	9.85	46.31	130	300	Peak
5310	92.8	94.61	-	-	34.65	9.85	46.31	130	300	Average
5350	52.82	54.5	74	-21.18	34.68	9.94	46.3	130	300	Peak
5350	46.87	48.55	54	-7.13	34.68	9.94	46.3	130	300	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	54.3	56.53	74	-19.7	34.6	9.52	46.35	100	260	Peak
5150	48.75	50.98	54	-5.25	34.6	9.52	46.35	100	260	Average
5310	96.5	98.36	-	-	34.6	9.85	46.31	100	260	Peak
5310	90.68	92.54	-	-	34.6	9.85	46.31	100	260	Average
5350	52.75	54.51	74	-21.25	34.6	9.94	46.3	100	260	Peak
5350	47.43	49.19	54	-6.57	34.6	9.94	46.3	100	260	Average

REMARKS:

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



802.11ax (80MHz)

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	52.62	54.93	74	-21.38	34.52	9.52	46.35	130	300	Peak
5150	48.2	50.51	54	-5.8	34.52	9.52	46.35	130	300	Average
5290	93.95	95.82	-	-	34.63	9.81	46.31	130	300	Peak
5290	87.5	89.37	-	-	34.63	9.81	46.31	130	300	Average
5350	51.89	53.57	74	-22.11	34.68	9.94	46.3	130	300	Peak
5350	46.37	48.05	54	-7.63	34.68	9.94	46.3	130	300	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	54.39	56.62	74	-19.61	34.6	9.52	46.35	100	260	Peak
5150	48.52	50.75	54	-5.48	34.6	9.52	46.35	100	260	Average
5290	92.29	94.19	-	-	34.6	9.81	46.31	100	260	Peak
5290	86.32	88.22	-	-	34.6	9.81	46.31	100	260	Average
5350	52.37	54.13	74	-21.63	34.6	9.94	46.3	100	260	Peak
5350	46.72	48.48	54	-7.28	34.6	9.94	46.3	100	260	Average

REMARKS:

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



ABOVE 1GHz WORST-CASE DATA Ant 1:

802.11a

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	54.73	57.04	74	-19.27	34.52	9.52	46.35	100	310	Peak
5150	48.31	50.62	54	-5.69	34.52	9.52	46.35	100	310	Average
5260	92.22	94.18	-	-	34.61	9.75	46.32	100	310	Peak
5260	84.18	86.14	-	-	34.61	9.75	46.32	100	310	Average
5350	55.61	57.29	74	-18.39	34.68	9.94	46.3	100	310	Peak
5350	47.22	48.9	54	-6.78	34.68	9.94	46.3	100	310	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	55.28	57.51	74	-18.72	34.6	9.52	46.35	100	60	Peak
5150	49.56	51.79	54	-4.44	34.6	9.52	46.35	100	60	Average
5260	96.48	98.45	-	-	34.6	9.75	46.32	100	60	Peak
5260	87.7	89.67	-	-	34.6	9.75	46.32	100	60	Average
5350	53.02	54.78	74	-20.98	34.6	9.94	46.3	100	60	Peak
5350	46.97	48.73	54	-7.03	34.6	9.94	46.3	100	60	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	54.62	56.93	74	-19.38	34.52	9.52	46.35	195	310	Peak
5150	48.75	51.06	54	-5.25	34.52	9.52	46.35	195	310	Average
5300	92.1	93.94	-	-	34.64	9.83	46.31	195	310	Peak
5300	84.35	86.19	-	-	34.64	9.83	46.31	195	310	Average
5350	51.88	53.56	74	-22.12	34.68	9.94	46.3	195	310	Peak
5350	46.8	48.48	54	-7.2	34.68	9.94	46.3	195	310	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	54.66	56.89	74	-19.34	34.6	9.52	46.35	100	120	Peak
5150	48.75	50.98	54	-5.25	34.6	9.52	46.35	100	120	Average
5300	95.83	97.71	-	-	34.6	9.83	46.31	100	120	Peak
5300	88.66	90.54	-	-	34.6	9.83	46.31	100	120	Average
5350	53.04	54.8	74	-20.96	34.6	9.94	46.3	100	120	Peak
5350	47.95	49.71	54	-6.05	34.6	9.94	46.3	100	120	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 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	56	58.31	74	-18	34.52	9.52	46.35	190	310	Peak
5150	48.69	51	54	-5.31	34.52	9.52	46.35	190	310	Average
5320	92.37	94.13	-	-	34.66	9.88	46.3	190	310	Peak
5320	86.57	88.33	-	-	34.66	9.88	46.3	190	310	Average
5350	54.57	56.25	74	-19.43	34.68	9.94	46.3	190	310	Peak
5350	46.65	48.33	54	-7.35	34.68	9.94	46.3	190	310	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	55.38	57.61	74	-18.62	34.6	9.52	46.35	100	120	Peak
5150	48.89	51.12	54	-5.11	34.6	9.52	46.35	100	120	Average
5320	95.91	97.73	-	-	34.6	9.88	46.3	100	120	Peak
5320	87.23	89.05	-	-	34.6	9.88	46.3	100	120	Average
5350	53.95	55.71	74	-20.05	34.6	9.94	46.3	100	120	Peak
5350	47.87	49.63	54	-6.13	34.6	9.94	46.3	100	120	Average

REMARKS:

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



802.11n (20MHz)

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	54.08	56.39	74	-19.92	34.52	9.52	46.35	110	90	Peak
5150	47.48	49.79	54	-6.52	34.52	9.52	46.35	110	90	Average
5260	97.13	99.09	-	-	34.61	9.75	46.32	110	90	Peak
5260	89.67	91.63	-	-	34.61	9.75	46.32	110	90	Average
5350	52.81	54.49	74	-21.19	34.68	9.94	46.3	110	90	Peak
5350	46.54	48.22	54	-7.46	34.68	9.94	46.3	110	90	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	58.96	61.19	74	-15.04	34.6	9.52	46.35	100	60	Peak
5150	49.27	51.5	54	-4.73	34.6	9.52	46.35	100	60	Average
5260	98.8	100.77	-	-	34.6	9.75	46.32	100	60	Peak
5260	89.87	91.84	-	-	34.6	9.75	46.32	100	60	Average
5350	54.38	56.14	74	-19.62	34.6	9.94	46.3	100	60	Peak
5350	47.83	49.59	54	-6.17	34.6	9.94	46.3	100	60	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	51.85	54.16	74	-22.15	34.52	9.52	46.35	115	295	Peak
5150	47.36	49.67	54	-6.64	34.52	9.52	46.35	115	295	Average
5300	92.54	94.38	-	-	34.64	9.83	46.31	115	295	Peak
5300	86.26	88.1	-	-	34.64	9.83	46.31	115	295	Average
5350	53.25	54.93	74	-20.75	34.68	9.94	46.3	115	295	Peak
5350	47.04	48.72	54	-6.96	34.68	9.94	46.3	115	295	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	52.59	54.82	74	-21.41	34.6	9.52	46.35	100	65	Peak
5150	47.14	49.37	54	-6.86	34.6	9.52	46.35	100	65	Average
5300	97.2	99.08	-	-	34.6	9.83	46.31	100	65	Peak
5300	91.03	92.91	-	-	34.6	9.83	46.31	100	65	Average
5350	52.7	54.46	74	-21.3	34.6	9.94	46.3	100	65	Peak
5350	47.73	49.49	54	-6.27	34.6	9.94	46.3	100	65	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 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	53.3	55.61	74	-20.7	34.52	9.52	46.35	100	300	Peak
5150	46.85	49.16	54	-7.15	34.52	9.52	46.35	100	300	Average
5320	92.67	94.43	-	-	34.66	9.88	46.3	100	300	Peak
5320	85.16	86.92	-	-	34.66	9.88	46.3	100	300	Average
5350	53.98	55.66	74	-20.02	34.68	9.94	46.3	100	300	Peak
5350	46.59	48.27	54	-7.41	34.68	9.94	46.3	100	300	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	52.85	55.08	74	-21.15	34.6	9.52	46.35	100	65	Peak
5150	47.21	49.44	54	-6.79	34.6	9.52	46.35	100	65	Average
5320	97.02	98.84	-	-	34.6	9.88	46.3	100	65	Peak
5320	89.58	91.4	-	-	34.6	9.88	46.3	100	65	Average
5350	52.63	54.39	74	-21.37	34.6	9.94	46.3	100	65	Peak
5350	47.3	49.06	54	-6.7	34.6	9.94	46.3	100	65	Average

REMARKS:

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