

FCC TEST REPORT

(Part 15, Subpart E)

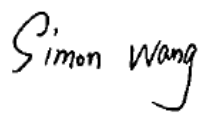
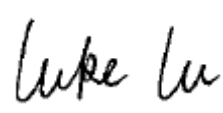
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Address:	i_Park Tauberfranken 10 97922 Lauda-Koenigshofen Germany

Manufacturer or Supplier:	i.safe MOBILE GmbH
Address:	i_Park Tauberfranken 10 97922 Lauda-Koenigshofen Germany
Product:	Mobile phone
Brand Name:	i.safe MOBILE
Model Name:	M440A01
FCC ID:	2AACZ-M440A01
Date of tests:	Apr. 01, 2024 ~ Jun. 25, 2024

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

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

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

Prepared by Simon Wang Engineer / Mobile Department	Approved by Luke Lu Manager / Mobile Department
 Date: Jun. 25, 2024	 Date: Jun. 25, 2024

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
W7L-P24030018RF03	Original release	Jun. 25, 2024

1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC PART 15, SUBPART E		
STANDARD SECTION	TEST TYPE AND LIMIT	RESULT
15.407(b)(9)	AC Power Conducted Emission	Compliance
15.407(b) (1/2/3/4/5)	Radiated Emission & Band Edge Measurement	Compliance
15.407(a/1/2/3)	Maximum conducted output Power	Compliance
15.407(a/1/2/3)	Peak Power Spectral Density	Compliance
15.407(a)(2)(12)	26 dB Bandwidth	Compliance
15.407(e)	6 dB Bandwidth	Compliance
15.203	Antenna Requirement	Compliance

NOTE:

1. Except the data of RSE and Band Edge Measurement, other data please refer to Appendix C.
2. Preliminary Investigation scans were completed to compare Full RU Tone modes and Single User Tone modes. It was found that SU modes were the worst case over Full RU-Tone mode in every instance, and the physical waveforms of SU mode and FULL RU-Tone are the same, and both FULL RU-Tone mode have lower power than SU mode. Therefore, only SU mode was report as it is representative of Full RU-Tone worst case scenario.
3. RLAN 5G supports SISO&MIMO mode, the whole testing has assessed the MIMO mode by referring to their maximum conducted power.
4. For 802.11n HT20/ ac VHT20 and 802.11n HT40 / ac VHT40 mode, the whole testing is assessed only 802.11n HT20/ HT40 by referring to their higher conducted power.
5. Only the worse data was reported.

1.1 MEASUREMENT UNCERTAINTY

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

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

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



2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Mobile phone
BRAND NAME	i.safe MOBILE
MODEL NAME	M440A01
NOMINAL VOLTAGE	5Vdc (adapter or host equipment) 3.7Vdc (Li-ion, battery)
MODULATION	OFDM, OFDMA
TRANSFER RATE	802.11a: 54.0/ 48.0/ 36.0/ 24.0/ 18.0/ 12.0/ 9.0/ 6.0Mbps 802.11n: up to 300.0Mbps 802.11ac: up to 1732Mbps 802.11ax: up to 2402Mbps
OPERATING FREQUENCY	5180 ~ 5240MHz, 5260 ~ 5320MHz, 5500 ~ 5720MHz, 5745 ~ 5825MHz
NUMBER OF CHANNEL	5180 ~ 5240MHz: 4 for 802.11a, 802.11n/ac/ax (20MHz)/ 802.11ax(20M RU 242) 2 for 802.11n/ac/ax (40MHz)/ 802.11ax(40M RU 484) 1 for 802.11ac/ax (80MHz)/ 802.11ax(80M RU996) 5260 ~ 5320MHz: 4 for 802.11a, 802.11n/ac/ax (20MHz)/ 802.11ax(20M RU 242) 2 for 802.11n/ac/ax (40MHz)/ 802.11ax(40M RU 484) 1 for 802.11ac/ax (80MHz)/ 802.11ax(80M RU 996) 5500 ~ 5720MHz: 12 for 802.11a, 802.11n/ac/ax (20MHz)/ 802.11ax(20M RU 242) 6 for 802.11n/ac/ax (40MHz)/ 802.11ax(40M RU 484) 3 for 802.11ac/ax (80MHz)/ 802.11ax(80M RU 996) 5745 ~ 5825MHz: 5 for 802.11a, 802.11n/ac/ax (20MHz)/ 802.11ax(20M RU 242) 2 for 802.11n/ac/ax (40MHz)/ 802.11ax(40M RU 484) 1 for 802.11ac/ax (80MHz)/ 802.11ax(80MRU 996)
MAX. OUTPUT POWER	28.12mW for 5180 ~ 5240MHz 27.67mW for 5260 ~ 5320MHz



	31.33mW for 5500 ~ 5720MHz 25.00mW for 5745 ~ 5825MHz
ANTENNA TYPE	PIFA Antenna
ANTENNA GAIN	ANT 8: -0.4dBi for 5180 ~ 5240MHz -0.4dBi for 5260 ~ 5320MHz -0.4dBi for 5500 ~ 5720MHz -0.4dBi for 5745 ~ 5825MHz ANT 9: -0.2dBi for 5180 ~ 5240MHz -0.2dBi for 5260 ~ 5320MHz -0.2dBi for 5500 ~ 5720MHz -0.2dBi for 5745 ~ 5825MHz
HW VERSION	V05
SW VERSION	IS440_00.00_1_20240613
I/O PORTS	Refer to user's manual
CABLE SUPPLIED	USB cable: with shielded cable, w/o ferrite core, 1.0 meter

NOTE:

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

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

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

5. List of Accessory:



Test Report No.: W7L-P24030018RF03

ACCESSORIES	BRAND	MANUFACTURER	MODEL	SPECIFICATION
AC Adapter	N/A	SHENZHEN SHI YINGYUAN POWER SUPPLY TECHNOLOGY CO., LTD.	ICP12-050-2000B	I/P: 100-240Vac, 0.5A, O/P: 5Vdc, 2A
Battery 1	N/A	FPR Connectivity Technology Inc.	BPIS440A.1A	Capacity: 3.7Vdc, 2400mAh
Battery 2	N/A	FPR Connectivity Technology Inc.	IS440.1H	Capacity: 3.7Vdc, 4800mAh
USB Cable	N/A	Winpower Technology Co., LTD	PROTECTOR 2.0	Signal Line, 1.0meter

2.2 DESCRIPTION OF TEST MODES

FOR 5180 ~ 5240MHz

4 channels are provided for 802.11a, 802.11n, 802.11ac/ax (20MHz)/ 802.11ax (20MHz RU 242):

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

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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
38	5190 MHz	46	5230 MHz

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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
42	5210 MHz		

FOR 5260 ~ 5320MHz

4 channels are provided for 802.11a, 802.11n, 802.11ac/ax (20MHz)/ 802.11ax (20MHz RU 242):

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

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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
54	5270 MHz	62	5310 MHz

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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
58	5290 MHz		

FOR 5500 ~ 5720MHz

12 channels are provided for 802.11a, 802.11n, 802.11ac/ax (20MHz)/ 802.11ax (20MHz RU 242):

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

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

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

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

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

FOR 5745 ~ 5825MHz

5 channels are provided for 802.11a, 802.11n, 802.11ac/ax (20MHz)/ 802.11ax (20MHz RU 242):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
149	5745 MHz	161	5805 MHz
153	5765 MHz	165	5825 MHz
157	5785 MHz		

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

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

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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
138	5690 MHz	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).
- ☒ The following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
A	802.11ax (80MHz)	5500-5720	106 to 138	106	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).
- ☒ The following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
A	802.11a	5180-5240	36 to 48	36, 40, 48	OFDM	6.0
A	802.11n/ac/ax (20MHz)/ 802.11ax (20MHz RU 242)		36 to 48	36, 40, 48	OFDM, OFDMA	MCS0
A	802.11n/ac/ax (40MHz)/ 802.11ax (40MHz RU 484)		38 to 46	38, 46	OFDM, OFDMA	MCS0
A	802.11ac/ax (80MHz)/ 802.11ax (80MHz RU 996)		42	42	OFDM, OFDMA	MCS0
A	802.11a	5260-5320	52 to 64	52, 60, 64	OFDM	6.0
A	802.11n/ac/ax (20MHz)/ 802.11ax (20MHz RU 242)		52 to 64	52, 60, 64	OFDM, OFDMA	MCS0
A	802.11n/ac/ax (40MHz)/ 802.11ax (40MHz RU 484)		54 to 62	54, 62	OFDM, OFDMA	MCS0
A	802.11ac/ax (80MHz)/ 802.11ax (80MHz RU 996)		58	58	OFDM, OFDMA	MCS0
A	802.11a	5500-5720	100 to 144	100, 116, 140, 144	OFDM	6.0
A	802.11n/ac/ax (20MHz)/ 802.11ax (20MHz RU 242)		100 to 144	100, 116, 140, 144	OFDM, OFDMA	MCS0
A	802.11n/ac/ax (40MHz)/ 802.11ax (40MHz RU 484)		102 to 142	102, 110, 134, 142	OFDM, OFDMA	MCS0
A	802.11ac/ax (80MHz)/ 802.11ax (80MHz RU 996)		106 to 138	106, 122, 138	OFDM, OFDMA	MCS0
A	802.11a	5745-5825	149 to 165	149, 157, 165	OFDM	6.0
A	802.11n/ac/ax (20MHz)/ 802.11ax (20MHz RU 242)		149 to 165	149, 157, 165	OFDM, OFDMA	MCS0
A	802.11n/ac/ax (40MHz)/ 802.11ax (40MHz RU 484)		151 to 159	151, 159	OFDM, OFDMA	MCS0
A	802.11ac/ax (80MHz)/ 802.11ax (80MHz RU 996)		155	155	OFDM, OFDMA	MCS0



POWER LINE CONDUCTED EMISSION TEST:

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

EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
A	802.11ax (80MHz)	5500-5720	106 to 138	106	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).
- ☒ The following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
A	802.11a	5180-5240	36 to 48	36, 40, 48	OFDM	6.0
A	802.11n/ac/ax (20MHz)/ 802.11ax (20MHz RU 242)		36 to 48	36, 40, 48	OFDM, OFDMA	MCS0
A	802.11n/ac/ax (40MHz)/ 802.11ax (40MHz RU 484)		38 to 46	38, 46	OFDM, OFDMA	MCS0
A	802.11ac/ax (80MHz)/ 802.11ax (80MHz RU 996)		42	42	OFDM, OFDMA	MCS0
A	802.11a	5260-5320	52 to 64	52, 60, 64	OFDM	6.0
A	802.11n/ac/ax (20MHz)/ 802.11ax (20MHz RU 242)		52 to 64	52, 60, 64	OFDM, OFDMA	MCS0
A	802.11n/ac/ax (40MHz)/ 802.11ax (40MHz RU 484)		54 to 62	54, 62	OFDM, OFDMA	MCS0
A	802.11ac/ax (80MHz)/ 802.11ax (80MHz RU 996)		58	58	OFDM, OFDMA	MCS0
A	802.11a	5500-5720	100 to 144	100, 116, 140, 144	OFDM	6.0
A	802.11n/ac/ax (20MHz)/ 802.11ax (20MHz RU 242)		100 to 144	100, 116, 140, 144	OFDM, OFDMA	MCS0
A	802.11n/ac/ax (40MHz)/ 802.11ax (40MHz RU 484)		102 to 142	102, 110, 134, 142	OFDM, OFDMA	MCS0
A	802.11ac/ax (80MHz)/ 802.11ax (80MHz RU 996)		106 to 138	106, 122, 138	OFDM, OFDMA	MCS0



	996)					
A	802.11a	5745-5825	149 to 165	149, 157, 165	OFDM	6.0
A	802.11n/ac/ax (20MHz)/ 802.11ax (20MHz RU 242)		149 to 165	149, 157, 165	OFDM, OFDMA	MCS0
A	802.11n/ac/ax (40MHz)/ 802.11ax (40MHz RU 484)		151 to 159	151, 159	OFDM, OFDMA	MCS0
A	802.11ac/ax (80MHz)/ 802.11ax (80MHz RU 996)		155	155	OFDM, OFDMA	MCS0

ANTENNA PORT CONDUCTED MEASUREMENT:

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ The following channel(s) was (were) selected for the final test as listed below.
- ☒ Only the power test item is tested for the FULL RU(802.11ax RU 242/484/996/2*996), the remaining test items are configured as follows.

EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
B	802.11a	5180-5240	36 to 48	36, 40, 48	OFDM	6.0
B	802.11n/ac/ax (20MHz)/ 802.11ax (20MHz RU 242)		36 to 48	36, 40, 48	OFDM, OFDMA	MCS0
B	802.11n/ac/ax (40MHz)/ 802.11ax (40MHz RU 484)		38 to 46	38, 46	OFDM, OFDMA	MCS0
B	802.11ac/ax (80MHz)/ 802.11ax (80MHz RU 996)		42	42	OFDM, OFDMA	MCS0
B	802.11a	5260-5320	52 to 64	52, 60, 64	OFDM	6.0
B	802.11n/ac/ax (20MHz)/ 802.11ax (20MHz RU 242)		52 to 64	52, 60, 64	OFDM, OFDMA	MCS0
B	802.11n/ac/ax (40MHz)/ 802.11ax (40MHz RU 484)		54 to 62	54, 62	OFDM, OFDMA	MCS0
B	802.11ac/ax (80MHz)/ 802.11ax (80MHz RU 996)		58	58	OFDM, OFDMA	MCS0
B	802.11a	5500-5720	100 to 144	100, 116, 140, 144	OFDM	6.0
B	802.11n/ac/ax (20MHz)/ 802.11ax (20MHz RU 242)		100 to 144	100, 116, 140, 144	OFDM, OFDMA	MCS0



B	802.11n/ac/ax (40MHz)/ 802.11ax (40MHz RU 484)		102 to 142	102, 110, 134, 142	OFDM, OFDMA	MCS0
B	802.11ac/ax (80MHz)/ 802.11ax (80MHz RU 996)		106 to 138	106, 122, 138	OFDM, OFDMA	MCS0
B	802.11a	5745-5825	149 to 165	149, 157, 165	OFDM	6.0
B	802.11n/ac/ax (20MHz)/ 802.11ax (20MHz RU 242)		149 to 165	149, 157, 165	OFDM, OFDMA	MCS0
B	802.11n/ac/ax (40MHz)/ 802.11ax (40MHz RU 484)		151 to 159	151, 159	OFDM, OFDMA	MCS0
B	802.11ac/ax (80MHz)/ 802.11ax (80MHz RU 996)		155	155	OFDM, OFDMA	MCS0

TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
RE<1G	23deg. C, 70%RH	DC 5V By Adapter	Jace Hu
RE≥1G	23deg. C, 70%RH	DC 5V By Adapter	Jace Hu
PLC	25deg. C, 52%RH	DC 5V By Adapter	James Fu
APCM	25deg. C, 60%RH	DC 3.7V By Battery	James Fu



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2.3 DUTY CYCLE OF TEST SIGNAL

Please Refer to Appendix C.

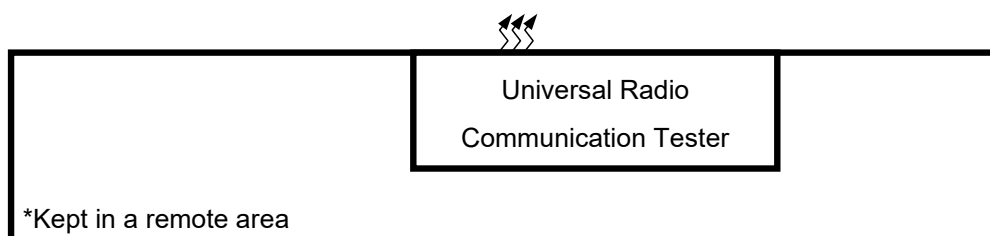
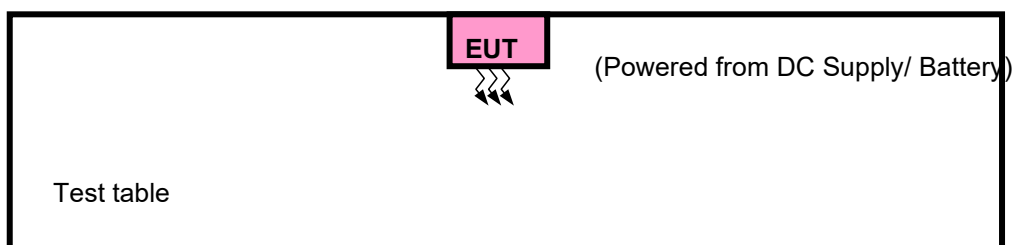
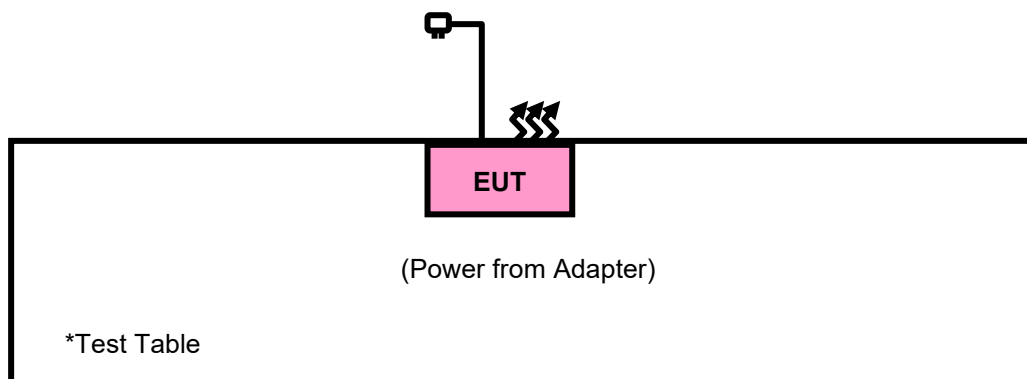
2.4 DESCRIPTION OF SUPPORT UNITS

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

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

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

2.4.1 CONFIGURATION OF SYSTEM UNDER TEST



2.5 GENERAL DESCRIPTION OF APPLIED STANDARDS

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

FCC Part 15, Subpart E (15.407)

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

ANSI C63.10-2020

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

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

3 TEST TYPES AND RESULTS

3.1 RADIATED EMISSION AND BANDEDGE MEASUREMENT

3.1.1 LIMITS OF RADIATED EMISSION AND BANDEDGE MEASUREMENT

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

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

NOTE:

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

3.1.2 LIMITS OF UNWANTED EMISSION

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

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

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	Nov. 14,23	Nov. 13,26
Bilog Antenna	ETS-LINDGREN	3143B	00161965	Feb. 18,24	Feb. 17,25
Horn Antenna	ETS-LINDGREN	3117	00168692	Feb. 18,24	Feb. 17,25
Horn Antenna (18GHz-40GHz)	N/A	QWH-SL-18-40-K-SG/QMS-00361	15433	Sep.04, 23	Sep.03, 24
Test Software	E3	V 9.160323	N/A	N/A	N/A
Test Software	JS1120-3	3.2.06	N/A	N/A	N/A
10dB Attenuator	JFW/USA	50HF-010-SMA	N/A	May. 06,23	May. 05,24
10dB Attenuator	JFW/USA	50HF-010-SMA	N/A	May. 05,24	May. 04,25
MXE EMI Receiver	KEYSIGHT	N9038A-544	MY54450026	Mar. 28,24	Mar. 27,25
Signal Pre-Amplifier	EMSI	EMC 9135	980249	May. 06,23	May. 05,24
Signal Pre-Amplifier	EMSI	EMC 9135	980249	May. 05,24	May. 04,25
Signal Pre-Amplifier	EMSI	EMC 012645B	980257	May.10,23	May.09,24
Signal Pre-Amplifier	EMSI	EMC 012645B	980257	May.09,24	May.08,25
Signal Pre-Amplifier	EMSI	EMC 184045B	980259	Feb. 17,24	Feb. 16,25
DC Source	Kikusui/JP	PMX18-5A	0000001	Aug. 12,23	Aug. 11,24
Power Meter	Anritsu	ML2495A	1506002	Feb. 14,24	Feb. 13,25
Power Sensor	Anritsu	MA2411B	1339352	Feb. 14,24	Feb. 13,25
Loop Antenna	Schwarzbeck	FMZB 1519B	00173	Sep.03,23	Sep.02,24

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

3.1.4 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 0.8 meters (for below 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3-meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise, the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

NOTE:

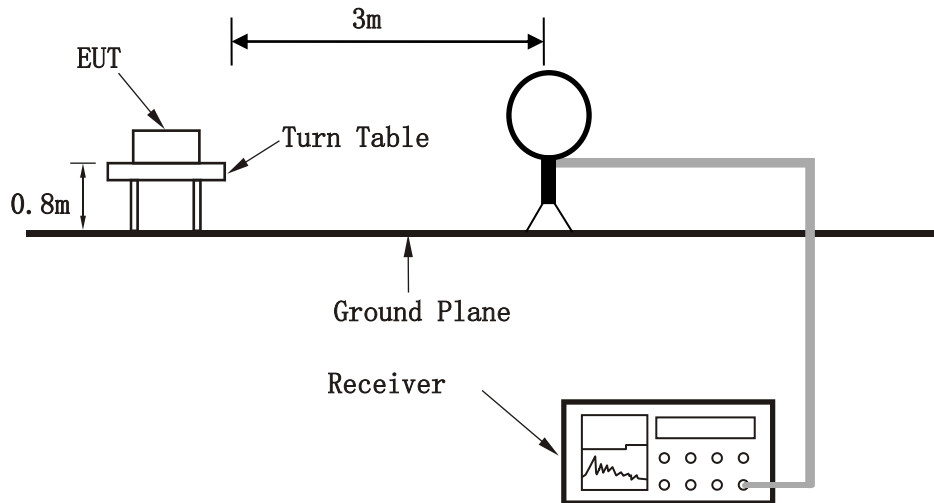
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency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

3.1.5 DEVIATION FROM TEST STANDARD

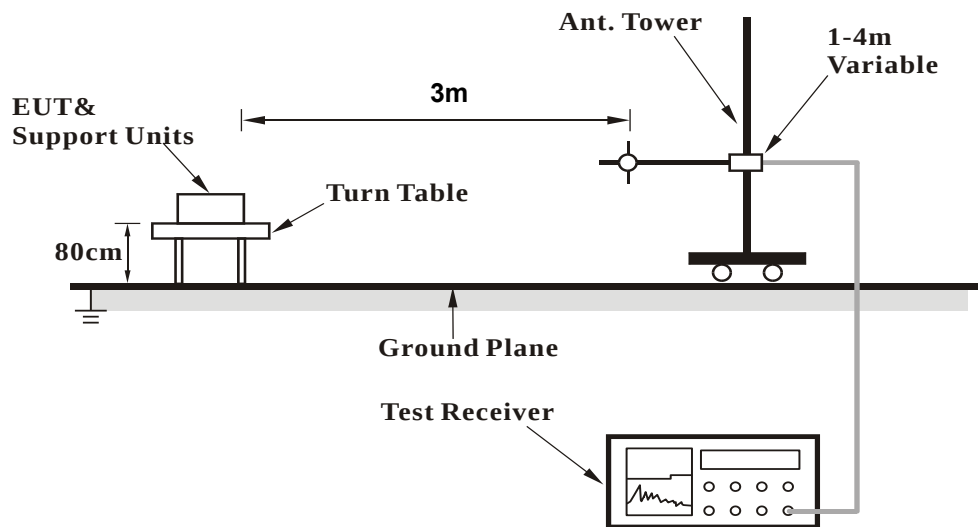
No deviation.

3.1.6 TEST SETUP

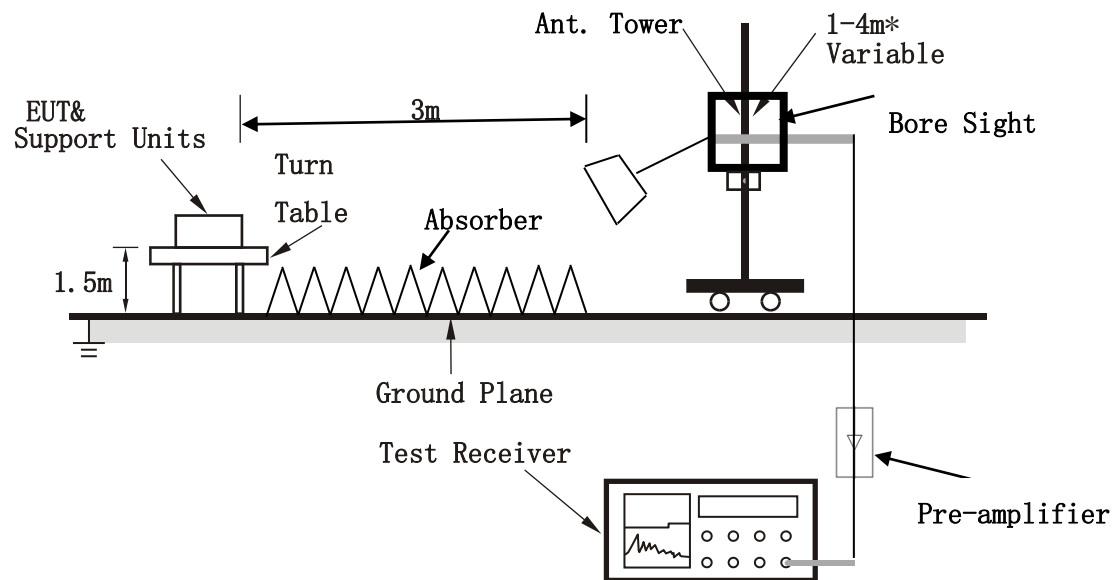
<Frequency Range 9KHz~30MHz >



< Frequency Range 30MHz~1GHz >



<Frequency Range above 1GHz>



Note: Above 1G is a directional antenna

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

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

3.1.7 EUT OPERATING CONDITION

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



3.1.8 TEST RESULTS

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

30 MHz – 1GHz data:

Band 3

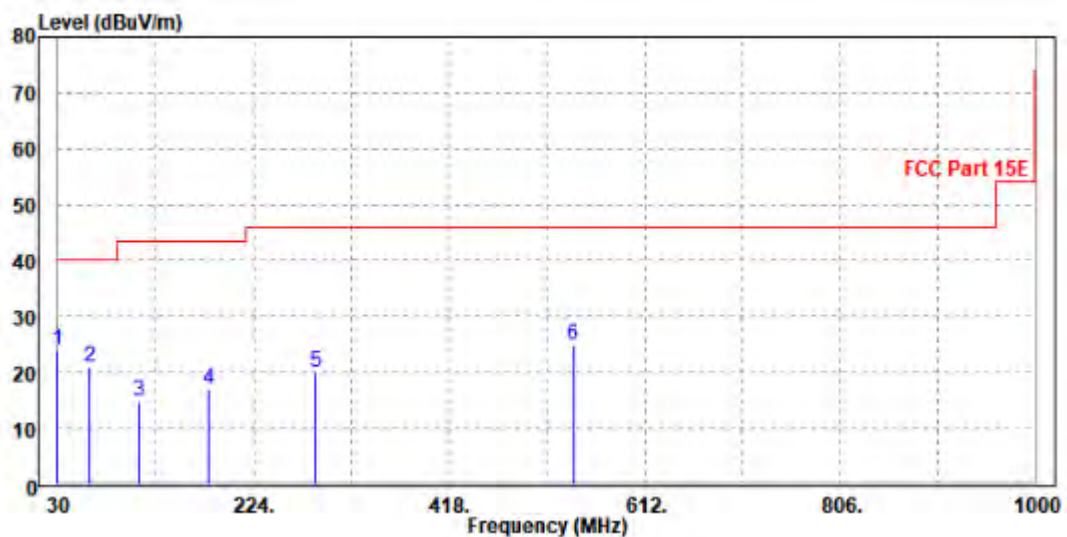
802.11ax (80MHz):

CHANNEL	TX Channel 106	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
30	24.01	34.85	40	-15.99	20.4	6.13	37.37	100	360	Peak
61.04	20.9	44.52	40	-19.1	7.36	6.31	37.29	100	360	Peak
110.51	15.04	37.1	43.5	-28.46	8.35	6.58	36.99	100	360	Peak
179.38	17.1	35.71	43.5	-26.4	11.24	6.85	36.7	100	360	Peak
286.08	19.93	35.16	46	-26.07	14.11	7.27	36.61	100	360	Peak
541.19	25.04	34.73	46	-20.96	19.36	8.06	37.11	100	360	Peak

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.



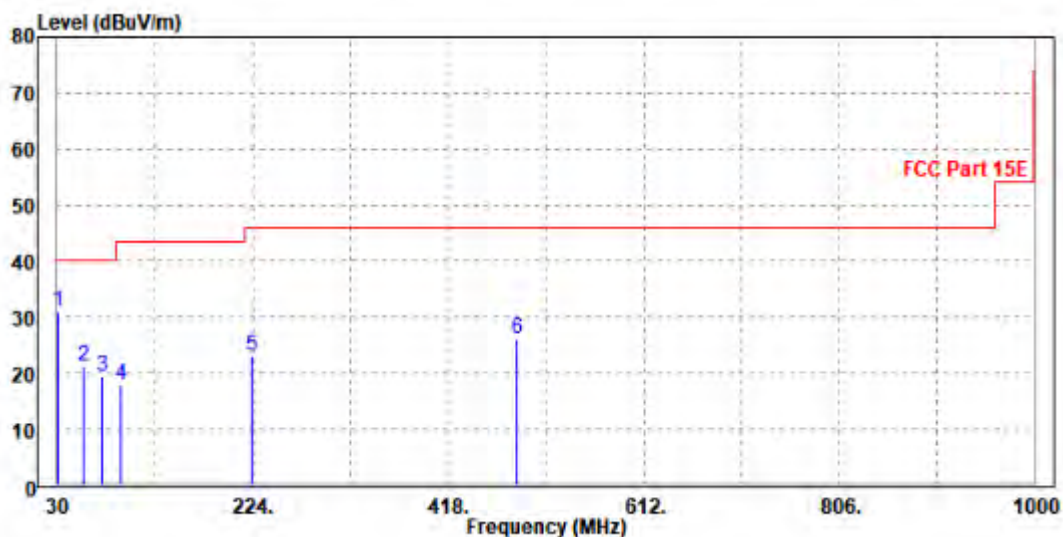


CHANNEL	Channel 106	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
30.97	30.95	41.94	40	-9.05	20.24	6.14	37.37	100	0	Peak
56.19	21.31	44.44	40	-18.69	7.93	6.3	37.36	100	0	Peak
74.62	19.59	42.66	40	-20.41	7.58	6.41	37.06	100	0	Peak
94.02	17.92	40.22	43.5	-25.58	8.2	6.52	37.02	100	0	Peak
223.03	23.01	39.26	46	-22.99	13.3	7.07	36.62	100	0	Peak
486.87	26.12	36.01	46	-19.88	19.25	7.9	37.04	100	0	Peak

REMARKS:

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





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ABOVE 1GHz WORST-CASE DATA:

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

Band 1

802.11a

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	53.06	54.15	74.00	-20.94	34.26	11.17	46.52	100	320	Peak
5150	45.49	46.58	54.00	-8.51	34.26	11.17	46.52	100	320	Average
5180	105.42	106.48	/	/	34.27	11.20	46.53	100	320	Peak
5180	97.86	98.92	/	/	34.27	11.20	46.53	100	320	Average
5350	52.42	53.27	74.00	-21.58	34.34	11.39	46.58	100	320	Peak
5350	45.25	46.10	54.00	-8.75	34.34	11.39	46.58	100	320	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	54.30	55.23	74.00	-19.70	34.42	11.17	46.52	100	25	Peak
5150	45.86	46.79	54.00	-8.14	34.42	11.17	46.52	100	25	Average
5180	103.99	104.88	/	/	34.44	11.20	46.53	100	25	Peak
5180	92.90	93.79	/	/	34.44	11.20	46.53	100	25	Average
5350	54.04	54.65	74.00	-19.96	34.58	11.39	46.58	100	25	Peak
5350	45.63	46.24	54.00	-8.37	34.58	11.39	46.58	100	25	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	52.26	53.35	74.00	-21.74	34.26	11.17	46.52	100	320	Peak
5150	45.53	46.62	54.00	-8.47	34.26	11.17	46.52	100	320	Average
5200	105.06	106.10	/	/	34.28	11.22	46.54	100	320	Peak
5200	97.62	98.66	/	/	34.28	11.22	46.54	100	320	Average
5350	53.66	54.51	74.00	-20.34	34.34	11.39	46.58	100	320	Peak
5350	45.27	46.12	54.00	-8.73	34.34	11.39	46.58	100	320	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	52.13	53.06	74.00	-21.87	34.42	11.17	46.52	100	25	Peak
5150	45.32	46.25	54.00	-8.68	34.42	11.17	46.52	100	25	Average
5200	103.80	104.66	/	/	34.46	11.22	46.54	100	25	Peak
5200	92.82	93.68	/	/	34.46	11.22	46.54	100	25	Average
5350	52.23	52.84	74.00	-21.77	34.58	11.39	46.58	100	25	Peak
5350	45.69	46.30	54.00	-8.31	34.58	11.39	46.58	100	25	Average

REMARKS:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	52.37	53.46	74.00	-21.63	34.26	11.17	46.52	100	320	Peak
5150	45.34	46.43	54.00	-8.66	34.26	11.17	46.52	100	320	Average
5240	104.64	105.62	/	/	34.30	11.27	46.55	100	320	Peak
5240	97.22	98.20	/	/	34.30	11.27	46.55	100	320	Average
5350	53.80	54.65	74.00	-20.20	34.34	11.39	46.58	100	320	Peak
5350	45.53	46.38	54.00	-8.47	34.34	11.39	46.58	100	320	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	52.80	53.73	74.00	-21.20	34.42	11.17	46.52	100	25	Peak
5150	45.47	46.40	54.00	-8.53	34.42	11.17	46.52	100	25	Average
5240	103.53	104.32	/	/	34.49	11.27	46.55	100	25	Peak
5240	94.84	95.63	/	/	34.49	11.27	46.55	100	25	Average
5350	53.61	54.22	74.00	-20.39	34.58	11.39	46.58	100	25	Peak
5350	45.64	46.25	54.00	-8.36	34.58	11.39	46.58	100	25	Average

REMARKS:

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



**BUREAU
VERITAS**

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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	53.15	54.24	74.00	-20.85	34.26	11.17	46.52	100	320	Peak
5150	45.37	46.46	54.00	-8.63	34.26	11.17	46.52	100	320	Average
5180	102.71	103.77	/	/	34.27	11.20	46.53	100	320	Peak
5180	95.36	96.42	/	/	34.27	11.20	46.53	100	320	Average
5350	52.56	53.41	74.00	-21.44	34.34	11.39	46.58	100	320	Peak
5350	45.49	46.34	54.00	-8.51	34.34	11.39	46.58	100	320	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	53.30	54.23	74.00	-20.70	34.42	11.17	46.52	100	20	Peak
5150	46.49	47.42	54.00	-7.51	34.42	11.17	46.52	100	20	Average
5180	101.53	102.42	/	/	34.44	11.20	46.53	100	20	Peak
5180	94.06	94.95	/	/	34.44	11.20	46.53	100	20	Average
5350	54.60	55.21	74.00	-19.40	34.58	11.39	46.58	100	20	Peak
5350	45.59	46.20	54.00	-8.41	34.58	11.39	46.58	100	20	Average

REMARKS:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	54.19	55.28	74.00	-19.81	34.26	11.17	46.52	100	320	Peak
5150	45.48	46.57	54.00	-8.52	34.26	11.17	46.52	100	320	Average
5200	102.45	103.49	/	/	34.28	11.22	46.54	100	320	Peak
5200	94.65	95.69	/	/	34.28	11.22	46.54	100	320	Average
5350	52.80	53.65	74.00	-21.20	34.34	11.39	46.58	100	320	Peak
5350	46.00	46.85	54.00	-8.00	34.34	11.39	46.58	100	320	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	54.44	74.00	-20.49	34.42	11.17	46.52	100	20	Peak
5150	45.60	46.53	54.00	-8.40	34.42	11.17	46.52	100	20	Average
5200	100.87	101.73	/	/	34.46	11.22	46.54	100	20	Peak
5200	93.44	94.30	/	/	34.46	11.22	46.54	100	20	Average
5350	54.26	54.87	74.00	-19.74	34.58	11.39	46.58	100	20	Peak
5350	45.41	46.02	54.00	-8.59	34.58	11.39	46.58	100	20	Average

REMARKS:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	52.46	53.55	74.00	-21.54	34.26	11.17	46.52	100	320	Peak
5150	45.58	46.67	54.00	-8.42	34.26	11.17	46.52	100	320	Average
5240	102.89	103.87	/	/	34.30	11.27	46.55	100	320	Peak
5240	94.65	95.63	/	/	34.30	11.27	46.55	100	320	Average
5350	53.69	54.54	74.00	-20.31	34.34	11.39	46.58	100	320	Peak
5350	45.48	46.33	54.00	-8.52	34.34	11.39	46.58	100	320	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	52.31	53.24	74.00	-21.69	34.42	11.17	46.52	100	20	Peak
5150	45.62	46.55	54.00	-8.38	34.42	11.17	46.52	100	20	Average
5240	100.66	101.45	/	/	34.49	11.27	46.55	100	20	Peak
5240	93.42	94.21	/	/	34.49	11.27	46.55	100	20	Average
5350	54.04	54.65	74.00	-19.96	34.58	11.39	46.58	100	20	Peak
5350	45.69	46.30	54.00	-8.31	34.58	11.39	46.58	100	20	Average

REMARKS:

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



**BUREAU
VERITAS**

Test Report No.: W7L-P24030018RF03

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	52.14	53.23	74.00	-21.86	34.26	11.17	46.52	100	320	Peak
5150	45.74	46.83	54.00	-8.26	34.26	11.17	46.52	100	320	Average
5190	98.33	99.37	/	/	34.28	11.21	46.53	100	320	Peak
5190	92.53	93.57	/	/	34.28	11.21	46.53	100	320	Average
5350	51.81	52.66	74.00	-22.19	34.34	11.39	46.58	100	320	Peak
5350	45.25	46.10	54.00	-8.75	34.34	11.39	46.58	100	320	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	51.60	52.53	74.00	-22.40	34.42	11.17	46.52	100	20	Peak
5150	45.59	46.52	54.00	-8.41	34.42	11.17	46.52	100	20	Average
5190	96.74	97.61	/	/	34.45	11.21	46.53	100	20	Peak
5190	90.40	91.27	/	/	34.45	11.21	46.53	100	20	Average
5350	50.97	51.58	74.00	-23.03	34.58	11.39	46.58	100	20	Peak
5350	45.73	46.34	54.00	-8.27	34.58	11.39	46.58	100	20	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 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	51.02	52.11	74.00	-22.98	34.26	11.17	46.52	100	320	Peak
5150	45.48	46.57	54.00	-8.52	34.26	11.17	46.52	100	320	Average
5230	98.55	99.54	/	/	34.29	11.26	46.54	100	320	Peak
5230	92.25	93.24	/	/	34.29	11.26	46.54	100	320	Average
5350	51.18	52.03	74.00	-22.82	34.34	11.39	46.58	100	320	Peak
5350	45.36	46.21	54.00	-8.64	34.34	11.39	46.58	100	320	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	51.39	52.32	74.00	-22.61	34.42	11.17	46.52	100	20	Peak
5150	45.46	46.39	54.00	-8.54	34.42	11.17	46.52	100	20	Average
5230	97.28	98.08	/	/	34.48	11.26	46.54	100	20	Peak
5230	90.96	91.76	/	/	34.48	11.26	46.54	100	20	Average
5350	53.25	53.86	74.00	-20.75	34.58	11.39	46.58	100	20	Peak
5350	45.64	46.25	54.00	-8.36	34.58	11.39	46.58	100	20	Average

REMARKS:

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



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Test Report No.: W7L-P24030018RF03

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	52.64	53.73	74.00	-21.36	34.26	11.17	46.52	1000	320	Peak
5150	46.09	47.18	54.00	-7.91	34.26	11.17	46.52	1000	320	Average
5180	104.81	105.87	/	/	34.27	11.20	46.53	1000	320	Peak
5180	94.25	95.31	/	/	34.27	11.20	46.53	1000	320	Average
5350	53.35	54.20	74.00	-20.65	34.34	11.39	46.58	1000	320	Peak
5350	45.46	46.31	54.00	-8.54	34.34	11.39	46.58	1000	320	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	52.06	52.99	74.00	-21.94	34.42	11.17	46.52	100	20	Peak
5150	45.65	46.58	54.00	-8.35	34.42	11.17	46.52	100	20	Average
5180	102.88	103.77	/	/	34.44	11.20	46.53	100	20	Peak
5180	92.67	93.56	/	/	34.44	11.20	46.53	100	20	Average
5350	53.82	54.43	74.00	-20.18	34.58	11.39	46.58	100	20	Peak
5350	45.71	46.32	54.00	-8.29	34.58	11.39	46.58	100	20	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	50.87	51.96	74.00	-23.13	34.26	11.17	46.52	100	320	Peak
5150	45.21	46.30	54.00	-8.79	34.26	11.17	46.52	100	320	Average
5200	103.10	104.12	/	/	34.28	11.24	46.54	100	320	Peak
5200	93.72	94.76	/	/	34.28	11.22	46.54	100	320	Average
5350	51.49	52.34	74.00	-22.51	34.34	11.39	46.58	100	320	Peak
5350	45.30	46.15	54.00	-8.70	34.34	11.39	46.58	100	320	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	52.04	52.97	74.00	-21.96	34.42	11.17	46.52	100	20	Peak
5150	45.31	46.24	54.00	-8.69	34.42	11.17	46.52	100	20	Average
5200	101.04	101.90	/	/	34.46	11.22	46.54	100	20	Peak
5200	92.16	93.02	/	/	34.46	11.22	46.54	100	20	Average
5350	52.08	52.69	74.00	-21.92	34.58	11.39	46.58	100	20	Peak
5350	45.45	46.06	54.00	-8.55	34.58	11.39	46.58	100	20	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	54.54	55.63	74.00	-19.46	34.26	11.17	46.52	100	320	Peak
5150	45.43	46.52	54.00	-8.57	34.26	11.17	46.52	100	320	Average
5240	102.17	103.15	/	/	34.30	11.27	46.55	100	320	Peak
5240	93.60	94.58	/	/	34.30	11.27	46.55	100	320	Average
5350	53.41	54.26	74.00	-20.59	34.34	11.39	46.58	100	320	Peak
5350	45.46	46.31	54.00	-8.54	34.34	11.39	46.58	100	320	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	52.23	53.16	74.00	-21.77	34.42	11.17	46.52	100	20	Peak
5150	45.46	46.39	54.00	-8.54	34.42	11.17	46.52	100	20	Average
5240	100.95	101.74	/	/	34.49	11.27	46.55	100	20	Peak
5240	92.28	93.07	/	/	34.49	11.27	46.55	100	20	Average
5350	53.12	53.73	74.00	-20.88	34.58	11.39	46.58	100	20	Peak
5350	45.62	46.23	54.00	-8.38	34.58	11.39	46.58	100	20	Average

REMARKS:

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



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Test Report No.: W7L-P24030018RF03

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	52.66	53.75	74.00	-21.34	34.26	11.17	46.52	100	320	Peak
5150	45.75	46.84	54.00	-8.25	34.26	11.17	46.52	100	320	Average
5190	99.36	100.40	/	/	34.28	11.21	46.53	100	320	Peak
5190	91.62	92.66	/	/	34.28	11.21	46.53	100	320	Average
5350	52.77	53.62	74.00	-21.23	34.34	11.39	46.58	100	320	Peak
5350	45.54	46.39	54.00	-8.46	34.34	11.39	46.58	100	320	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	51.01	51.94	74.00	-22.99	34.42	11.17	46.52	100	20	Peak
5150	45.80	46.73	54.00	-8.20	34.42	11.17	46.52	100	20	Average
5190	98.56	99.43	/	/	34.45	11.21	46.53	100	20	Peak
5190	89.43	90.30	/	/	34.45	11.21	46.53	100	20	Average
5350	50.57	51.18	74.00	-23.43	34.58	11.39	46.58	100	20	Peak
5350	45.83	46.44	54.00	-8.17	34.58	11.39	46.58	100	20	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 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	51.37	52.46	74.00	-22.63	34.26	11.17	46.52	100	320	Peak
5150	45.57	46.66	54.00	-8.43	34.26	11.17	46.52	100	320	Average
5230	100.14	101.13	/	/	34.29	11.26	46.54	100	320	Peak
5230	92.29	93.28	/	/	34.29	11.26	46.54	100	320	Average
5350	51.84	52.69	74.00	-22.16	34.34	11.39	46.58	100	320	Peak
5350	45.64	46.49	54.00	-8.36	34.34	11.39	46.58	100	320	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	52.03	52.96	74.00	-21.97	34.42	11.17	46.52	100	20	Peak
5150	45.59	46.52	54.00	-8.41	34.42	11.17	46.52	100	20	Average
5230	97.94	98.74	/	/	34.48	11.26	46.54	100	20	Peak
5230	89.99	90.79	/	/	34.48	11.26	46.54	100	20	Average
5350	51.46	52.07	74.00	-22.54	34.58	11.39	46.58	100	20	Peak
5350	45.78	46.39	54.00	-8.22	34.58	11.39	46.58	100	20	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 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	51.62	52.71	74.00	-22.38	34.26	11.17	46.52	100	320	Peak
5150	45.87	46.96	54.00	-8.13	34.26	11.17	46.52	100	320	Average
5210	95.75	96.77	/	/	34.28	11.24	46.54	100	320	Peak
5210	87.44	88.46	/	/	34.28	11.24	46.54	100	320	Average
5350	51.34	52.19	74.00	-22.66	34.34	11.39	46.58	100	320	Peak
5350	45.42	46.27	54.00	-8.58	34.34	11.39	46.58	100	320	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	51.68	52.61	74.00	-22.32	34.42	11.17	46.52	100	20	Peak
5150	45.86	46.79	54.00	-8.14	34.42	11.17	46.52	100	20	Average
5210	93.30	94.13	/	/	34.47	11.24	46.54	100	20	Peak
5210	86.07	86.90	/	/	34.47	11.24	46.54	100	20	Average
5350	51.33	51.94	74.00	-22.67	34.58	11.39	46.58	100	20	Peak
5350	45.68	46.29	54.00	-8.32	34.58	11.39	46.58	100	20	Average

REMARKS:

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



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Test Report No.: W7L-P24030018RF03

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	52.25	53.34	74.00	-21.75	34.26	11.17	46.52	100	320	Peak
5150	45.78	46.87	54.00	-8.22	34.26	11.17	46.52	100	320	Average
5210	93.21	94.23	/	/	34.28	11.24	46.54	100	320	Peak
5210	87.21	88.23	/	/	34.28	11.24	46.54	100	320	Average
5350	52.44	53.29	74.00	-21.56	34.34	11.39	46.58	100	320	Peak
5350	45.43	46.28	54.00	-8.57	34.34	11.39	46.58	100	320	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	52.72	53.65	74.00	-21.28	34.42	11.17	46.52	100	20	Peak
5150	45.84	46.77	54.00	-8.16	34.42	11.17	46.52	100	20	Average
5210	92.14	92.97	/	/	34.47	11.24	46.54	100	20	Peak
5210	85.33	86.16	/	/	34.47	11.24	46.54	100	20	Average
5350	51.72	52.33	74.00	-22.28	34.58	11.39	46.58	100	20	Peak
5350	45.47	46.08	54.00	-8.53	34.58	11.39	46.58	100	20	Average

REMARKS:

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



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VERITAS**

Test Report No.: W7L-P24030018RF03

5G WIFI-RU

802.11ax (20MHz) (RU242):

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	52.56	53.65	74.00	-21.44	34.26	11.17	46.52	115	325	Peak
5150	45.76	46.85	54.00	-8.24	34.26	11.17	46.52	115	325	Average
5180	104.70	105.76	/	/	34.27	11.20	46.53	115	325	Peak
5180	94.24	95.30	/	/	34.27	11.20	46.53	115	325	Average
5350	51.60	52.45	74.00	-22.40	34.34	11.39	46.58	115	325	Peak
5350	45.13	45.98	54.00	-8.87	34.34	11.39	46.58	115	325	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	53.25	54.18	74.00	-20.75	34.42	11.17	46.52	100	25	Peak
5150	45.38	46.31	54.00	-8.62	34.42	11.17	46.52	100	25	Average
5180	101.77	102.66	/	/	34.44	11.20	46.53	100	25	Peak
5180	92.01	92.90	/	/	34.44	11.20	46.53	100	25	Average
5350	52.18	52.79	74.00	-21.82	34.58	11.39	46.58	100	25	Peak
5350	45.42	46.03	54.00	-8.58	34.58	11.39	46.58	100	25	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	53.03	54.12	74.00	-20.97	34.26	11.17	46.52	115	325	Peak
5150	44.96	46.05	54.00	-9.04	34.26	11.17	46.52	115	325	Average
5200	103.81	104.85	/	/	34.28	11.22	46.54	115	325	Peak
5200	93.62	94.66	/	/	34.28	11.22	46.54	115	325	Average
5350	52.80	53.65	74.00	-21.20	34.34	11.39	46.58	115	325	Peak
5350	44.93	45.78	54.00	-9.07	34.34	11.39	46.58	115	325	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	52.72	53.65	74.00	-21.28	34.42	11.17	46.52	100	25	Peak
5150	45.49	46.42	54.00	-8.51	34.42	11.17	46.52	100	25	Average
5200	101.02	101.88	/	/	34.46	11.22	46.54	100	25	Peak
5200	91.71	92.57	/	/	34.46	11.22	46.54	100	25	Average
5350	51.88	52.49	74.00	-22.12	34.58	11.39	46.58	100	25	Peak
5350	45.08	45.69	54.00	-8.92	34.58	11.39	46.58	100	25	Average

REMARKS:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	52.15	53.24	74.00	-21.85	34.26	11.17	46.52	115	325	Peak
5150	45.05	46.14	54.00	-8.95	34.26	11.17	46.52	115	325	Average
5240	104.35	105.33	/	/	34.30	11.27	46.55	115	325	Peak
5240	93.26	94.24	/	/	34.30	11.27	46.55	115	325	Average
5350	52.23	53.08	74.00	-21.77	34.34	11.39	46.58	115	325	Peak
5350	45.13	45.98	54.00	-8.87	34.34	11.39	46.58	115	325	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	53.41	54.34	74.00	-20.59	34.42	11.17	46.52	100	25	Peak
5150	45.23	46.16	54.00	-8.77	34.42	11.17	46.52	100	25	Average
5240	101.65	102.44	/	/	34.49	11.27	46.55	100	25	Peak
5240	92.00	92.79	/	/	34.49	11.27	46.55	100	25	Average
5350	54.57	55.18	74.00	-19.43	34.58	11.39	46.58	100	25	Peak
5350	45.33	45.94	54.00	-8.67	34.58	11.39	46.58	100	25	Average

REMARKS:

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



**BUREAU
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Test Report No.: W7L-P24030018RF03

802.11ax (40MHz) (RU484):

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	53.54	54.63	74.00	-20.46	34.26	11.17	46.52	115	325	Peak
5150	45.15	46.24	54.00	-8.85	34.26	11.17	46.52	115	325	Average
5190	100.45	101.49	/	/	34.28	11.21	46.53	115	325	Peak
5190	91.09	92.13	/	/	34.28	11.21	46.53	115	325	Average
5350	52.16	53.01	74.00	-21.84	34.34	11.39	46.58	115	325	Peak
5350	44.96	45.81	54.00	-9.04	34.34	11.39	46.58	115	325	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	53.84	74.00	-21.09	34.42	11.17	46.52	100	25	Peak
5150	45.08	46.01	54.00	-8.92	34.42	11.17	46.52	100	25	Average
5190	99.00	99.87	/	/	34.45	11.21	46.53	100	25	Peak
5190	88.98	89.85	/	/	34.45	11.21	46.53	100	25	Average
5350	53.44	54.05	74.00	-20.56	34.58	11.39	46.58	100	25	Peak
5350	45.14	45.75	54.00	-8.86	34.58	11.39	46.58	100	25	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 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	53.26	74.00	-21.83	34.26	11.17	46.52	115	325	Peak
5150	45.50	46.59	54.00	-8.50	34.26	11.17	46.52	115	325	Average
5230	100.45	101.44	/	/	34.29	11.26	46.54	115	325	Peak
5230	91.57	92.56	/	/	34.29	11.26	46.54	115	325	Average
5350	51.66	52.51	74.00	-22.34	34.34	11.39	46.58	115	325	Peak
5350	45.18	46.03	54.00	-8.82	34.34	11.39	46.58	115	325	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	51.89	52.82	74.00	-22.11	34.42	11.17	46.52	100	25	Peak
5150	45.16	46.09	54.00	-8.84	34.42	11.17	46.52	100	25	Average
5230	98.59	99.39	/	/	34.48	11.26	46.54	100	25	Peak
5230	88.73	89.53	/	/	34.48	11.26	46.54	100	25	Average
5350	52.83	53.44	74.00	-21.17	34.58	11.39	46.58	100	25	Peak
5350	45.12	45.73	54.00	-8.88	34.58	11.39	46.58	100	25	Average

REMARKS:

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



**BUREAU
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Test Report No.: W7L-P24030018RF03

802.11ax (80MHz) (RU996):

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	52.53	53.62	74.00	-21.47	34.26	11.17	46.52	115	325	Peak
5150	45.42	46.51	54.00	-8.58	34.26	11.17	46.52	115	325	Average
5210	94.26	95.28	/	/	34.28	11.24	46.54	115	325	Peak
5210	87.58	88.60	/	/	34.28	11.24	46.54	115	325	Average
5350	51.58	52.43	74.00	-22.42	34.34	11.39	46.58	115	325	Peak
5350	45.33	46.18	54.00	-8.67	34.34	11.39	46.58	115	325	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	52.60	53.53	74.00	-21.40	34.42	11.17	46.52	100	25	Peak
5150	45.25	46.18	54.00	-8.75	34.42	11.17	46.52	100	25	Average
5210	93.79	94.62	/	/	34.47	11.24	46.54	100	25	Peak
5210	85.59	86.42	/	/	34.47	11.24	46.54	100	25	Average
5350	51.66	52.27	74.00	-22.34	34.58	11.39	46.58	100	25	Peak
5350	45.26	45.87	54.00	-8.74	34.58	11.39	46.58	100	25	Average

REMARKS:

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



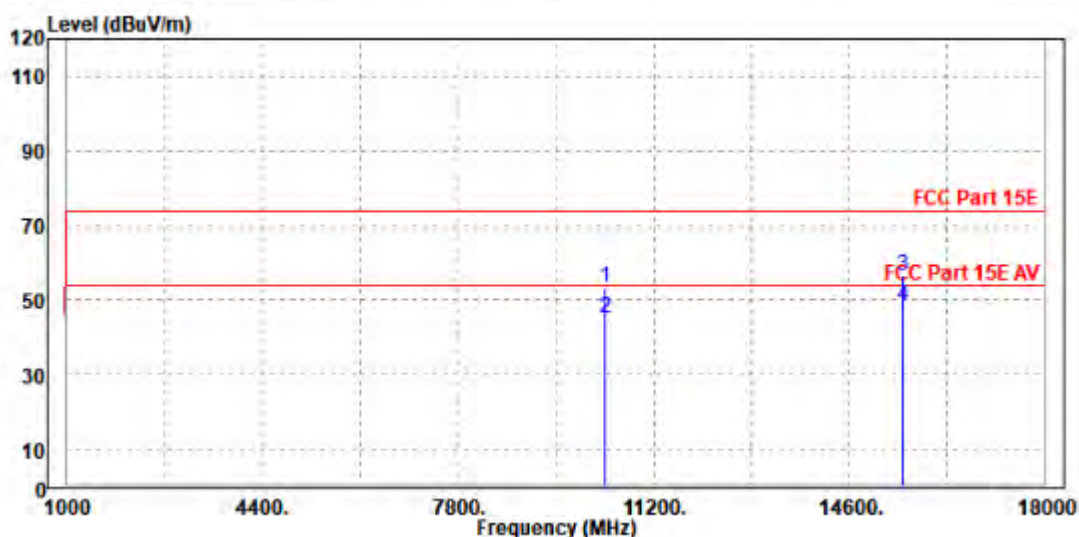
802.11n (20MHz)

Worst case harmonic:

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

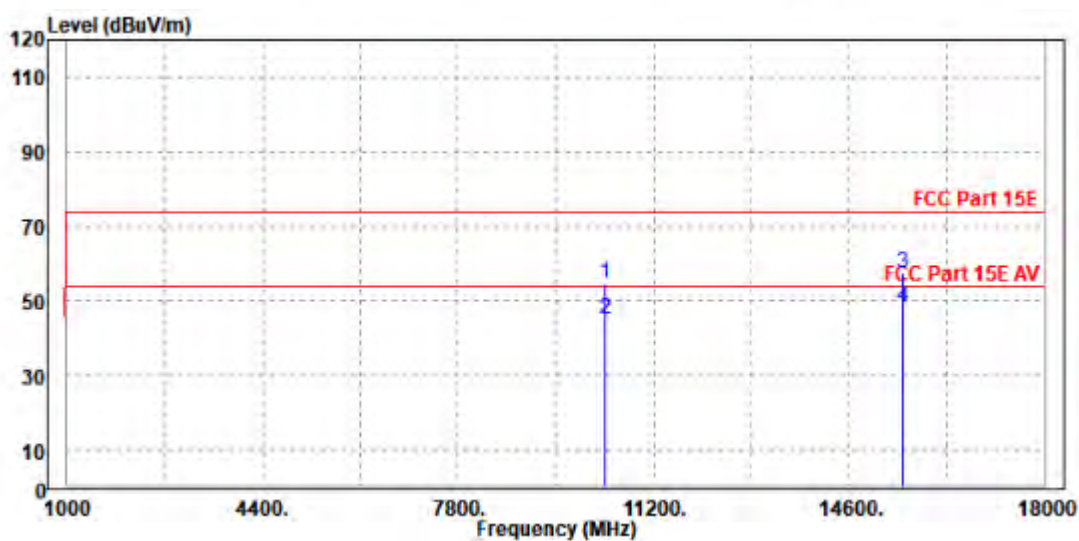
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m		
1	10360.000	53.29	45.14	74.00	-20.71	8.15	Peak	Horizontal
2	10360.000	45.39	37.24	54.00	-8.61	8.15	Average	Horizontal
3	PK15535.000	56.44	40.49	74.00	-17.56	15.95	Peak	Horizontal
4	PP15535.000	48.59	32.64	54.00	-5.41	15.95	Average	Horizontal



ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m		
1	10367.000	54.78	46.43	74.00	-19.22	8.35	Peak	Vertical
2	10367.000	45.27	36.92	54.00	-8.73	8.35	Average	Vertical
3	PK15540.000	57.57	41.47	74.00	-16.43	16.10	Peak	Vertical
4	PP15540.000	48.52	32.42	54.00	-5.48	16.10	Average	Vertical



REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5180MHz: Fundamental frequency.
3. For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.



**BUREAU
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Test Report No.: W7L-P24030018RF03

Band 2

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	54.78	55.87	74.00	-19.22	34.26	11.17	46.52	100	320	Peak
5150	45.68	46.77	54.00	-8.32	34.26	11.17	46.52	100	320	Average
5260	105.95	106.91	/	/	34.30	11.29	46.55	100	320	Peak
5260	97.82	98.78	/	/	34.30	11.29	46.55	100	320	Average
5350	52.98	53.83	74.00	-21.02	34.34	11.39	46.58	100	320	Peak
5350	45.59	46.44	54.00	-8.41	34.34	11.39	46.58	100	320	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	52.89	53.82	74.00	-21.11	34.42	11.17	46.52	100	20	Peak
5150	45.93	46.86	54.00	-8.07	34.42	11.17	46.52	100	20	Average
5260	103.44	104.19	/	/	34.51	11.29	46.55	100	20	Peak
5260	95.89	96.64	/	/	34.51	11.29	46.55	100	20	Average
5350	52.08	52.69	74.00	-21.92	34.58	11.39	46.58	100	20	Peak
5350	45.76	46.37	54.00	-8.24	34.58	11.39	46.58	100	20	Average

REMARKS:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	53.37	54.46	74.00	-20.63	34.26	11.17	46.52	100	320	Peak
5150	45.49	46.58	54.00	-8.51	34.26	11.17	46.52	100	320	Average
5300	104.76	105.66	/	/	34.32	11.34	46.56	100	320	Peak
5300	96.76	97.66	/	/	34.32	11.34	46.56	100	320	Average
5350	52.42	53.27	74.00	-21.58	34.34	11.39	46.58	100	320	Peak
5350	45.69	46.54	54.00	-8.31	34.34	11.39	46.58	100	320	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	54.13	55.06	74.00	-19.87	34.42	11.17	46.52	100	20	Peak
5150	45.85	46.78	54.00	-8.15	34.42	11.17	46.52	100	20	Average
5300	103.46	104.14	/	/	34.54	11.34	46.56	100	20	Peak
5300	95.17	95.85	/	/	34.54	11.34	46.56	100	20	Average
5350	54.69	55.30	74.00	-19.31	34.58	11.39	46.58	100	20	Peak
5350	45.72	46.33	54.00	-8.28	34.58	11.39	46.58	100	20	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	51.80	52.89	74.00	-22.20	34.26	11.17	46.52	100	320	Peak
5150	45.20	46.29	54.00	-8.80	34.26	11.17	46.52	100	320	Average
5320	105.10	105.98	/	/	34.33	11.36	46.57	100	320	Peak
5320	96.13	97.01	/	/	34.33	11.36	46.57	100	320	Average
5350	53.41	54.26	74.00	-20.59	34.34	11.39	46.58	100	320	Peak
5350	45.58	46.43	54.00	-8.42	34.34	11.39	46.58	100	320	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	53.37	54.30	74.00	-20.63	34.42	11.17	46.52	100	20	Peak
5150	45.35	46.28	54.00	-8.65	34.42	11.17	46.52	100	20	Average
5320	104.22	104.87	/	/	34.56	11.36	46.57	100	20	Peak
5320	94.59	95.24	/	/	34.56	11.36	46.57	100	20	Average
5350	51.62	52.23	74.00	-22.38	34.58	11.39	46.58	100	20	Peak
5350	46.91	47.52	54.00	-7.09	34.58	11.39	46.58	100	20	Average

REMARKS:

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



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Test Report No.: W7L-P24030018RF03

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	52.17	53.26	74.00	-21.83	34.26	11.17	46.52	100	320	Peak
5150	45.66	46.75	54.00	-8.34	34.26	11.17	46.52	100	320	Average
5260	103.21	104.17	/	/	34.30	11.29	46.55	100	320	Peak
5260	94.98	95.94	/	/	34.30	11.29	46.55	100	320	Average
5350	51.79	52.64	74.00	-22.21	34.34	11.39	46.58	100	320	Peak
5350	45.35	46.20	54.00	-8.65	34.34	11.39	46.58	100	320	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	53.30	54.23	74.00	-20.70	34.42	11.17	46.52	100	20	Peak
5150	45.26	46.19	54.00	-8.74	34.42	11.17	46.52	100	20	Average
5260	101.57	102.32	/	/	34.51	11.29	46.55	100	20	Peak
5260	93.49	94.24	/	/	34.51	11.29	46.55	100	20	Average
5350	52.81	53.42	74.00	-21.19	34.58	11.39	46.58	100	20	Peak
5350	45.64	46.25	54.00	-8.36	34.58	11.39	46.58	100	20	Average

REMARKS:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	52.17	53.26	74.00	-21.83	34.26	11.17	46.52	100	320	Peak
5150	45.80	46.89	54.00	-8.20	34.26	11.17	46.52	100	320	Average
5300	102.71	103.61	/	/	34.32	11.34	46.56	100	320	Peak
5300	93.62	94.52	/	/	34.32	11.34	46.56	100	320	Average
5350	52.99	53.84	74.00	-21.01	34.34	11.39	46.58	100	320	Peak
5350	45.82	46.67	54.00	-8.18	34.34	11.39	46.58	100	320	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	52.45	53.38	74.00	-21.55	34.42	11.17	46.52	100	20	Peak
5150	45.42	46.35	54.00	-8.58	34.42	11.17	46.52	100	20	Average
5300	101.68	102.36	/	/	34.54	11.34	46.56	100	20	Peak
5300	92.89	93.57	/	/	34.54	11.34	46.56	100	20	Average
5350	52.06	52.67	74.00	-21.94	34.58	11.39	46.58	100	20	Peak
5350	45.98	46.59	54.00	-8.02	34.58	11.39	46.58	100	20	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	50.86	51.95	74.00	-23.14	34.26	11.17	46.52	100	320	Peak
5150	45.66	46.75	54.00	-8.34	34.26	11.17	46.52	100	320	Average
5320	100.13	101.01	/	/	34.33	11.36	46.57	100	320	Peak
5320	94.18	95.06	/	/	34.33	11.36	46.57	100	320	Average
5350	52.36	53.21	74.00	-21.64	34.34	11.39	46.58	100	320	Peak
5350	45.81	46.66	54.00	-8.19	34.34	11.39	46.58	100	320	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	50.77	51.70	74.00	-23.23	34.42	11.17	46.52	100	25	Peak
5150	45.44	46.37	54.00	-8.56	34.42	11.17	46.52	100	25	Average
5320	100.32	100.97	/	/	34.56	11.36	46.57	100	25	Peak
5320	92.71	93.36	/	/	34.56	11.36	46.57	100	25	Average
5350	51.59	52.20	74.00	-22.41	34.58	11.39	46.58	100	25	Peak
5350	45.53	46.14	54.00	-8.47	34.58	11.39	46.58	100	25	Average

REMARKS:

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



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Test Report No.: W7L-P24030018RF03

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	51.60	52.69	74.00	-22.40	34.26	11.17	46.52	100	320	Peak
5150	45.36	46.45	54.00	-8.64	34.26	11.17	46.52	100	320	Average
5270	98.23	99.18	/	/	34.31	11.30	46.56	100	320	Peak
5270	91.12	92.07	/	/	34.31	11.30	46.56	100	320	Average
5350	49.97	50.82	74.00	-24.03	34.34	11.39	46.58	100	320	Peak
5350	45.32	46.17	54.00	-8.68	34.34	11.39	46.58	100	320	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	53.00	53.93	74.00	-21.00	34.42	11.17	46.52	100	20	Peak
5150	45.40	46.33	54.00	-8.60	34.42	11.17	46.52	100	20	Average
5270	97.75	98.49	/	/	34.52	11.30	46.56	100	20	Peak
5270	89.96	90.70	/	/	34.52	11.30	46.56	100	20	Average
5350	52.38	52.99	74.00	-21.62	34.58	11.39	46.58	100	20	Peak
5350	45.55	46.16	54.00	-8.45	34.58	11.39	46.58	100	20	Average

REMARKS:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	50.47	51.56	74.00	-23.53	34.26	11.17	46.52	100	320	Peak
5150	45.59	46.68	54.00	-8.41	34.26	11.17	46.52	100	320	Average
5310	97.47	98.37	/	/	34.32	11.35	46.57	100	320	Peak
5310	91.16	92.06	/	/	34.32	11.35	46.57	100	320	Average
5350	51.70	52.55	74.00	-22.30	34.34	11.39	46.58	100	320	Peak
5350	45.61	46.46	54.00	-8.39	34.34	11.39	46.58	100	320	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	50.63	51.56	74.00	-23.37	34.42	11.17	46.52	100	25	Peak
5150	45.68	46.61	54.00	-8.32	34.42	11.17	46.52	100	25	Average
5310	96.93	97.60	/	/	34.55	11.35	46.57	100	25	Peak
5310	90.66	91.33	/	/	34.55	11.35	46.57	100	25	Average
5350	51.80	52.41	74.00	-22.20	34.58	11.39	46.58	100	25	Peak
5350	45.40	46.01	54.00	-8.60	34.58	11.39	46.58	100	25	Average

REMARKS:

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



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Test Report No.: W7L-P24030018RF03

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	51.33	52.42	74.00	-22.67	34.26	11.17	46.52	100	320	Peak
5150	45.18	46.27	54.00	-8.82	34.26	11.17	46.52	100	320	Average
5260	101.91	102.87	/	/	34.30	11.29	46.55	100	320	Peak
5260	93.03	93.99	/	/	34.30	11.29	46.55	100	320	Average
5350	53.03	53.88	74.00	-20.97	34.34	11.39	46.58	100	320	Peak
5350	45.04	45.89	54.00	-8.96	34.34	11.39	46.58	100	320	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	53.61	54.54	74.00	-20.39	34.42	11.17	46.52	100	25	Peak
5150	45.50	46.43	54.00	-8.50	34.42	11.17	46.52	100	25	Average
5260	102.26	103.01	/	/	34.51	11.29	46.55	100	25	Peak
5260	92.76	93.51	/	/	34.51	11.29	46.55	100	25	Average
5350	52.22	52.83	74.00	-21.78	34.58	11.39	46.58	100	25	Peak
5350	45.50	46.11	54.00	-8.50	34.58	11.39	46.58	100	25	Average

REMARKS:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	50.05	51.14	74.00	-23.95	34.26	11.17	46.52	100	320	Peak
5150	45.11	46.20	54.00	-8.89	34.26	11.17	46.52	100	320	Average
5300	100.99	101.89	/	/	34.32	11.34	46.56	100	320	Peak
5300	91.35	92.25	/	/	34.32	11.34	46.56	100	320	Average
5350	51.75	52.60	74.00	-22.25	34.34	11.39	46.58	100	320	Peak
5350	45.00	45.85	54.00	-9.00	34.34	11.39	46.58	100	320	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	50.78	51.71	74.00	-23.22	34.42	11.17	46.52	100	25	Peak
5150	45.63	46.56	54.00	-8.37	34.42	11.17	46.52	100	25	Average
5300	102.22	102.90	/	/	34.54	11.34	46.56	100	25	Peak
5300	92.37	93.05	/	/	34.54	11.34	46.56	100	25	Average
5350	51.48	52.09	74.00	-22.52	34.58	11.39	46.58	100	25	Peak
5350	45.36	45.97	54.00	-8.64	34.58	11.39	46.58	100	25	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	51.25	52.34	74.00	-22.75	34.26	11.17	46.52	100	320	Peak
5150	45.24	46.33	54.00	-8.76	34.26	11.17	46.52	100	320	Average
5320	100.41	101.29	/	/	34.33	11.36	46.57	100	320	Peak
5320	92.56	93.44	/	/	34.33	11.36	46.57	100	320	Average
5350	52.54	53.39	74.00	-21.46	34.34	11.39	46.58	100	320	Peak
5350	45.22	46.07	54.00	-8.78	34.34	11.39	46.58	100	320	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	50.76	51.69	74.00	-23.24	34.42	11.17	46.52	100	20	Peak
5150	45.39	46.32	54.00	-8.61	34.42	11.17	46.52	100	20	Average
5320	98.48	99.13	/	/	34.56	11.36	46.57	100	20	Peak
5320	90.34	90.99	/	/	34.56	11.36	46.57	100	20	Average
5350	51.25	51.86	74.00	-22.75	34.58	11.39	46.58	100	20	Peak
5350	45.42	46.03	54.00	-8.58	34.58	11.39	46.58	100	20	Average

REMARKS:

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



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Test Report No.: W7L-P24030018RF03

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	51.45	52.54	74.00	-22.55	34.26	11.17	46.52	100	320	Peak
5150	45.60	46.69	54.00	-8.40	34.26	11.17	46.52	100	320	Average
5270	99.32	100.27	/	/	34.31	11.30	46.56	100	320	Peak
5270	89.31	90.26	/	/	34.31	11.30	46.56	100	320	Average
5350	52.38	53.23	74.00	-21.62	34.34	11.39	46.58	100	320	Peak
5350	45.39	46.24	54.00	-8.61	34.34	11.39	46.58	100	320	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	51.33	52.26	74.00	-22.67	34.42	11.17	46.52	100	25	Peak
5150	45.51	46.44	54.00	-8.49	34.42	11.17	46.52	100	25	Average
5270	98.62	99.36	/	/	34.52	11.30	46.56	100	25	Peak
5270	89.86	90.60	/	/	34.52	11.30	46.56	100	25	Average
5350	52.72	53.33	74.00	-21.28	34.58	11.39	46.58	100	25	Peak
5350	45.42	46.03	54.00	-8.58	34.58	11.39	46.58	100	25	Average

REMARKS:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	51.20	52.29	74.00	-22.80	34.26	11.17	46.52	100	320	Peak
5150	45.51	46.60	54.00	-8.49	34.26	11.17	46.52	100	320	Average
5310	98.18	99.08	/	/	34.32	11.35	46.57	100	320	Peak
5310	89.96	90.86	/	/	34.32	11.35	46.57	100	320	Average
5350	51.13	51.98	74.00	-22.87	34.34	11.39	46.58	100	320	Peak
5350	45.76	46.61	54.00	-8.24	34.34	11.39	46.58	100	320	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	51.13	52.06	74.00	-22.87	34.42	11.17	46.52	100	25	Peak
5150	45.61	46.54	54.00	-8.39	34.42	11.17	46.52	100	25	Average
5310	99.20	99.87	/	/	34.55	11.35	46.57	100	25	Peak
5310	89.12	89.79	/	/	34.55	11.35	46.57	100	25	Average
5350	53.13	53.74	74.00	-20.87	34.58	11.39	46.58	100	25	Peak
5350	45.85	46.46	54.00	-8.15	34.58	11.39	46.58	100	25	Average

REMARKS:

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



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Test Report No.: W7L-P24030018RF03

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	51.13	52.22	74.00	-22.87	34.26	11.17	46.52	100	320	Peak
5150	45.49	46.58	54.00	-8.51	34.26	11.17	46.52	100	320	Average
5290	95.77	96.69	/	/	34.32	11.32	46.56	100	320	Peak
5290	87.40	88.32	/	/	34.32	11.32	46.56	100	320	Average
5350	50.98	51.83	74.00	-23.02	34.34	11.39	46.58	100	320	Peak
5350	45.82	46.67	54.00	-8.18	34.34	11.39	46.58	100	320	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	51.74	52.67	74.00	-22.26	34.42	11.17	46.52	100	20	Peak
5150	45.61	46.54	54.00	-8.39	34.42	11.17	46.52	100	20	Average
5290	92.98	93.69	/	/	34.53	11.32	46.56	100	20	Peak
5290	85.44	86.15	/	/	34.53	11.32	46.56	100	20	Average
5350	51.49	52.10	74.00	-22.51	34.58	11.39	46.58	100	20	Peak
5350	45.96	46.57	54.00	-8.04	34.58	11.39	46.58	100	20	Average

REMARKS:

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



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VERITAS**

Test Report No.: W7L-P24030018RF03

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	50.76	51.85	74.00	-23.24	34.26	11.17	46.52	100	320	Peak
5150	45.33	46.42	54.00	-8.67	34.26	11.17	46.52	100	320	Average
5290	91.36	92.28	/	/	34.32	11.32	46.56	100	320	Peak
5290	84.90	85.82	/	/	34.32	11.32	46.56	100	320	Average
5350	51.00	51.85	74.00	-23.00	34.34	11.39	46.58	100	320	Peak
5350	45.44	46.29	54.00	-8.56	34.34	11.39	46.58	100	320	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	52.47	53.40	74.00	-21.53	34.42	11.17	46.52	100	25	Peak
5150	45.40	46.33	54.00	-8.60	34.42	11.17	46.52	100	25	Average
5290	90.60	91.31	/	/	34.53	11.32	46.56	100	25	Peak
5290	83.05	83.76	/	/	34.53	11.32	46.56	100	25	Average
5350	52.35	52.96	74.00	-21.65	34.58	11.39	46.58	100	25	Peak
5350	45.68	46.29	54.00	-8.32	34.58	11.39	46.58	100	25	Average

REMARKS:

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

5G WIFI-RU

802.11ax (20MHz) (RU242):

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	52.34	53.43	74.00	-21.66	34.26	11.17	46.52	115	325	Peak
5150	45.48	46.57	54.00	-8.52	34.26	11.17	46.52	115	325	Average
5260	104.49	105.45	/	/	34.30	11.29	46.55	115	325	Peak
5260	93.89	94.85	/	/	34.30	11.29	46.55	115	325	Average
5350	51.90	52.75	74.00	-22.10	34.34	11.39	46.58	115	325	Peak
5350	45.15	46.00	54.00	-8.85	34.34	11.39	46.58	115	325	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	53.23	54.16	74.00	-20.77	34.42	11.17	46.52	100	25	Peak
5150	45.22	46.15	54.00	-8.78	34.42	11.17	46.52	100	25	Average
5260	102.05	102.80	/	/	34.51	11.29	46.55	100	25	Peak
5260	91.97	92.72	/	/	34.51	11.29	46.55	100	25	Average
5350	52.56	53.17	74.00	-21.44	34.58	11.39	46.58	100	25	Peak
5350	45.26	45.87	54.00	-8.74	34.58	11.39	46.58	100	25	Average

REMARKS:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	53.53	54.62	74.00	-20.47	34.26	11.17	46.52	115	325	Peak
5150	45.60	46.69	54.00	-8.40	34.26	11.17	46.52	115	325	Average
5300	102.26	103.16	/	/	34.32	11.34	46.56	115	325	Peak
5300	92.97	93.87	/	/	34.32	11.34	46.56	115	325	Average
5350	53.04	53.89	74.00	-20.96	34.34	11.39	46.58	115	325	Peak
5350	44.84	45.69	54.00	-9.16	34.34	11.39	46.58	115	325	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	52.36	53.29	74.00	-21.64	34.42	11.17	46.52	100	25	Peak
5150	45.27	46.20	54.00	-8.73	34.42	11.17	46.52	100	25	Average
5300	100.76	101.44	/	/	34.54	11.34	46.56	100	25	Peak
5300	91.09	91.77	/	/	34.54	11.34	46.56	100	25	Average
5350	52.93	53.54	74.00	-21.07	34.58	11.39	46.58	100	25	Peak
5350	45.74	46.35	54.00	-8.26	34.58	11.39	46.58	100	25	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	51.84	52.93	74.00	-22.16	34.26	11.17	46.52	115	325	Peak
5150	44.83	45.92	54.00	-9.17	34.26	11.17	46.52	115	325	Average
5320	103.64	104.52	/	/	34.33	11.36	46.57	115	325	Peak
5320	92.52	93.40	/	/	34.33	11.36	46.57	115	325	Average
5350	52.86	53.71	74.00	-21.14	34.34	11.39	46.58	115	325	Peak
5350	45.04	45.89	54.00	-8.96	34.34	11.39	46.58	115	325	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	51.43	52.36	74.00	-22.57	34.42	11.17	46.52	100	25	Peak
5150	45.36	46.29	54.00	-8.64	34.42	11.17	46.52	100	25	Average
5320	100.62	101.27	/	/	34.56	11.36	46.57	100	25	Peak
5320	90.20	90.85	/	/	34.56	11.36	46.57	100	25	Average
5350	53.81	54.42	74.00	-20.19	34.58	11.39	46.58	100	25	Peak
5350	45.36	45.97	54.00	-8.64	34.58	11.39	46.58	100	25	Average

REMARKS:

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



802.11ax (40MHz) (RU484):

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	52.03	53.12	74.00	-21.97	34.26	11.17	46.52	115	325	Peak
5150	45.20	46.29	54.00	-8.80	34.26	11.17	46.52	115	325	Average
5270	99.87	100.82	/	/	34.31	11.30	46.56	115	325	Peak
5270	89.73	90.68	/	/	34.31	11.30	46.56	115	325	Average
5350	51.82	52.67	74.00	-22.18	34.34	11.39	46.58	115	325	Peak
5350	45.05	45.90	54.00	-8.95	34.34	11.39	46.58	115	325	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	52.31	53.24	74.00	-21.69	34.42	11.17	46.52	100	25	Peak
5150	45.25	46.18	54.00	-8.75	34.42	11.17	46.52	100	25	Average
5270	97.82	98.56	/	/	34.52	11.30	46.56	100	25	Peak
5270	89.31	90.05	/	/	34.52	11.30	46.56	100	25	Average
5350	53.46	54.07	74.00	-20.54	34.58	11.39	46.58	100	25	Peak
5350	45.28	45.89	54.00	-8.72	34.58	11.39	46.58	100	25	Average

REMARKS:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	52.56	53.65	74.00	-21.44	34.26	11.17	46.52	115	325	Peak
5150	45.28	46.37	54.00	-8.72	34.26	11.17	46.52	115	325	Average
5310	100.30	101.20	/	/	34.32	11.35	46.57	115	325	Peak
5310	90.59	91.49	/	/	34.32	11.35	46.57	115	325	Average
5350	53.80	54.65	74.00	-20.20	34.34	11.39	46.58	115	325	Peak
5350	45.98	46.83	54.00	-8.02	34.34	11.39	46.58	115	325	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	51.92	52.85	74.00	-22.08	34.42	11.17	46.52	100	25	Peak
5150	45.03	45.96	54.00	-8.97	34.42	11.17	46.52	100	25	Average
5310	98.39	99.06	/	/	34.55	11.35	46.57	100	25	Peak
5310	90.21	90.88	/	/	34.55	11.35	46.57	100	25	Average
5350	52.68	53.29	74.00	-21.32	34.58	11.39	46.58	100	25	Peak
5350	45.52	46.13	54.00	-8.48	34.58	11.39	46.58	100	25	Average

REMARKS:

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



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Test Report No.: W7L-P24030018RF03

802.11ax (80MHz) (RU996):

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	53.27	54.36	74.00	-20.73	34.26	11.17	46.52	115	325	Peak
5150	44.76	45.85	54.00	-9.24	34.26	11.17	46.52	115	325	Average
5290	94.45	95.37	/	/	34.32	11.32	46.56	115	325	Peak
5290	87.56	88.48	/	/	34.32	11.32	46.56	115	325	Average
5350	52.41	53.26	74.00	-21.59	34.34	11.39	46.58	115	325	Peak
5350	47.10	47.95	54.00	-6.90	34.34	11.39	46.58	115	325	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	52.55	53.48	74.00	-21.45	34.42	11.17	46.52	100	25	Peak
5150	45.27	46.20	54.00	-8.73	34.42	11.17	46.52	100	25	Average
5290	92.06	92.77	/	/	34.53	11.32	46.56	100	25	Peak
5290	85.80	86.51	/	/	34.53	11.32	46.56	100	25	Average
5350	53.08	53.69	74.00	-20.92	34.58	11.39	46.58	100	25	Peak
5350	45.65	46.26	54.00	-8.35	34.58	11.39	46.58	100	25	Average

REMARKS:

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



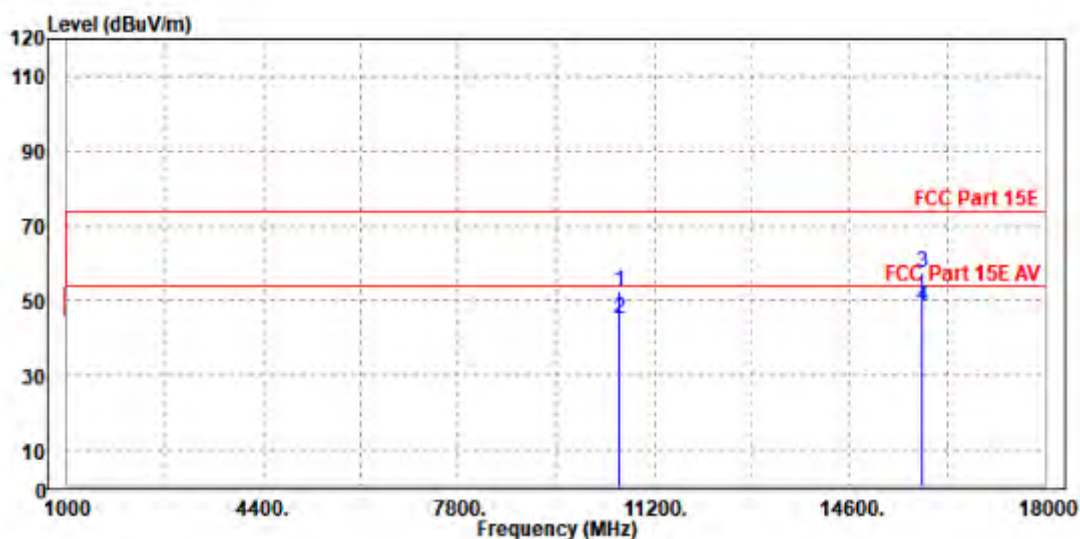
802.11ax (80MHz) (RU996):

Worst case harmonic:

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

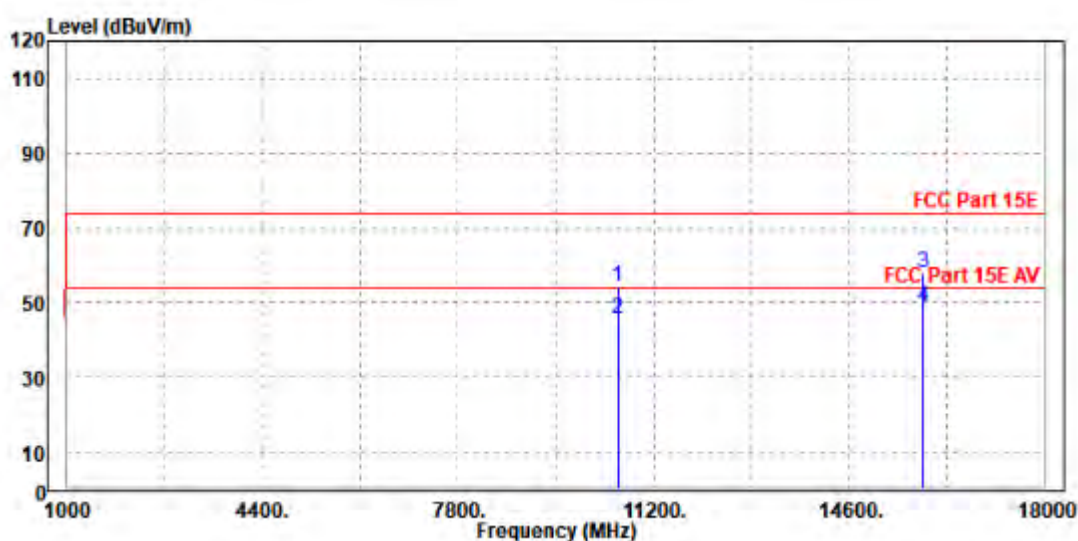
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m		
1	10588.000	52.58	44.38	74.00	-21.42	8.20	Peak	Horizontal
2	10588.000	45.26	37.06	54.00	-8.74	8.20	Average	Horizontal
3	PK15870.000	57.57	41.30	74.00	-16.43	16.27	Peak	Horizontal
4	PP15870.000	48.44	32.17	54.00	-5.56	16.27	Average	Horizontal



ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m		
1	10580.000	54.27	45.87	74.00	-19.73	8.40	Peak	Vertical
2	10580.000	45.67	37.27	54.00	-8.33	8.40	Average	Vertical
3	PK15875.000	57.79	41.05	74.00	-16.21	16.74	Peak	Vertical
4	PP15875.000	48.93	32.19	54.00	-5.07	16.74	Average	Vertical



REMARKS:

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



Test Report No.: W7L-P24030018RF03

Band 3

802.11a

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	50.01	50.72	74	-23.99	34.38	11.52	46.61	100	300	Peak
5460	45.17	45.88	54	-8.83	34.38	11.52	46.61	100	300	Average
5470	51.74	52.43	68.2	-16.46	34.39	11.53	46.61	100	300	Peak
5500	99.81	100.47	/	/	34.4	11.56	46.62	100	300	Peak
5500	94.37	95.03	/	/	34.4	11.56	46.62	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
5460	51.54	51.96	74	-22.46	34.67	11.52	46.61	100	110	Peak
5460	45.26	45.68	54	-8.74	34.67	11.52	46.61	100	110	Average
5470	52.6	53	68.2	-15.6	34.68	11.53	46.61	100	110	Peak
5500	98.64	99	/	/	34.7	11.56	46.62	100	110	Peak
5500	93.31	93.67	/	/	34.7	11.56	46.62	100	110	Average

REMARKS:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	50.78	51.49	74	-23.22	34.38	11.52	46.61	100	300	Peak
5460	45.03	45.74	54	-8.97	34.38	11.52	46.61	100	300	Average
5470	50.19	50.88	68.2	-18.01	34.39	11.53	46.61	100	300	Peak
5580	98.39	98.9	/	/	34.54	11.59	46.64	100	300	Peak
5580	93.24	93.75	/	/	34.54	11.59	46.64	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
5460	51.92	52.34	74	-22.08	34.67	11.52	46.61	100	115	Peak
5460	45.22	45.64	54	-8.78	34.67	11.52	46.61	100	115	Average
5470	50.87	51.27	68.2	-17.33	34.68	11.53	46.61	100	115	Peak
5580	96.3	96.52	/	/	34.83	11.59	46.64	100	115	Peak
5580	91.53	91.75	/	/	34.83	11.59	46.64	100	115	Average

REMARKS:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5700	97.58	97.86	/	/	34.76	11.64	46.68	100	55	Peak
5700	91.89	92.17	/	/	34.76	11.64	46.68	100	55	Average
5725	52.11	52.8	68.2	-16.09	34.39	11.53	46.61	100	55	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5700	96.56	96.58	/	/	35.02	11.64	46.68	100	115	Peak
5700	91.01	91.03	/	/	35.02	11.64	46.68	100	115	Average
5725	53.21	53.61	68.2	-14.99	34.68	11.53	46.61	100	115	Peak

REMARKS:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5470	52.46	53.15	68.2	-15.74	34.39	11.53	46.61	100	300	Peak
5720	97.35	97.59	/	/	34.8	11.64	46.68	100	300	Peak
5720	91.09	91.33	/	/	34.8	11.64	46.68	100	300	Average
5850	51.32	51.32	68.2	-16.88	35.03	11.69	46.72	100	300	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5470	49.66	50.06	68.2	-18.54	34.68	11.53	46.61	100	110	Peak
5720	97.02	97.01	/	/	35.05	11.64	46.68	100	110	Peak
5720	90.97	90.96	/	/	35.05	11.64	46.68	100	110	Average
5850	52	51.77	68.2	-16.2	35.26	11.69	46.72	100	110	Peak

REMARKS:

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



**BUREAU
VERITAS**

Test Report No.: W7L-P24030018RF03

802.11n (20MHz)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	52.11	52.82	74	-21.89	34.38	11.52	46.61	100	305	Peak
5460	45.18	45.89	54	-8.82	34.38	11.52	46.61	100	305	Average
5470	52.64	53.33	68.2	-15.56	34.39	11.53	46.61	100	305	Peak
5500	98.13	98.79	/	/	34.4	11.56	46.62	100	305	Peak
5500	92.35	93.01	/	/	34.4	11.56	46.62	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
5460	50.65	51.07	74	-23.35	34.67	11.52	46.61	100	110	Peak
5460	45.49	45.91	54	-8.51	34.67	11.52	46.61	100	110	Average
5470	52.33	52.73	68.2	-15.87	34.68	11.53	46.61	100	110	Peak
5500	96.64	97	/	/	34.7	11.56	46.62	100	110	Peak
5500	90.58	90.94	/	/	34.7	11.56	46.62	100	110	Average

REMARKS:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	51.98	52.69	74	-22.02	34.38	11.52	46.61	100	300	Peak
5460	45.06	45.77	54	-8.94	34.38	11.52	46.61	100	300	Average
5470	49.94	50.63	68.2	-18.26	34.39	11.53	46.61	100	300	Peak
5580	96.78	97.29	/	/	34.54	11.59	46.64	100	300	Peak
5580	90.97	91.48	/	/	34.54	11.59	46.64	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
5460	53.48	53.9	74	-20.52	34.67	11.52	46.61	100	115	Peak
5460	45.3	45.72	54	-8.7	34.67	11.52	46.61	100	115	Average
5470	52.28	52.68	68.2	-15.92	34.68	11.53	46.61	100	115	Peak
5580	94.72	94.94	/	/	34.83	11.59	46.64	100	115	Peak
5580	88.53	88.75	/	/	34.83	11.59	46.64	100	115	Average

REMARKS:

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



**BUREAU
VERITAS**

Test Report No.: W7L-P24030018RF03

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5700	96.09	96.37	/	/	34.76	11.64	46.68	100	55	Peak
5700	89.73	90.01	/	/	34.76	11.64	46.68	100	55	Average
5725	51.92	52.61	68.2	-16.28	34.39	11.53	46.61	100	55	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5700	94.16	94.18	/	/	35.02	11.64	46.68	100	115	Peak
5700	88.69	88.71	/	/	35.02	11.64	46.68	100	115	Average
5725	52.41	52.81	68.2	-15.79	34.68	11.53	46.61	100	115	Peak

REMARKS:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5470	51.97	52.66	68.2	-16.23	34.39	11.53	46.61	100	55	Peak
5720	93.98	94.22	/	/	34.8	11.64	46.68	100	55	Peak
5720	88.43	88.67	/	/	34.8	11.64	46.68	100	55	Average
5850	52.78	52.78	68.2	-15.42	35.03	11.69	46.72	100	55	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5470	51.09	51.49	68.2	-17.11	34.68	11.53	46.61	100	115	Peak
5720	94.21	94.2	/	/	35.05	11.64	46.68	100	115	Peak
5720	88.79	88.78	/	/	35.05	11.64	46.68	100	115	Average
5850	51.9	51.67	68.2	-16.3	35.26	11.69	46.72	100	115	Peak

REMARKS:

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

802.11n (40MHz)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	50.98	51.69	74	-23.02	34.38	11.52	46.61	100	300	Peak
5460	45.13	45.84	54	-8.87	34.38	11.52	46.61	100	300	Average
5470	53.52	54.21	68.2	-14.68	34.39	11.53	46.61	100	300	Peak
5510	94.95	95.59	/	/	34.42	11.56	46.62	100	300	Peak
5510	89.34	89.98	/	/	34.42	11.56	46.62	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
5460	51.46	51.88	74	-22.54	34.67	11.52	46.61	100	110	Peak
5460	45.53	45.95	54	-8.47	34.67	11.52	46.61	100	110	Average
5470	51.72	52.12	68.2	-16.48	34.68	11.53	46.61	100	110	Peak
5510	93.82	94.16	/	/	34.72	11.56	46.62	100	110	Peak
5510	88.18	88.52	/	/	34.72	11.56	46.62	100	110	Average

REMARKS:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	52.17	52.88	74	-21.83	34.38	11.52	46.61	100	300	Peak
5460	45.1	45.81	54	-8.9	34.38	11.52	46.61	100	300	Average
5470	50.75	51.44	68.2	-17.45	34.39	11.53	46.61	100	300	Peak
5550	95.19	95.75	/	/	34.49	11.58	46.63	100	300	Peak
5550	89.45	90.01	/	/	34.49	11.58	46.63	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
5460	52.26	52.68	74	-21.74	34.67	11.52	46.61	100	110	Peak
5460	45.38	45.8	54	-8.62	34.67	11.52	46.61	100	110	Average
5470	51.05	51.45	68.2	-17.15	34.68	11.53	46.61	100	110	Peak
5550	93.61	93.88	/	/	34.78	11.58	46.63	100	110	Peak
5550	87.75	88.02	/	/	34.78	11.58	46.63	100	110	Average

REMARKS:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5670	94.33	94.67	/	/	34.71	11.62	46.67	100	45	Peak
5670	88.27	88.61	/	/	34.71	11.62	46.67	100	45	Average
5725	51.31	52	68.2	-16.89	34.39	11.53	46.61	100	45	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5670	92.36	92.44	/	/	34.97	11.62	46.67	100	115	Peak
5670	87.06	87.14	/	/	34.97	11.62	46.67	100	115	Average
5725	53.43	53.83	68.2	-14.77	34.68	11.53	46.61	100	115	Peak

REMARKS:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5470	51.26	51.95	68.2	-16.94	34.39	11.53	46.61	100	45	Peak
5710	93.58	93.84	/	/	34.78	11.64	46.68	100	45	Peak
5710	87.7	87.96	/	/	34.78	11.64	46.68	100	45	Average
5850	52.89	52.89	68.2	-15.31	35.03	11.69	46.72	100	45	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5470	53.35	53.75	68.2	-14.85	34.68	11.53	46.61	100	110	Peak
5710	92.09	92.09	/	/	35.04	11.64	46.68	100	110	Peak
5710	85.56	85.56	/	/	35.04	11.64	46.68	100	110	Average
5850	53.3	53.07	68.2	-14.9	35.26	11.69	46.72	100	110	Peak

REMARKS:

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

802.11ax (20MHz)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	52.57	53.28	74	-21.43	34.38	11.52	46.61	100	300	Peak
5460	44.98	45.69	54	-9.02	34.38	11.52	46.61	100	300	Average
5470	51.06	51.75	68.2	-17.14	34.39	11.53	46.61	100	300	Peak
5500	98.23	98.89	/	/	34.4	11.56	46.62	100	300	Peak
5500	90.1	90.76	/	/	34.4	11.56	46.62	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
5460	51.66	52.08	74	-22.34	34.67	11.52	46.61	100	110	Peak
5460	45.3	45.72	54	-8.7	34.67	11.52	46.61	100	110	Average
5470	52.74	53.14	68.2	-15.46	34.68	11.53	46.61	100	110	Peak
5500	98.22	98.58	/	/	34.7	11.56	46.62	100	110	Peak
5500	89.8	90.16	/	/	34.7	11.56	46.62	100	110	Average

REMARKS:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	53.98	54.69	74	-20.02	34.38	11.52	46.61	100	300	Peak
5460	45.27	45.98	54	-8.73	34.38	11.52	46.61	100	300	Average
5470	52.35	53.04	68.2	-15.85	34.39	11.53	46.61	100	300	Peak
5580	97.2	97.71	/	/	34.54	11.59	46.64	100	300	Peak
5580	89.97	90.48	/	/	34.54	11.59	46.64	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
5460	50.92	51.34	74	-23.08	34.67	11.52	46.61	100	115	Peak
5460	45.3	45.72	54	-8.7	34.67	11.52	46.61	100	115	Average
5470	52.13	52.53	68.2	-16.07	34.68	11.53	46.61	100	115	Peak
5580	95.13	95.35	/	/	34.83	11.59	46.64	100	115	Peak
5580	87.51	87.73	/	/	34.83	11.59	46.64	100	115	Average

REMARKS:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5700	96.77	97.05	/	/	34.76	11.64	46.68	100	300	Peak
5700	87.64	87.92	/	/	34.76	11.64	46.68	100	300	Average
5725	51.36	52.05	68.2	-16.84	34.39	11.53	46.61	100	300	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5700	95.84	95.86	/	/	35.02	11.64	46.68	100	115	Peak
5700	87.19	87.21	/	/	35.02	11.64	46.68	100	115	Average
5725	53.69	54.09	68.2	-14.51	34.68	11.53	46.61	100	115	Peak

REMARKS:

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



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Test Report No.: W7L-P24030018RF03

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5470	50.26	50.95	68.2	-17.94	34.39	11.53	46.61	100	300	Peak
5720	95.38	95.62	/	/	34.8	11.64	46.68	100	300	Peak
5720	87.81	88.05	/	/	34.8	11.64	46.68	100	300	Average
5850	52.9	52.9	68.2	-15.3	35.03	11.69	46.72	100	300	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5470	53.19	53.59	68.2	-15.01	34.68	11.53	46.61	100	115	Peak
5720	95.66	95.65	/	/	35.05	11.64	46.68	100	115	Peak
5720	87.13	87.12	/	/	35.05	11.64	46.68	100	115	Average
5850	53.1	52.87	68.2	-15.1	35.26	11.69	46.72	100	115	Peak

REMARKS:

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

802.11ax (40MHz)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	50.43	51.14	74	-23.57	34.38	11.52	46.61	100	300	Peak
5460	45.18	45.89	54	-8.82	34.38	11.52	46.61	100	300	Average
5470	51.31	52	68.2	-16.89	34.39	11.53	46.61	100	300	Peak
5510	95.76	96.4	/	/	34.42	11.56	46.62	100	300	Peak
5510	88.01	88.65	/	/	34.42	11.56	46.62	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
5460	50.07	50.49	74	-23.93	34.67	11.52	46.61	100	110	Peak
5460	45.5	45.92	54	-8.5	34.67	11.52	46.61	100	110	Average
5470	50.36	50.76	68.2	-17.84	34.68	11.53	46.61	100	110	Peak
5510	95.11	95.45	/	/	34.72	11.56	46.62	100	110	Peak
5510	86.87	87.21	/	/	34.72	11.56	46.62	100	110	Average

REMARKS:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	50.9	51.61	74	-23.1	34.38	11.52	46.61	100	300	Peak
5460	45.11	45.82	54	-8.89	34.38	11.52	46.61	100	300	Average
5470	50.14	50.83	68.2	-18.06	34.39	11.53	46.61	100	300	Peak
5550	96.71	97.27	/	/	34.49	11.58	46.63	100	300	Peak
5550	87.94	88.5	/	/	34.49	11.58	46.63	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
5460	50.71	51.13	74	-23.29	34.67	11.52	46.61	100	110	Peak
5460	45.38	45.8	54	-8.62	34.67	11.52	46.61	100	110	Average
5470	52.25	52.65	68.2	-15.95	34.68	11.53	46.61	100	110	Peak
5550	94.96	95.23	/	/	34.78	11.58	46.63	100	110	Peak
5550	86.43	86.7	/	/	34.78	11.58	46.63	100	110	Average

REMARKS:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5670	94.79	95.13	/	/	34.71	11.62	46.67	100	300	Peak
5670	85.96	86.3	/	/	34.71	11.62	46.67	100	300	Average
5725	52.92	53.61	68.2	-15.28	34.39	11.53	46.61	100	300	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5670	94.26	94.34	/	/	34.97	11.62	46.67	100	115	Peak
5670	84.99	85.07	/	/	34.97	11.62	46.67	100	115	Average
5725	52.91	53.31	68.2	-15.29	34.68	11.53	46.61	100	115	Peak

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5670MHz: Fundamental frequency.
3. #: Out of restricted band.

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5470	50.99	51.68	68.2	-17.21	34.39	11.53	46.61	100	300	Peak
5710	94.04	94.3	/	/	34.78	11.64	46.68	100	300	Peak
5710	85.11	85.37	/	/	34.78	11.64	46.68	100	300	Average
5850	52.35	52.35	68.2	-15.85	35.03	11.69	46.72	100	300	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5470	51.19	51.59	68.2	-17.01	34.68	11.53	46.61	100	115	Peak
5710	92.33	92.33	/	/	35.04	11.64	46.68	100	115	Peak
5710	84.01	84.01	/	/	35.04	11.64	46.68	100	115	Average
5850	55.58	55.35	68.2	-12.62	35.26	11.69	46.72	100	115	Peak

REMARKS:

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

802.11ax (80MHz)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	51.32	52.03	74	-22.68	34.38	11.52	46.61	100	115	Peak
5460	47.14	47.85	54	-6.86	34.38	11.52	46.61	100	115	Average
5470	53.15	53.84	68.2	-15.05	34.39	11.53	46.61	100	115	Peak
5530	91.97	92.58	/	/	34.45	11.57	46.63	100	115	Peak
5530	84.39	85	/	/	34.45	11.57	46.63	100	115	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	50.46	50.88	74	-23.54	34.67	11.52	46.61	100	115	Peak
5460	45.55	45.97	54	-8.45	34.67	11.52	46.61	100	115	Average
5470	53.12	53.52	68.2	-15.08	34.68	11.53	46.61	100	115	Peak
5530	89.19	89.5	/	/	34.75	11.57	46.63	100	115	Peak
5530	81.79	82.1	/	/	34.75	11.57	46.63	100	115	Average

REMARKS:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	53.09	53.8	74	-20.91	34.38	11.52	46.61	100	300	Peak
5460	45.26	45.97	54	-8.74	34.38	11.52	46.61	100	300	Average
5470	49.56	50.25	68.2	-18.64	34.39	11.53	46.61	100	300	Peak
5610	89.93	90.38	/	/	34.6	11.6	46.65	100	300	Peak
5610	82.57	83.02	/	/	34.6	11.6	46.65	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
5460	50.22	50.64	74	-23.78	34.67	11.52	46.61	100	110	Peak
5460	45.48	45.9	54	-8.52	34.67	11.52	46.61	100	110	Average
5470	50.87	51.27	68.2	-17.33	34.68	11.53	46.61	100	110	Peak
5610	88.13	88.3	/	/	34.88	11.6	46.65	100	110	Peak
5610	80.25	80.42	/	/	34.88	11.6	46.65	100	110	Average

REMARKS:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5470	49.69	50.38	68.2	-18.51	34.39	11.53	46.61	100	300	Peak
5690	89.1	89.4	/	/	34.74	11.63	46.67	100	300	Peak
5690	82.22	82.52	/	/	34.74	11.63	46.67	100	300	Average
5850	51.92	51.92	68.2	-16.28	35.03	11.69	46.72	100	300	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5470	51.95	52.35	68.2	-16.25	34.68	11.53	46.61	100	110	Peak
5690	88.31	88.35	/	/	35	11.63	46.67	100	110	Peak
5690	81.12	81.16	/	/	35	11.63	46.67	100	110	Average
5850	51.37	51.14	68.2	-16.83	35.26	11.69	46.72	100	110	Peak

REMARKS:

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



802.11ac(80MHz)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	53.03	53.74	74	-20.97	34.38	11.52	46.61	100	300	Peak
5460	45.51	46.22	54	-8.49	34.38	11.52	46.61	100	300	Average
5470	52.07	52.76	68.2	-16.13	34.39	11.53	46.61	100	300	Peak
5530	89.08	89.69	/	/	34.45	11.57	46.63	100	300	Peak
5530	81.42	82.03	/	/	34.45	11.57	46.63	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
5460	51.21	51.63	74	-22.79	34.67	11.52	46.61	100	115	Peak
5460	45.42	45.84	54	-8.58	34.67	11.52	46.61	100	115	Average
5470	52.02	52.42	68.2	-16.18	34.68	11.53	46.61	100	115	Peak
5530	88.14	88.45	/	/	34.75	11.57	46.63	100	115	Peak
5530	78.53	78.84	/	/	34.75	11.57	46.63	100	115	Average

REMARKS:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	51.21	51.92	74	-22.79	34.38	11.52	46.61	100	300	Peak
5460	45.08	45.79	54	-8.92	34.38	11.52	46.61	100	300	Average
5470	53.28	53.97	68.2	-14.92	34.39	11.53	46.61	100	300	Peak
5610	86.75	87.2	/	/	34.6	11.6	46.65	100	300	Peak
5610	80.4	80.85	/	/	34.6	11.6	46.65	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
5460	53.58	54	74	-20.42	34.67	11.52	46.61	100	115	Peak
5460	45.37	45.79	54	-8.63	34.67	11.52	46.61	100	115	Average
5470	50.97	51.37	68.2	-17.23	34.68	11.53	46.61	100	115	Peak
5610	85.2	85.37	/	/	34.88	11.6	46.65	100	115	Peak
5610	78.29	78.46	/	/	34.88	11.6	46.65	100	115	Average

REMARKS:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5470	50.6	51.29	68.2	-17.6	34.39	11.53	46.61	100	300	Peak
5690	87.02	87.32	/	/	34.74	11.63	46.67	100	300	Peak
5690	80.25	80.55	/	/	34.74	11.63	46.67	100	300	Average
5850	51.84	51.84	68.2	-16.36	35.03	11.69	46.72	100	300	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5470	51.14	51.54	68.2	-17.06	34.68	11.53	46.61	100	115	Peak
5690	86.1	86.14	/	/	35	11.63	46.67	100	115	Peak
5690	79.55	79.59	/	/	35	11.63	46.67	100	115	Average
5850	52.6	52.37	68.2	-15.6	35.26	11.69	46.72	100	115	Peak

REMARKS:

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



5G WIFI-RU

802.11ax (20MHz) (RU242):

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	51.65	52.36	74	-22.35	34.38	11.52	46.61	100	305	Peak
5460	45.26	45.97	54	-8.74	34.38	11.52	46.61	100	305	Average
5470	53.86	54.55	68.2	-14.34	34.39	11.53	46.61	100	305	Peak
5500	98.56	99.22	/	/	34.4	11.56	46.62	100	305	Peak
5500	89.81	90.47	/	/	34.4	11.56	46.62	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
5460	52.22	52.64	74	-21.78	34.67	11.52	46.61	100	165	Peak
5460	45.43	45.85	54	-8.57	34.67	11.52	46.61	100	165	Average
5470	53.02	53.42	68.2	-15.18	34.68	11.53	46.61	100	165	Peak
5500	96.86	97.22	/	/	34.7	11.56	46.62	100	165	Peak
5500	88.27	88.63	/	/	34.7	11.56	46.62	100	165	Average

REMARKS:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	53.32	54.03	74	-20.68	34.38	11.52	46.61	100	90	Peak
5460	45.32	46.03	54	-8.68	34.38	11.52	46.61	100	90	Average
5470	52.79	53.48	68.2	-15.41	34.39	11.53	46.61	100	90	Peak
5580	100.36	100.87	/	/	34.54	11.59	46.64	100	90	Peak
5580	91.05	91.56	/	/	34.54	11.59	46.64	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
5460	52.53	52.95	74	-21.47	34.67	11.52	46.61	100	165	Peak
5460	45.33	45.75	54	-8.67	34.67	11.52	46.61	100	165	Average
5470	53.53	53.93	68.2	-14.67	34.68	11.53	46.61	100	165	Peak
5580	96.83	97.05	/	/	34.83	11.59	46.64	100	165	Peak
5580	89.34	89.56	/	/	34.83	11.59	46.64	100	165	Average

REMARKS:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5700	99.4	99.68	/	/	34.76	11.64	46.68	100	90	Peak
5700	89.95	90.23	/	/	34.76	11.64	46.68	100	90	Average
5725	52.72	52.94	68.2	-15.48	34.81	11.65	46.68	100	90	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5700	96.23	96.25	/	/	35.02	11.64	46.68	100	165	Peak
5700	88.61	88.63	/	/	35.02	11.64	46.68	100	165	Average
5725	53.99	53.96	68.2	-14.21	35.06	11.65	46.68	100	165	Peak

REMARKS:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5470	52.5	53.19	68.2	-15.7	34.39	11.53	46.61	100	90	Peak
5720	100.3	100.54	/	/	34.8	11.64	46.68	100	90	Peak
5720	92.11	92.35	/	/	34.8	11.64	46.68	100	90	Average
5850	53.62	53.62	68.2	-14.58	35.03	11.69	46.72	100	90	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5470	52.53	52.93	68.2	-15.67	34.68	11.53	46.61	100	0	Peak
5720	97.45	97.44	/	/	35.05	11.64	46.68	100	0	Peak
5720	88.62	88.61	/	/	35.05	11.64	46.68	100	0	Average
5850	53.42	53.19	68.2	-14.78	35.26	11.69	46.72	100	0	Peak

REMARKS:

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



802.11ax (40MHz) (RU484):

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	52.6	53.31	74	-21.4	34.38	11.52	46.61	100	90	Peak
5460	45.05	45.76	54	-8.95	34.38	11.52	46.61	100	90	Average
5470	51.47	52.16	68.2	-16.73	34.39	11.53	46.61	100	90	Peak
5510	95.56	96.2	/	/	34.42	11.56	46.62	100	90	Peak
5510	87.92	88.56	/	/	34.42	11.56	46.62	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
5460	52.92	53.34	74	-21.08	34.67	11.52	46.61	100	165	Peak
5460	45.33	45.75	54	-8.67	34.67	11.52	46.61	100	165	Average
5470	51.77	52.17	68.2	-16.43	34.68	11.53	46.61	100	165	Peak
5510	92.94	93.28	/	/	34.72	11.56	46.62	100	165	Peak
5510	84.43	84.77	/	/	34.72	11.56	46.62	100	165	Average

REMARKS:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	51.22	51.93	74	-22.78	34.38	11.52	46.61	100	90	Peak
5460	45.14	45.85	54	-8.86	34.38	11.52	46.61	100	90	Average
5470	51.44	52.13	68.2	-16.76	34.39	11.53	46.61	100	90	Peak
5550	95.36	95.92	/	/	34.49	11.58	46.63	100	90	Peak
5550	87.57	88.13	/	/	34.49	11.58	46.63	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
5460	51.75	52.17	74	-22.25	34.67	11.52	46.61	100	165	Peak
5460	45.18	45.6	54	-8.82	34.67	11.52	46.61	100	165	Average
5470	52.38	52.78	68.2	-15.82	34.68	11.53	46.61	100	165	Peak
5550	92.97	93.24	/	/	34.78	11.58	46.63	100	165	Peak
5550	85.5	85.77	/	/	34.78	11.58	46.63	100	165	Average

REMARKS:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5670	94.79	95.13	/	/	34.71	11.62	46.67	100	90	Peak
5670	88.31	88.65	/	/	34.71	11.62	46.67	100	90	Average
5725	52.75	53.44	68.2	-15.45	34.39	11.53	46.61	100	90	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5670	92.45	92.53	/	/	34.97	11.62	46.67	100	165	Peak
5670	86.23	86.31	/	/	34.97	11.62	46.67	100	165	Average
5725	52.45	52.85	68.2	-15.75	34.68	11.53	46.61	100	165	Peak

REMARKS:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5470	51.99	52.68	68.2	-16.21	34.39	11.53	46.61	100	90	Peak
5710	95.11	95.37	/	/	34.78	11.64	46.68	100	90	Peak
5710	86.87	87.13	/	/	34.78	11.64	46.68	100	90	Average
5850	52.72	52.72	68.2	-15.48	35.03	11.69	46.72	100	90	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5470	52.48	52.88	68.2	-15.72	34.68	11.53	46.61	100	165	Peak
5710	92.36	92.36	/	/	35.04	11.64	46.68	100	165	Peak
5710	85.6	85.6	/	/	35.04	11.64	46.68	100	165	Average
5850	52.99	52.76	68.2	-15.21	35.26	11.69	46.72	100	165	Peak

REMARKS:

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

802.11ax (80MHz) (RU996):

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	51.43	52.14	74	-22.57	34.38	11.52	46.61	100	90	Peak
5460	45	45.71	54	-9	34.38	11.52	46.61	100	90	Average
5470	51.95	52.64	68.2	-16.25	34.39	11.53	46.61	100	90	Peak
5530	91.68	92.29	/	/	34.45	11.57	46.63	100	90	Peak
5530	84.85	85.46	/	/	34.45	11.57	46.63	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
5460	51.53	51.95	74	-22.47	34.67	11.52	46.61	100	165	Peak
5460	45.2	45.62	54	-8.8	34.67	11.52	46.61	100	165	Average
5470	52.05	52.45	68.2	-16.15	34.68	11.53	46.61	100	165	Peak
5530	89.92	90.23	/	/	34.75	11.57	46.63	100	165	Peak
5530	82.34	82.65	/	/	34.75	11.57	46.63	100	165	Average

REMARKS:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	50.63	51.34	74	-23.37	34.38	11.52	46.61	100	90	Peak
5460	44.78	45.49	54	-9.22	34.38	11.52	46.61	100	90	Average
5470	52.03	52.72	68.2	-16.17	34.39	11.53	46.61	100	90	Peak
5610	90.81	91.26	/	/	34.6	11.6	46.65	100	90	Peak
5610	82.94	83.39	/	/	34.6	11.6	46.65	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
5460	51.33	51.75	74	-22.67	34.67	11.52	46.61	100	165	Peak
5460	45.14	45.56	54	-8.86	34.67	11.52	46.61	100	165	Average
5470	51.68	52.08	68.2	-16.52	34.68	11.53	46.61	100	165	Peak
5610	89.75	89.92	/	/	34.88	11.6	46.65	100	165	Peak
5610	80.26	80.43	/	/	34.88	11.6	46.65	100	165	Average

REMARKS:

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



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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5470	51.55	52.24	68.2	-16.65	34.39	11.53	46.61	100	90	Peak
5690	92.62	92.92	/	/	34.74	11.63	46.67	100	90	Peak
5690	83.34	83.64	/	/	34.74	11.63	46.67	100	90	Average
5850	51.62	51.62	68.2	-16.58	35.03	11.69	46.72	100	90	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5470	51.41	51.81	68.2	-16.79	34.68	11.53	46.61	100	165	Peak
5690	89.59	89.63	/	/	35	11.63	46.67	100	165	Peak
5690	80.26	80.3	/	/	35	11.63	46.67	100	165	Average
5850	52.88	52.65	68.2	-15.32	35.26	11.69	46.72	100	165	Peak

REMARKS:

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



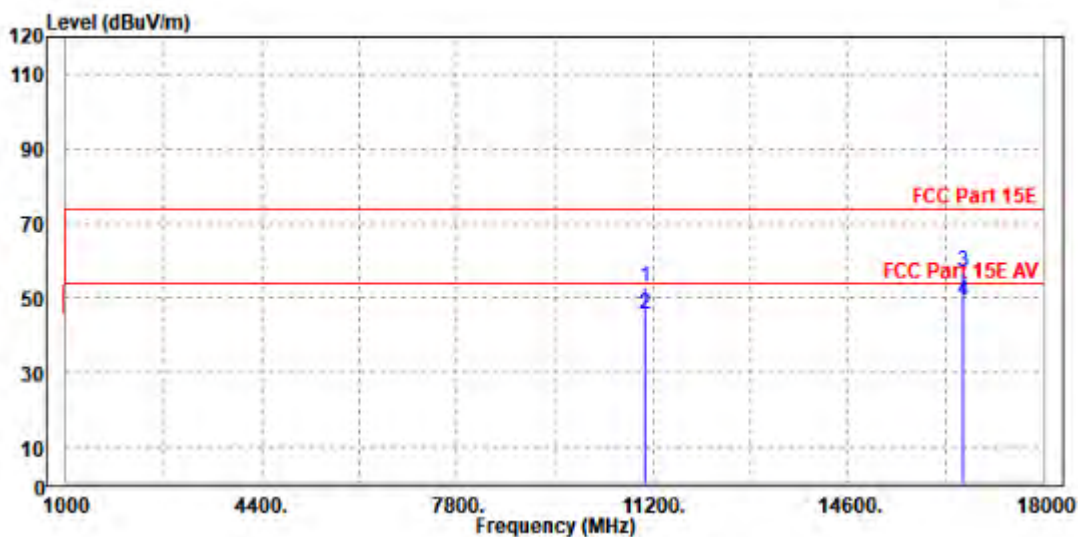
802.11ax (80MHz):

Worst case harmonic:

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

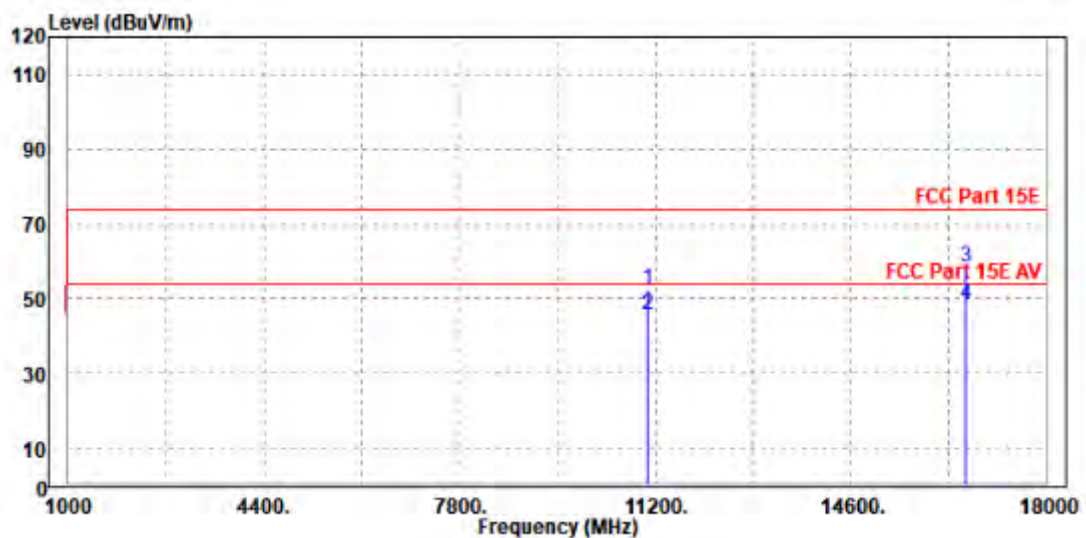
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m		
1	11060.000	52.84	44.38	74.00	-21.16	8.46	Peak	Horizontal
2	11060.000	45.68	37.22	54.00	-8.32	8.46	Average	Horizontal
3	PK16589.000	57.26	40.59	74.00	-16.74	16.67	Peak	Horizontal
4	PP16589.000	49.09	32.42	54.00	-4.91	16.67	Average	Horizontal





ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m		
1	11064.000	52.48	43.82	74.00	-21.52	8.66	Peak	Vertical
2	11064.000	45.48	36.82	54.00	-8.52	8.66	Average	Vertical
3	PK16590.000	58.37	41.59	74.00	-15.63	16.78	Peak	Vertical
4	PP16590.000	48.37	31.59	54.00	-5.63	16.78	Average	Vertical



REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5530MHz: Fundamental frequency.
3. For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.

Band 4:

802.11a

CHANNEL	TX Channel 149	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
5745	100.21	100.41	/	/	34.84	11.65	46.69	100	45	Peak
5745	92.67	92.87	/	/	34.84	11.65	46.69	100	45	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5745	100.2	100.15	/	/	35.09	11.65	46.69	100	0	Peak
5745	91.15	91.1	/	/	35.09	11.65	46.69	100	0	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5745MHz: Fundamental frequency.

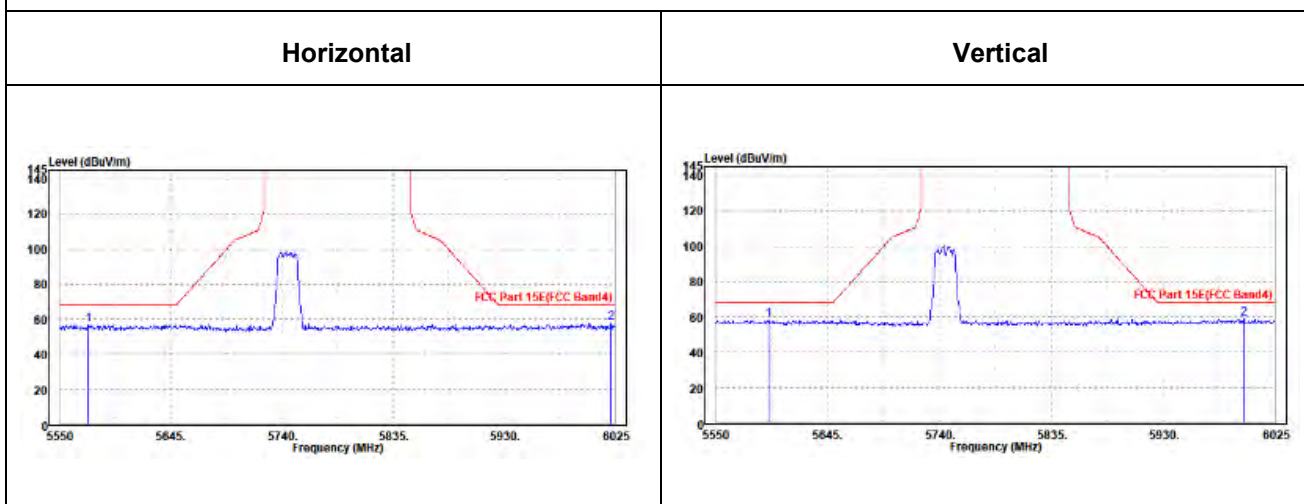


OOBE DATA

802.11a

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
5574.7	56.65	57.17	68.2	-11.55	34.53	11.59	46.64	100	360	Peak
6021.2	57.91	57.58	68.2	-10.29	35.31	11.78	46.76	100	360	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5594.65	58.18	58.38	68.2	-10.02	34.85	11.6	46.65	100	360	Peak
5998.4	58.91	58.42	68.2	-9.29	35.5	11.75	46.76	100	360	Peak

CH 149





**BUREAU
VERITAS**

Test Report No.: W7L-P24030018RF03

CHANNEL	TX Channel 157	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
5785	99.71	99.83	/	/	34.91	11.67	46.7	100	45	Peak
5785	91.66	91.78	/	/	34.91	11.67	46.7	100	45	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5785	100.09	99.96	/	/	35.16	11.67	46.7	100	360	Peak
5785	92.47	92.34	/	/	35.16	11.67	46.7	100	360	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5785MHz: Fundamental frequency.

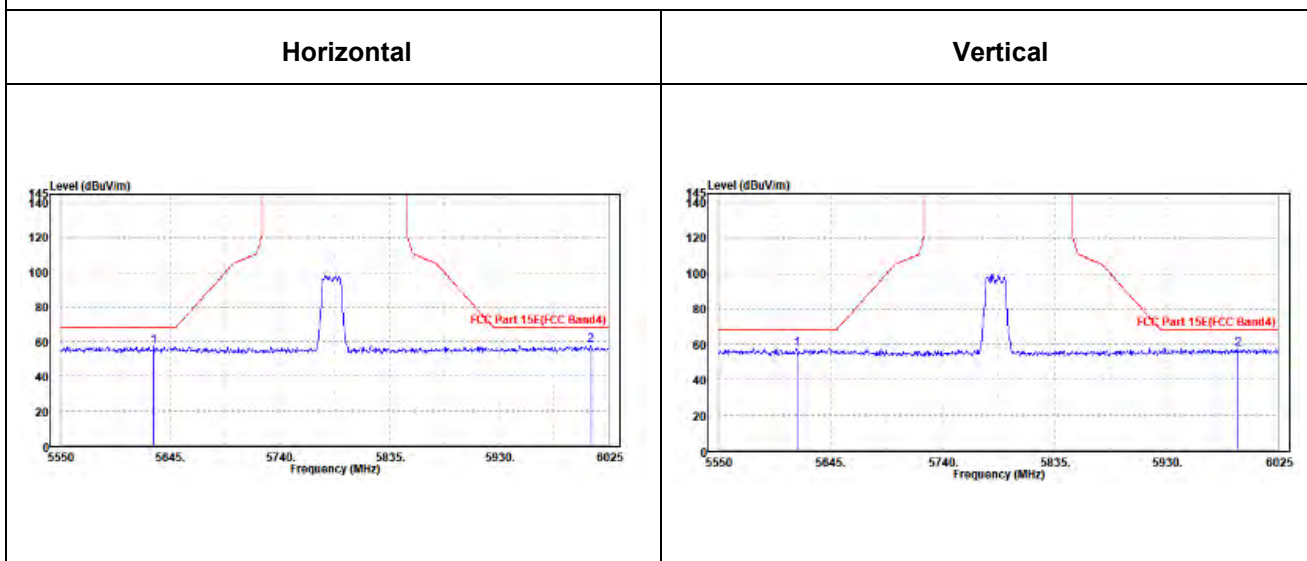


Oobe Data

802.11a

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
5630.75	57.19	57.6	68.2	-11.01	34.64	11.61	46.66	100	0	Peak
6009.325	57.78	57.47	68.2	-10.42	35.31	11.76	46.76	100	0	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5616.5	57.56	57.72	68.2	-10.64	34.89	11.6	46.65	100	360	Peak
5990.8	57.35	56.87	68.2	-10.85	35.49	11.75	46.76	100	360	Peak

CH 157





CHANNEL	TX Channel 165	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
5825	99.3	99.34	/	/	34.99	11.68	46.71	100	50	Peak
5825	91.2	91.24	/	/	34.99	11.68	46.71	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
5825	101.27	101.08	/	/	35.22	11.68	46.71	100	0	Peak
5825	91.13	90.94	/	/	35.22	11.68	46.71	100	0	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5825MHz: Fundamental frequency.

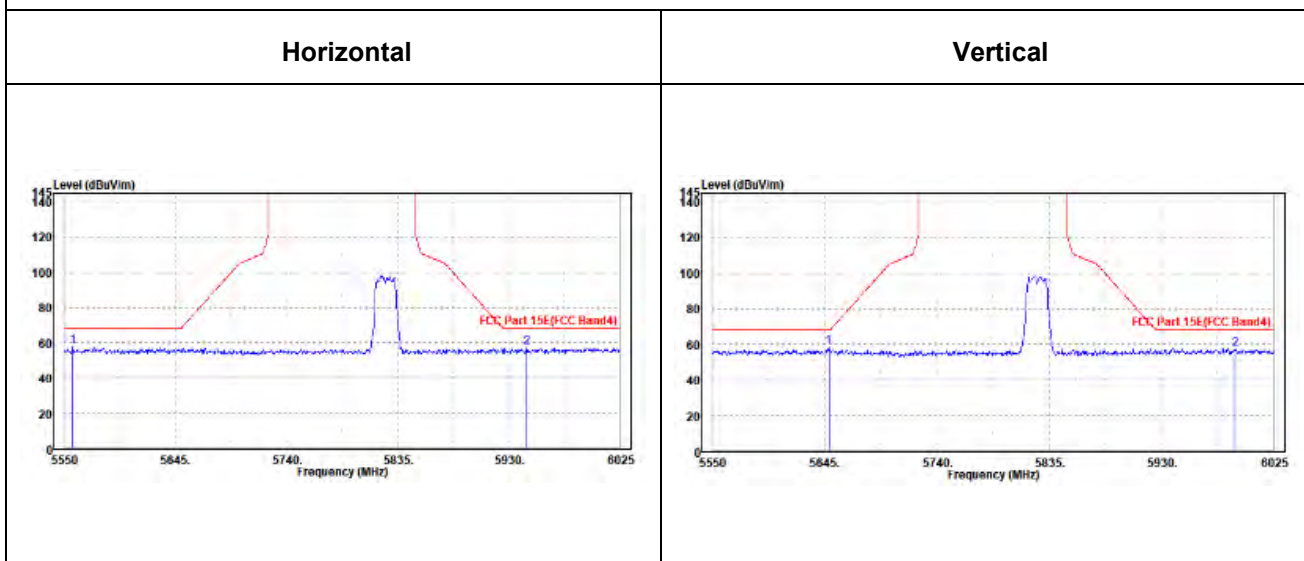


Oobe Data

802.11a

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
5556.65	57.88	58.44	68.2	-10.32	34.5	11.58	46.64	100	0	Peak
5945.675	57.14	56.95	68.2	-11.06	35.2	11.73	46.74	100	0	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5648.325	58.17	58.27	68.2	-10.03	34.94	11.62	46.66	100	360	Peak
5992.225	57.58	57.1	68.2	-10.62	35.49	11.75	46.76	100	360	Peak

CH 165





802.11n (20MHz)

CHANNEL	TX Channel 149	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
5745	97.54	97.74	/	/	34.84	11.65	46.69	100	45	Peak
5745	89.54	89.74	/	/	34.84	11.65	46.69	100	45	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5745	96.14	96.09	/	/	35.09	11.65	46.69	100	360	Peak
5745	88.42	88.37	/	/	35.09	11.65	46.69	100	360	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5745MHz: Fundamental frequency.

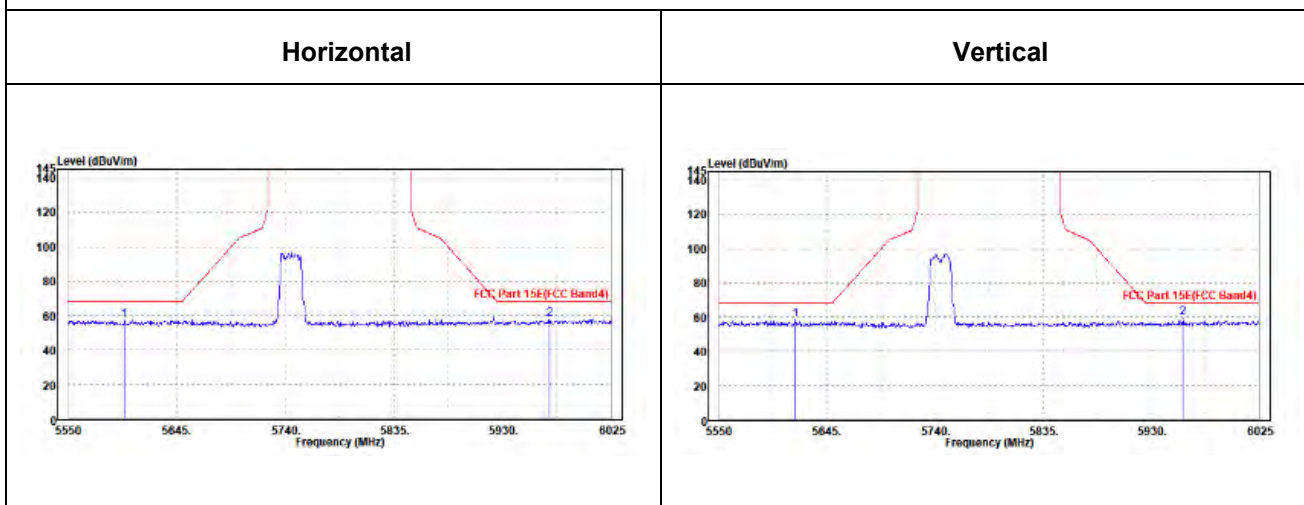


Oobe Data

802.11n (20MHz)

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
5599.4	57.22	57.69	68.2	-10.98	34.58	11.6	46.65	100	360	Peak
5970.85	57.95	57.71	68.2	-10.25	35.25	11.74	46.75	100	360	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5617.45	58.57	58.73	68.2	-9.63	34.89	11.6	46.65	100	0	Peak
5958.025	59.42	59.01	68.2	-8.78	35.43	11.73	46.75	100	0	Peak

CH 149





CHANNEL	TX Channel 157	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
5785	96.53	96.65	/	/	34.91	11.67	46.7	100	45	Peak
5785	88.12	88.24	/	/	34.91	11.67	46.7	100	45	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5785	97.75	97.62	/	/	35.16	11.67	46.7	100	0	Peak
5785	89.31	89.18	/	/	35.16	11.67	46.7	100	0	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5785MHz: Fundamental frequency.

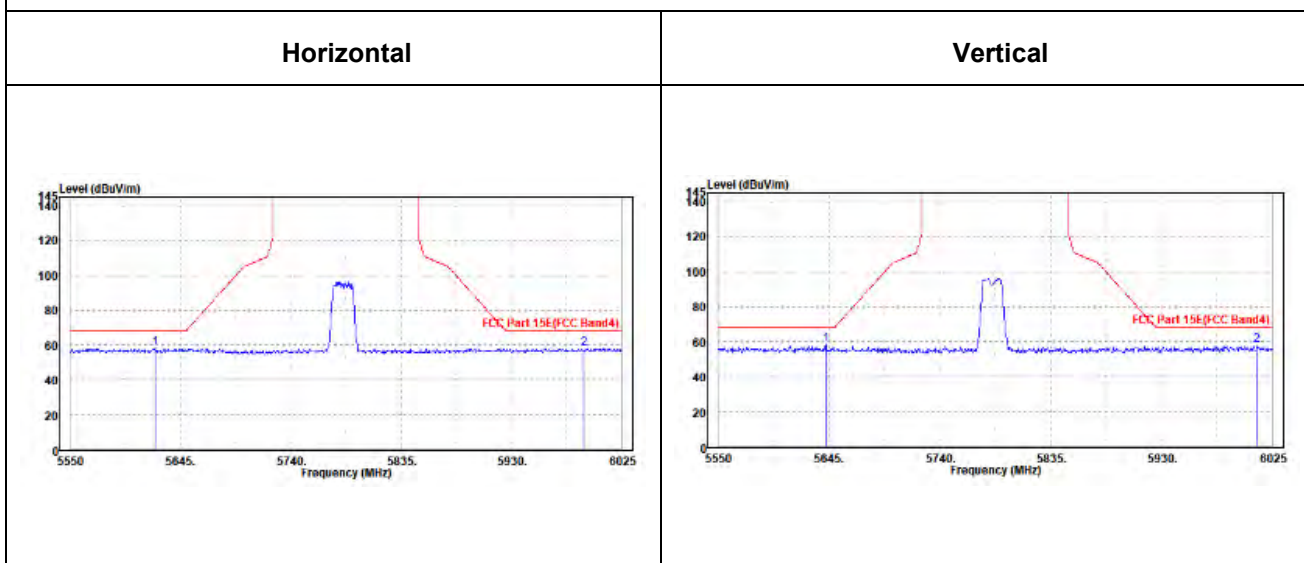


Oobe Data

802.11n (20MHz)

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
5623.15	58.48	58.9	68.2	-9.72	34.62	11.61	46.65	100	0	Peak
5992.7	58.08	57.8	68.2	-10.12	35.29	11.75	46.76	100	0	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV /m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5642.15	58.37	58.49	68.2	-9.83	34.93	11.61	46.66	100	360	Peak
6011.7	57.88	57.37	68.2	-10.32	35.5	11.77	46.76	100	360	Peak

CH 157





**BUREAU
VERITAS**

Test Report No.: W7L-P24030018RF03

CHANNEL	TX Channel 165	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
5825	98.45	98.49	/	/	34.99	11.68	46.71	100	50	Peak
5825	92.31	92.35	/	/	34.99	11.68	46.71	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
5825	97.41	97.22	/	/	35.22	11.68	46.71	100	0	Peak
5825	89.67	89.48	/	/	35.22	11.68	46.71	100	0	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5825MHz: Fundamental frequency.

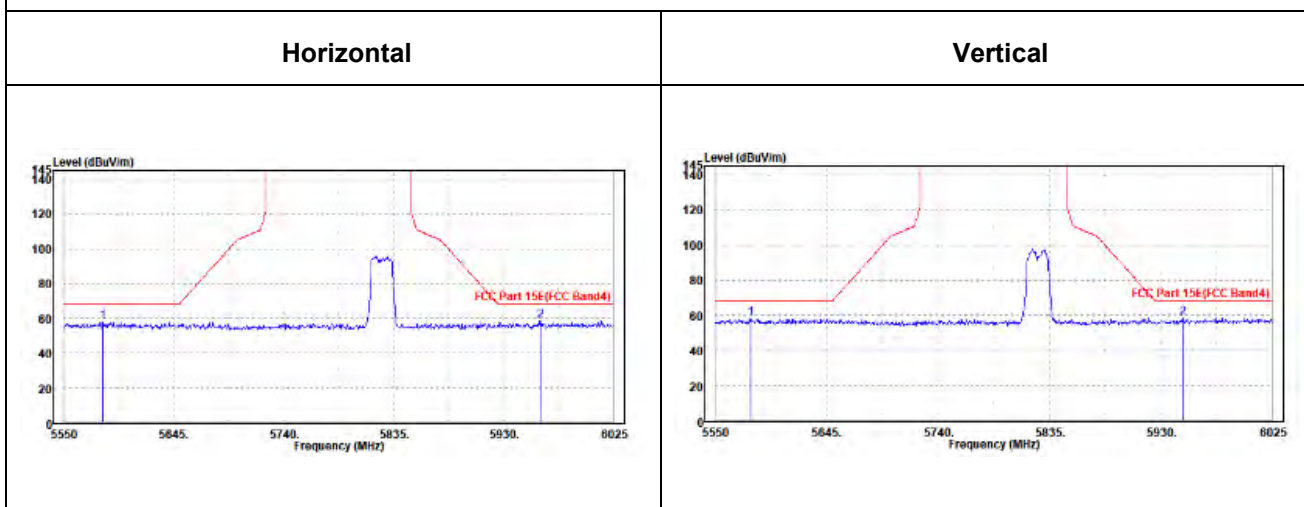


OOBE DATA

802.11n (20MHz)

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
5583.25	58.16	58.66	68.2	-10.04	34.55	11.59	46.64	100	360	Peak
5961.825	58.61	58.39	68.2	-9.59	35.23	11.74	46.75	100	360	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5579.925	58.22	58.44	68.2	-9.98	34.83	11.59	46.64	100	0	Peak
5948.525	58.5	58.1	68.2	-9.7	35.42	11.73	46.75	100	0	Peak

CH 165





802.11n (40MHz)

CHANNEL	TX Channel 151	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
5755	93.38	93.55	/	/	34.86	11.66	46.69	100	35	Peak
5755	87.65	87.82	/	/	34.86	11.66	46.69	100	35	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5755	92.37	92.29	/	/	35.11	11.66	46.69	100	110	Peak
5755	87.17	87.09	/	/	35.11	11.66	46.69	100	110	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5755MHz: Fundamental frequency.

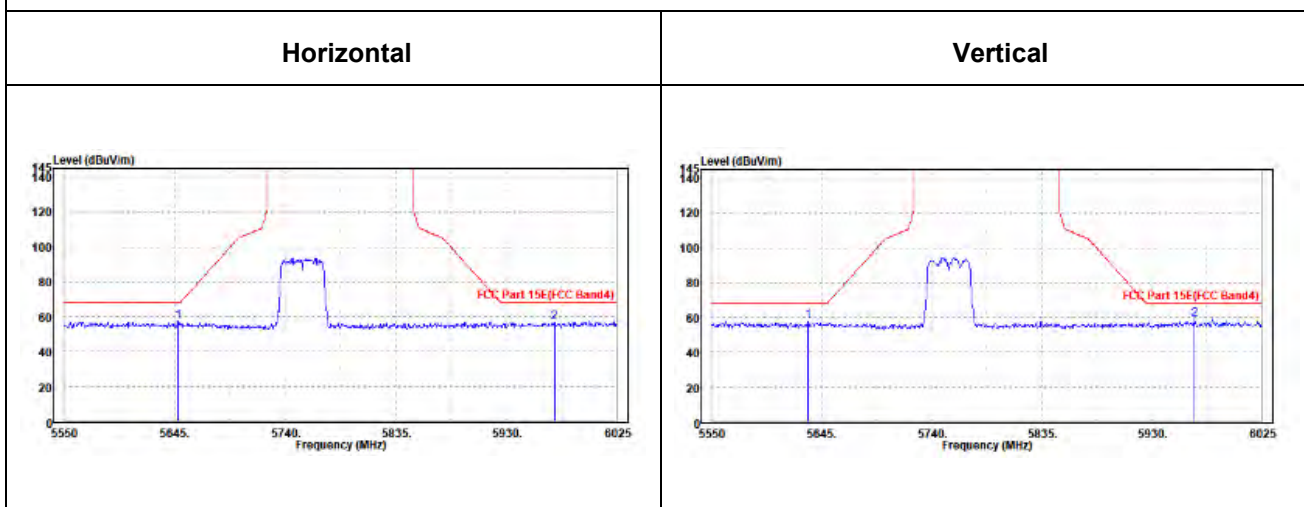


OOBE DATA

802.11n (40MHZ)

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
5647.85	57.6	57.97	68.2	-10.6	34.67	11.62	46.66	100	0	Peak
5971.325	57.02	56.78	68.2	-11.18	35.25	11.74	46.75	100	0	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5632.65	58.14	58.28	68.2	-10.06	34.91	11.61	46.66	100	360	Peak
5967.05	58.97	58.53	68.2	-9.23	35.45	11.74	46.75	100	360	Peak

CH 151





CHANNEL	TX Channel 159	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
5795	93.05	93.15	/	/	34.93	11.67	46.7	100	35	Peak
5795	88.03	88.13	/	/	34.93	11.67	46.7	100	35	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5795	93.68	93.54	/	/	35.17	11.67	46.7	100	110	Peak
5795	88.5	88.36	/	/	35.17	11.67	46.7	100	110	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5795MHz: Fundamental frequency.

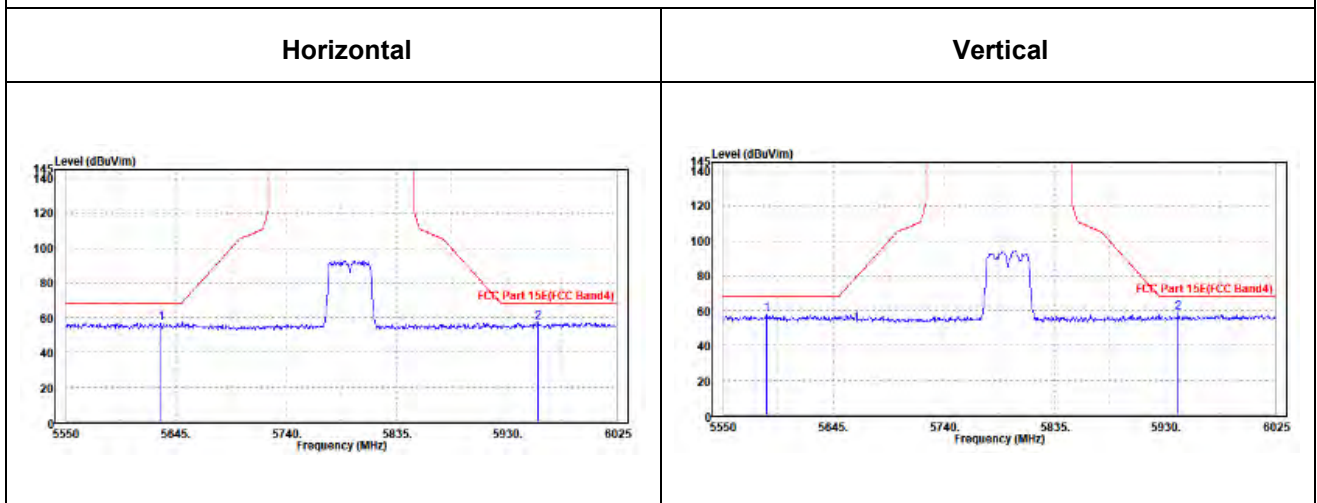


Oobe Data

802.11n (40MHZ)

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
5632.175	57.04	57.45	68.2	-11.16	34.64	11.61	46.66	100	360	Peak
5956.6	57.58	57.38	68.2	-10.62	35.22	11.73	46.75	100	360	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5588	57.64	57.85	68.2	-10.56	34.84	11.59	46.64	100	0	Peak
5941.4	58.91	58.51	68.2	-9.29	35.41	11.73	46.74	100	0	Peak

CH 159





802.11ac (80MHz)

CHANNEL	TX Channel 155	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
5775	86.63	86.77	/	/	34.9	11.66	46.7	100	35	Peak
5775	82.12	82.26	/	/	34.9	11.66	46.7	100	35	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5775	86.35	86.25	/	/	35.14	11.66	46.7	100	110	Peak
5775	81.5	81.4	/	/	35.14	11.66	46.7	100	110	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5775MHz: Fundamental frequency.

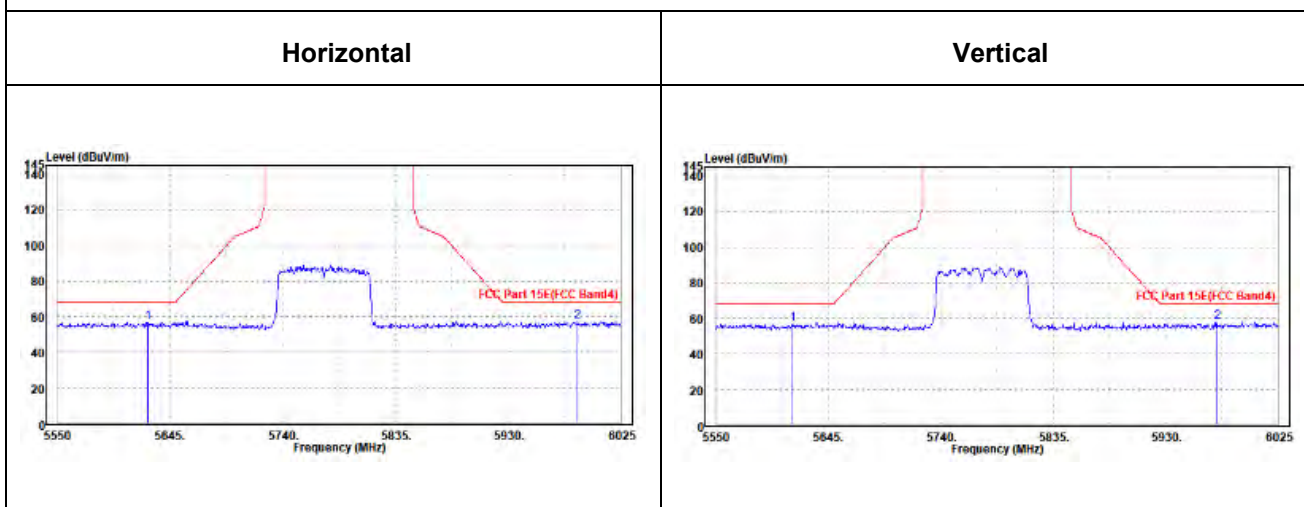


OOBE DATA

802.11ac (80MHZ)

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
5626.475	56.98	57.4	68.2	-11.22	34.63	11.61	46.66	100	0	Peak
5988.425	57.24	56.97	68.2	-10.96	35.28	11.75	46.76	100	0	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5614.6	57.02	57.19	68.2	-11.18	34.88	11.6	46.65	100	360	Peak
5973.225	57.82	57.37	68.2	-10.38	35.46	11.74	46.75	100	360	Peak

CH 155





802.11ax (20MHz)

CHANNEL	TX Channel 149	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
5745	98.05	98.25	/	/	34.84	11.65	46.69	100	50	Peak
5745	90.39	90.59	/	/	34.84	11.65	46.69	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
5745	98.52	98.47	/	/	35.09	11.65	46.69	100	0	Peak
5745	91.43	91.38	/	/	35.09	11.65	46.69	100	0	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5745MHz: Fundamental frequency.

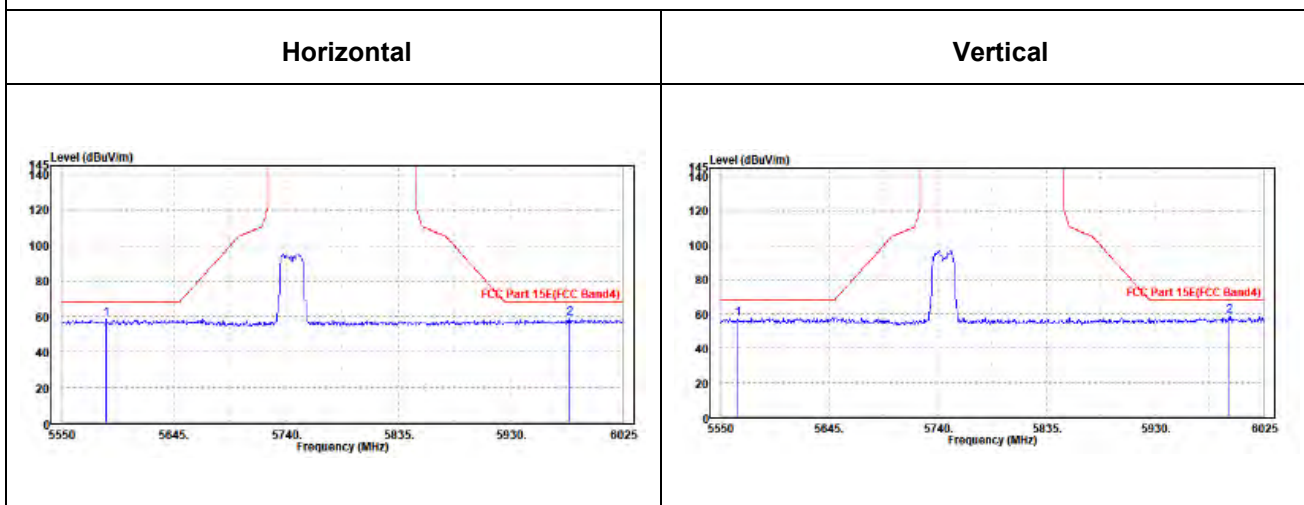


Oobe Data

802.11ax (20MHz)

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
5588	58.46	58.95	68.2	-9.74	34.56	11.59	46.64	100	360	Peak
5979.875	59.2	58.95	68.2	-9	35.26	11.74	46.75	100	360	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5565.675	57.49	57.74	68.2	-10.71	34.81	11.58	46.64	100	0	Peak
5995.075	58.81	58.33	68.2	-9.39	35.49	11.75	46.76	100	0	Peak

CH 149





**BUREAU
VERITAS**

Test Report No.: W7L-P24030018RF03

CHANNEL	TX Channel 157	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
5785	97.37	97.49	/	/	34.91	11.67	46.7	1100	35	Peak
5785	89.14	89.26	/	/	34.91	11.67	46.7	1100	35	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5785	99.29	99.16	/	/	35.16	11.67	46.7	100	0	Peak
5785	90.64	90.51	/	/	35.16	11.67	46.7	100	0	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5785MHz: Fundamental frequency.

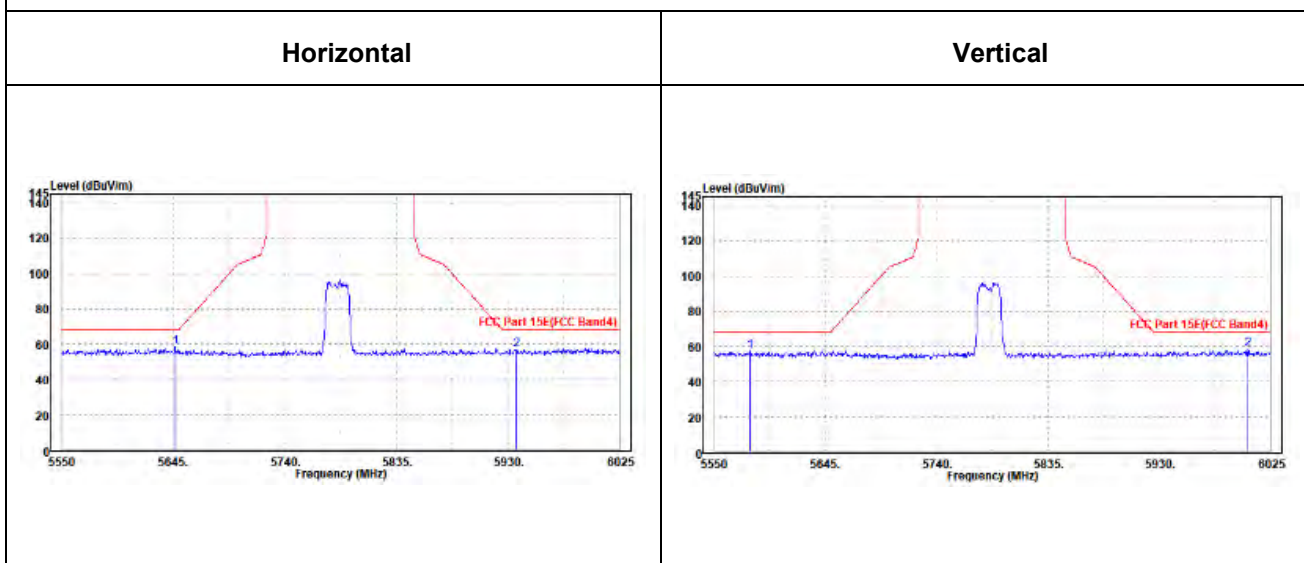


Oobe Data

802.11ax (20MHz)

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
5646.9	58.59	58.97	68.2	-9.61	34.66	11.62	46.66	100	0	Peak
5937.125	57.06	56.88	68.2	-11.14	35.19	11.73	46.74	100	0	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV /m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5581.35	57.27	57.49	68.2	-10.93	34.83	11.59	46.64	100	360	Peak
6005.525	58.46	57.96	68.2	-9.74	35.5	11.76	46.76	100	360	Peak

CH 157





CHANNEL	TX Channel 165	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
5775	98.18	98.32	/	/	34.9	11.66	46.7	100	50	Peak
5775	90.7	90.84	/	/	34.9	11.66	46.7	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
5825	98.32	98.13	/	/	35.22	11.68	46.71	100	0	Peak
5825	90.27	90.08	/	/	35.22	11.68	46.71	100	0	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5825MHz: Fundamental frequency.

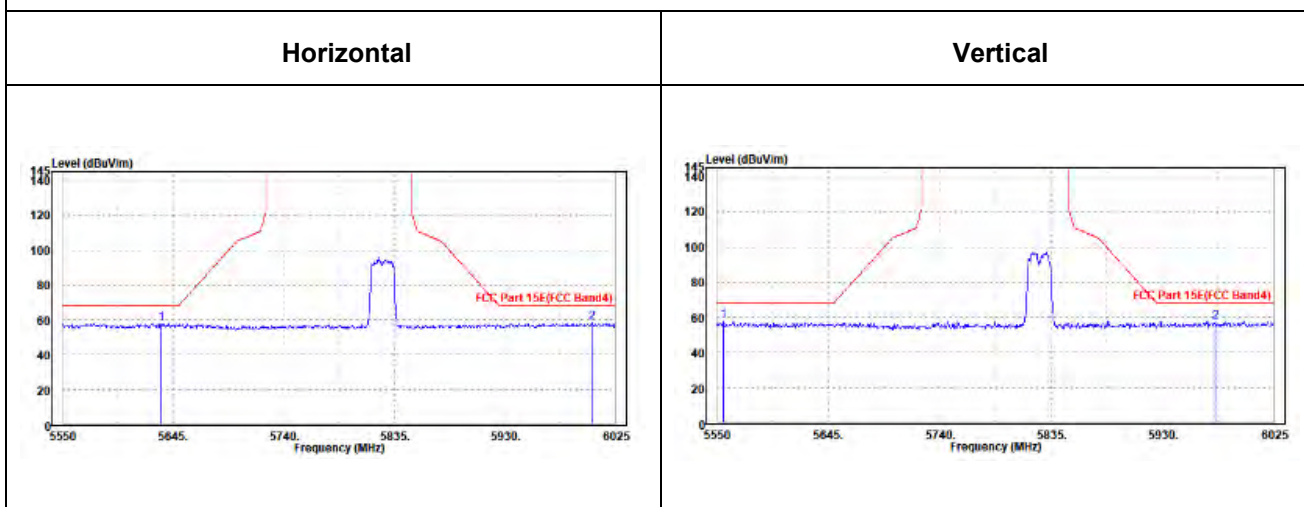


OOBE DATA

802.11ax (20MHZ)

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
5635.025	58.06	58.47	68.2	-10.14	34.64	11.61	46.66	100	360	Peak
6005.05	58.29	57.99	68.2	-9.91	35.3	11.76	46.76	100	360	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5555.225	57.73	58	68.2	-10.47	34.79	11.58	46.64	100	0	Peak
5975.125	57.55	57.1	68.2	-10.65	35.46	11.74	46.75	100	0	Peak

CH 165





802.11ax (40MHz)

CHANNEL	TX Channel 151	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
5775	95.47	95.61	/	/	34.9	11.66	46.7	100	50	Peak
5775	87.78	87.92	/	/	34.9	11.66	46.7	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
5775	94.51	94.41	/	/	35.14	11.66	46.7	100	110	Peak
5775	86.41	86.31	/	/	35.14	11.66	46.7	100	110	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5755MHz: Fundamental frequency.

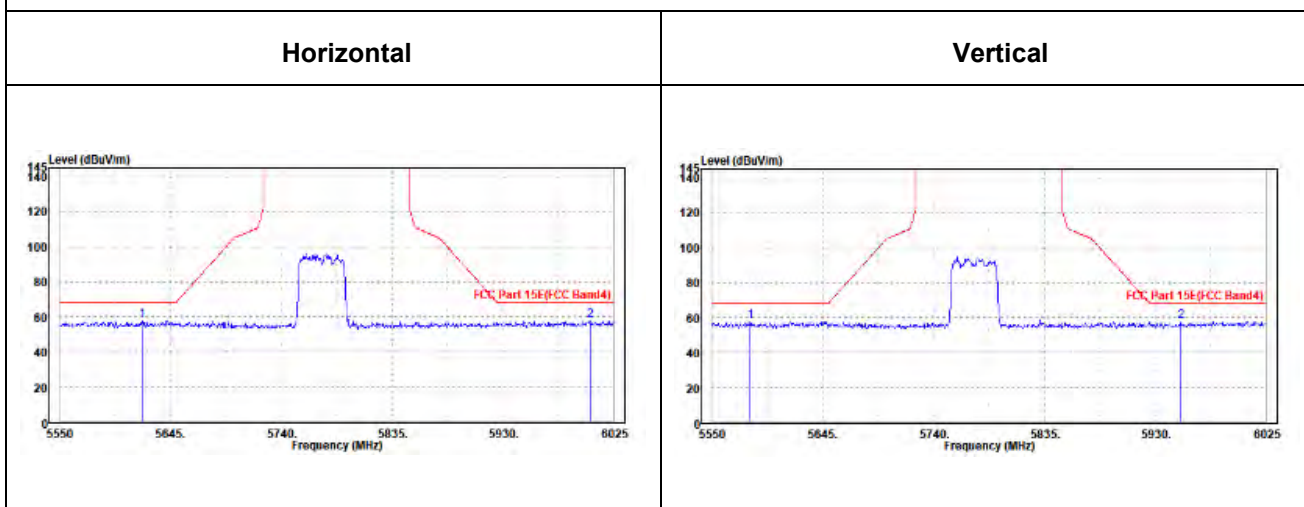


OOBE DATA

802.11ax (40MHZ)

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
5620.3	57.76	58.18	68.2	-10.44	34.62	11.61	46.65	100	0	Peak
6004.575	57.85	57.55	68.2	-10.35	35.3	11.76	46.76	100	0	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5582.775	57.71	57.93	68.2	-10.49	34.83	11.59	46.64	100	360	Peak
5951.85	57.98	57.58	68.2	-10.22	35.42	11.73	46.75	100	360	Peak

CH 151





**BUREAU
VERITAS**

Test Report No.: W7L-P24030018RF03

CHANNEL	TX Channel 159	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
5795	96.67	96.77	/	/	34.93	11.67	46.7	100	50	Peak
5795	89.26	89.36	/	/	34.93	11.67	46.7	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
5795	94.06	94.16	/	/	34.93	11.67	46.7	100	110	Peak
5795	86.48	86.58	/	/	34.93	11.67	46.7	100	110	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5795MHz: Fundamental frequency.

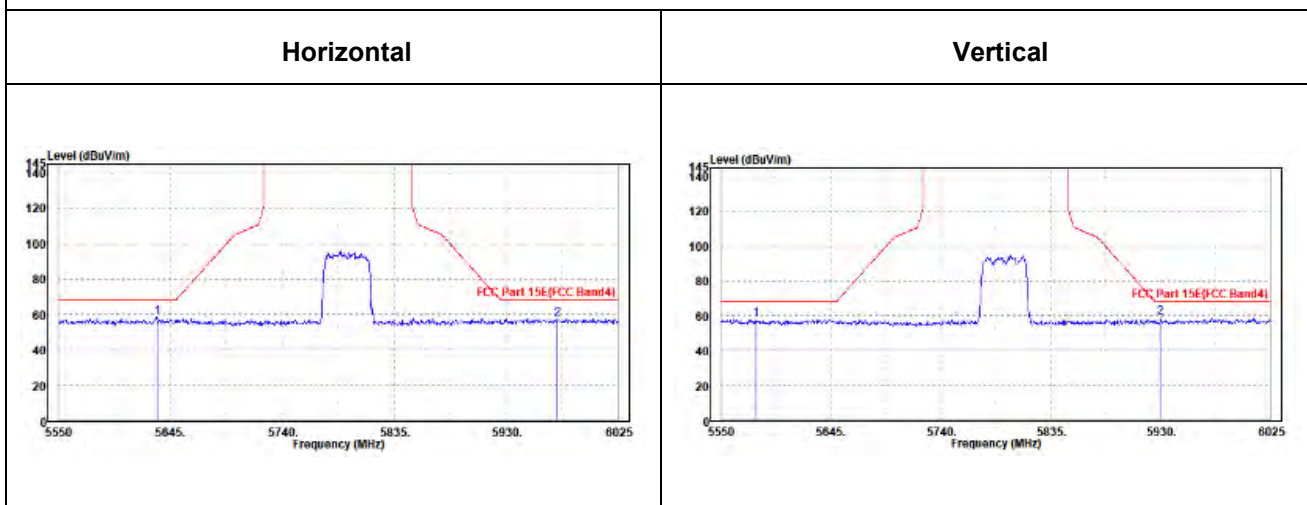


OBE DATA

802.11ax (40MHZ)

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
5633.6	58.57	58.98	68.2	-9.63	34.64	11.61	46.66	100	0	Peak
5973.7	57.57	57.33	68.2	-10.63	35.25	11.74	46.75	100	0	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5579.925	58.11	58.33	68.2	-10.09	34.83	11.59	46.64	100	360	Peak
5930	59.15	58.78	68.2	-9.05	35.39	11.72	46.74	100	360	Peak

CH 159





802.11ax (80MHz)

CHANNEL	TX Channel 155	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
5775	90.51	90.65	/	/	34.9	11.66	46.7	100	40	Peak
5775	85.14	85.28	/	/	34.9	11.66	46.7	100	40	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5775	88.52	88.42	/	/	35.14	11.66	46.7	100	110	Peak
5775	83.73	83.63	/	/	35.14	11.66	46.7	100	110	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5775MHz: Fundamental frequency.

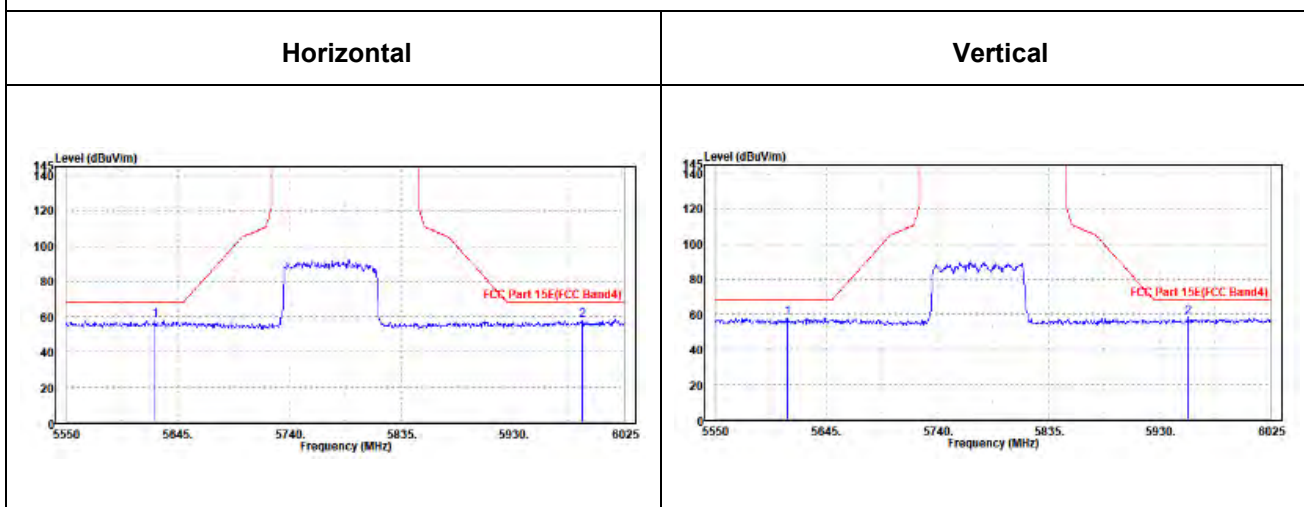


OOBE DATA

802.11ax (80MHZ)

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
5625.525	57.72	58.14	68.2	-10.48	34.63	11.61	46.66	100	360	Peak
5989.375	57.7	57.43	68.2	-10.5	35.28	11.75	46.76	100	360	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5611.275	57.71	57.88	68.2	-10.49	34.88	11.6	46.65	100	0	Peak
5954.7	58.2	57.79	68.2	-10	35.43	11.73	46.75	100	0	Peak

CH 155





5G WIFI-RU

802.11ax (20MHz) (RU242):

CHANNEL	TX Channel 149	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
5745	101.01	101.21	/	/	34.84	11.65	46.69	100	60	Peak
5745	90.11	90.31	/	/	34.84	11.65	46.69	100	60	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5745	97.55	97.5	/	/	35.09	11.65	46.69	100	360	Peak
5745	87.6	87.55	/	/	35.09	11.65	46.69	100	360	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5745MHz: Fundamental frequency.



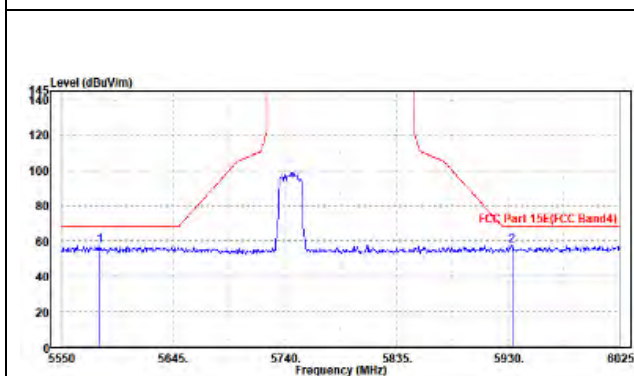
OOBE DATA

802.11ax (20MHz) (RU242):

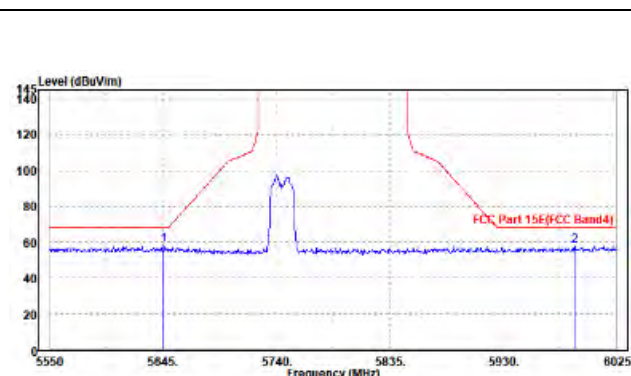
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5582.3	57.43	57.93	68.2	-10.77	34.55	11.59	46.64	100	360	Peak
5933.325	57.29	57.13	68.2	-10.91	35.18	11.72	46.74	100	360	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5645.475	58.18	58.29	68.2	-10.02	34.93	11.62	46.66	100	0	Peak
5989.85	57.78	57.31	68.2	-10.42	35.48	11.75	46.76	100	0	Peak

CH 149

Horizontal



Vertical





**BUREAU
VERITAS**

Test Report No.: W7L-P24030018RF03

CHANNEL	TX Channel 157	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
5785	100.2	100.32	/	/	34.91	11.67	46.7	100	60	Peak
5785	91.18	91.3	/	/	34.91	11.67	46.7	100	60	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5785	98.18	98.05	/	/	35.16	11.67	46.7	100	0	Peak
5785	90.42	90.29	/	/	35.16	11.67	46.7	100	0	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5785MHz: Fundamental frequency.



**BUREAU
VERITAS**

Test Report No.: W7L-P24030018RF03

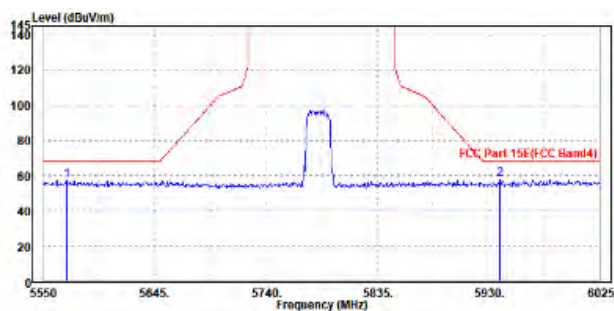
OUBE DATA

802.11ax (20MHz) (RU242):

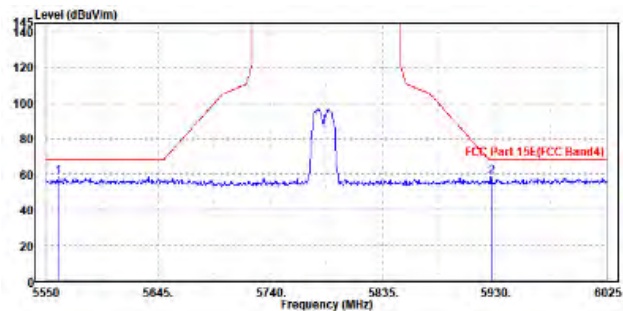
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV /m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5569.95	57.19	57.71	68.2	-11.01	34.53	11.59	46.64	100	0	Peak
5939.5	57.64	57.46	68.2	-10.56	35.19	11.73	46.74	100	0	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV /m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5559.975	58.39	58.65	68.2	-9.81	34.8	11.58	46.64	100	0	Peak
5927.15	58.72	58.36	68.2	-9.48	35.38	11.72	46.74	100	0	Peak

CH 157

Horizontal



Vertical





CHANNEL	TX Channel 165	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
5825	101.25	101.29	/	/	34.99	11.68	46.71	100	60	Peak
5825	90.48	90.52	/	/	34.99	11.68	46.71	100	60	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5825	98.02	97.83	/	/	35.22	11.68	46.71	100	0	Peak
5825	88.82	88.63	/	/	35.22	11.68	46.71	100	0	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5825MHz: Fundamental frequency.



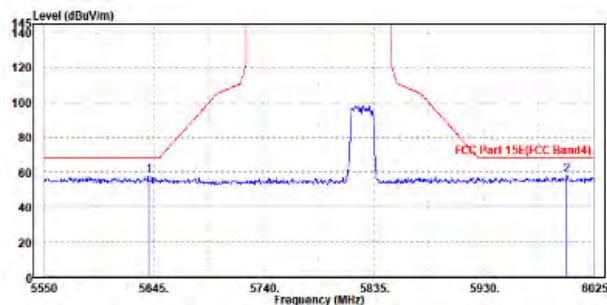
Oobe Data

802.11ax (20MHz) (RU242):

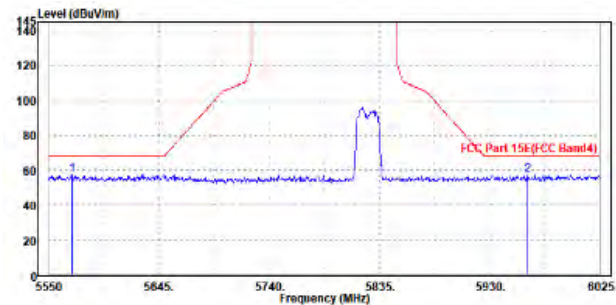
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5640.25	57.8	58.2	68.2	-10.4	34.65	11.61	46.66	100	0	Peak
6001.725	58.3	58.01	68.2	-9.9	35.3	11.75	46.76	100	0	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5570.425	57.49	57.73	68.2	-10.71	34.81	11.59	46.64	100	360	Peak
5962.775	57.52	57.09	68.2	-10.68	35.44	11.74	46.75	100	360	Peak

CH 165

Horizontal



Vertical





802.11ax (40MHz) (RU484):

CHANNEL	TX Channel 151	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
5755	93.9	94.07	/	/	34.86	11.66	46.69	100	60	Peak
5755	86.78	86.95	/	/	34.86	11.66	46.69	100	60	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5755	91.39	91.31	/	/	35.11	11.66	46.69	100	360	Peak
5755	83.49	83.41	/	/	35.11	11.66	46.69	100	360	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5755MHz: Fundamental frequency.



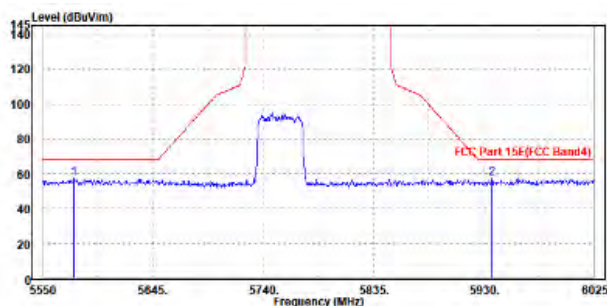
OUBE DATA

802.11ax (40MHz) (RU484):

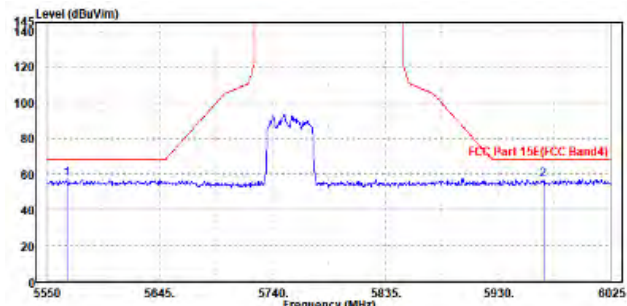
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5576.6	57.25	57.76	68.2	-10.95	34.54	11.59	46.64	100	360	Peak
5936.65	57.41	57.23	68.2	-10.79	35.19	11.73	46.74	100	360	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5566.625	57.29	57.53	68.2	-10.91	34.81	11.59	46.64	100	0	Peak
5968	57.02	56.58	68.2	-11.18	35.45	11.74	46.75	100	0	Peak

CH 151

Horizontal



Vertical





**BUREAU
VERITAS**

Test Report No.: W7L-P24030018RF03

CHANNEL	TX Channel 159	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
5795	94.69	94.79	/	/	34.93	11.67	46.7	100	60	Peak
5795	87.03	87.13	/	/	34.93	11.67	46.7	100	60	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5795	92.52	92.38	/	/	35.17	11.67	46.7	100	0	Peak
5795	84.26	84.12	/	/	35.17	11.67	46.7	100	0	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5795MHz: Fundamental frequency.



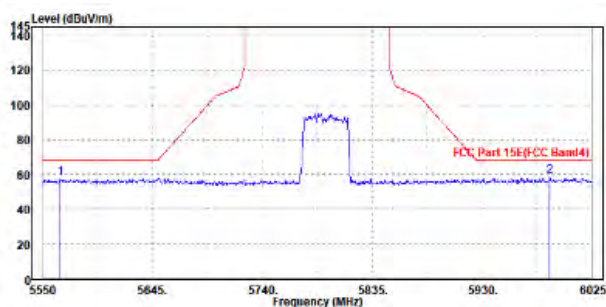
Oobe Data

802.11ax (40MHz) (RU484):

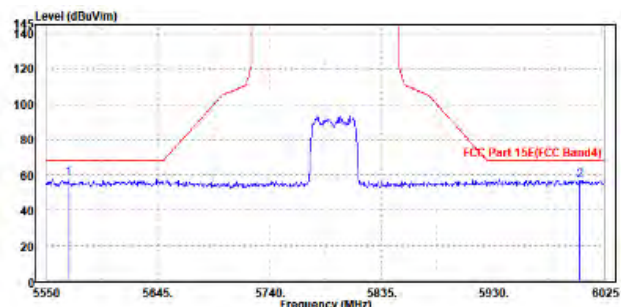
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5565.675	57.99	58.53	68.2	-10.21	34.52	11.58	46.64	100	360	Peak
5988.425	58.75	58.48	68.2	-9.45	35.28	11.75	46.76	100	360	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5569	57.98	58.22	68.2	-10.22	34.81	11.59	46.64	100	0	Peak
6003.625	57	56.5	68.2	-11.2	35.5	11.76	46.76	100	0	Peak

CH 159

Horizontal



Vertical





802.11ax (80MHz) (RU996):

CHANNEL	TX Channel 155	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
5775	92.47	92.37	/	/	35.14	11.66	46.7	100	60	Peak
5775	83.76	83.66	/	/	35.14	11.66	46.7	100	60	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5775	90.34	90.24	/	/	35.14	11.66	46.7	100	0	Peak
5775	81.65	81.55	/	/	35.14	11.66	46.7	100	0	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5775MHz: Fundamental frequency.



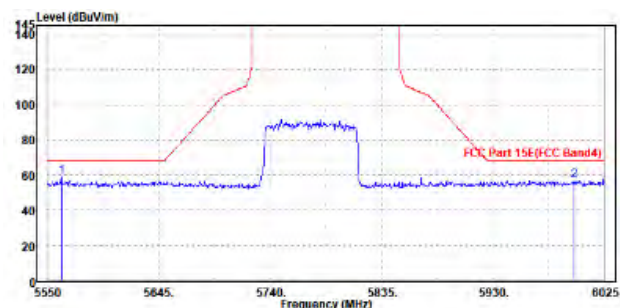
OOBE DATA

802.11ax (80MHz) (RU996):

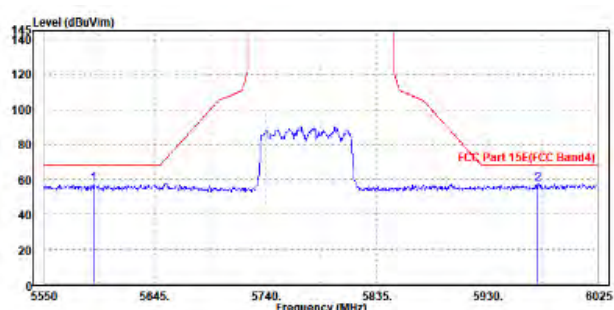
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5561.875	59.01	59.56	68.2	-9.19	34.51	11.58	46.64	100	0	Peak
5999.35	56.73	56.44	68.2	-11.47	35.3	11.75	46.76	100	0	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5592.275	57.15	57.35	68.2	-11.05	34.85	11.6	46.65	100	360	Peak
5973.7	57.46	57.01	68.2	-10.74	35.46	11.74	46.75	100	360	Peak

CH 155

Horizontal



Vertical





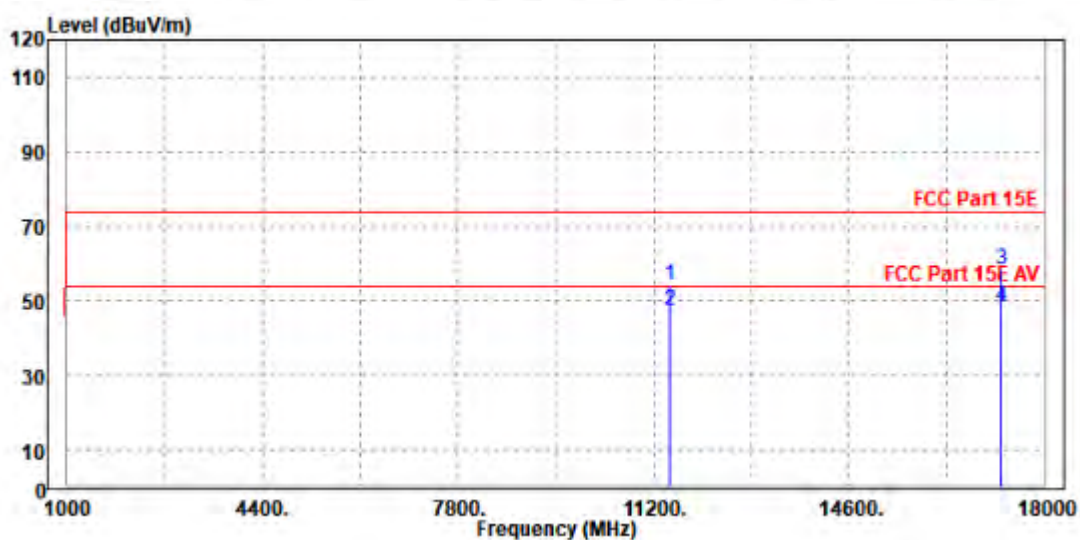
802.11n (20MHz):

Worst case harmonic:

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

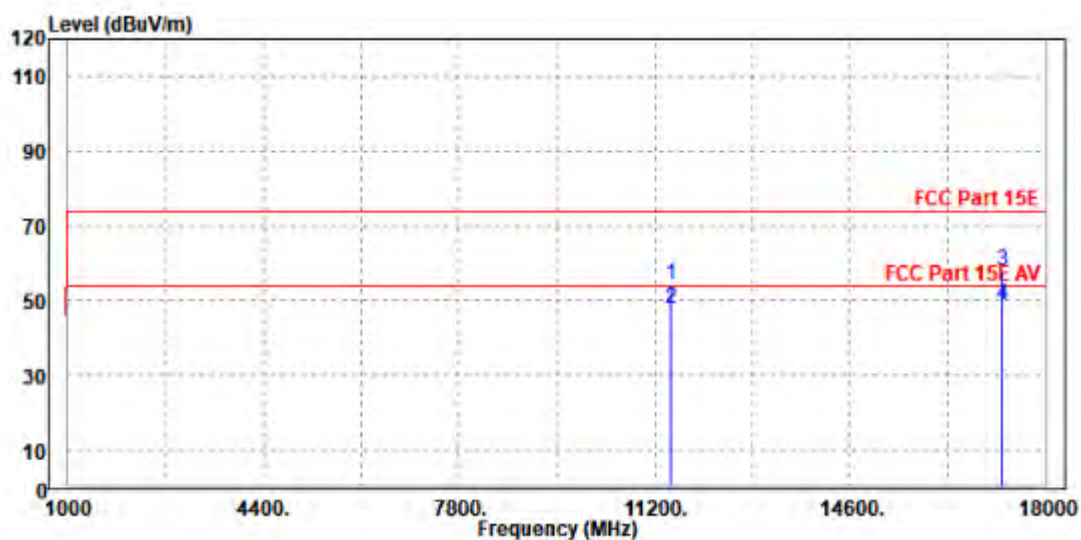
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

	Freq	Level	Read	Limit	Over			
	MHz	dBuV/m	Level	Line	Limit	Factor	Remark	Pol/Phase
			dBuV	dBuV/m	dB	dB/m		
1	11489.000	54.46	44.33	74.00	-19.54	10.13	Peak	Horizontal
2	11489.000	47.56	37.43	54.00	-6.44	10.13	Average	Horizontal
3	PK17235.000	58.28	41.55	74.00	-15.72	16.73	Peak	Horizontal
4	PP17235.000	48.58	31.85	54.00	-5.42	16.73	Average	Horizontal



ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m		
1	11490.000	54.37	44.14	74.00	-19.63	10.23	Peak	Vertical
2	11490.000	47.72	37.49	54.00	-6.28	10.23	Average	Vertical
3	PK17235.000	57.96	40.96	74.00	-16.04	17.00	Peak	Vertical
4	PP17235.000	48.86	31.86	54.00	-5.14	17.00	Average	Vertical



REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5745MHz: Fundamental frequency.
3. For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.

3.2 CONDUCTED EMISSION MEASUREMENT

3.2.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dB μ V)	
	Quasi-peak	Average
0.15 ~ 0.5	66 to 56	56 to 46
0.5 ~ 5	56	46
5 ~ 30	60	50

- NOTE:**
1. The lower limit shall apply at the transition frequencies.
 2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.
 3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

3.2.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESR3	101900	Feb. 14,24	Feb. 13,25
EMC32 test software	Rohde&Schwarz	EMC32	NA	NA	NA
LISN network	Rohde&Schwarz	ENV216	101922	Mar. 10,24	Mar. 09,25

NOTE:

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

3.2.3 TEST PROCEDURES

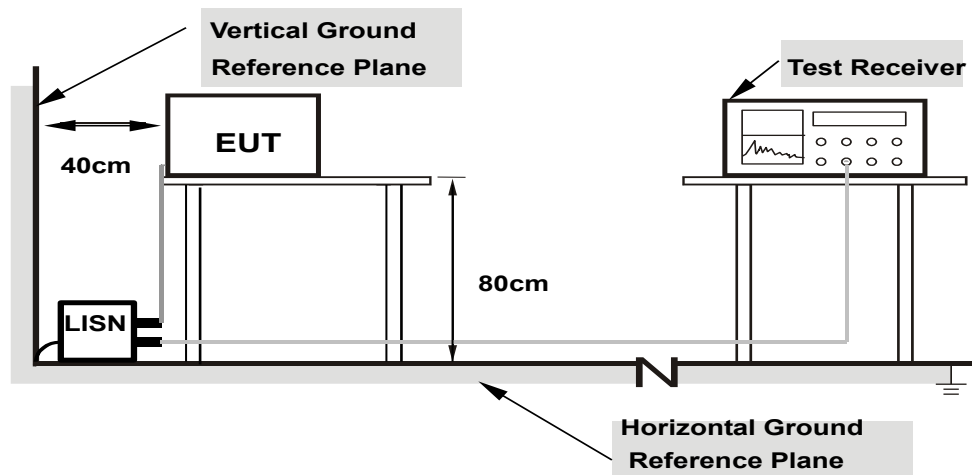
- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

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

3.2.4 DEVIATION FROM TEST STANDARD

No deviation.

3.2.5 TEST SETUP



**Note: 1.Support units were connected to second LISN.
2.Both of LISNs (AMN) are 80 cm from EUT and at least 80
from other units and other metal planes**

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

3.2.6 EUT OPERATING CONDITIONS

Same as 3.1.7.

3.2.7 TEST RESULTS

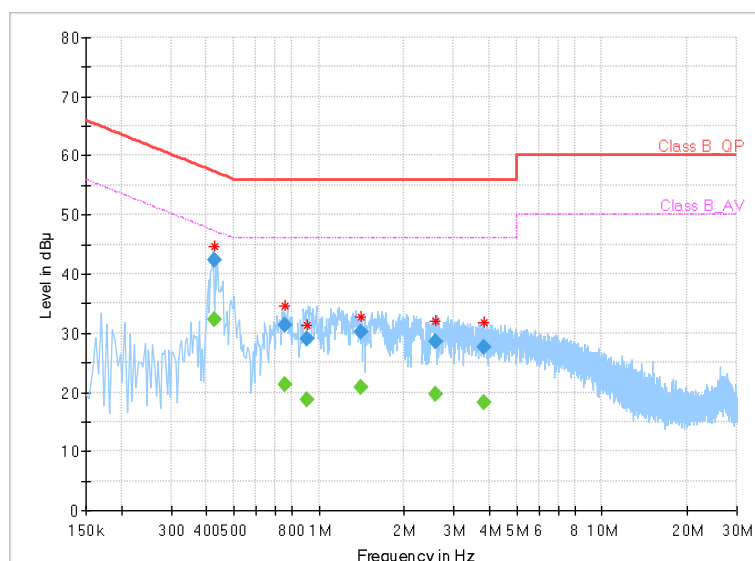
CONDUCTED WORST-CASE DATA:

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

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.428000	---	32.23	47.29	15.06	L1	ON	9.8
0.428000	42.25	---	57.29	15.04	L1	ON	9.8
0.756000	---	21.33	46.00	24.67	L1	ON	9.8
0.756000	31.38	---	56.00	24.62	L1	ON	9.8
0.904000	---	18.65	46.00	27.35	L1	ON	9.8
0.904000	28.91	---	56.00	27.09	L1	ON	9.8
1.404000	---	20.74	46.00	25.26	L1	ON	9.8
1.404000	30.29	---	56.00	25.71	L1	ON	9.8
2.592000	---	19.54	46.00	26.46	L1	ON	9.8
2.592000	28.52	---	56.00	27.48	L1	ON	9.8
3.844000	---	18.36	46.00	27.64	L1	ON	9.8
3.844000	27.61	---	56.00	28.39	L1	ON	9.8

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

Full Spectrum

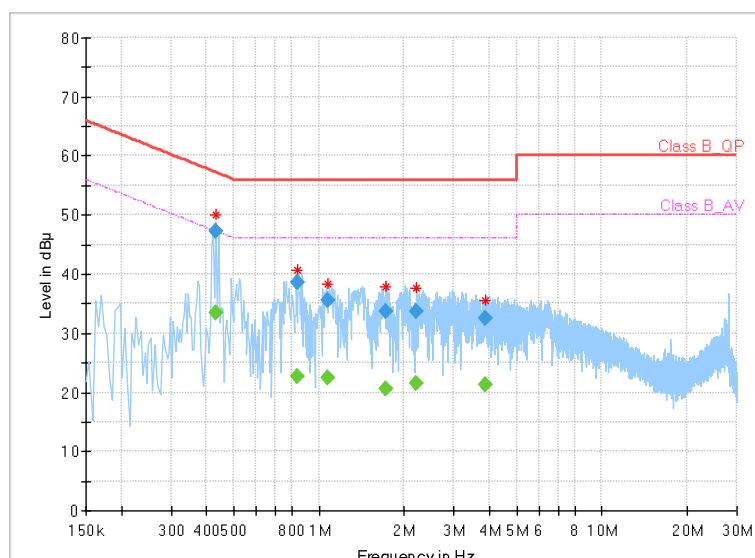


Frequency Range	150KHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120Vac, 60Hz	Environmental Conditions	26deg. C, 51%RH
Tested By	Carl Xie		

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.432000	---	33.36	47.21	13.85	N	ON	9.6
0.432000	47.25	---	57.21	9.96	N	ON	9.6
0.840000	---	22.73	46.00	23.27	N	ON	9.7
0.840000	38.55	---	56.00	17.45	N	ON	9.7
1.072000	---	22.52	46.00	23.48	N	ON	9.7
1.072000	35.61	---	56.00	20.39	N	ON	9.7
1.728000	---	20.69	46.00	25.31	N	ON	9.8
1.728000	33.62	---	56.00	22.38	N	ON	9.8
2.212000	---	21.43	46.00	24.57	N	ON	9.8
2.212000	33.78	---	56.00	22.22	N	ON	9.8
3.880000	---	21.20	46.00	24.80	N	ON	9.7
3.880000	32.59	---	56.00	23.41	N	ON	9.7

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

Full Spectrum



3.3 MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

3.3.1 LIMITS OF MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

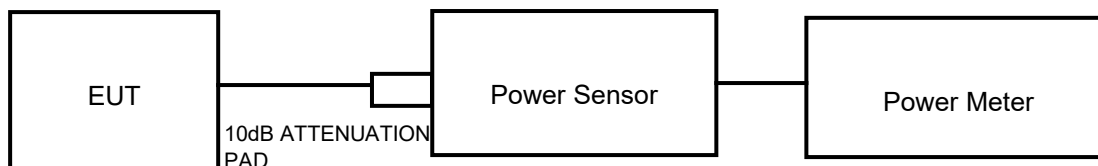
Operation Band	EUT Category		LIMIT
U-NII-1		Outdoor Access Point	1 Watt (30 dBm) (Max. e.i.r.p $\leq$ 125mW(21 dBm) at any elevation angle above 30 degrees as measured from the horizon)
		Fixed point-to-point Access Point	1 Watt (30 dBm)
		Indoor Access Point	1 Watt (30 dBm)
	√	Client devices	250mW (24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

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

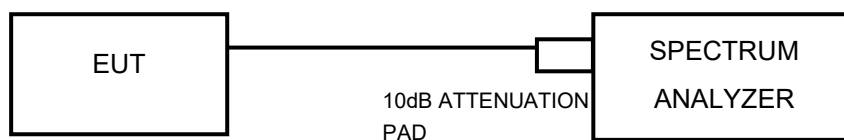
3.3.2 TEST SETUP

FOR POWER OUTPUT MEASUREMENT

802.11a, 802.11n/ac/ax (20MHz), 802.11 n/ac/ax (40MHz) ,802.11 ac/ax (80MHz) TEST CONFIGURATION



FOR 26dB BANDWIDTH



3.3.3 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Power Meter	ANRITSU	ML2495A	1506002	Feb. 14,24	Feb. 13,25
EXA Signal Analyzer	KEYSIGHT	N9010A-526	MY54510523	Feb. 14,24	Feb. 13,25
EXA Signal Analyzer	KEYSIGHT	N9010A-544	MY54510355	May.10,23	May.09,24
EXA Signal Analyzer	KEYSIGHT	N9010A-544	MY54510355	May.09,24	May.08,25
Power Sensor	ANRITSU	MA2411B	1339352	Feb. 14,24	Feb. 13,25

NOTE:

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

3.3.4 TEST PROCEDURE

FOR POWER MEASUREMENT

For 802.11a, 802.11n/ac/ax (20MHz), 802.11 n/ac/ax (40MHz) ,802.11 ac/ax (80MHz)

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

FOR 99 PERCENT OCCUPIED BANDWIDTH

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

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

FOR 26dB BANDWIDTH

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



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FOR 6dB BANDWIDTH

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

3.3.5 DEVIATION FROM TEST STANDARD

No deviation.

3.3.6 EUT OPERATING CONDITIONS

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



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3.3.7 TEST RESULTS

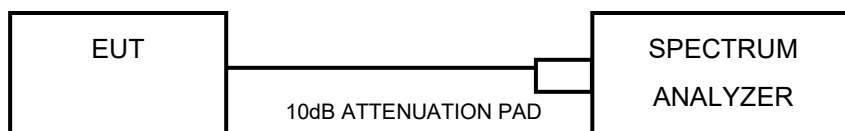
Please Refer to Appendix C.

3.4 MAXIMUM POWER SPECTRAL DENSITY MEASUREMENT

3.4.1 LIMITS OF MAXIMUM POWER SPECTRAL DENSITY MEASUREMENT

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

3.4.2 TEST SETUP



3.4.3 TEST INSTRUMENTS

Refer to section 3.3.3 to get information of above instrument.

3.4.4 TEST PROCEDURES

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

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

Using method SA-2 (Band4)

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

3.4.5 DEVIATION FROM TEST STANDARD

No deviation.

3.4.6 EUT OPERATING CONDITIONS

Same as 3.1.7.



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3.4.7 TEST RESULTS

Please Refer to Appendix C.

3.5 AUTOMATICALLY DISCONTINUE TRANSMISSION

3.5.1 LIMIT OF AUTOMATICALLY DISCONTINUE TRANSMISSION

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

3.5.2 TEST INSTRUMENTS

Refer to section 3.3.3 to get information of above instrument.

3.5.3 TEST RESULT

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

3.6 ANTENNA REQUIREMENTS

3.6.1 STANDARD APPLICABLE

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

3.6.2 ANTENNA CONNECTED CONSTRUCTION

An embedded-in antenna design is used.

3.6.3 ANTENNA GAIN

According to FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

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

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

Array Gain= $10 \log(NANT/ Nss)$ dB;

For power measurements on IEEE 802.11 devices, Array Gain = 0 dB for $NANT \leq 4$;

The EUT supports Cyclic Delay Diversity (CDD) mode,

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

Directional Gain = Max.Gain + Array Gain.

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

The directional gain is calculated as following table.

	Band	Ant 8 (dBi)	Ant 9 (dBi)	DG For Power (dBi)	DG For PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
5GHz	U-NII 1	-0.4	-0.2	-0.2	2.71	0	0
	U-NII 2A	-0.4	-0.2	-0.2	2.71	0	0
	U-NII 2C	-0.4	-0.2	-0.2	2.71	0	0
	U-NII 3	-0.4	-0.2	-0.2	2.71	0	0

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

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



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4 PHOTOGRAPHS OF THE TEST CONFIGURATION

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

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

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

--END--