



BUREAU
VERITAS

Test Report No.: RF150612N055-3



Test Lab
Cert 2951.01

TEST REPORT

Applicant	Acer Incorporated
Address	8F, 88, Sec. 1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan

Manufacturer or Supplier	Acer Incorporated
Address	8F, 88, Sec. 1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan
Product	Tablet Computer
Marketing Name	B3-A10
Brand Name	acer
Model	A5005
Additional Model & Model Difference	N/A
Date of tests	Jun. 12, 2015 ~ Jul. 24, 2015

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

Tested by Breeze Jiang
Project Engineer / EMC Department

Approved by Chris Chen
Assistant Manager / EMC Department

Date: Jul. 27, 2015

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Test Report No.: RF150612N055-3

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF150612N055-3	Original release	Jul. 27, 2015



1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC PART 15, SUBPART E (SECTION 15.407 Under New/ Old Rule)			
STANDARD SECTION	TEST TYPE AND LIMIT	RESULT	REMARK
15.407(b)(6)	AC Power Conducted Emission	PASS	Meet the requirement of limit.
15.407 (b)(1/2/3/4/6)	Radiated Emissions: 30MHz ~ 40000MHz	PASS	Meet the requirement of limit.
15.407 (b)(1/2/3/4/6)	Band Edge Measurement	PASS	Meet the requirement of limit.
15.407(a)(1/2/3)	Conducted output Power	PASS	Meet the requirement of limit.
15.407(a)(1/2/3)	Peak Power Spectral Density	PASS	Meet the requirement of limit.
15.407(g)	Frequency Stability	PASS	Meet the requirement of limit.
15.203	Antenna Requirement	PASS	No antenna connector is used

2 MEASUREMENT UNCERTAINTY

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

MEASUREMENT	FREQUENCY	UNCERTAINTY
Conducted emissions	9kHz~30MHz	2.66dB
Radiated emissions	9KHz ~ 30MHz	2.74dB
	30MHz ~ 1GMHz	3.55dB
	1GHz ~ 18GHz	4.84dB
	18GHz ~ 40GHz	4.84dB

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



3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

EUT	Tablet Computer
MODEL NO.	A5005
FCC ID	HLZA5005
POWER SUPPLY	DC 3.8V by Li-ion Battery, DC5.35V by Adaptor or USB Host Unit
MODULATION TYPE	64QAM, 16QAM, QPSK, BPSK
MODULATION TECHNOLOGY	OFDM
TRANSFER RATE	802.11a: 54.0/ 48.0/ 36.0/ 24.0/ 18.0/ 12.0/ 9.0/ 6.0Mbps 802.11n: up to 135Mbps
OPERATING FREQUENCY	5180 ~ 5240MHz, 5260 ~ 5320MHz 5500 ~ 5700MHz, 5745 ~ 5825MHz
NUMBER OF CHANNEL	5180 ~ 5240MHz: 3 for 802.11a, 802.11n (20MHz) 2 for 802.11n (40MHz) 5260 ~ 5320MHz: 3 for 802.11a, 802.11n (20MHz) 2 for 802.11n (40MHz) 5500 ~ 5700MHz: 3 for 802.11a, 802.11n (20MHz) 3 for 802.11n (40MHz) 5745 ~ 5825MHz: 3 for 802.11a, 802.11n (20MHz) 2 for 802.11n (40MHz)
OUTPUT POWER	13.38 dBm for 5180 ~ 5240MHz (Maximum Average Power) 13.70 dBm for 5260 ~ 5320MHz (Maximum Average Power) 13.52 dBm for 5500 ~ 5700MHz (Maximum Average Power) 13.74 dBm for 5745 ~ 5825MHz (Maximum Average Power)
ANTENNA TYPE	5180 ~ 5240MHz: Monopole antenna with -0.36dBi gain 5260 ~ 5320MHz: Monopole antenna with -0.27dBi gain 5500 ~ 5700MHz: Monopole antenna with -0.22dBi gain 5745 ~ 5825MHz: Monopole antenna with -0.32dBi gain
DATA CABLE	USB Cable : Shielded, detachable, 1.0m
I/O PORTS	Refer to user's manual

NOTE:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
2. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.



- 3. Please refer to the EUT photo document (Reference No.: 150612N055) for detailed product photo.
- 4. The EUT was powered by the following adapters:

ADAPTER 1	
BRAND:	LITEON
MODEL:	PA-1100-25
INPUT:	AC 100-240V, 50/60Hz, 0.3A
OUTPUT:	DC 5.35V, 2.0A
ADAPTER 2	
BRAND:	DELTA
MODEL:	ADP-10HW
INPUT:	AC 100-240V, 50-60HZ, 0.4A
OUTPUT:	DC 5.35V, 2A

EUT had been tested with all of adapter model, and only the worst case was shown in this test report, then the worst case model: PA-1100-25 (LITEON)

- 5. Configuration Table as below:

Config	Trial production plan	Mainboard	FLASH	PCB	EMMC	DDR	LCM	TP	Front Cam	Rear Cam	Box	Motor	FPC	Antenna
Config 2	B-Build 1	A6025A	16G	WUZHU	Kingston	Hynix	Tong xing da	He li tai (White)	Bo li xin	Qun hui	Hao sheng	Yue sui	Ge rui hong	Wei er chuang
Config 1	B-Build 2	A6025A	16G	RED BOARD LTD	Samsung	Samsung	Guo xian	He li tai (Black)	Hua quan	Hua quan	Hao sheng	Hong zhi fa	Xin li	Wei er chuang
Config 6	B-Build 2	A6025B	32G	RED BOARD LTD	Kingston	Samsung	Guo xian	He li tai (White)	Hua quan	Hua quan	Hao sheng	Hong zhi fa	Xin li	Wei er chuang
Config 3	C-Build	A6025B	32G	RED BOARD LTD	Kingston	Samsung	Guo xian	De pu te (Black)	Hua quan	Hua quan	Hao sheng	Hong zhi fa	Xin li	Wei er chuang
Config 4	C-Build	A6026B	16G	WUZHU	Kingston	Hynix	Tong xing da	De pu te (Black)	Bo li xin	Qun hui	Hao sheng	Yue sui	Ge rui hong	Wei er chuang

The worst case configuration: Config 6



3.2 DESCRIPTION OF TEST MODES

FOR 5150 ~ 5250MHz

3 channels are provided for 802.11a, 802.11n (20MHz):

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

2 channels are provided for 802.11n (40MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
38	5190 MHz	46	5230 MHz

FOR 5250 ~ 5350MHz

3 channels are provided for 802.11a, 802.11n (20MHz):

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

2 channels are provided for 802.11n (40MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
54	5270 MHz	62	5310 MHz



FOR 5470 ~ 5725MHz

3 channels are provided for 802.11a, 802.11n (20MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
100	5500 MHz	116	5580 MHz
140	5700 MHz		

3 channels are provided for 802.11n (40MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
102	5510 MHz	110	5550 MHz
134	5670 MHz		

FOR 5725 ~ 5850MHz

3 channels are provided for 802.11a, 802.11n (20MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
149	5745MHz	157	5785MHz
165	5825MHz		

2 channels are provided for 802.11n (40MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
151	5755MHz	159	5795MHz



3.2.1 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

EUT CONFIGURE MODE	APPLICABLE TO				DESCRIPTION
	RE≥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≥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 **Y-plane**.
NOTE: "-" means no effect.

RADIATED EMISSION TEST (ABOVE 1GHz):

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

EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
A	802.11a	5180-5240	36 to 48	36, 40, 48	OFDM	BPSK	6.0
A	802.11n (20MHz)		36 to 48	36, 40, 48	OFDM	BPSK	MCS0
A	802.11n (40MHz)		38 to 46	38, 46	OFDM	BPSK	MCS0
A	802.11a	5260-5320	52 to 64	52, 56, 64	OFDM	BPSK	6.0
A	802.11n (20MHz)		52 to 64	52, 56, 64	OFDM	BPSK	MCS0
A	802.11n (40MHz)		54 to 62	54, 62	OFDM	BPSK	MCS0
A	802.11a	5500-5700	100 to 140	100, 116, 140	OFDM	BPSK	6.0
A	802.11n (20MHz)		100 to 140	100, 116, 140	OFDM	BPSK	MCS0
A	802.11n (40MHz)		102 to 134	102, 110, 134	OFDM	BPSK	MCS0
A	802.11a	5725-5825	149 to 165	149, 157, 165	OFDM	BPSK	6.0
A	802.11n (20MHz)		149 to 165	149, 157, 165	OFDM	BPSK	MCS0
A	802.11n (40MHz)		151 to 159	151, 159	OFDM	BPSK	MCS0

RADIATED EMISSION TEST (BELOW 1GHz):

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

EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
A	802.11a	5180-5320	36 to 64	36	OFDM	BPSK	6.0



POWER LINE CONDUCTED EMISSION TEST:

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

EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
A	802.11a	5180-5320	36 to 64	36	OFDM	BPSK	6.0

BANDEDGE MEASUREMENT:

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

EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
A	802.11a	5180-5240	36 to 48	36, 48	OFDM	BPSK	6.0
A	802.11n (20MHz)		36 to 48	36, 48	OFDM	BPSK	MCS0
A	802.11n (40MHz)		38 to 46	38, 46	OFDM	BPSK	MCS0
A	802.11a	5260-5320	52 to 64	52, 64	OFDM	BPSK	6.0
A	802.11n (20MHz)		52 to 64	52, 64	OFDM	BPSK	MCS0
A	802.11n (40MHz)		54 to 62	54, 62	OFDM	BPSK	MCS0
A	802.11a	5500-5700	100 to 140	100, 140	OFDM	BPSK	6.0
A	802.11n (20MHz)		100 to 140	100, 140	OFDM	BPSK	MCS0
A	802.11n (40MHz)		102 to 134	102, 134	OFDM	BPSK	MCS0
A	802.11a	5725-5825	149 to 165	149, 165	OFDM	BPSK	6.0
A	802.11n (20MHz)		149 to 165	149, 165	OFDM	BPSK	MCS0
A	802.11n (40MHz)		151 to 159	151, 159	OFDM	BPSK	MCS0



ANTENNA PORT CONDUCTED MEASUREMENT:

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

EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
B	802.11a	5180-5240	36 to 48	36, 40, 48	OFDM	BPSK	6.0
B	802.11n (20MHz)		36 to 48	36, 40, 48	OFDM	BPSK	MCS0
B	802.11n (40MHz)		38 to 46	38, 46	OFDM	BPSK	MCS0
B	802.11a	5260-5320	52 to 64	52, 56, 64	OFDM	BPSK	6.0
B	802.11n (20MHz)		52 to 64	52, 56, 64	OFDM	BPSK	MCS0
B	802.11n (40MHz)		54 to 62	54, 62	OFDM	BPSK	MCS0
B	802.11a	5500-5700	100 to 140	100, 116, 140	OFDM	BPSK	6.0
B	802.11n (20MHz)		100 to 140	100, 116, 140	OFDM	BPSK	MCS0
B	802.11n (40MHz)		102 to 134	102, 110, 134	OFDM	BPSK	MCS0
B	802.11a	5725-5825	149 to 165	149, 157, 165	OFDM	BPSK	6.0
B	802.11n (20MHz)		149 to 165	149, 157, 165	OFDM	BPSK	MCS0
B	802.11n (40MHz)		151 to 159	151, 159	OFDM	BPSK	MCS0

TEST CONDITION:

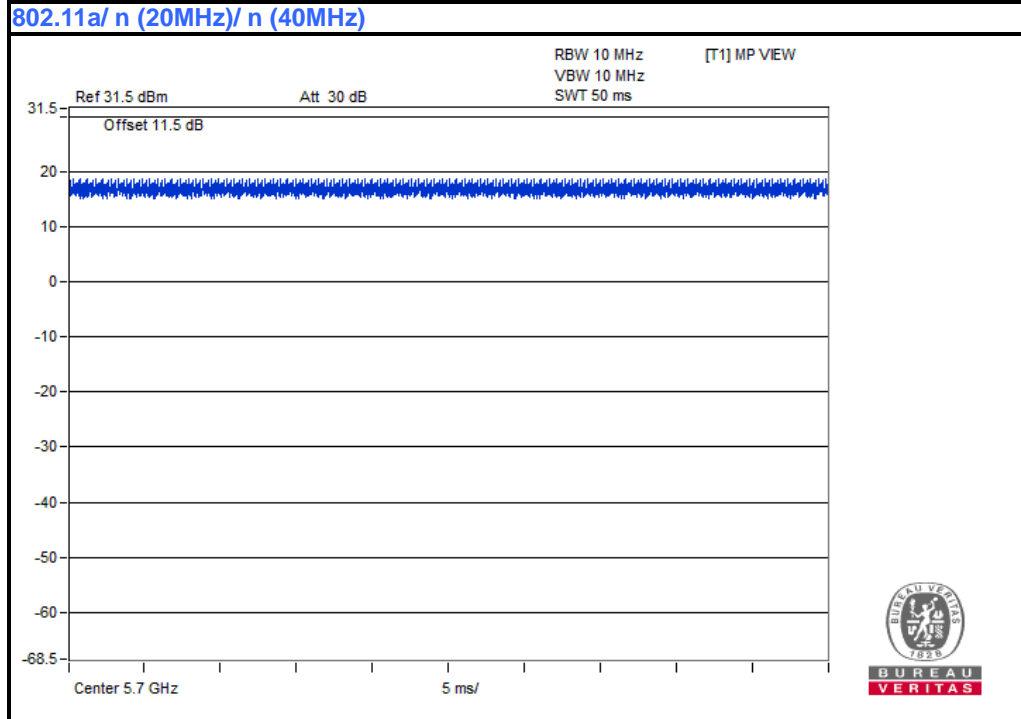
APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
RE<1G	26deg. C, 67%RH	DC 5.35V from Adapter	Sen He
RE≥1G	26deg. C, 67%RH	DC 5.35V from Adapter	Sen He
PLC	20deg. C, 56%RH	DC 5.35V from Adapter	Sen He
APCM	20deg. C, 55%RH	DC 3.8V from Battery	Blue Zheng



3.3 DUTY CYCLE OF TEST SIGNAL

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

802.11a/ n (20MHz)/ n (40MHz): Duty cycle = 1, Duty factor = $10 * \log(1) = 0$





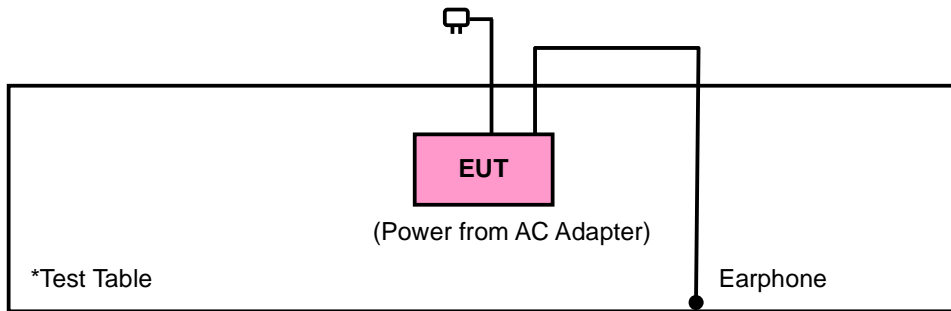
3.4 DESCRIPTION OF SUPPORT UNITS

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

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	DC source	LONG WEI	PS-6403D	010934269	N/A
2	Eeahone	Lenovo	P-320	HP001	N/A

NO.	DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	AC Line;unshielded, detachable 1.8m.
2	Eeahone earphone: unshielded, undetachable 1.2m.

3.4.1 CONFIGURATION OF SYSTEM UNDER TEST



3.5 GENERAL DESCRIPTION OF APPLIED STANDARDS

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

FCC Part 15, Subpart E (15.407)

KDB 789033 D02_v01_General UNII Test Procedures New Rules

ANSI C63.10-2009

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 (DoC). The test report has been issued separately.



4. TEST TYPES AND RESULTS

4.1 RADIATED EMISSION AND BANDEDGE MEASUREMENT

4.1.1 LIMITS OF RADIATED EMISSION AND BANDEDGE MEASUREMENT

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

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

NOTE:

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

4.1.2 LIMITS OF UNWANTED EMISSION OUT OF THE RESTRICTED BANDS

APPLICABLE TO	LIMIT	
	FIELD STRENGTH AT 3m (dBµV/m)	
	PK	AV
	74	54
√	EIRP LIMIT (dBm)	EQUIVALENT FIELD STRENGTH AT 3m (dBµV/m)
	PK	PK
	-27	68.3
	-17	78.3

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

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



4.1.3 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESR7	101494	Apr 27,15	Apr 26,16
Signal and Spectrum Analyzer	Rohde&Schwarz	FSV40	101094	Apr 23,15	Apr 22,16
Bilog Antenna	Teseq	CBL 6111D	30643	Jul. 16, 15	Jul. 15, 16
Horn Antenna	ETS-Lindgren	3117	00062558	May 30,14	May 29,16
Amplifier (9kHz-1GHz)	SONOMA	310D	186955	Mar. 04,15	Mar. 03, 16
Pre-Amplifier (0.5~18GHz)	SCHWARZBECK	BBV 9718	9718-266	Mar 26,14	Mar 25,16
GPS Generator+ Antenna	TOJOIN	GNSS-5000A	E1-010119	Aug. 08, 14	Aug. 07, 15
3m Semi-anechoic Chamber	ETS-LINDGREN	9m*6m*6m	NSEMC003	April. 19,14	April. 18,16
Test Software	ADT	ADT_Radiated_V7.6.15.9.2	N/A	N/A	N/A

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 966 Chamber.
3. The FCC Site Registration No. is 502831.



4.1.4 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. 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:

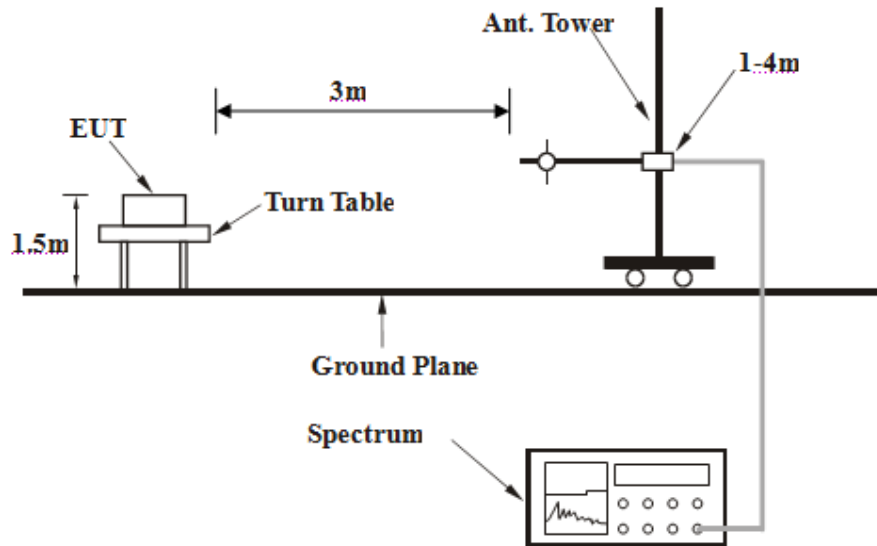
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency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

4.1.5 DEVIATION FROM TEST STANDARD

No deviation.



4.1.6 TEST SETUP



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

4.1.7 EUT OPERATING CONDITION

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



4.1.8 TEST RESULTS

BELOW 1GHz WORST-CASE DATA:

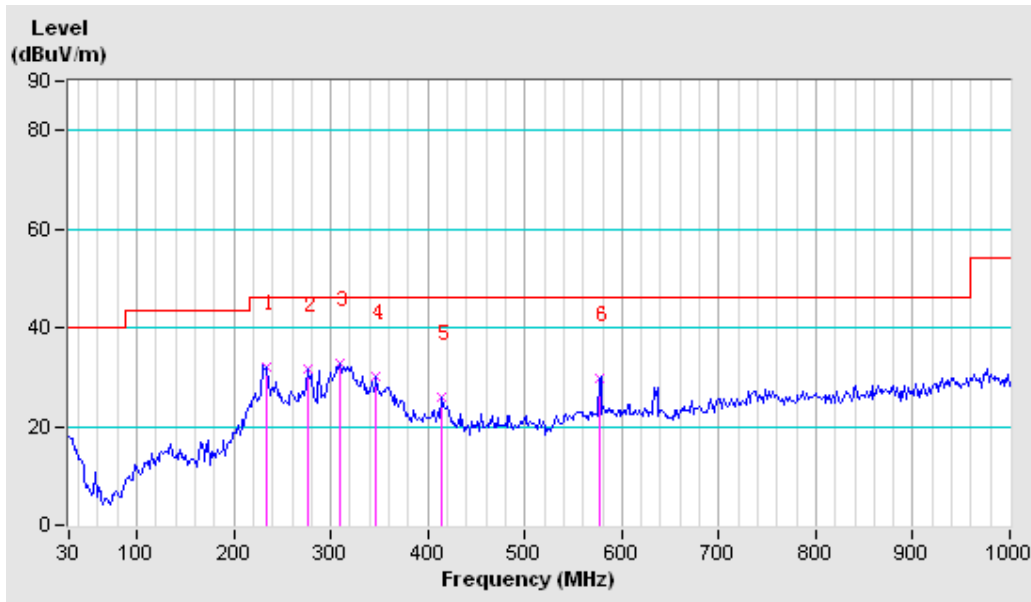
802.11a

CHANNEL	Channel 36	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	233.70	32.1 QP	46.0	-13.9	1.00 H	31	19.11	13.01
2	275.73	31.5 QP	46.0	-14.5	1.00 H	20	15.95	15.56
3	309.68	32.7 QP	46.0	-13.3	1.00 H	6	15.90	16.81
4	346.87	30.3 QP	46.0	-15.7	1.00 H	44	12.90	17.37
5	414.77	26.0 QP	46.0	-20.0	1.00 H	56	5.47	20.52
6	576.43	29.8 QP	46.0	-16.2	1.00 H	67	5.28	24.55

REMARKS:

1. Emission level (dBuV/m) = Raw Value (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.



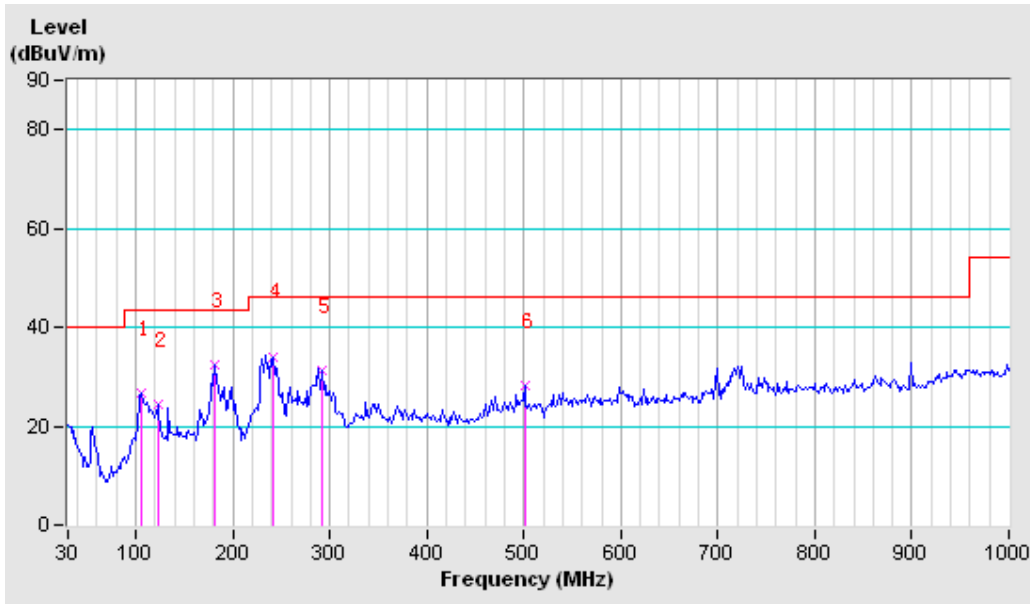


CHANNEL	Channel 36	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	105.98	26.6 QP	43.5	-16.9	1.00 V	127	14.00	12.61
2	122.15	24.2 QP	43.5	-19.3	1.00 V	67	10.57	13.67
3	181.97	32.3 QP	43.5	-11.2	1.00 V	116	21.16	11.12
4	241.78	34.1 QP	46.0	-11.9	1.00 V	105	20.33	13.79
5	291.90	31.3 QP	46.0	-14.7	1.00 V	94	15.49	15.83
6	500.45	28.3 QP	46.0	-17.7	1.00 V	83	5.77	22.49

REMARKS:

1. Emission level (dBuV/m) = Raw Value (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.





ABOVE 1GHz WORST-CASE DATA: 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

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	62.3 PK	74.0	-11.7	1.42 H	264	54.71	7.60
2	5150.00	47.2 AV	54.0	-6.8	1.42 H	264	39.61	7.60
3	*5180.00	108.6 PK			1.42 H	264	100.89	7.70
4	*5180.00	98.7 AV			1.42 H	264	91.04	7.70
5	#10360.00	61.3 PK	74.0	-12.7	1.01 H	110	47.22	14.04
6	#10360.00	46.6 AV	54.0	-7.4	1.01 H	110	32.59	14.04
7	15540.00	67.9 PK	74.0	-6.1	1.02 H	284	51.39	16.48
8	15540.00	52.0 AV	54.0	-2.1	1.02 H	284	35.47	16.48

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	63.1 PK	74.0	-10.9	2.24 V	334	55.50	7.60
2	5150.00	47.8 AV	54.0	-6.2	2.24 V	334	40.24	7.60
3	*5180.00	109.1 PK			2.24 V	334	101.40	7.70
4	*5180.00	100.0 AV			2.24 V	334	92.30	7.70
5	#10360.00	62.0 PK	74.0	-12.0	1.01 V	19	47.96	14.04
6	#10360.00	47.0 AV	54.0	-7.0	1.01 V	19	32.98	14.04
7	15540.00	69.1 PK	74.0	-4.9	1.00 V	2	52.64	16.48
8	15540.00	53.7 AV	54.0	-0.3	1.00 V	2	37.21	16.48

REMARKS:

1. Emission level (dBuV/m) = Raw Value (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.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5200.00	108.7 PK			1.15 H	341	100.95	7.76
2	*5200.00	98.6 AV			1.15 H	341	90.81	7.76
3	#10400.00	62.3 PK	74.0	-11.7	1.02 H	233	48.27	14.07
4	#10400.00	47.1 AV	54.0	-6.9	1.02 H	233	33.05	14.07
5	15600.00	66.1 PK	74.0	-7.9	1.01 H	319	49.54	16.56
6	15600.00	51.0 AV	54.0	-3.0	1.01 H	319	34.47	16.56

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5200.00	110.0 PK			2.09 V	331	102.25	7.76
2	*5200.00	99.7 AV			2.09 V	331	91.90	7.76
3	#10400.00	63.2 PK	74.0	-10.8	1.01 V	174	49.13	14.07
4	#10400.00	47.8 AV	54.0	-6.2	1.01 V	174	33.70	14.07
5	15600.00	68.3 PK	74.0	-5.7	1.02 V	313	51.77	16.56
6	15600.00	53.6 AV	54.0	-0.4	1.02 V	313	37.03	16.56

REMARKS:

1. Emission level (dBuV/m) = Raw Value (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.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	106.9 PK			1.01 H	3	99.01	7.89
2	*5240.00	96.5 AV			1.01 H	3	88.57	7.89
3	#10480.00	61.0 PK	74.0	-13.0	1.00 H	254	46.88	14.14
4	#10480.00	46.2 AV	54.0	-7.8	1.00 H	254	32.06	14.14
5	15720.00	66.2 PK	74.0	-7.8	1.00 H	123	49.48	16.72
6	15720.00	50.2 AV	54.0	-3.8	1.00 H	123	33.48	16.72

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	107.6 PK			2.01 V	295	99.73	7.89
2	*5240.00	97.1 AV			2.01 V	295	89.23	7.89
3	#10480.00	62.8 PK	74.0	-11.2	1.00 V	214	48.66	14.14
4	#10480.00	46.8 AV	54.0	-7.2	1.00 V	214	32.64	14.14
5	15720.00	67.7 PK	74.0	-6.3	1.00 V	339	50.98	16.72
6	15720.00	53.1 AV	54.0	-0.9	1.00 V	339	36.38	16.72

REMARKS:

1. Emission level (dBuV/m) = Raw Value (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.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



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

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	60.6 PK	74.0	-13.4	1.14 H	359	53.00	7.60
2	5150.00	46.4 AV	54.0	-7.6	1.14 H	359	38.82	7.60
3	*5180.00	107.2 PK			1.14 H	359	99.50	7.70
4	*5180.00	96.3 AV			1.14 H	359	88.61	7.70
5	#10360.00	62.7 PK	74.0	-11.3	1.02 H	136	48.64	14.04
6	#10360.00	46.6 AV	54.0	-7.5	1.02 H	136	32.51	14.04
7	15540.00	66.1 PK	74.0	-7.9	1.01 H	32	49.62	16.48
8	15540.00	50.0 AV	54.0	-4.0	1.01 H	32	33.55	16.48

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	61.6 PK	74.0	-12.4	1.06 V	327	54.02	7.60
2	5150.00	47.0 AV	54.0	-7.0	1.06 V	327	39.40	7.60
3	*5180.00	108.6 PK			1.06 V	327	100.90	7.70
4	*5180.00	97.0 AV			1.06 V	327	89.27	7.70
5	#10360.00	64.5 PK	74.0	-9.5	1.00 V	332	50.46	14.04
6	#10360.00	47.4 AV	54.0	-6.6	1.00 V	332	33.34	14.04
7	15540.00	68.7 PK	74.0	-5.3	1.01 V	247	52.22	16.48
8	15540.00	52.9 AV	54.0	-1.1	1.01 V	247	36.42	16.48

REMARKS:

1. Emission level (dBuV/m) = Raw Value (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.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5200.00	108.2 PK			1.22 H	14	100.44	7.76
2	*5200.00	97.9 AV			1.22 H	14	90.16	7.76
3	#10400.00	62.1 PK	74.0	-11.9	1.00 H	169	48.03	14.07
4	#10400.00	46.8 AV	54.0	-7.2	1.00 H	169	32.73	14.07
5	15600.00	67.5 PK	74.0	-6.5	1.01 H	221	50.94	16.56
6	15600.00	50.6 AV	54.0	-3.4	1.01 H	221	34.06	16.56

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5200.00	108.7 PK			1.34 V	261	100.91	7.76
2	*5200.00	98.0 AV			1.34 V	261	90.24	7.76
3	#10400.00	63.3 PK	74.0	-10.7	1.01 V	113	49.26	14.07
4	#10400.00	47.3 AV	54.0	-6.8	1.01 V	113	33.18	14.07
5	15600.00	70.1 PK	74.0	-3.9	1.02 V	314	53.54	16.56
6	15600.00	53.4 AV	54.0	-0.6	1.02 V	314	36.86	16.56

REMARKS:

1. Emission level (dBuV/m) = Raw Value (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.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	107.7 PK			1.03 H	1	99.84	7.89
2	*5240.00	96.9 AV			1.03 H	1	89.01	7.89
3	#10480.00	62.6 PK	74.0	-11.4	1.00 H	227	48.46	14.14
4	#10480.00	46.8 AV	54.0	-7.2	1.00 H	227	32.66	14.14
5	15720.00	68.2 PK	74.0	-5.8	1.02 H	278	51.48	16.72
6	15720.00	50.2 AV	54.0	-3.8	1.02 H	278	33.48	16.72

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	106.8 PK			1.24 V	249	98.89	7.89
2	*5240.00	96.5 AV			1.24 V	249	88.58	7.89
3	#10480.00	63.3 PK	74.0	-10.7	1.01 V	54	49.12	14.14
4	#10480.00	47.0 AV	54.0	-7.0	1.01 V	54	32.90	14.14
5	15720.00	70.4 PK	74.0	-3.6	1.00 V	210	53.64	16.72
6	15720.00	53.2 AV	54.0	-0.9	1.00 V	210	36.43	16.72

REMARKS:

1. Emission level (dBuV/m) = Raw Value (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.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



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

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	65.2 PK	74.0	-8.8	1.09 H	22	57.60	7.60
2	5150.00	50.1 AV	54.0	-3.9	1.09 H	22	42.50	7.60
3	*5190.00	105.4 PK			1.09 H	22	97.67	7.73
4	*5190.00	95.2 AV			1.09 H	22	87.48	7.73
5	#10380.00	64.4 PK	74.0	-9.6	1.00 H	24	50.33	14.05
6	#10380.00	46.2 AV	54.0	-7.8	1.00 H	24	32.15	14.05
7	15570.00	66.2 PK	74.0	-7.8	1.00 H	312	49.68	16.52
8	15570.00	49.4 AV	54.0	-4.6	1.00 H	312	32.84	16.52

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	69.2 PK	74.0	-4.8	2.11 V	314	61.60	7.60
2	5150.00	53.1 AV	54.0	-0.9	2.11 V	314	45.50	7.60
3	*5190.00	106.4 PK			2.11 V	314	98.67	7.73
4	*5190.00	95.8 AV			2.11 V	314	88.07	7.73
5	#10380.00	64.5 PK	74.0	-9.5	1.01 V	201	50.45	14.05
6	#10380.00	45.2 AV	54.0	-8.8	1.01 V	201	31.15	14.05
7	15570.00	65.2 PK	74.0	-8.8	1.00 V	214	48.68	16.52
8	15570.00	49.5 AV	54.0	-4.5	1.00 V	214	32.98	16.52

REMARKS:

1. Emission level (dBuV/m) = Raw Value (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.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



802.11n (40MHz)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5230.00	106.4 PK			2.01 H	79	98.54	7.86
2	*5230.00	96.0 AV			2.01 H	79	88.12	7.86
3	#10460.00	63.4 PK	74.0	-10.6	1.00 H	220	49.27	14.13
4	#10460.00	46.0 AV	54.0	-8.0	1.00 H	220	31.86	14.13
5	15690.00	67.4 PK	74.0	-6.6	1.01 H	351	50.72	16.68
6	15690.00	50.2 AV	54.0	-3.8	1.01 H	351	33.53	16.68

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5230.00	108.6 PK			1.46 V	254	100.78	7.86
2	*5230.00	97.7 AV			1.46 V	254	89.82	7.86
3	#10460.00	62.3 PK	74.0	-11.7	1.02 V	147	48.17	14.13
4	#10460.00	46.1 AV	54.0	-7.9	1.02 V	147	31.97	14.13
5	15690.00	68.9 PK	74.0	-5.1	1.01 V	313	52.22	16.68
6	15690.00	53.6 AV	54.0	-0.4	1.01 V	313	36.96	16.68

REMARKS:

1. Emission level (dBuV/m) = Raw Value (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.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



ABOVE 1GHz WORST-CASE DATA: Band 2

802.11a

CHANNEL	TX Channel 52	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE			Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5260.00	106.3 PK			1.01 H	24	98.39	7.95
2	*5260.00	95.3 AV			1.01 H	24	87.32	7.95
3	#10520.00	62.8 PK	74.0	-11.2	1.01 H	215	48.66	14.14
4	#10520.00	47.8 AV	54.0	-6.2	1.01 H	215	33.68	14.14
5	15780.00	67.1 PK	74.0	-6.9	1.00 H	137	50.30	16.80
6	15780.00	51.5 AV	54.0	-2.5	1.00 H	137	34.69	16.80

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5260.00	107.5 PK			1.12 V	166	99.55	7.95
2	*5260.00	96.8 AV			1.12 V	166	88.89	7.95
3	#10520.00	63.3 PK	74.0	-10.7	1.06 V	148	49.16	14.14
4	#10520.00	48.2 AV	54.0	-5.8	1.06 V	148	34.07	14.14
5	15780.00	67.1 PK	74.0	-6.9	1.00 V	344	50.30	16.80
6	15780.00	53.5 AV	54.0	-0.5	1.00 V	344	36.67	16.80

REMARKS:

1. Emission level (dBuV/m) = Raw Value (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.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



CHANNEL	TX Channel 56	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE			Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5280.00	106.5 PK			1.29 H	274	98.50	8.01
2	*5280.00	95.7 AV			1.29 H	274	87.73	8.01
3	#10560.00	64.2 PK	74.0	-9.8	1.02 H	163	50.11	14.10
4	#10560.00	48.0 AV	54.0	-6.0	1.02 H	163	33.86	14.10
5	15840.00	68.0 PK	74.0	-6.0	1.00 H	274	51.10	16.88
6	15840.00	51.6 AV	54.0	-2.4	1.00 H	274	34.72	16.88

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5280.00	107.6 PK			1.24 V	38	99.61	8.01
2	*5280.00	97.5 AV			1.24 V	38	89.49	8.01
3	#10560.00	63.9 PK	74.0	-10.1	1.05 V	166	49.84	14.10
4	#10560.00	48.6 AV	54.0	-5.4	1.05 V	166	34.52	14.10
5	15840.00	68.0 PK	74.0	-6.0	1.01 V	228	51.10	16.88
6	15840.00	53.3 AV	54.0	-0.7	1.01 V	228	36.46	16.88

REMARKS:

1. Emission level (dBuV/m) = Raw Value (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.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



CHANNEL	TX Channel 64	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE			Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	107.4 PK			1.17 H	355	99.27	8.14
2	*5320.00	96.9 AV			1.17 H	355	88.80	8.14
3	5350.00	62.2 PK	74.0	-11.8	1.17 H	355	53.96	8.24
4	5350.00	48.3 AV	54.0	-5.7	1.17 H	355	40.05	8.24
5	10640.00	63.1 PK	74.0	-10.9	1.04 H	225	49.07	14.03
6	10640.00	48.6 AV	54.0	-5.4	1.04 H	225	34.57	14.03
7	15960.00	67.6 PK	74.0	-6.4	1.01 H	316	50.58	17.04
8	15960.00	51.8 AV	54.0	-2.2	1.01 H	316	34.76	17.04

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	108.6 PK			1.81 V	26	100.46	8.14
2	*5320.00	97.8 AV			1.81 V	26	89.66	8.14
3	5350.00	63.1 PK	74.0	-10.9	1.81 V	26	54.86	8.24
4	5350.00	49.0 AV	54.0	-5.0	1.81 V	26	40.78	8.24
5	10640.00	63.9 PK	74.0	-10.1	1.02 V	79	49.85	14.03
6	10640.00	48.2 AV	54.0	-5.8	1.02 V	79	34.18	14.03
7	15960.00	68.4 PK	74.0	-5.6	1.02 V	126	51.40	17.04
8	15960.00	53.2 AV	54.0	-0.8	1.02 V	126	36.16	17.04

REMARKS:

1. Emission level (dBuV/m) = Raw Value (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.
5. " * ": Fundamental frequency.



802.11n (20MHz)

CHANNEL	TX Channel 52	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE			Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5260.00	107.0 PK			1.44 H	21	99.07	7.95
2	*5260.00	96.7 AV			1.44 H	21	88.76	7.95
3	#10520.00	63.7 PK	74.0	-10.3	1.00 H	216	49.56	14.14
4	#10520.00	47.7 AV	54.0	-6.3	1.00 H	216	33.54	14.14
5	15780.00	68.9 PK	74.0	-5.1	1.00 H	201	52.10	16.80
6	15780.00	51.6 AV	54.0	-2.4	1.00 H	201	34.80	16.80

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5260.00	108.4 PK			1.59 V	328	100.45	7.95
2	*5260.00	97.9 AV			1.59 V	328	89.98	7.95
3	#10520.00	64.2 PK	74.0	-9.8	1.01 V	229	50.06	14.14
4	#10520.00	48.0 AV	54.0	-6.0	1.01 V	229	33.88	14.14
5	15780.00	70.2 PK	74.0	-3.8	1.01 V	217	53.40	16.80
6	15780.00	53.1 AV	54.0	-0.9	1.01 V	217	36.30	16.80

REMARKS:

1. Emission level (dBuV/m) = Raw Value (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.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



CHANNEL	TX Channel 56	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE			Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5280.00	106.0 PK			1.01 H	234	98.00	8.01
2	*5280.00	95.7 AV			1.01 H	234	87.66	8.01
3	#10560.00	63.2 PK	74.0	-10.8	1.04 H	214	49.11	14.10
4	#10560.00	48.0 AV	54.0	-6.0	1.04 H	214	33.91	14.10
5	15840.00	67.5 PK	74.0	-6.5	1.02 H	312	50.62	16.88
6	15840.00	51.2 AV	54.0	-2.8	1.02 H	312	34.32	16.88

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5280.00	108.2 PK			1.52 V	257	100.19	8.01
2	*5280.00	98.0 AV			1.52 V	257	89.94	8.01
3	#10560.00	64.1 PK	74.0	-9.9	1.02 V	132	50.00	14.10
4	#10560.00	48.2 AV	54.0	-5.8	1.02 V	132	34.13	14.10
5	15840.00	70.0 PK	74.0	-4.0	1.02 V	321	53.15	16.88
6	15840.00	53.6 AV	54.0	-0.4	1.02 V	321	36.72	16.88

REMARKS:

1. Emission level (dBuV/m) = Raw Value (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.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



CHANNEL	TX Channel 64	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE			Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	62.4 PK			1.64 H	239	54.26	8.14
2	*5320.00	106.5 PK			1.64 H	239	98.36	8.14
3	5350.00	62.5 PK	74.0	-11.5	1.75 V	25	54.26	8.24
4	5350.00	20.6 AV	54.0	-33.4	1.75 V	25	12.36	8.24
5	10640.00	63.0 PK	74.0	-11.0	1.01 H	212	48.94	14.03
6	10640.00	47.9 AV	54.0	-6.1	1.01 H	212	33.86	14.03
7	15960.00	67.6 PK	74.0	-6.4	1.02 H	147	50.56	17.04
8	15960.00	51.0 AV	54.0	-3.0	1.02 H	147	33.94	17.04

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	107.6 PK			1.73 V	22	99.48	8.14
2	*5320.00	96.5 AV			1.73 V	22	88.31	8.14
3	5350.00	63.4 PK	74.0	-10.6	1.73 V	22	55.16	8.24
4	5350.00	18.5 AV	54.0	-35.5	1.73 V	22	10.22	8.24
5	10640.00	63.6 PK	74.0	-10.4	1.01 V	274	49.55	14.03
6	10640.00	48.5 AV	54.0	-5.5	1.01 V	274	34.47	14.03
7	15960.00	69.9 PK	74.0	-4.1	1.00 V	162	52.90	17.04
8	15960.00	53.5 AV	54.0	-0.5	1.00 V	162	36.44	17.04

REMARKS:

1. Emission level (dBuV/m) = Raw Value (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.
5. " * ": Fundamental frequency.



802.11n (40MHz)

CHANNEL	TX Channel 54	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE			Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5270.00	106.3 PK			1.42 H	231	98.32	7.98
2	*5270.00	95.5 AV			1.42 H	231	87.49	7.98
3	#10540.00	62.3 PK	74.0	-11.8	1.01 H	254	48.13	14.12
4	#10540.00	48.0 AV	54.0	-6.0	1.01 H	254	33.84	14.12
5	15810.00	65.3 PK	74.0	-8.8	1.01 H	288	48.41	16.84
6	15810.00	50.2 AV	54.0	-3.8	1.01 H	288	33.36	16.84

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5270.00	106.5 PK			1.92 V	243	98.52	7.98
2	*5270.00	95.5 AV			1.92 V	243	87.48	7.98
3	#10540.00	63.5 PK	74.0	-10.5	1.04 V	125	49.38	14.12
4	#10540.00	48.1 AV	54.0	-5.9	1.04 V	125	33.98	14.12
5	15810.00	67.4 PK	74.0	-6.6	1.00 V	166	50.56	16.84
6	15810.00	53.4 AV	54.0	-0.6	1.00 V	166	36.54	16.84

REMARKS:

1. Emission level (dBuV/m) = Raw Value (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.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



CHANNEL	TX Channel 62	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE			Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5310.00	105.4 PK			1.38 H	241	97.31	8.11
2	*5310.00	94.9 AV			1.38 H	241	86.76	8.11
3	5350.00	67.1 PK	74.0	-7.0	1.38 H	241	58.81	8.24
4	5350.00	52.4 AV	54.0	-1.6	1.38 H	241	44.16	8.24
5	10620.00	62.6 PK	74.0	-11.4	1.01 H	246	48.55	14.05
6	10620.00	47.6 AV	54.0	-6.4	1.01 H	246	33.57	14.05
7	15930.00	67.5 PK	74.0	-6.5	1.00 H	217	50.53	17.00
8	15930.00	50.3 AV	54.0	-3.7	1.00 H	217	33.30	17.00

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5310.00	106.5 PK			1.80 V	341	98.34	8.11
2	*5310.00	95.7 AV			1.80 V	341	87.63	8.11
3	5350.00	69.7 PK	74.0	-4.3	1.80 V	341	61.46	8.24
4	5350.00	53.5 AV	54.0	-0.5	1.80 V	341	45.26	8.24
5	10620.00	63.4 PK	74.0	-10.6	1.02 V	321	49.35	14.05
6	10620.00	48.1 AV	54.0	-5.9	1.02 V	321	34.05	14.05
7	15930.00	68.5 PK	74.0	-5.5	1.00 V	164	51.50	17.00
8	15930.00	52.9 AV	54.0	-1.1	1.00 V	164	35.94	17.00

REMARKS:

1. Emission level (dBuV/m) = Raw Value (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.
5. " * ": Fundamental frequency.



ABOVE 1GHz WORST-CASE DATA: Band 3

802.11a

CHANNEL	TX Channel 100	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE			Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	62.8 PK	74.0	-11.2	1.66 H	313	54.20	8.60
2	5460.00	46.9 AV	54.0	-7.1	1.66 H	313	38.32	8.60
3	#5470.00	63.9 PK	68.3	-5.4	1.66 H	313	55.27	8.63
4	*5500.00	105.2 PK			1.66 H	313	96.47	8.73
5	*5500.00	94.8 AV			1.66 H	313	86.07	8.73
6	11000.00	62.5 PK	74.0	-11.5	1.02 H	325	48.80	13.70
7	11000.00	47.1 AV	54.0	-6.9	1.02 H	325	33.43	13.70
8	#16500.00	67.4 PK	74.0	-6.6	1.01 H	299	50.36	17.04
9	#16500.00	51.9 AV	54.0	-2.1	1.01 H	299	34.86	17.04

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	63.2 PK	74.0	-10.8	1.22 V	62	54.60	8.60
2	5460.00	47.1 AV	54.0	-6.9	1.22 V	62	38.50	8.60
3	#5470.00	64.1 PK	68.3	-4.2	1.22 V	62	55.47	8.63
4	*5500.00	107.7 PK			1.22 V	62	98.96	8.73
5	*5500.00	97.2 AV			1.22 V	62	88.50	8.73
6	11000.00	62.3 PK	74.0	-11.7	1.00 V	29	48.60	13.70
7	11000.00	48.0 AV	54.0	-6.0	1.00 V	29	34.32	13.70
8	#16500.00	70.2 PK	74.0	-3.8	1.01 V	221	53.19	17.04
9	#16500.00	53.8 AV	54.0	-0.2	1.01 V	221	36.76	17.04

REMARKS:

1. Emission level (dBuV/m) = Raw Value (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.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



CHANNEL	TX Channel 116	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE			Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5580.00	107.2 PK			1.71 H	202	98.29	8.92
2	*5580.00	96.7 AV			1.71 H	202	87.81	8.92
3	11160.00	62.1 PK	74.0	-11.9	1.01 H	210	48.15	13.95
4	11160.00	47.6 AV	54.0	-6.4	1.01 H	210	33.67	13.95
5	#16740.00	66.8 PK	74.0	-7.2	1.02 H	30	48.48	18.32
6	#16740.00	52.4 AV	54.0	-1.6	1.02 H	30	34.08	18.32

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5580.00	108.6 PK			1.82 V	211	99.68	8.92
2	*5580.00	97.9 AV			1.82 V	211	89.02	8.92
3	11160.00	63.5 PK	74.0	-10.5	1.02 V	217	49.55	13.95
4	11160.00	48.2 AV	54.0	-5.8	1.02 V	217	34.25	13.95
5	#16740.00	69.2 PK	74.0	-4.8	1.00 V	51	50.88	18.32
6	#16740.00	53.5 AV	54.0	-0.5	1.00 V	51	35.14	18.32

REMARKS:

1. Emission level (dBuV/m) = Raw Value (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.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



CHANNEL	TX Channel 140	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE			Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	107.4 PK			1.68 H	203	98.22	9.20
2	*5700.00	96.5 AV			1.68 H	203	87.31	9.20
3	#5725.00	65.1 PK	68.3	-3.2	1.68 H	203	55.87	9.26
4	11400.00	62.6 PK	74.0	-11.4	1.04 H	52	48.28	14.32
5	11400.00	47.1 AV	54.0	-6.9	1.04 H	52	32.74	14.32
6	#17100.00	67.6 PK	74.0	-6.4	1.01 H	254	47.84	19.78
7	#17100.00	51.6 AV	54.0	-2.4	1.01 H	254	31.85	19.78

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	109.6 PK			1.23 V	321	100.40	9.20
2	*5700.00	98.7 AV			1.23 V	321	89.52	9.20
3	#5725.00	66.2 PK	68.3	-2.1	1.23 V	210	56.94	9.26
4	11400.00	63.5 PK	74.0	-10.5	1.00 V	283	49.22	14.32
5	11400.00	47.6 AV	54.0	-6.4	1.00 V	283	33.30	14.32
6	#17100.00	70.2 PK	74.0	-3.9	1.01 V	204	50.37	19.78
7	#17100.00	53.7 AV	54.0	-0.3	1.01 V	204	33.92	19.78

REMARKS:

1. Emission level (dBuV/m) = Raw Value (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.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



802.11n (20MHz)

CHANNEL	TX Channel 100	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE			Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	61.8 PK	74.0	-12.2	1.55 H	224	53.20	8.60
2	5460.00	46.3 AV	54.0	-7.7	1.55 H	224	37.70	8.60
3	#5470.00	62.8 PK	68.3	-5.5	1.55 H	224	54.21	8.63
4	*5500.00	105.4 PK			1.55 H	224	96.67	8.73
5	*5500.00	94.2 AV			1.55 H	224	85.47	8.73
6	11000.00	62.5 PK	74.0	-11.5	1.00 H	254	48.80	13.70
7	11000.00	47.2 AV	54.0	-6.8	1.00 H	254	33.50	13.70
8	#16500.00	67.3 PK	74.0	-6.7	1.02 H	322	50.26	17.04
9	#16500.00	50.2 AV	54.0	-3.8	1.02 H	322	33.18	17.04

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	62.1 PK	74.0	-11.9	1.93 V	32	53.50	8.60
2	5460.00	46.2 AV	54.0	-7.8	1.93 V	32	37.60	8.60
3	#5470.00	63.3 PK	68.3	-15.0	1.93 V	32	54.62	8.63
4	*5500.00	107.8 PK			1.93 V	32	99.07	8.73
5	*5500.00	97.1 AV			1.93 V	32	88.37	8.73
6	11000.00	63.3 PK	74.0	-10.8	1.02 V	218	49.55	13.70
7	11000.00	47.0 AV	54.0	-7.0	1.02 V	218	33.33	13.70
8	#16500.00	69.7 PK	74.0	-4.3	1.02 V	310	52.65	17.04
9	#16500.00	53.2 AV	54.0	-0.8	1.02 V	310	36.16	17.04

REMARKS:

1. Emission level (dBuV/m) = Raw Value (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.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



CHANNEL	TX Channel 116	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE			Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5580.00	105.4 PK			1.62 H	214	96.48	8.92
2	*5580.00	94.0 AV			1.62 H	241	85.08	8.92
3	11160.00	62.0 PK	74.0	-12.0	1.01 H	299	48.03	13.95
4	11160.00	47.8 AV	54.0	-6.2	1.01 H	299	33.85	13.95
5	#16740.00	65.4 PK	74.0	-8.6	1.01 H	208	47.08	18.32
6	#16740.00	50.5 AV	54.0	-3.5	1.01 H	208	32.15	18.32

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5580.00	106.6 PK			1.48 V	354	97.70	8.92
2	*5580.00	96.0 AV			1.48 V	354	87.09	8.92
3	11160.00	62.4 PK	74.0	-11.6	1.00 V	258	48.45	13.95
4	11160.00	46.9 AV	54.0	-7.1	1.00 V	258	32.95	13.95
5	#16740.00	66.9 PK	74.0	-7.1	1.02 V	332	48.60	18.32
6	#16740.00	51.6 AV	54.0	-2.4	1.02 V	332	33.28	18.32

REMARKS:

1. Emission level (dBuV/m) = Raw Value (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.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



CHANNEL	TX Channel 140	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE			Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	105.5 PK			1.69 H	34	96.27	9.20
2	*5700.00	94.8 AV			1.69 H	34	85.62	9.20
3	#5725.00	66.7 PK	68.3	-1.5	1.69 H	34	57.44	9.26
4	11400.00	62.9 PK	74.0	-11.1	1.01 H	288	48.56	14.32
5	11400.00	47.0 AV	54.0	-7.0	1.01 H	288	32.69	14.32
6	#17100.00	65.2 PK	74.0	-8.8	1.00 H	221	45.42	19.78
7	#17100.00	50.2 AV	54.0	-3.8	1.00 H	221	30.42	19.78

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	108.6 PK			1.42 V	201	99.40	9.20
2	*5700.00	97.5 AV			1.42 V	201	88.28	9.20
3	#5725.00	67.8 PK	68.3	-0.5	1.42 V	201	58.54	9.26
4	11400.00	63.2 PK	74.0	-10.8	1.03 V	216	48.88	14.32
5	11400.00	47.9 AV	54.0	-6.1	1.03 V	216	33.58	14.32
6	#17100.00	67.5 PK	74.0	-6.5	1.01 V	254	47.72	19.78
7	#17100.00	50.9 AV	54.0	-3.1	1.01 V	254	31.11	19.78

REMARKS:

1. Emission level (dBuV/m) = Raw Value (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.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



802.11n (40MHz)

CHANNEL	TX Channel 102	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE			Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	66.8 PK	74.0	-7.2	1.29 H	312	58.20	8.60
2	5460.00	51.2 AV	54.0	-2.8	1.29 H	312	42.60	8.60
3	#5470.00	67.1 PK	68.3	-1.2	1.29 H	312	58.47	8.63
4	*5510.00	104.3 PK			1.29 H	312	95.54	8.76
5	*5510.00	93.7 AV			1.29 H	312	84.91	8.76
6	11020.00	62.8 PK	74.0	-11.2	1.01 H	225	49.06	13.74
7	11020.00	47.0 AV	54.0	-7.0	1.01 H	225	33.28	13.74
8	#16530.00	66.5 PK	74.0	-7.5	1.00 H	211	49.30	17.20
9	#16530.00	50.2 AV	54.0	-3.8	1.00 H	211	33.00	17.20

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	67.3 PK	74.0	-6.7	1.42 V	351	58.70	8.60
2	5460.00	52.0 AV	54.0	-2.0	1.42 V	351	43.36	8.60
3	#5470.00	67.9 PK	68.3	-0.4	1.42 V	351	59.27	8.63
4	*5510.00	106.5 PK			1.42 V	351	97.76	8.76
5	*5510.00	95.9 AV			1.42 V	351	87.12	8.76
6	11020.00	63.5 PK	74.0	-10.5	1.01 V	256	49.76	13.74
7	11020.00	47.4 AV	54.0	-6.6	1.01 V	256	33.62	13.74
8	#16530.00	67.5 PK	74.0	-6.6	1.00 V	220	50.25	17.20
9	#16530.00	51.2 AV	54.0	-2.8	1.00 V	220	34.00	17.20

REMARKS:

1. Emission level (dBuV/m) = Raw Value (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.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



CHANNEL	TX Channel 118	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE			Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5590.00	107.6 PK			1.62 H	201	98.67	8.95
2	*5590.00	96.5 AV			1.62 H	201	87.51	8.95
3	11180.00	64.2 PK	74.0	-9.8	1.00 H	225	50.22	13.98
4	11180.00	48.6 AV	54.0	-5.4	1.00 H	225	34.65	13.98
5	#16770.00	68.4 PK	74.0	-5.6	1.02 H	35	49.93	18.47
6	#16770.00	51.8 AV	54.0	-2.2	1.02 H	35	33.33	18.47

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5590.00	109.6 PK			1.77 V	46	100.65	8.95
2	*5590.00	99.1 AV			1.77 V	46	90.15	8.95
3	11180.00	64.5 PK	74.0	-9.5	1.00 V	200	50.54	13.98
4	11180.00	49.2 AV	54.0	-4.8	1.00 V	200	35.22	13.98
5	#16770.00	70.2 PK	74.0	-3.8	1.01 V	220	51.73	18.47
6	#16770.00	53.6 AV	54.0	-0.4	1.01 V	220	35.13	18.47

REMARKS:

1. Emission level (dBuV/m) = Raw Value (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.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



CHANNEL	TX Channel 134	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE			Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5670.00	109.5 PK			1.33 H	219	100.36	9.14
2	*5670.00	98.9 AV			1.33 H	219	89.73	9.14
3	#5725.00	66.2 PK	68.3	-2.1	1.33 H	219	56.94	9.26
4	11340.00	62.5 PK	74.0	-11.5	1.00 H	237	48.31	14.23
5	11340.00	48.9 AV	54.0	-5.1	1.00 H	237	34.67	14.23
6	#17010.00	67.4 PK	74.0	-6.6	1.01 H	214	47.69	19.71
7	#17010.00	53.1 AV	54.0	-0.9	1.01 H	214	33.39	19.71

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5670.00	107.5 PK			1.58 V	355	98.36	9.14
2	*5670.00	96.7 AV			1.58 V	355	87.60	9.14
3	#5725.00	67.5 PK	68.3	-0.8	1.58 V	355	58.24	9.26
4	11340.00	63.4 PK	74.0	-10.6	1.02 V	305	49.17	14.23
5	11340.00	48.5 AV	54.0	-5.5	1.02 V	305	34.27	14.23
6	#17010.00	67.9 PK	74.0	-6.1	1.00 V	21	48.23	19.71
7	#17010.00	53.4 AV	54.0	-0.6	1.00 V	21	33.69	19.71

REMARKS:

1. Emission level (dBuV/m) = Raw Value (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.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



ABOVE 1GHz WORST-CASE DATA: Band 4

802.11a

CHANNEL	TX Channel 149	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE			Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5715.00	65.5 PK	78.3	-12.8	1.25 H	236	56.26	9.24
2	#5715.00	47.2 AV	58.3	-11.1	1.25 H	236	67.94	9.26
3	*5745.00	110.6 PK			1.25 H	236	101.29	9.31
4	*5745.00	101.2 AV			1.25 H	236	91.92	9.31
5	#11490.00	63.1 PK	74.0	-10.9	1.01 H	213	48.64	14.46
6	#11490.00	43.5 AV	54.0	-10.5	1.01 H	213	29.04	14.46
7	#17235.00	65.5 PK	74.0	-8.5	1.01 H	201	45.57	19.90
8	#17235.00	51.2 AV	54.0	-2.8	1.01 H	201	31.30	19.90

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5715.00	64.5 PK	78.3	-13.8	1.44 V	216	55.26	9.24
2	#5715.00	44.6 AV	58.3	-13.7	1.44 V	216	65.34	9.26
3	*5745.00	109.4 PK			1.44 V	216	100.10	9.31
4	*5745.00	98.9 AV			1.44 V	216	89.58	9.31
5	#11490.00	63.8 PK	74.0	-10.2	1.00 V	23	49.34	14.46
6	#11490.00	43.9 AV	54.0	-10.1	1.00 V	23	29.44	14.46
7	#17235.00	66.3 PK	74.0	-7.7	1.02 V	132	46.42	19.90
8	#17235.00	52.4 AV	54.0	-1.6	1.02 V	132	32.48	19.90

REMARKS:

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



CHANNEL	TX Channel 157	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE			Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5785.00	110.2 PK			1.63 H	312	100.80	9.40
2	*5785.00	101.4 AV			1.63 H	312	91.96	9.40
3	#11570.00	62.3 PK	74.0	-11.7	1.00 H	21	47.67	14.63
4	#11570.00	43.9 AV	54.0	-10.1	1.00 H	21	29.30	14.63
5	#17355.00	65.2 PK	74.0	-8.8	1.00 H	285	45.22	20.01
6	#17355.00	51.0 AV	54.0	-3.0	1.00 H	285	31.02	20.01

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5785.00	109.6 PK			1.93 V	206	100.22	9.40
2	*5785.00	99.9 AV			1.93 V	206	90.46	9.40
3	#11570.00	64.2 PK	74.0	-9.8	1.00 V	123	49.57	14.63
4	#11570.00	44.2 AV	54.0	-9.8	1.00 V	123	29.57	14.63
5	#17355.00	66.8 PK	74.0	-7.2	1.01 V	69	46.79	20.01
6	#17355.00	52.7 AV	54.0	-1.3	1.01 V	69	32.69	20.01

REMARKS:

1. Emission level (dBuV/m) = Raw Value (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.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



CHANNEL	TX Channel 165	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE			Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5825.00	109.3 PK			1.66 H	358	99.80	9.50
2	*5825.00	98.8 AV			1.66 H	358	89.25	9.50
3	#5850.00	66.8 PK	78.3	-11.3	1.66 H	358	57.22	9.56
4	#5860.00	65.0 PK	68.3	-3.3	1.66 H	358	55.43	9.58
5	#11650.00	63.2 PK	74.0	-10.8	1.01 H	123	48.41	14.80
6	#11650.00	43.9 AV	54.0	-10.1	1.01 H	123	29.07	14.80
7	#17475.00	67.0 PK	74.0	-7.0	1.00 H	55	46.92	20.11
8	#17475.00	51.6 AV	54.0	-2.4	1.00 H	55	31.49	20.11

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5825.00	106.2 PK			1.05 V	37	96.70	9.50
2	*5825.00	95.7 AV			1.05 V	37	86.20	9.50
3	#5850.00	65.1 PK	78.3	-13.2	1.05 V	37	55.54	9.56
4	#5860.00	63.1 PK	68.3	-5.2	1.05 V	37	53.52	9.58
5	#11650.00	63.2 PK	74.0	-10.8	1.02 V	216	48.41	14.80
6	#11650.00	45.2 AV	54.0	-8.8	1.02 V	216	30.41	14.80
7	#17475.00	68.9 PK	74.0	-5.1	1.00 V	207	48.79	20.11
8	#17475.00	53.3 AV	54.0	-0.7	1.00 V	207	33.19	20.11

REMARKS:

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



802.11n (20MHz)

CHANNEL	TX Channel 149	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE			Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5715.00	64.6 PK	78.3	-13.7	1.31 H	224	55.38	9.24
2	#5715.00	44.9 AV	58.3	-13.4	1.31 H	224	65.66	9.26
3	*5745.00	109.9 PK			1.31 H	224	100.58	9.31
4	*5745.00	99.6 AV			1.31 H	224	90.33	9.31
5	#11490.00	64.3 PK	74.0	-9.7	1.00 H	29	49.86	14.46
6	#11490.00	44.6 AV	54.0	-9.4	1.00 H	29	30.16	14.46
7	#17235.00	68.6 PK	74.0	-5.4	1.00 H	211	48.73	19.90
8	#17235.00	51.5 AV	54.0	-2.5	1.00 H	211	31.57	19.90

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5715.00	64.2 PK	78.3	-14.1	1.37 V	359	54.96	9.24
2	#5715.00	44.3 AV	58.3	-14.0	1.37 V	359	65.04	9.26
3	*5745.00	108.6 PK			1.37 V	359	99.29	9.31
4	*5745.00	98.4 AV			1.37 V	359	89.05	9.31
5	#11490.00	65.2 PK	74.0	-8.8	1.01 V	266	50.74	14.46
6	#11490.00	44.6 AV	54.0	-9.4	1.01 V	266	30.17	14.46
7	#17235.00	67.7 PK	74.0	-6.3	1.00 V	213	47.79	19.90
8	#17235.00	52.4 AV	54.0	-1.6	1.00 V	213	32.46	19.90

REMARKS:

1. Emission level (dBuV/m) = Raw Value (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.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



CHANNEL	TX Channel 157	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE			Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5785.00	110.2 PK			1.73 H	305	100.80	9.40
2	*5785.00	100.4 AV			1.73 H	305	91.01	9.40
3	#11570.00	65.2 PK	74.0	-8.8	1.00 H	211	50.60	14.63
4	#11570.00	45.0 AV	54.0	-9.0	1.00 H	211	30.38	14.63
5	#17355.00	67.2 PK	74.0	-6.8	1.00 H	44	47.19	20.01
6	#17355.00	51.7 AV	54.0	-2.3	1.00 H	44	31.68	20.01

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5785.00	109.6 PK			1.39 V	48	100.20	9.40
2	*5785.00	99.2 AV			1.39 V	48	89.80	9.40
3	#11570.00	64.2 PK	74.0	-9.8	1.01 V	205	49.57	14.63
4	#11570.00	44.6 AV	54.0	-9.4	1.01 V	205	29.97	14.63
5	#17355.00	66.9 PK	74.0	-7.1	1.00 V	219	46.89	20.01
6	#17355.00	53.1 AV	54.0	-0.9	1.00 V	219	33.06	20.01

REMARKS:

1. Emission level (dBuV/m) = Raw Value (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.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



CHANNEL	TX Channel 165	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE			Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5825.00	108.6 PK			1.54 H	33	99.10	9.50
2	*5825.00	97.6 AV			1.54 H	33	88.14	9.50
3	#5850.00	66.2 PK	78.3	-12.1	1.54 H	33	56.68	9.56
4	#5860.00	65.4 PK	68.3	-2.9	1.54 H	33	55.81	9.58
5	#11650.00	64.2 PK	74.0	-9.8	1.01 H	207	49.41	14.80
6	#11650.00	45.1 AV	54.0	-8.9	1.01 H	207	30.30	14.80
7	#17475.00	68.2 PK	74.0	-5.8	1.00 H	30	48.09	20.11
8	#17475.00	52.1 AV	54.0	-1.9	1.00 H	30	31.99	20.11

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5825.00	107.6 PK			1.88 V	52	98.10	9.50
2	*5825.00	97.0 AV			1.88 V	52	87.53	9.50
3	#5850.00	65.1 PK	78.3	-13.2	1.88 V	52	55.56	9.56
4	#5860.00	64.2 PK	68.3	-4.1	1.88 V	52	54.64	9.58
5	#11650.00	65.3 PK	74.0	-8.7	1.00 V	262	50.50	14.80
6	#11650.00	45.9 AV	54.0	-8.1	1.00 V	262	31.10	14.80
7	#17475.00	69.1 PK	74.0	-4.9	1.02 V	271	48.99	20.11
8	#17475.00	53.0 AV	54.0	-1.0	1.02 V	271	32.91	20.11

REMARKS:

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



802.11n (40MHz)

CHANNEL	TX Channel 151	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE			Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5715.00	67.8 PK	78.3	-10.5	1.52 H	91	58.56	9.24
2	#5715.00	41.6 AV	58.3	-16.7	1.52 H	91	62.34	9.26
3	*5755.00	103.8 PK			1.52 H	91	94.47	9.33
4	*5755.00	93.3 AV			1.52 H	91	83.92	9.33
5	#11510.00	63.4 PK	74.0	-10.6	1.00 H	218	48.90	14.50
6	#11510.00	43.9 AV	54.0	-10.1	1.00 H	218	29.40	14.50
7	#17265.00	65.2 PK	74.0	-8.8	1.01 H	74	45.27	19.93
8	#17265.00	50.9 AV	54.0	-3.1	1.01 H	74	31.01	19.93

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5715.00	65.6 PK	78.3	-12.7	1.75 V	62	56.36	9.24
2	#5715.00	39.2 AV	58.3	-19.1	1.75 V	62	59.94	9.26
3	*5755.00	101.8 PK			1.75 V	62	92.45	9.33
4	*5755.00	91.3 AV			1.75 V	62	81.99	9.33
5	#11510.00	62.6 PK	74.0	-11.4	1.01 V	23	48.10	14.50
6	#11510.00	44.2 AV	54.0	-9.8	1.01 V	23	29.70	14.50
7	#17265.00	65.3 PK	74.0	-8.7	1.02 V	36	45.37	19.93
8	#17265.00	51.3 AV	54.0	-2.7	1.02 V	36	31.37	19.93

REMARKS:

1. Emission level (dBuV/m) = Raw Value (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.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



CHANNEL	TX Channel 159	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE			Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5795.00	109.6 PK			1.31 H	360	100.17	9.43
2	*5795.00	100.0 AV			1.31 H	360	90.58	9.43
3	#5850.00	68.7 PK	78.3	-9.6	1.31 H	360	59.14	9.56
4	#5860.00	66.9 PK	68.3	-1.4	1.31 H	360	57.32	9.58
5	#11590.00	63.1 PK	74.0	-10.9	1.01 H	254	48.44	14.66
6	#11590.00	44.5 AV	54.0	-9.5	1.01 H	254	29.86	14.66
7	#17385.00	65.3 PK	74.0	-8.7	1.00 H	236	45.27	20.03
8	#17385.00	51.3 AV	54.0	-2.7	1.00 H	236	31.27	20.03

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5795.00	107.6 PK			1.66 V	209	98.17	9.43
2	*5795.00	97.2 AV			1.66 V	209	87.80	9.43
3	#5850.00	68.1 PK	78.3	-10.2	1.66 V	209	58.56	9.56
4	#5860.00	66.0 PK	68.3	-2.3	1.66 V	209	56.40	9.58
5	#11590.00	64.7 PK	74.0	-9.3	1.00 V	211	50.03	14.66
6	#11590.00	45.6 AV	54.0	-8.4	1.00 V	211	30.96	14.66
7	#17385.00	67.9 PK	74.0	-6.1	1.01 V	236	47.87	20.03
8	#17385.00	52.3 AV	54.0	-1.7	1.01 V	236	32.28	20.03

REMARKS:

1. Emission level (dBuV/m) = Raw Value (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.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



4.2 CONDUCTED EMISSION MEASUREMENT

4.2.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dBµV)	
	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.

4.2.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESU 26	100005	Apr. 25,15	Apr. 24,16
Artificial Mains Network	Rohde&Schwarz	ENV216	101173	Apr. 25,15	Apr. 24,16
Artificial Mains Network	Rohde&Schwarz	ESH3-Z5	100317	Apr. 25,15	Apr. 24,16
Test software	ADT	ADT_Cond_V7.3.7	N/A	N/A	N/A

- NOTE:**
1. The test was performed in shielded room 553.
 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.

4.2.3 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.

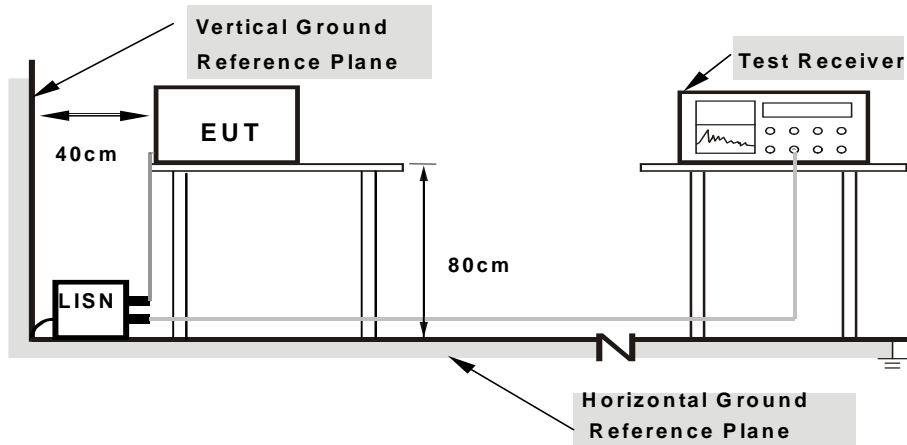
NOTE: All modes of operation were investigated and the worst-case emissions are reported.



4.2.4 DEVIATION FROM TEST STANDARD

No deviation.

4.2.5 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).

4.2.6 EUT OPERATING CONDITIONS

Same as 4.1.6



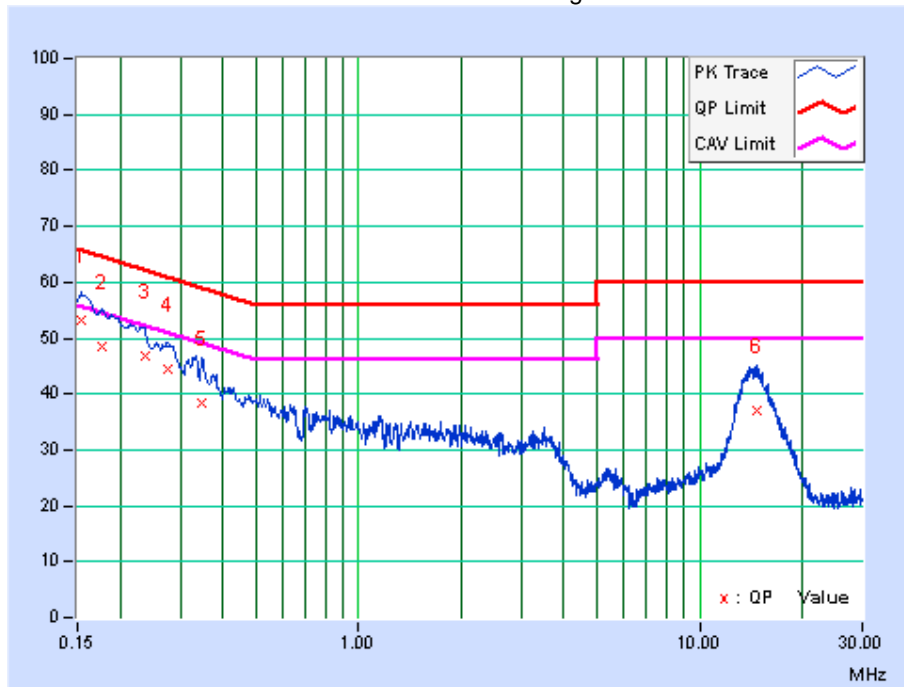
4.2.7 TEST RESULTS

CONDUCTED WORST-CASE DATA : 802.11a

PHASE	Line	6dB BANDWIDTH	9kHz
CHANNEL	Channel 36		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15468	9.78	43.45	28.01	53.23	37.79	65.74	55.74	-12.52	-17.96
2	0.17698	9.76	38.79	22.57	48.55	32.33	64.63	54.63	-16.07	-22.29
3	0.23600	9.75	37.00	21.82	46.75	31.57	62.24	52.24	-15.48	-20.66
4	0.27433	9.77	34.83	21.32	44.60	31.09	60.99	50.99	-16.38	-19.89
5	0.34800	9.82	28.47	13.94	38.29	23.76	59.01	49.01	-20.72	-25.25
6	14.75025	10.16	27.01	18.65	37.17	28.81	60.00	50.00	-22.83	-21.19

- 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 = Emission level - Limit value
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.

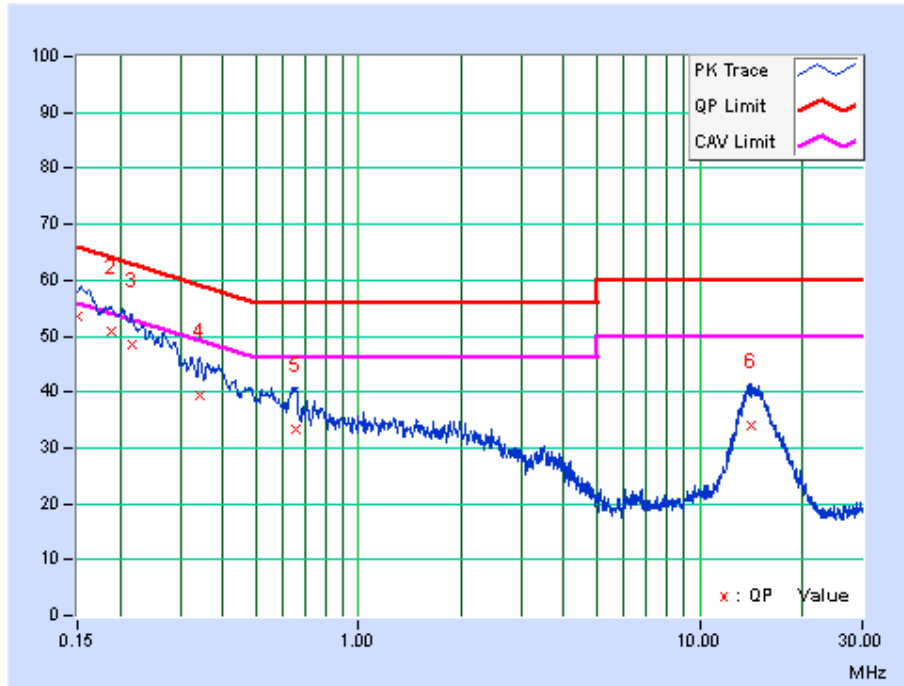




PHASE	Neutral	6dB BANDWIDTH	9kHz
CHANNEL	Channel 36		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	9.50	44.16	27.75	53.66	37.25	66.00	56.00	-12.34	-18.75
2	0.18825	9.51	41.23	25.32	50.74	34.83	64.11	54.11	-13.38	-19.29
3	0.21573	9.51	38.92	23.29	48.43	32.80	62.98	52.98	-14.55	-20.18
4	0.34064	9.55	30.00	14.77	39.55	24.32	59.19	49.19	-19.64	-24.87
5	0.65850	9.51	23.83	9.38	33.34	18.89	56.00	46.00	-22.66	-27.11
6	14.1270	9.92	24.23	15.99	34.15	25.91	60.00	50.00	-25.85	-24.09

- 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 = Emission level - Limit value
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.





4.3 CONDUCTED OUTPUT POWER MEASUREMENT

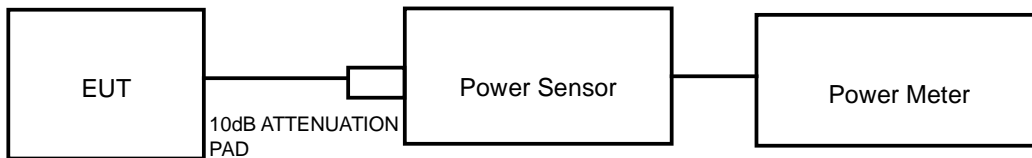
4.3.1 LIMITS OF CONDUCTED OUTPUT POWER MEASUREMENT

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)
	√	Mobile and Portable client device	250mW (24 dBm)
U-NII-2A		√	250mW(24dBm) or 11 dBm+10LogB*
U-NII-2C		√	250mW(24dBm) or 11 dBm+10LogB*
U-NII-3		√	1 Watt (30 dBm)

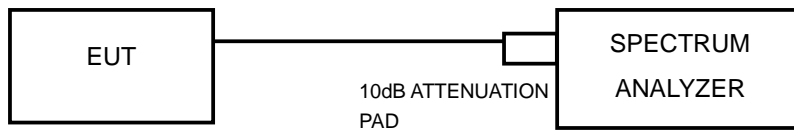
NOTE: 1. Where B is the 26dB emission bandwidth in MHz.

4.3.2 TEST SETUP

FOR POWER OUTPUT MEASUREMENT



FOR 6/26dB BANDWIDTH



4.3.3 TEST INSTRUMENTS

Refer to section 4.1.3 to get information of above instrument.



4.3.4 TEST PROCEDURE

FOR AVERAGE POWER MEASUREMENT

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

FOR 26dB BANDWIDTH

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

FOR 6dB BANDWIDTH

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

4.3.5 DEVIATION FROM TEST STANDARD

No deviation.

4.3.6 EUT OPERATING CONDITIONS

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



4.3.7 TEST RESULTS

OUTPUT POWER:

802.11a

CHANNEL	CHANNEL FREQUENCY (MHz)	MAX. OUTPUT POWER (mW)	MAX. OUTPUT POWER (dBm)	POWER LIMIT (dBm)	PASS/FAIL
36	5180	19.76970	12.96	24	PASS
40	5200	20.13724	12.97	24	PASS
48	5240	20.13724	13.04	24	PASS
52	5260	19.86095	12.98	24	PASS
56	5280	19.09853	12.96	24	PASS
64	5320	20.23019	13.06	24	PASS
100	5500	20.18366	13.05	24	PASS
116	5580	22.02926	13.43	24	PASS
140	5700	20.04472	13.02	24	PASS
149	5745	20.89296	13.20	30	PASS
157	5785	20.79697	13.18	30	PASS
165	5825	20.37042	13.09	30	PASS

802.11n (20MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	MAX. OUTPUT POWER (mW)	MAX. OUTPUT POWER (dBm)	POWER LIMIT (dBm)	PASS/FAIL
36	5180	16.48162	12.17	24	PASS
40	5200	15.73983	12.15	24	PASS
48	5240	15.88547	12.01	24	PASS
52	5260	15.88547	12.01	24	PASS
56	5280	15.92209	11.98	24	PASS
64	5320	16.10646	12.07	24	PASS
100	5500	17.74189	12.49	24	PASS
116	5580	18.49269	12.67	24	PASS
140	5700	15.88547	12.01	24	PASS
149	5745	16.63413	12.21	30	PASS
157	5785	15.88547	11.94	30	PASS
165	5825	15.63148	12.15	30	PASS



802.11n (40MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	MAX. OUTPUT POWER (mW)	MAX. OUTPUT POWER (dBm)	POWER LIMIT (dBm)	PASS/FAIL
38	5190	21.77710	13.38	24	PASS
46	5230	20.98940	13.22	24	PASS
54	5270	23.44229	13.70	24	PASS
62	5310	22.43882	13.51	24	PASS
102	5510	22.49055	13.52	24	PASS
110	5550	22.08005	13.44	24	PASS
134	5670	22.13095	13.45	24	PASS
151	5755	21.52782	13.33	30	PASS
159	5795	23.65920	13.74	30	PASS



26dB BANDWIDTH & 6dB BANDWIDTH:

802.11a

CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)	PASS / FAIL
36	5180	25.86	PASS
40	5200	25.39	PASS
48	5240	24.80	PASS
52	5260	25.54	PASS
56	5280	31.34	PASS
64	5320	24.73	PASS
100	5500	25.63	PASS
116	5580	21.33	PASS
140	5700	22.99	PASS
CHANNEL	CHANNEL FREQUENCY (MHz)	6dBc BANDWIDTH (MHz)	PASS / FAIL
149	5745	16.41	PASS
157	5785	16.41	PASS
165	5825	16.41	PASS

802.11n (20MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)	PASS / FAIL
36	5180	22.67	PASS
40	5200	22.67	PASS
48	5240	20.29	PASS
52	5260	22.60	PASS
56	5280	20.11	PASS
64	5320	20.18	PASS
100	5500	20.06	PASS
116	5580	20.03	PASS
140	5700	20.12	PASS
CHANNEL	CHANNEL FREQUENCY (MHz)	6dBc BANDWIDTH (MHz)	PASS / FAIL
149	5745	17.65	PASS
157	5785	17.66	PASS
165	5825	17.65	PASS



802.11n (40MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)	PASS / FAIL
38	5190	58.10	PASS
46	5230	61.00	PASS
54	5270	73.07	PASS
62	5310	69.87	PASS
102	5510	57.26	PASS
110	5550	47.56	PASS
134	5670	45.77	PASS
CHANNEL	CHANNEL FREQUENCY (MHz)	6dBc BANDWIDTH (MHz)	PASS / FAIL
151	5755	36.46	PASS
159	5795	36.42	PASS

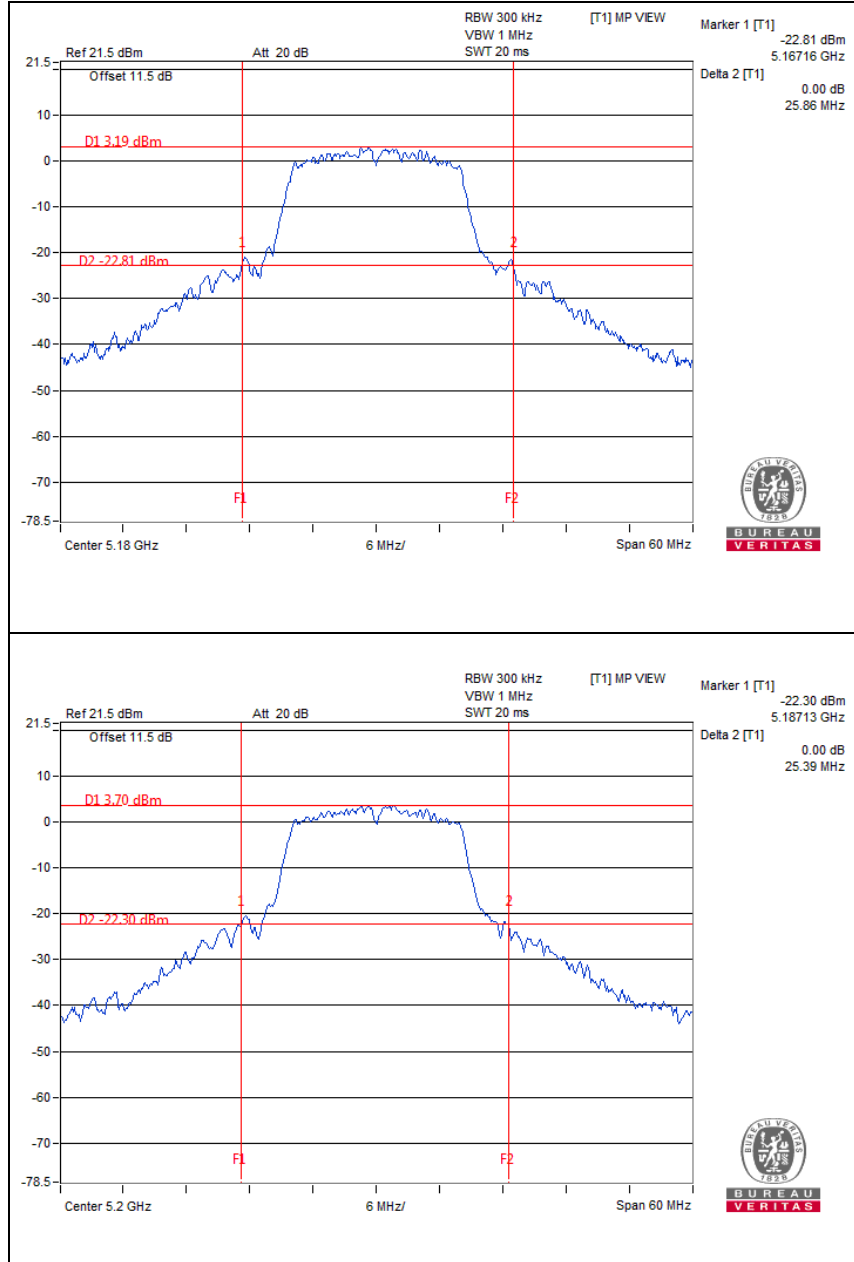


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Test Report No.: RF150612N055-3

26dB bandwidth Test Plot

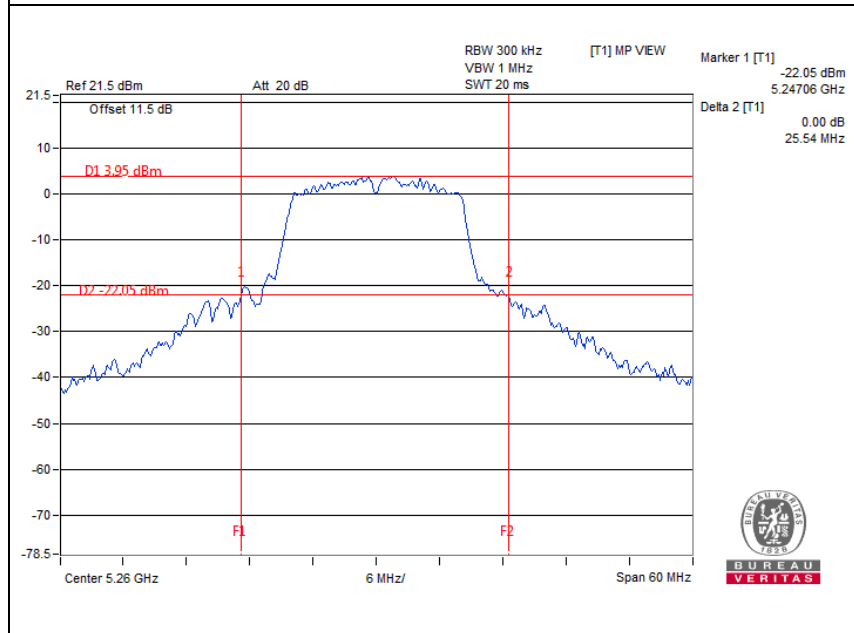
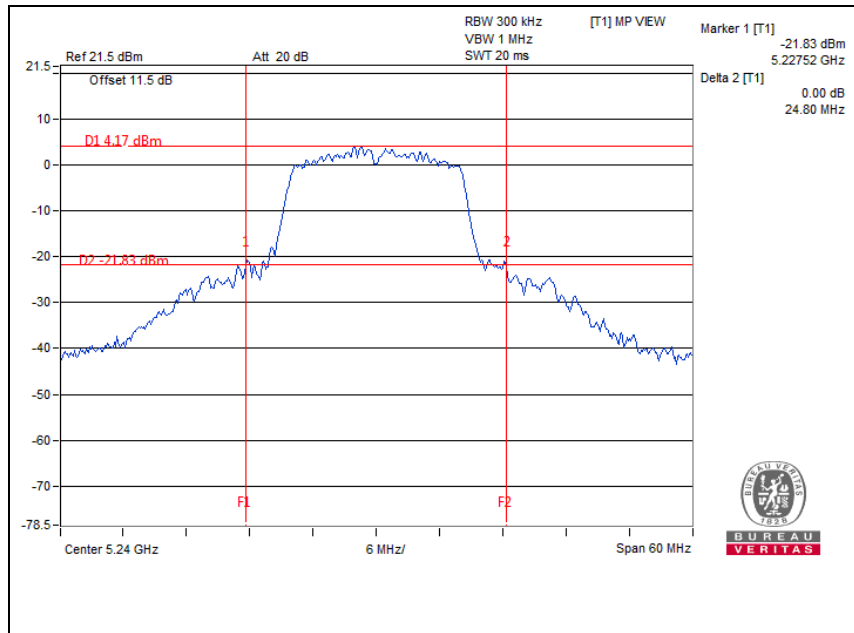
802.11a





BUREAU VERITAS

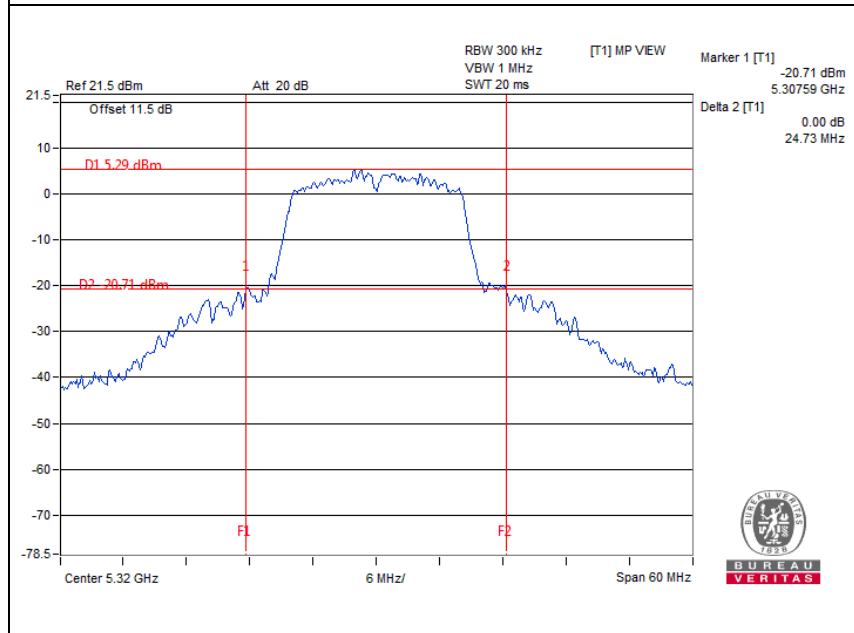
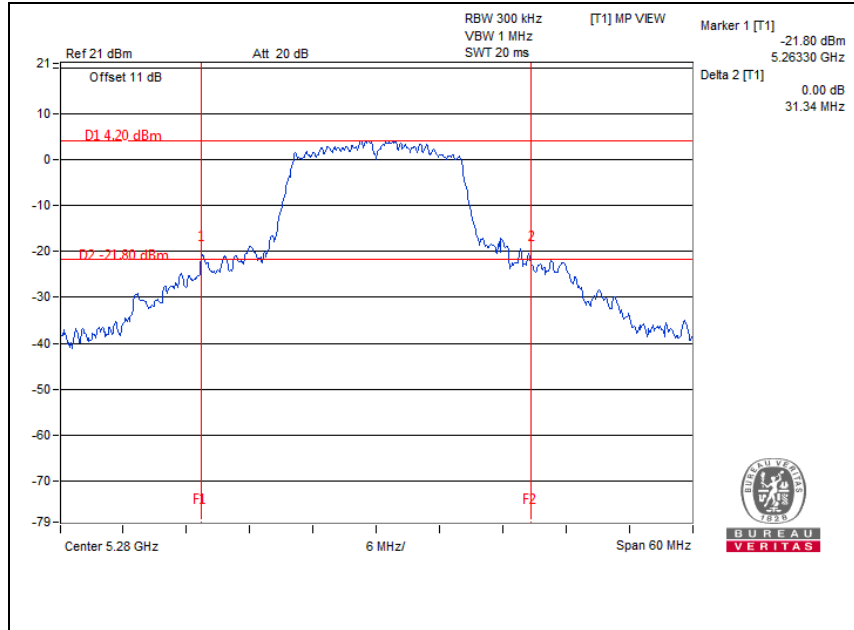
Test Report No.: RF150612N055-3





BUREAU VERITAS

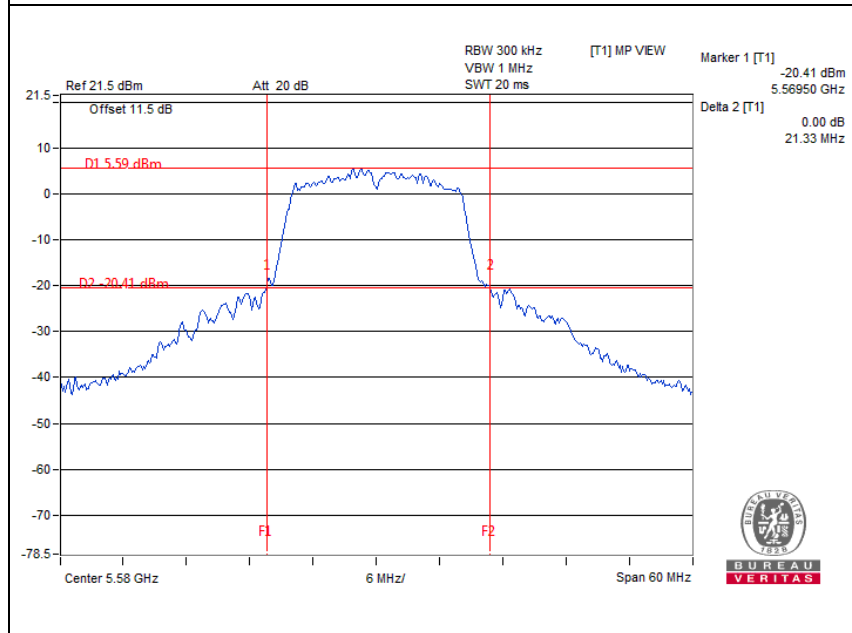
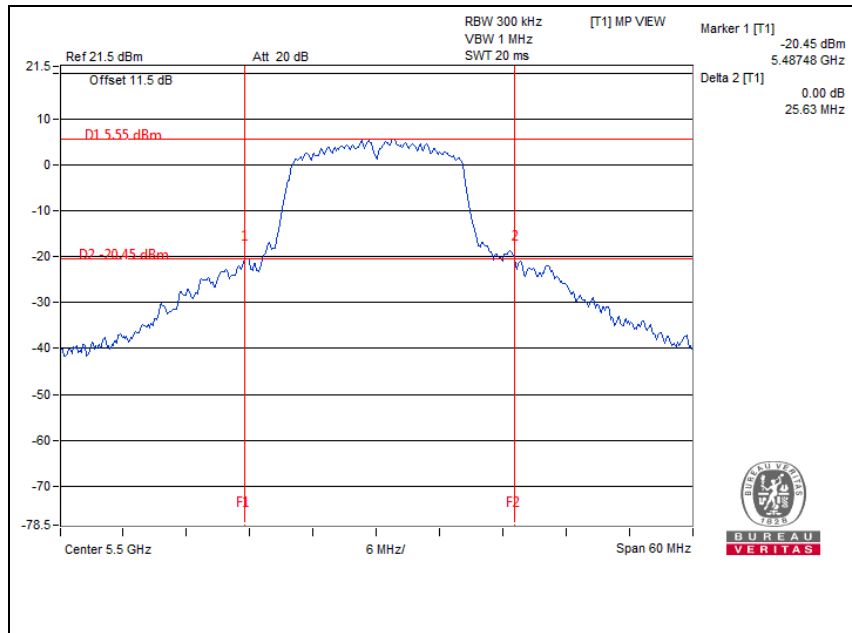
Test Report No.: RF150612N055-3





BUREAU VERITAS

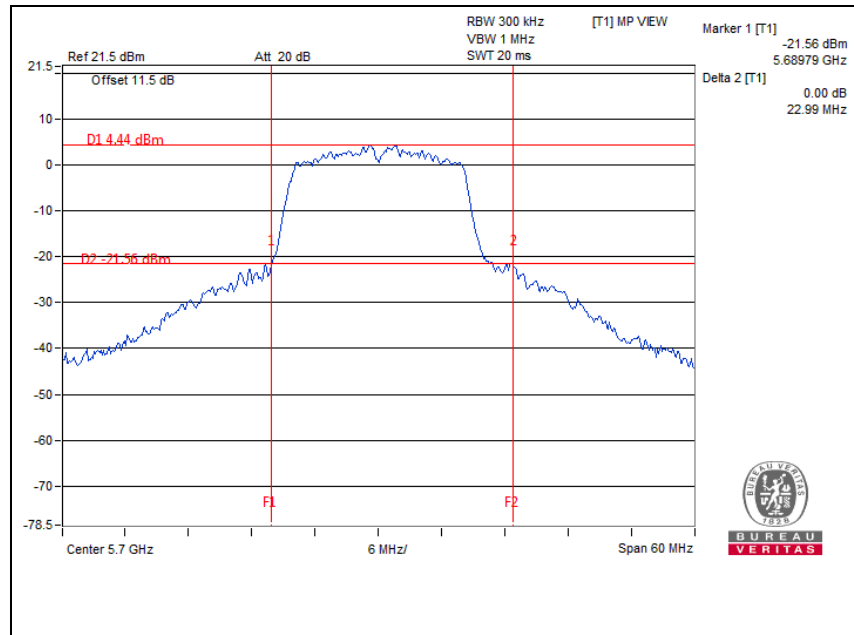
Test Report No.: RF150612N055-3





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VERITAS

Test Report No.: RF150612N055-3



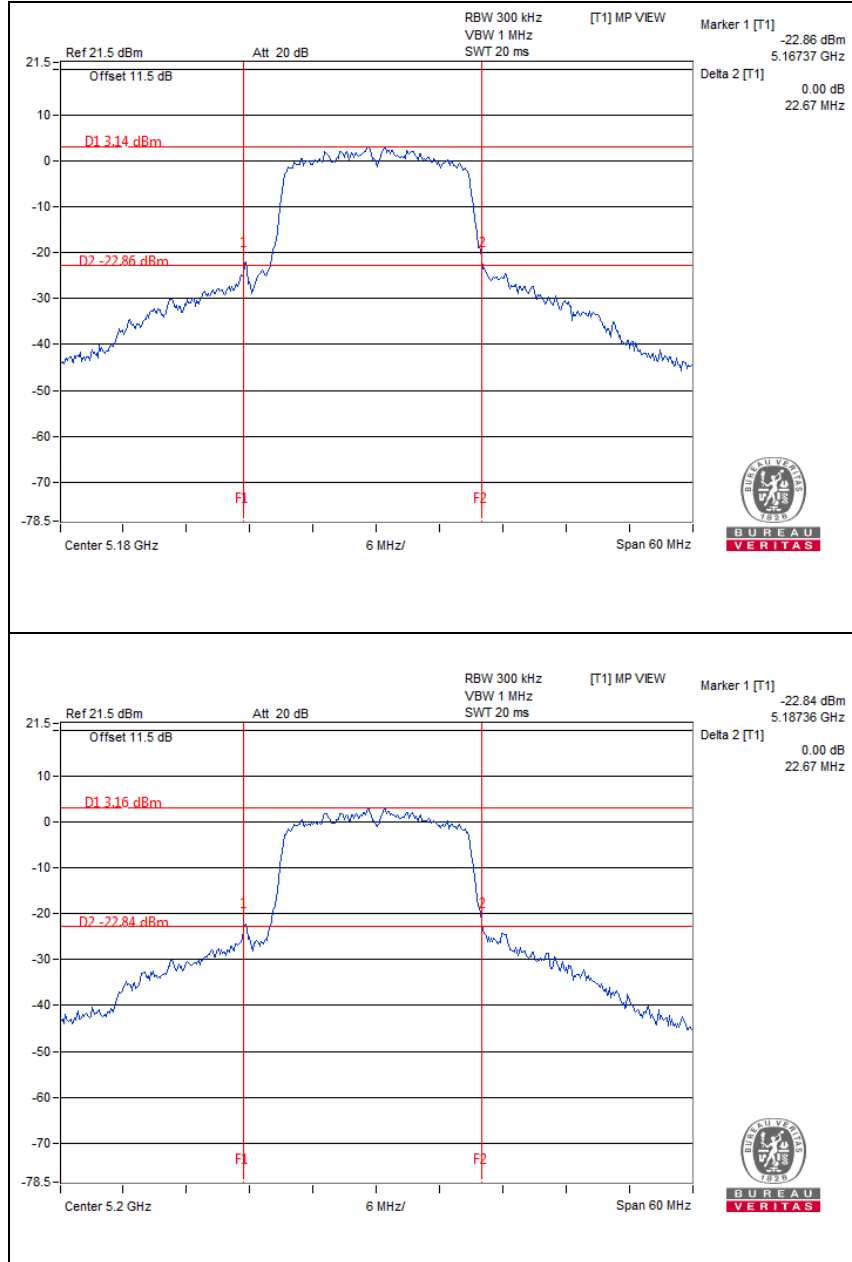


BUREAU VERITAS

Test Report No.: RF150612N055-3

26dB bandwidth Test Plot

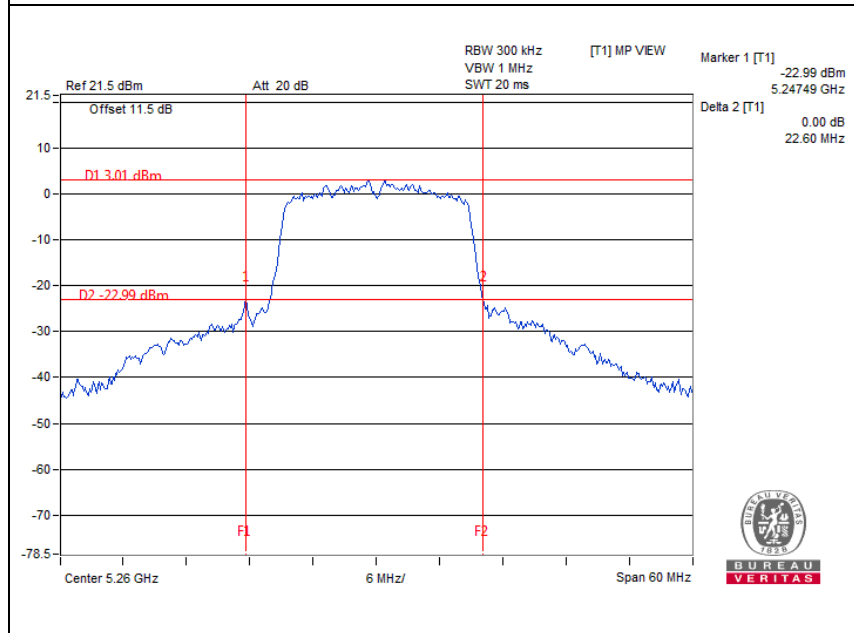
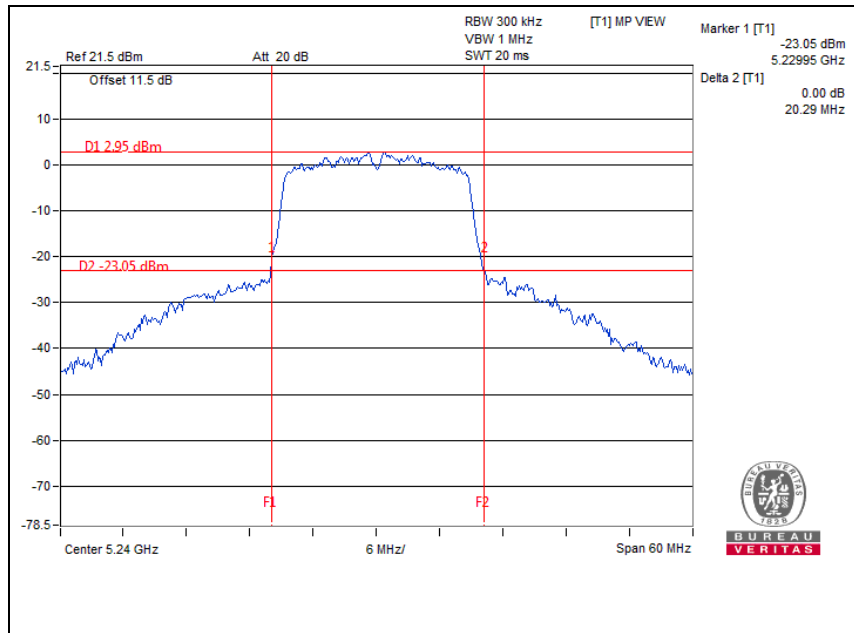
802.11n(20MHz)





BUREAU VERITAS

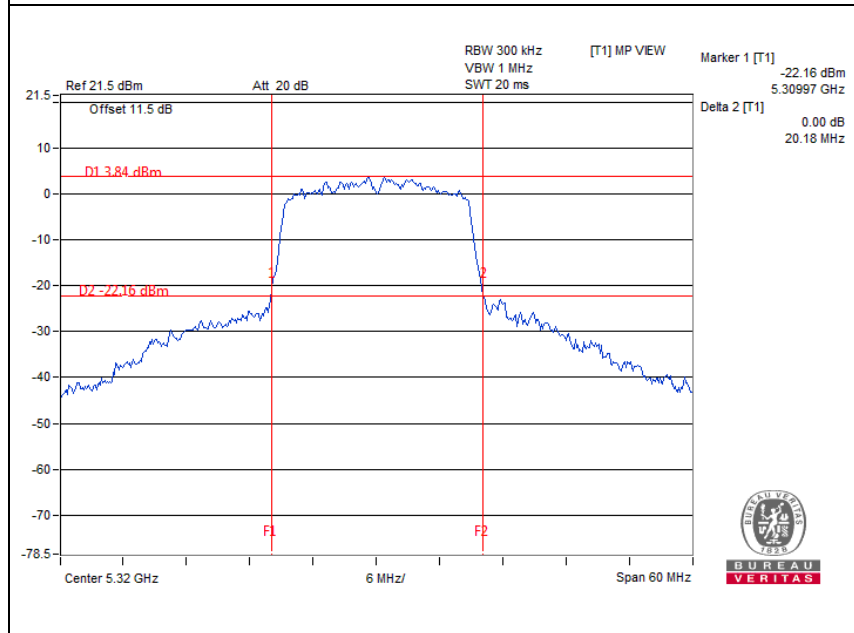
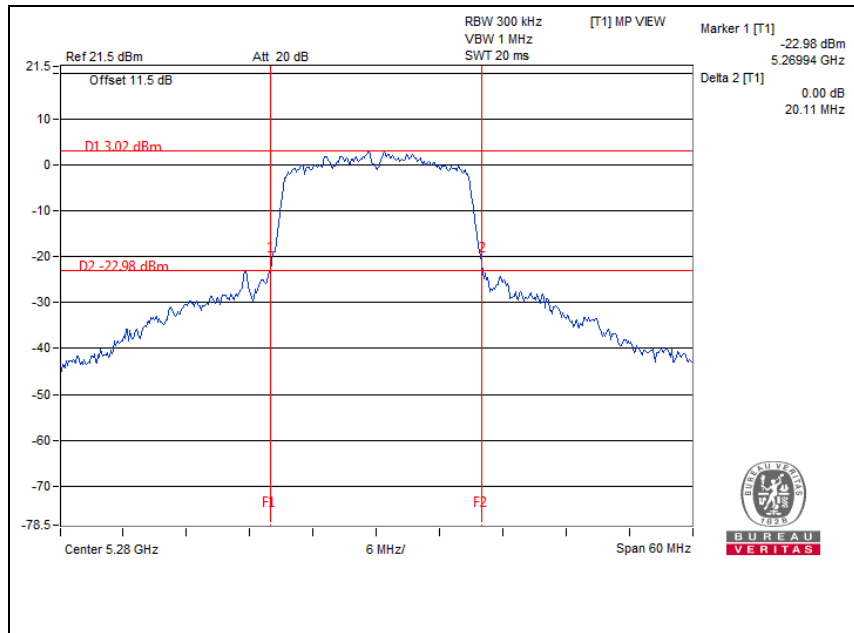
Test Report No.: RF150612N055-3





BUREAU VERITAS

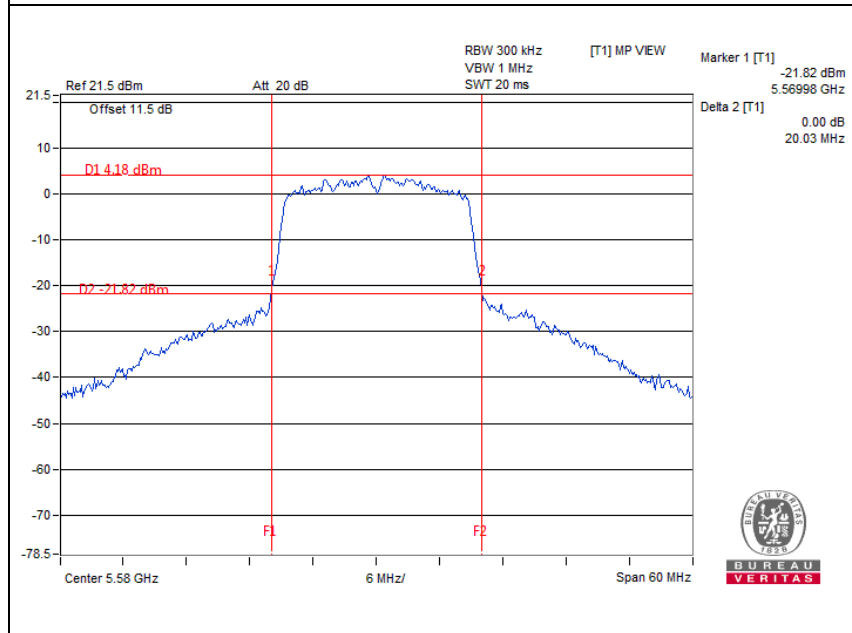
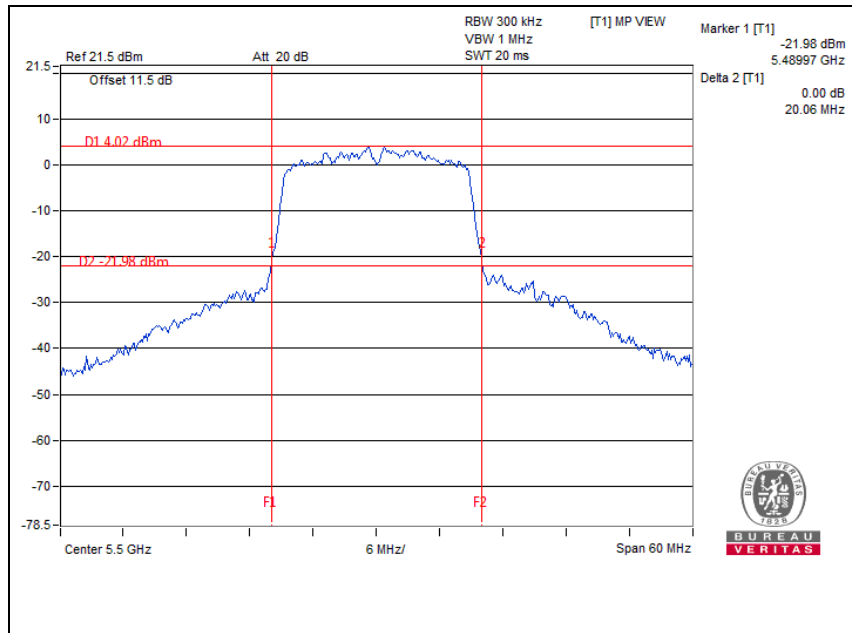
Test Report No.: RF150612N055-3





BUREAU VERITAS

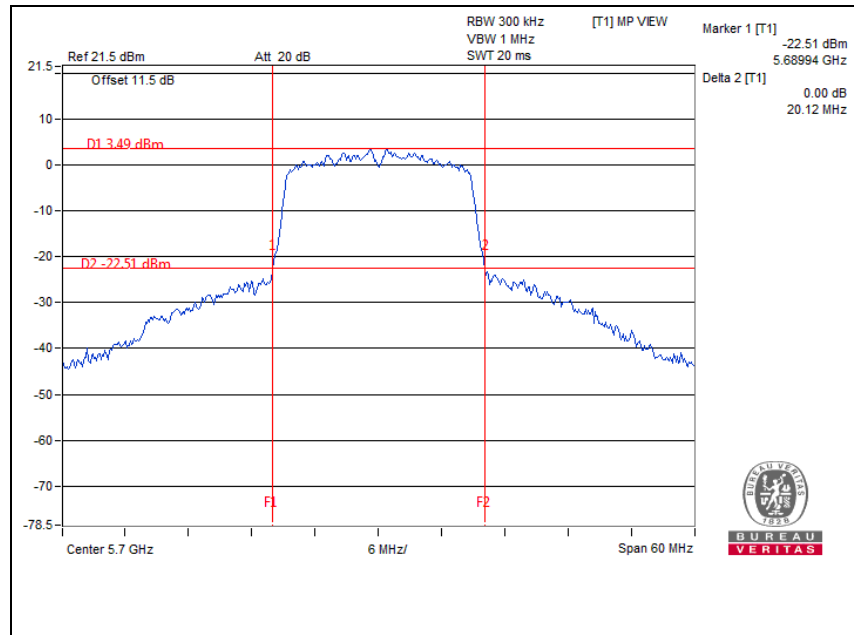
Test Report No.: RF150612N055-3





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Test Report No.: RF150612N055-3



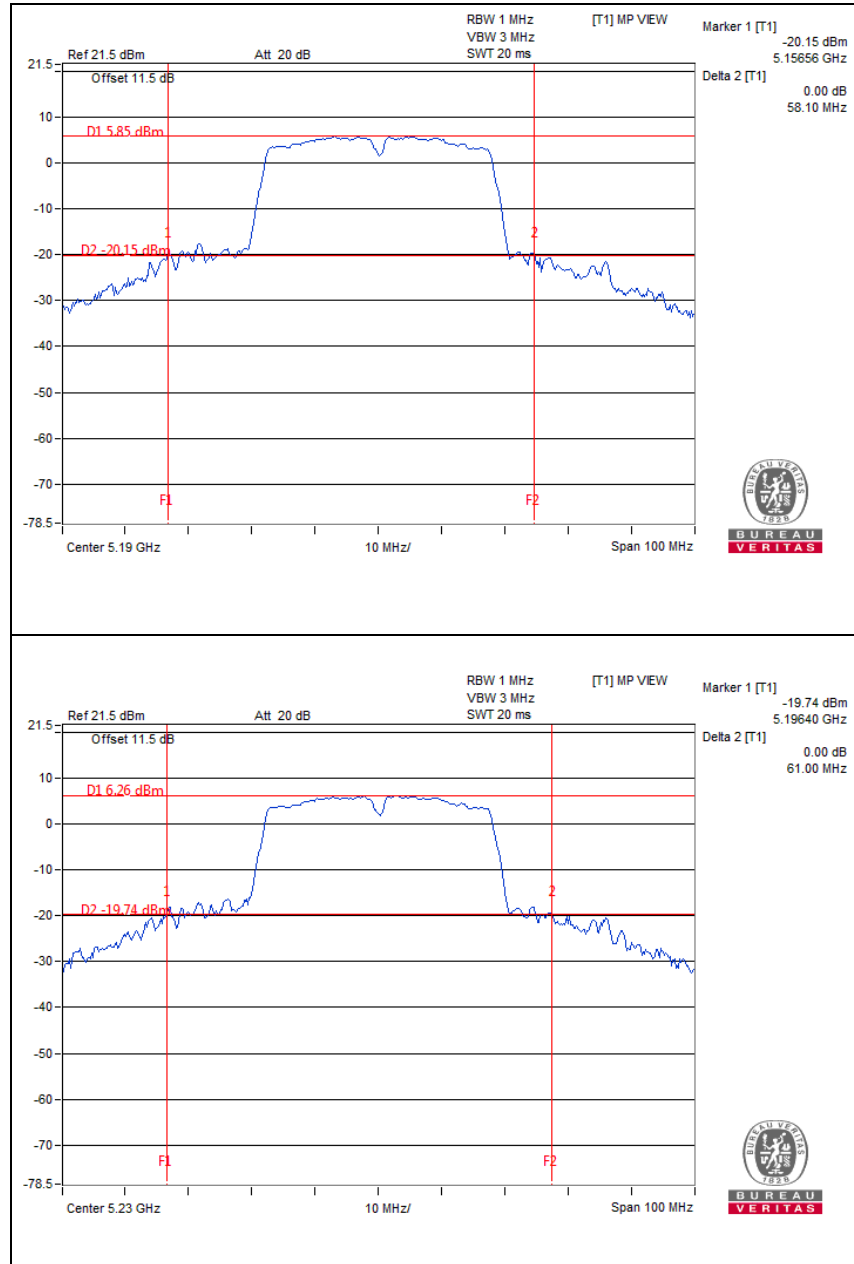


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Test Report No.: RF150612N055-3

26dB bandwidth Test Plot

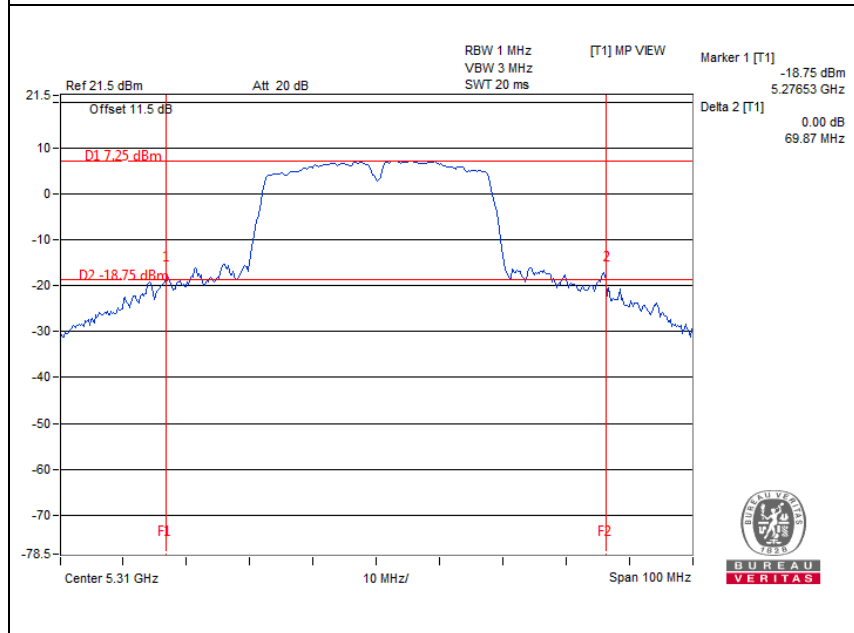
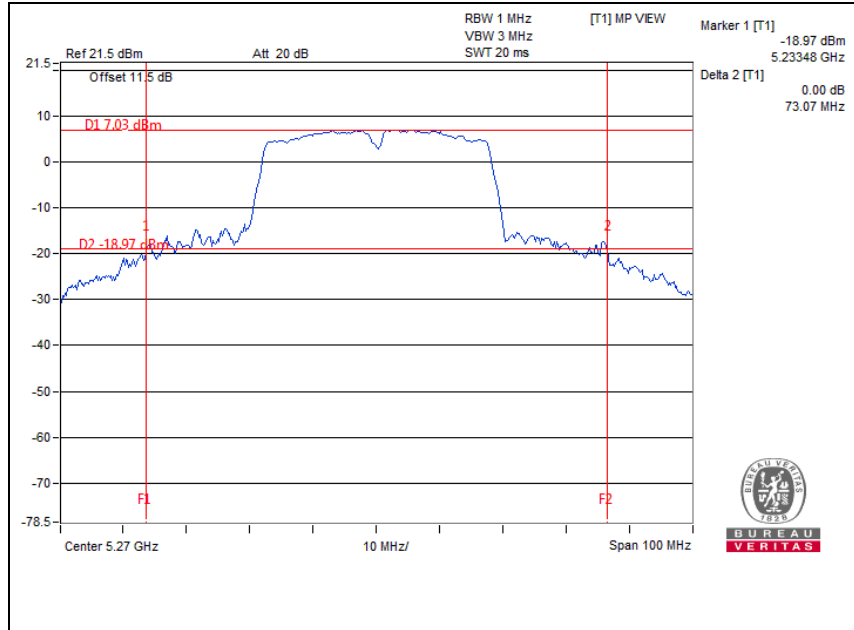
802.11n(40MHz)





BUREAU VERITAS

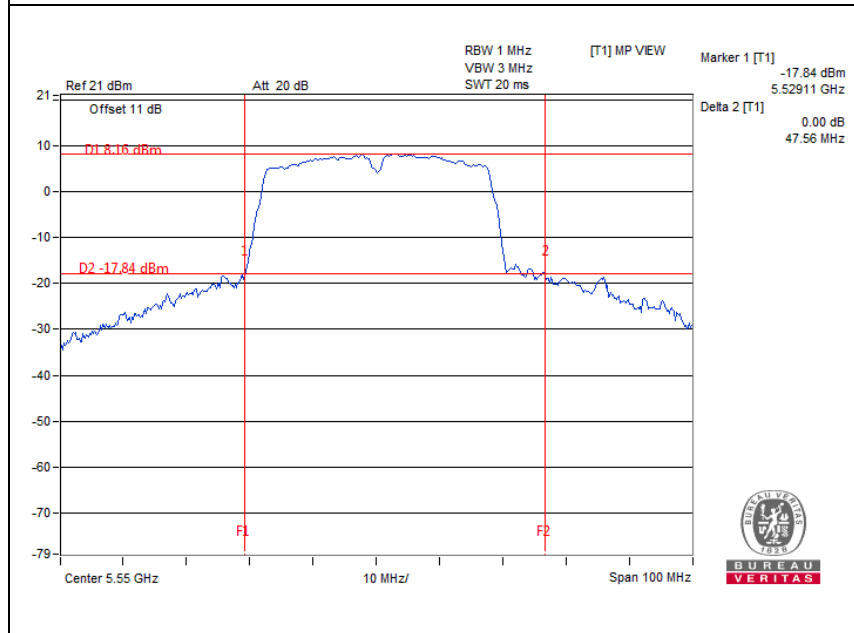
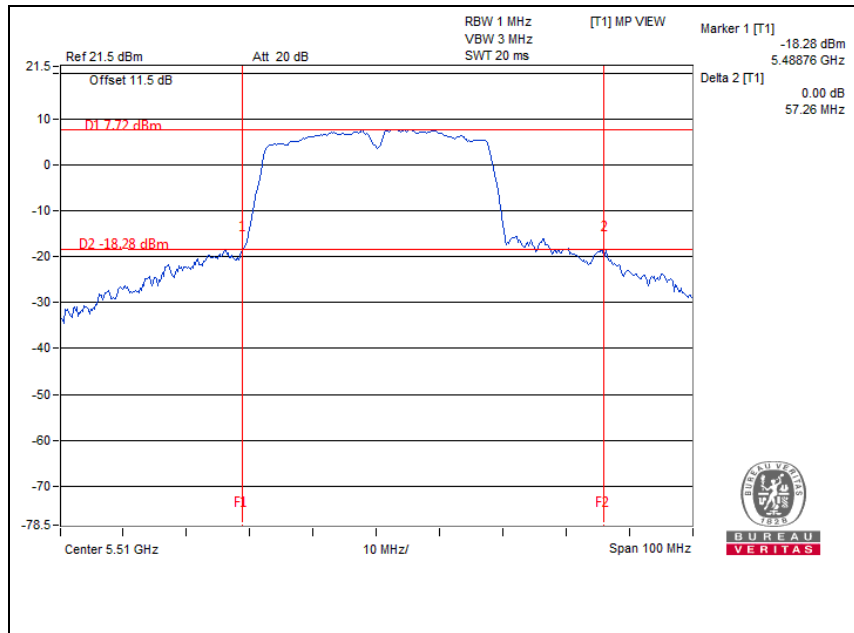
Test Report No.: RF150612N055-3





BUREAU VERITAS

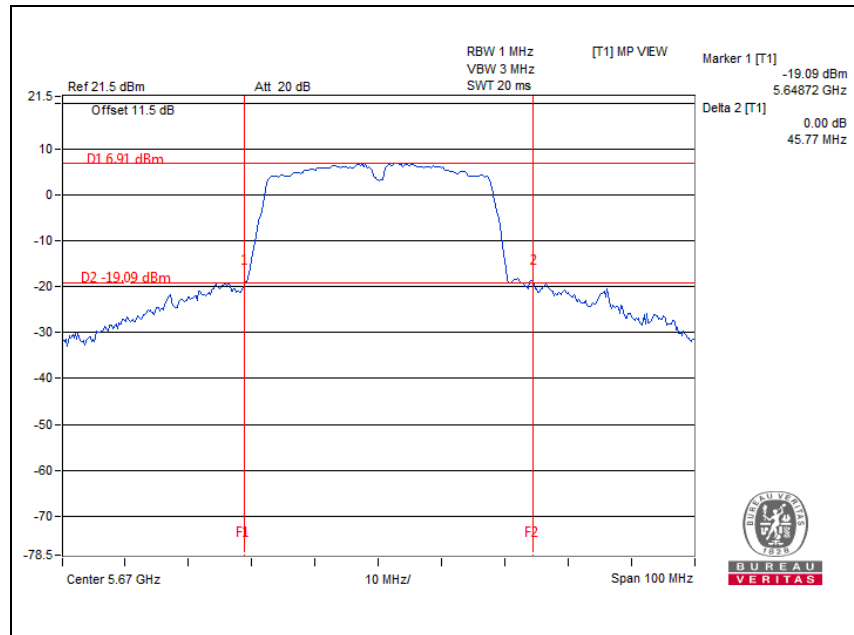
Test Report No.: RF150612N055-3





BUREAU
VERITAS

Test Report No.: RF150612N055-3



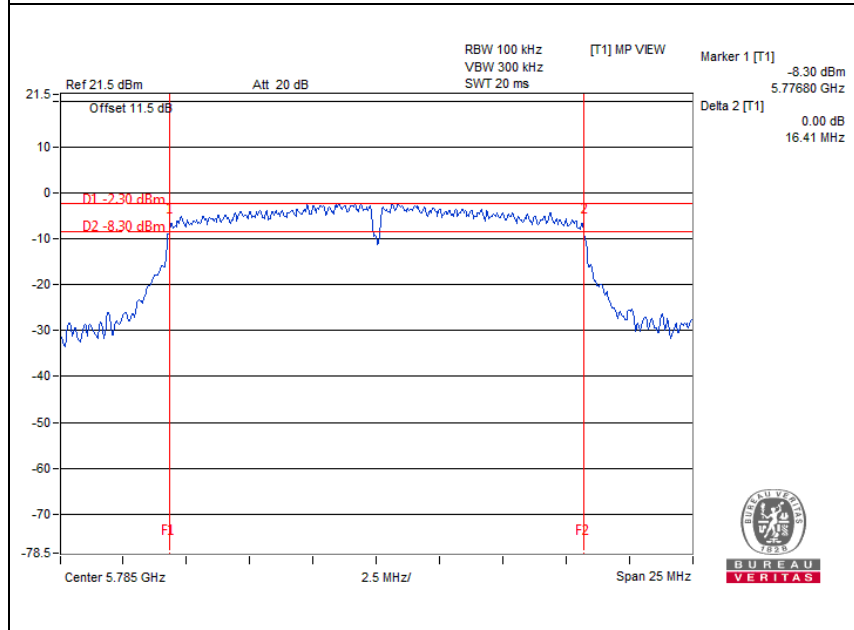
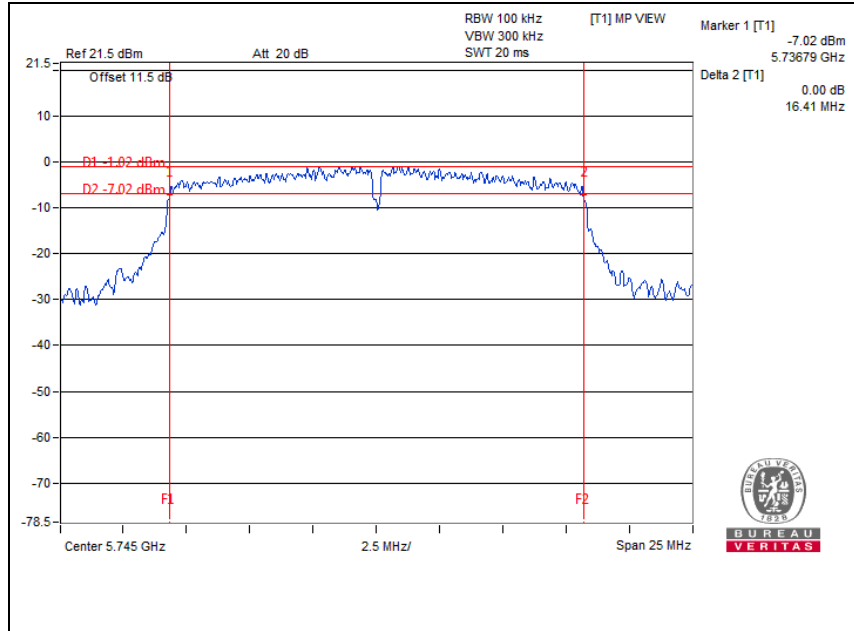


BUREAU VERITAS

Test Report No.: RF150612N055-3

6dB bandwidth Test Plot

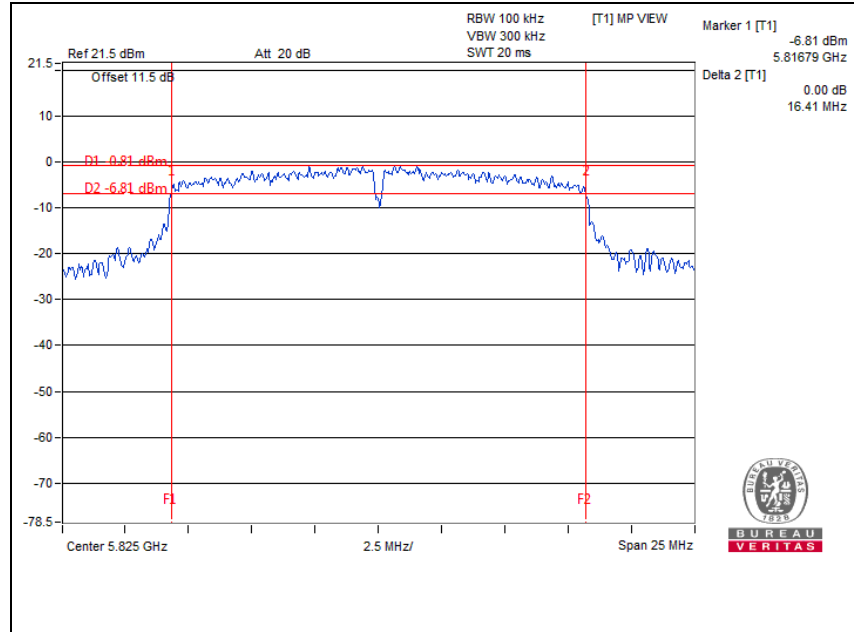
802.11a





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Test Report No.: RF150612N055-3



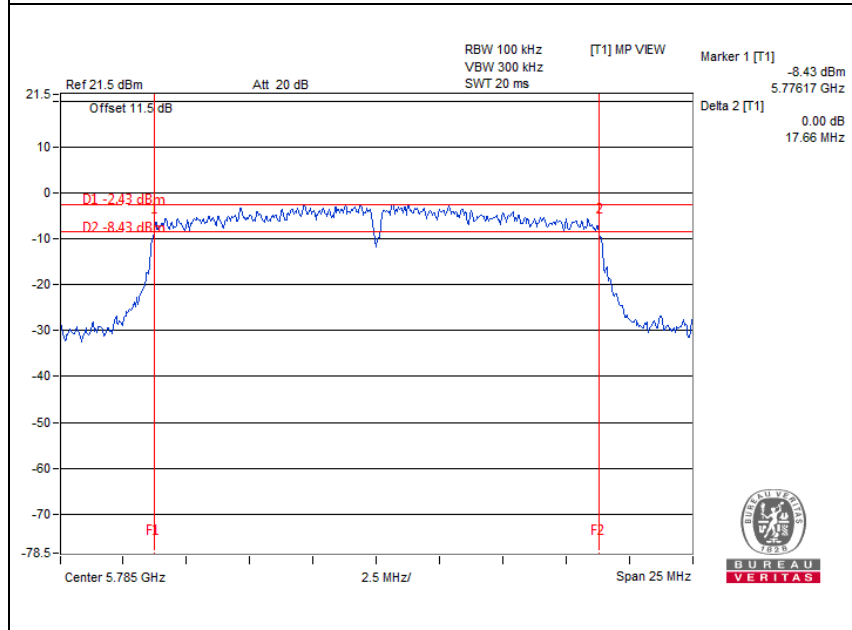
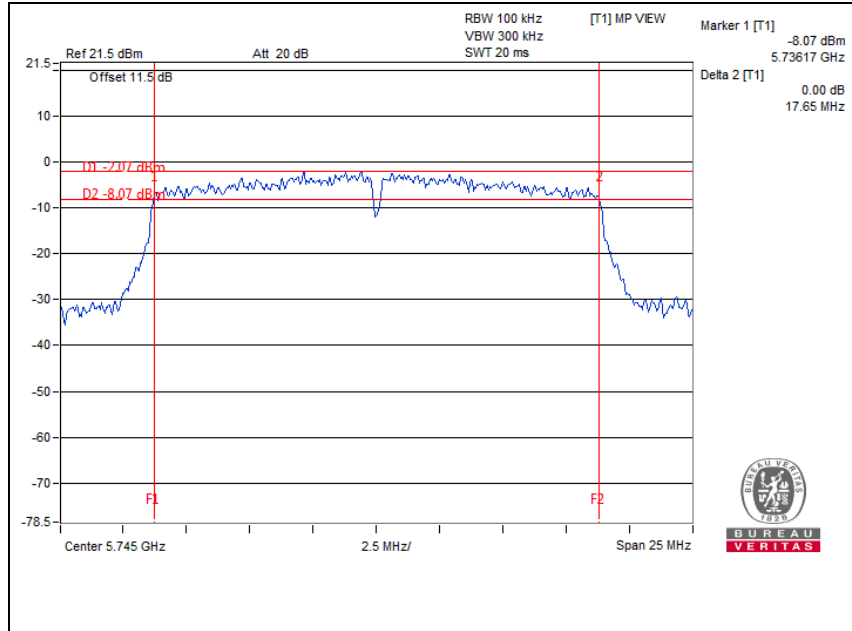


BUREAU VERITAS

Test Report No.: RF150612N055-3

6dB bandwidth Test Plot

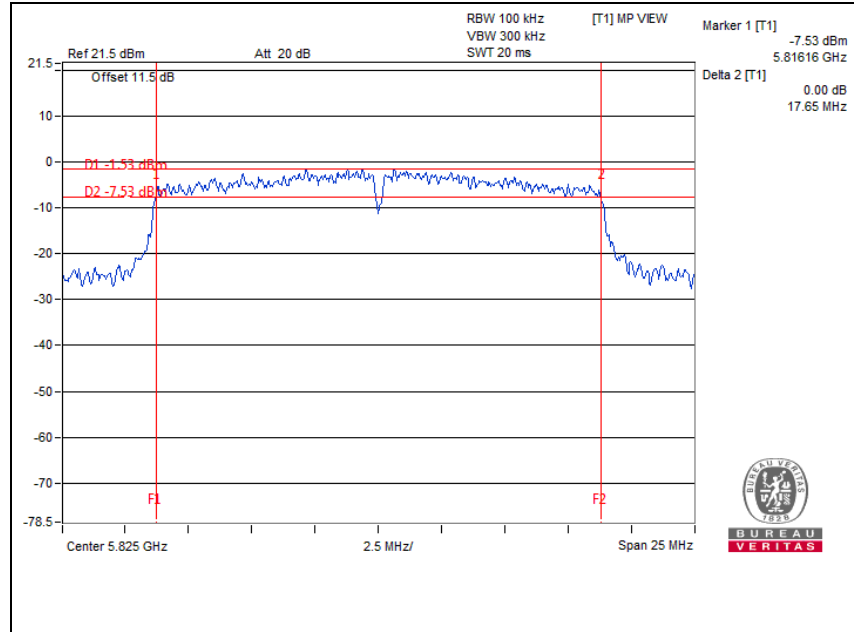
802.11n(20MHz)





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Test Report No.: RF150612N055-3



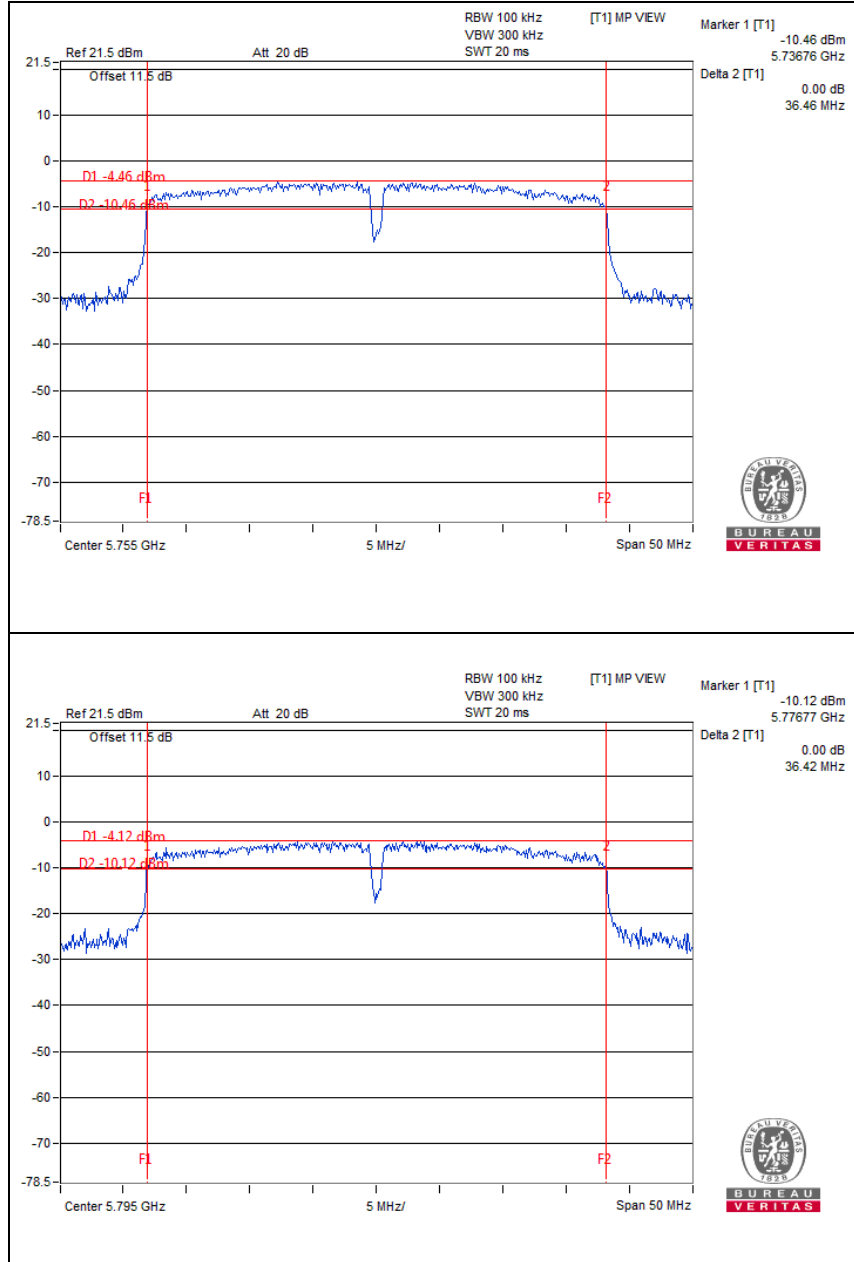


BUREAU VERITAS

Test Report No.: RF150612N055-3

6dB bandwidth Test Plot

802.11n(40MHz)



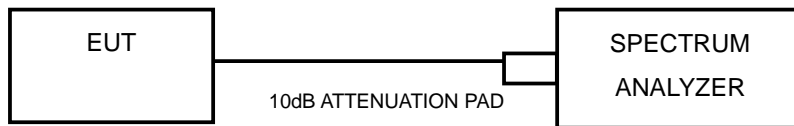


4.4 PEAK POWER SPECTRAL DENSITY MEASUREMENT

4.4.1 LIMITS OF PEAK POWER SPECTRAL DENSITY MEASUREMENT

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

4.4.2 TEST SETUP



4.4.3 TEST INSTRUMENTS

Refer to section 4.1.3 to get information of above instrument.

4.4.4 TEST PROCEDURES

Using method SA-1

- 1) Set span to encompass the entire emission bandwidth (EBW) of the signal.
- 2) Set RBW = 30 KHz, Set VBW ≥ 1 MHz, Detector = RMS for U-NII-1
Set RBW = 1MHz, Set VBW ≥ 3 MHz, Detector = RMS for U-NII-3
- 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) Record the max value



BUREAU Test Report No.: RF150612N055-3
VERITAS

4.4.5 DEVIATION FROM TEST STANDARD

No deviation.

4.4.6 EUT OPERATING CONDITIONS

Same as 4.1.6.



4.4.7 TEST RESULTS

For U-NII-1, U-NII-2A & U-NII-2C:

802.11a

CHANNEL	FREQUENCY (MHz)	PSD w/o Duty Factor (dBm/MHz)	Duty Factor	PSD with Duty Factor (dBm/MHz)	MAXIMUM LIMIT (dBm/MHz)	PASS/FAIL
36	5180	-1.70	0	-1.70	11	PASS
40	5200	-1.40	0	-1.40	11	PASS
48	5240	-0.94	0	-0.94	11	PASS
52	5260	-0.63	0	-0.63	11	PASS
56	5280	-1.74	0	-1.74	11	PASS
64	5320	0.07	0	0.07	11	PASS
100	5500	0.71	0	0.71	11	PASS
116	5580	0.69	0	0.69	11	PASS
140	5700	-0.48	0	-0.48	11	PASS

802.11n (20MHz)

CHANNEL	FREQUENCY (MHz)	PSD w/o Duty Factor (dBm/MHz)	Duty Factor	PSD with Duty Factor (dBm/MHz)	MAXIMUM LIMIT (dBm/MHz)	PASS/FAIL
36	5180	-1.75	0	-1.75	11	PASS
40	5200	-1.85	0	-1.85	11	PASS
48	5240	-1.94	0	-1.94	11	PASS
52	5260	-3.28	0	-3.28	11	PASS
56	5280	-3.18	0	-3.18	11	PASS
64	5320	-1.28	0	-1.28	11	PASS
100	5500	-0.78	0	-0.78	11	PASS
116	5580	-0.51	0	-0.51	11	PASS
140	5700	-1.50	0	-1.50	11	PASS



802.11n (40MHz)

CHANNEL	FREQUENCY (MHz)	PSD w/o Duty Factor (dBm/MHz)	Duty Factor	PSD with Duty Factor (dBm/MHz)	MAXIMUM LIMIT (dBm/MHz)	PASS/FAIL
38	5190	-4.49	0	-4.49	11	PASS
46	5230	-5.04	0	-5.04	11	PASS
54	5270	-3.87	0	-3.87	11	PASS
62	5310	-3.63	0	-3.63	11	PASS
102	5510	-3.13	0	-3.13	11	PASS
110	5550	-2.34	0	-2.34	11	PASS
134	5670	-4.31	0	-4.31	11	PASS



For U-NII-3:

802.11a

CHANNEL	FREQUENCY (MHz)	PSD w/o Duty Factor (dBm/500kHz)	Duty Factor	PSD with Duty Factor (dBm/500kHz)	LIMIT (dBm/500kHz)	PASS /FAIL
149	5745	1.06	0	1.06	30	PASS
157	5785	0.91	0	0.91	30	PASS
165	5825	0.75	0	0.75	30	PASS

802.11n (20M)

CHANNEL	FREQUENCY (MHz)	PSD w/o Duty Factor (dBm/500kHz)	Duty Factor	PSD with Duty Factor (dBm/500kHz)	LIMIT (dBm/500kHz)	PASS /FAIL
149	5745	-0.47	0	-0.47	30	PASS
157	5785	-0.83	0	-0.83	30	PASS
161	5805	-0.76	0	-0.76	30	PASS

802.11n (40MHz)

CHANNEL	FREQUENCY (MHz)	PSD w/o Duty Factor (dBm/500kHz)	Duty Factor	PSD with Duty Factor (dBm/500kHz)	LIMIT (dBm/500kHz)	PASS /FAIL
151	5755	-2.72	0	-2.72	30	PASS
159	5795	-2.98	0	-2.98	30	PASS

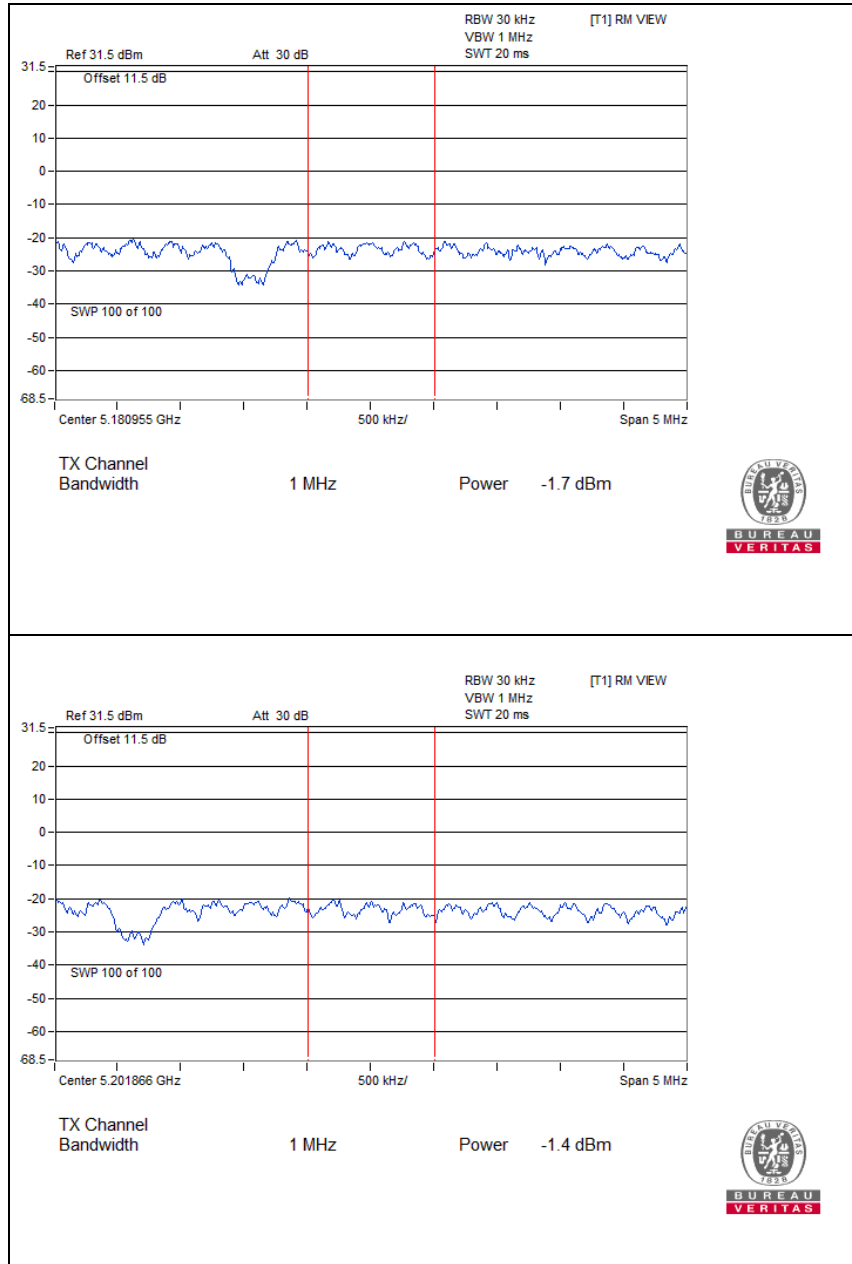


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Test Report No.: RF150612N055-3

PSD Test Plot

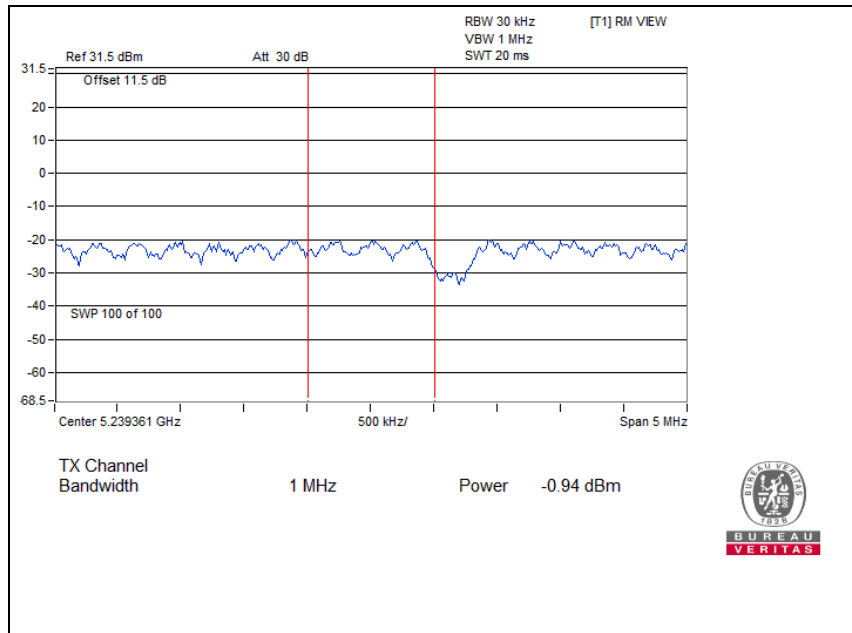
802.11a





BUREAU VERITAS

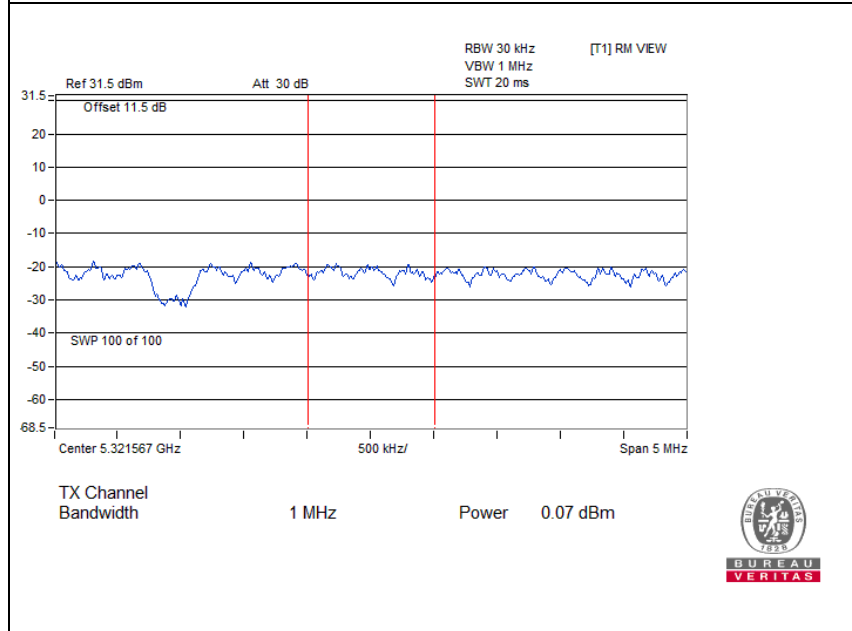
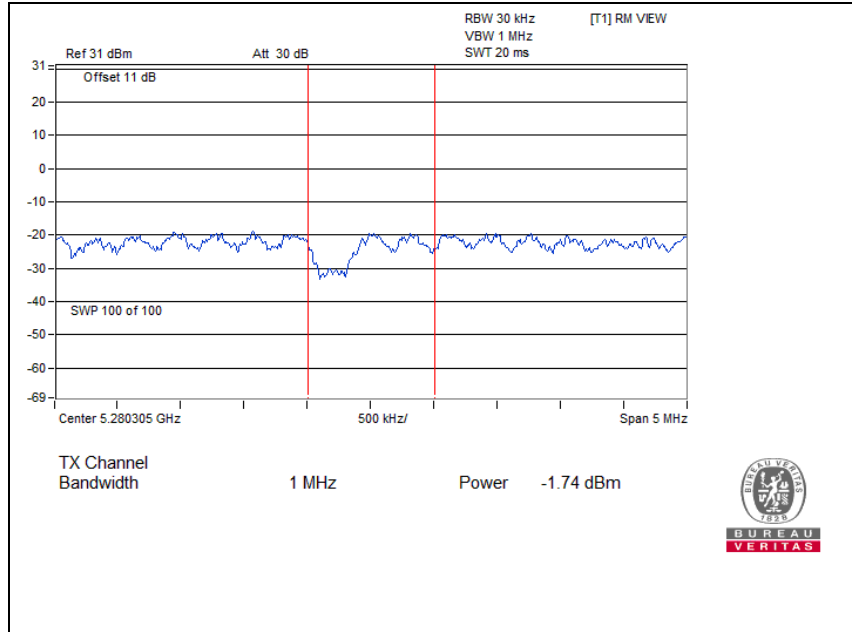
Test Report No.: RF150612N055-3





BUREAU VERITAS

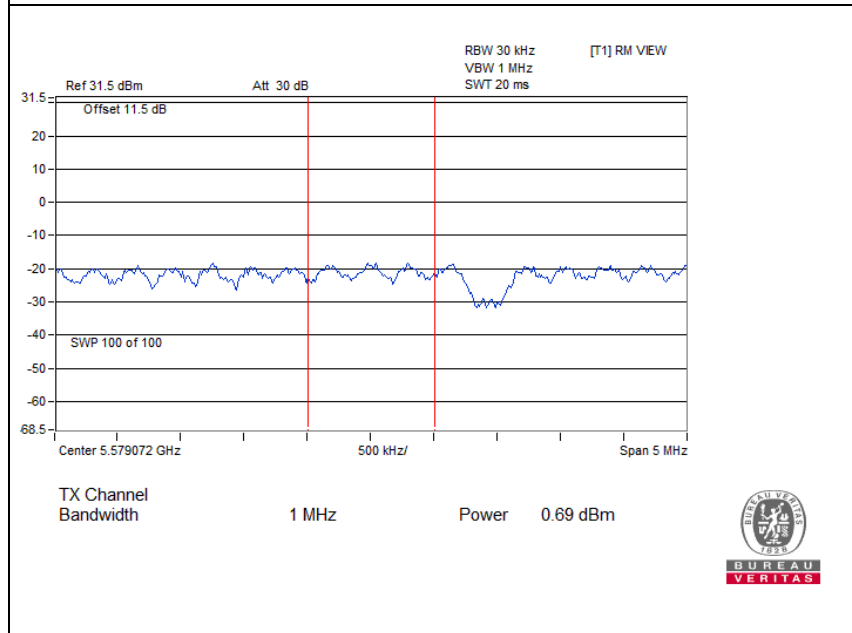
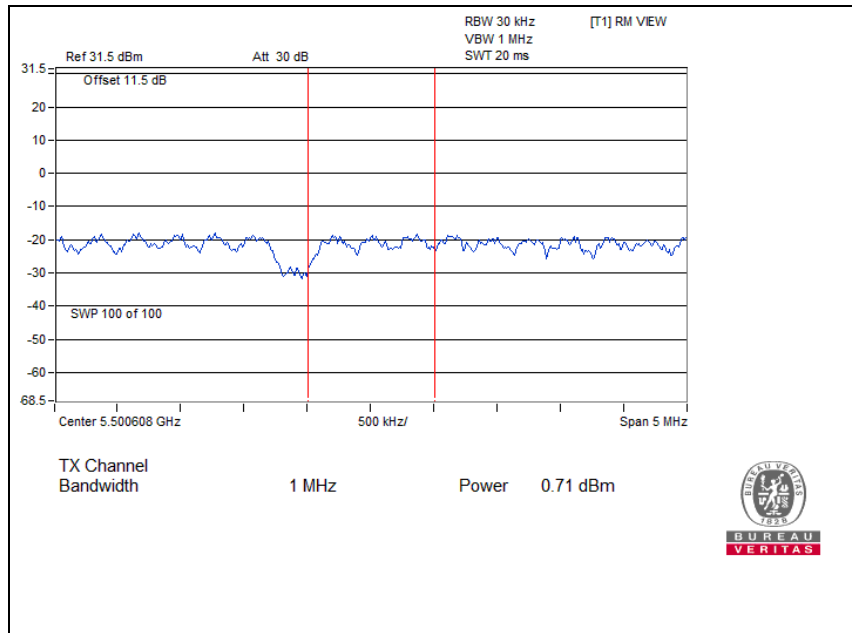
Test Report No.: RF150612N055-3





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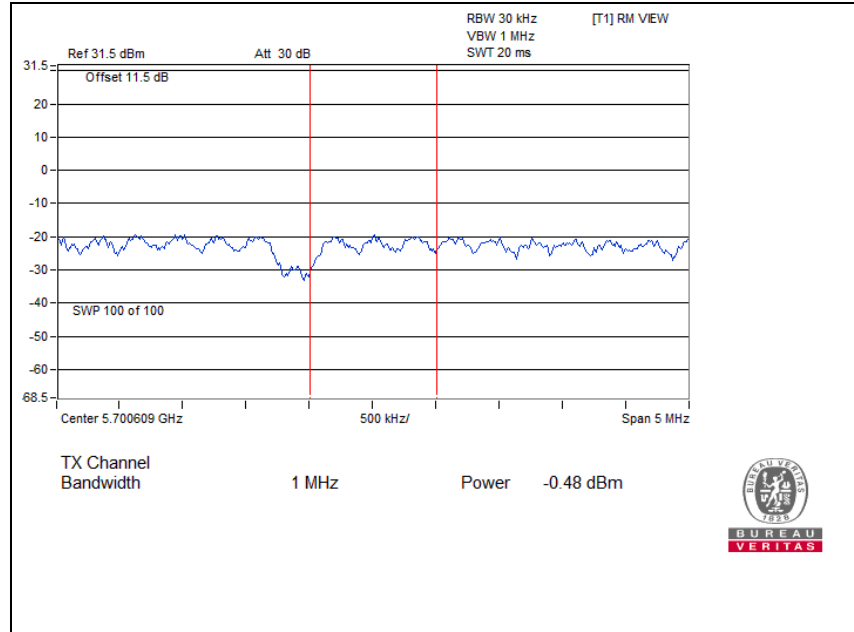
Test Report No.: RF150612N055-3





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VERITAS**

Test Report No.: RF150612N055-3

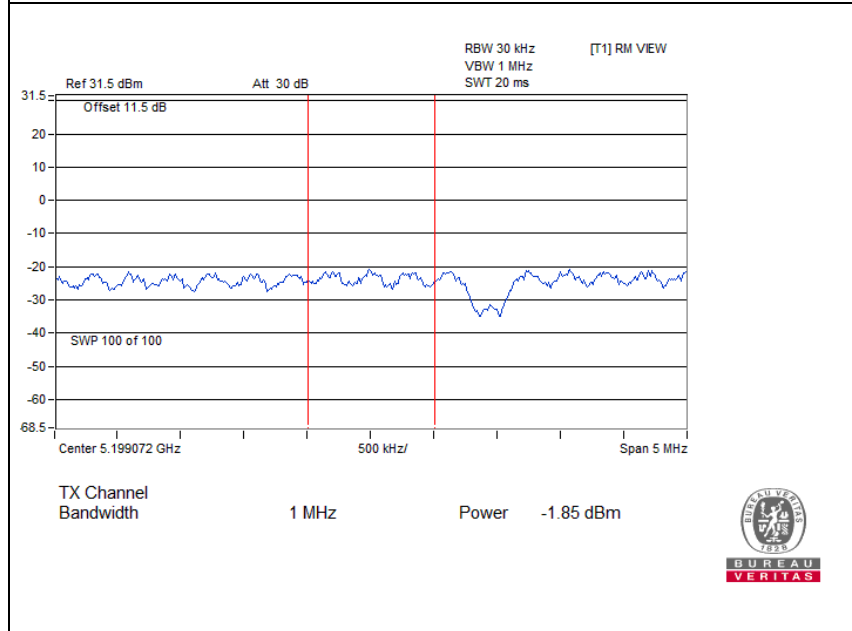
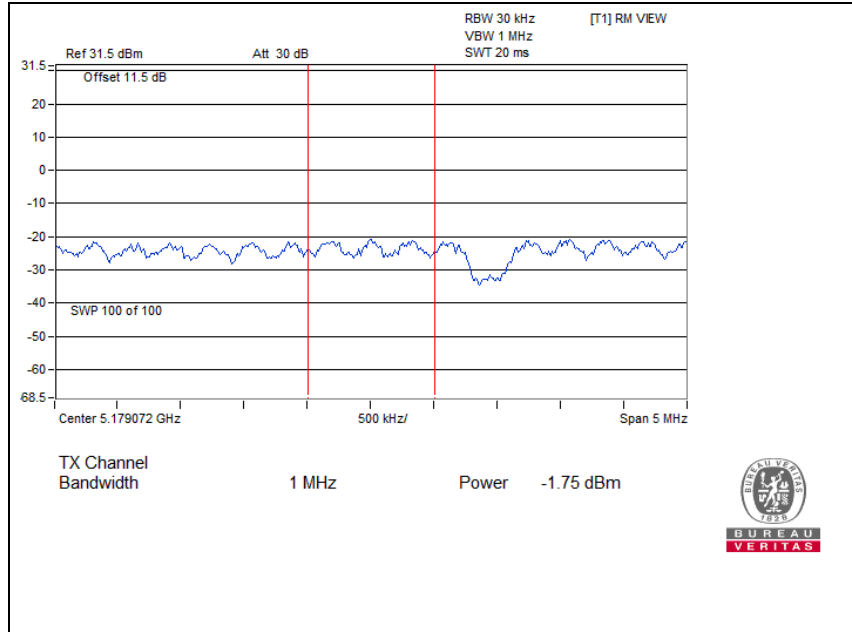




BUREAU VERITAS

Test Report No.: RF150612N055-3

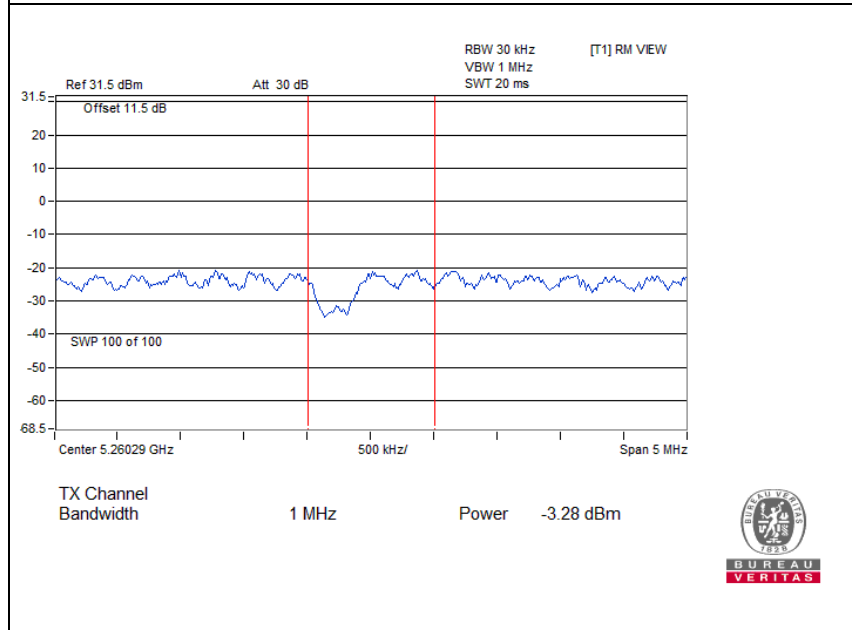
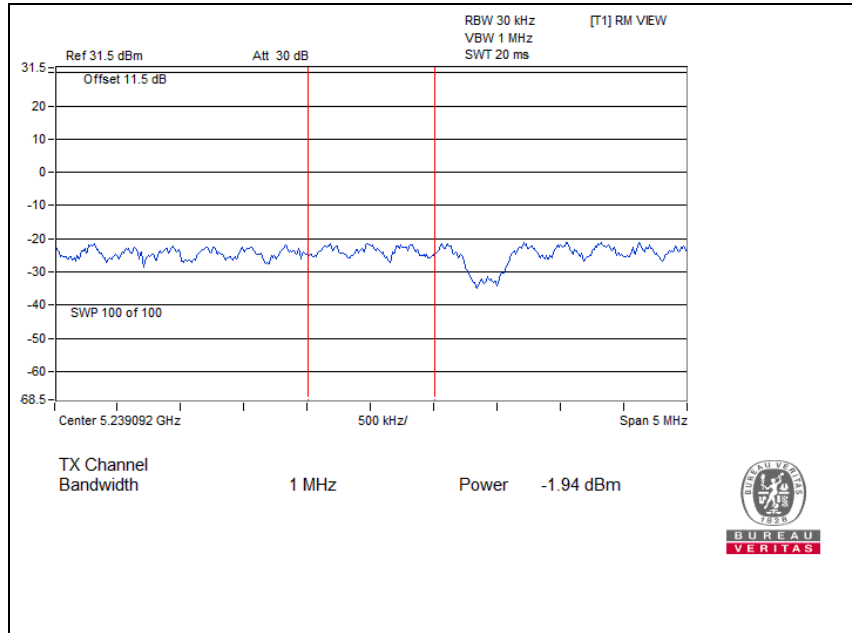
802.11n(20MHz)





**BUREAU
VERITAS**

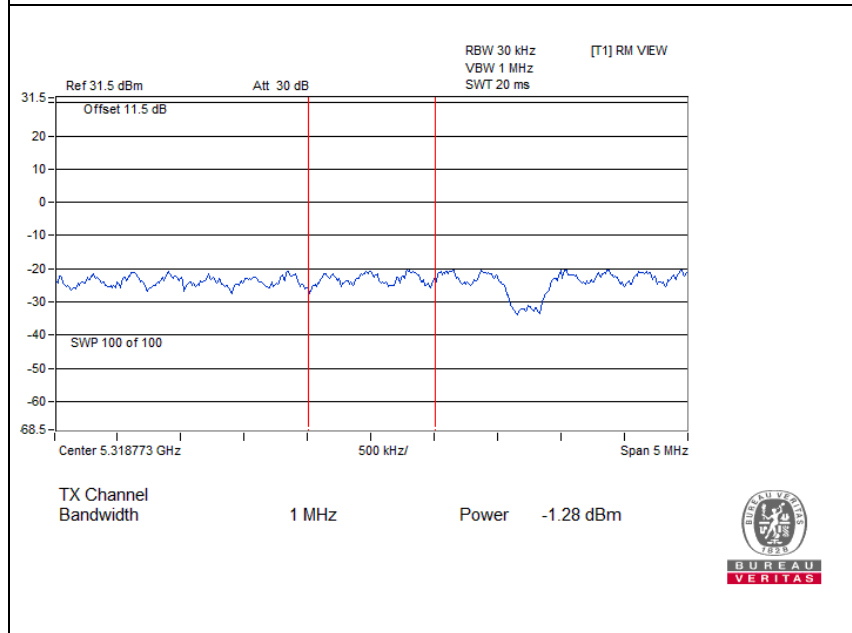
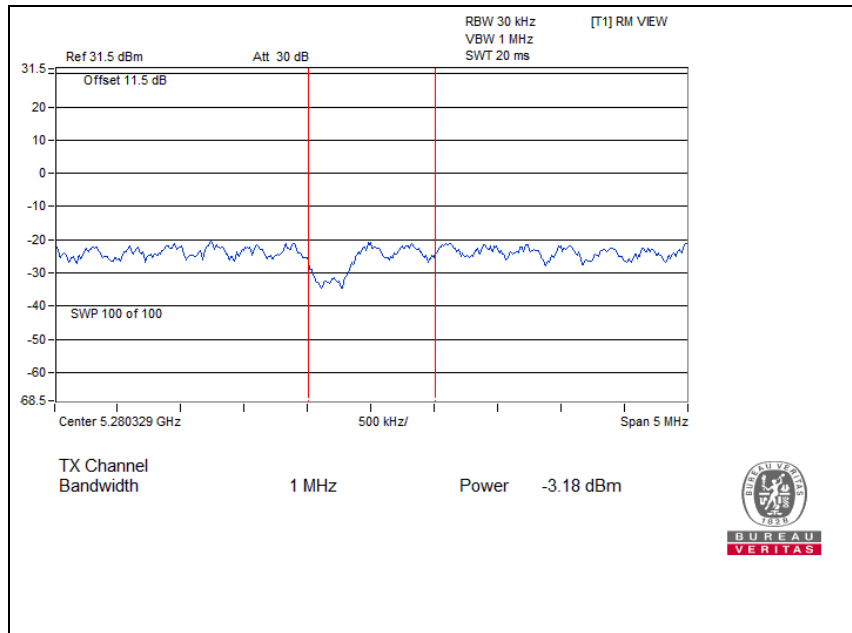
Test Report No.: RF150612N055-3





BUREAU VERITAS

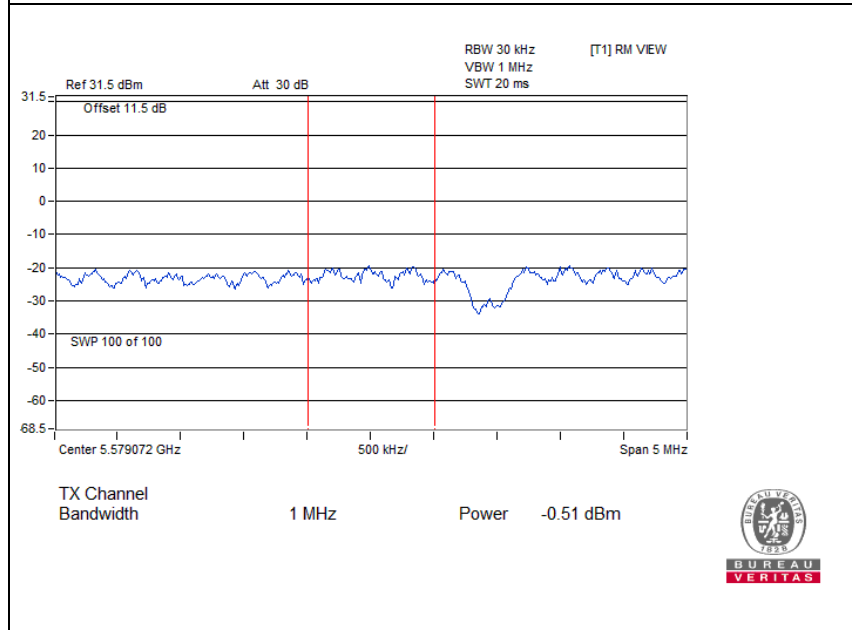
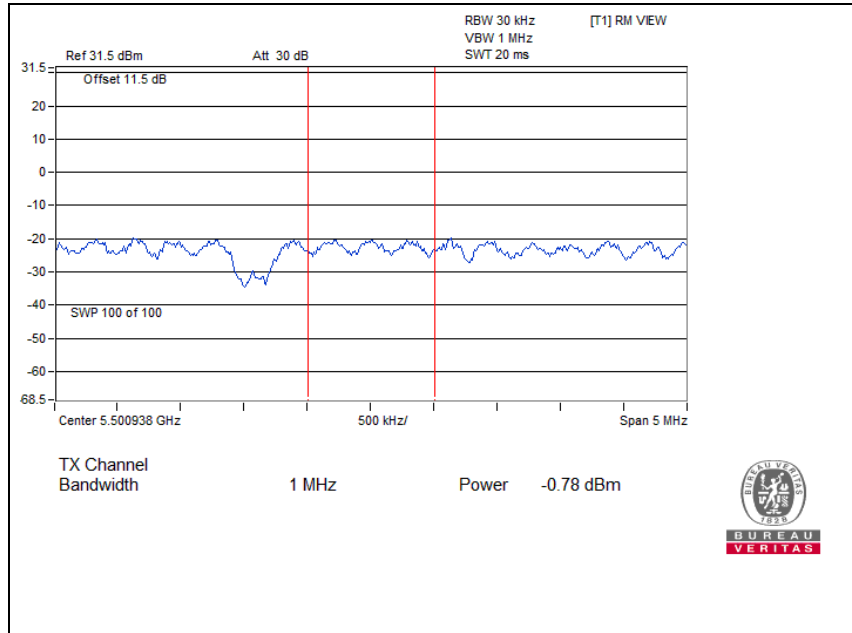
Test Report No.: RF150612N055-3





**BUREAU
VERITAS**

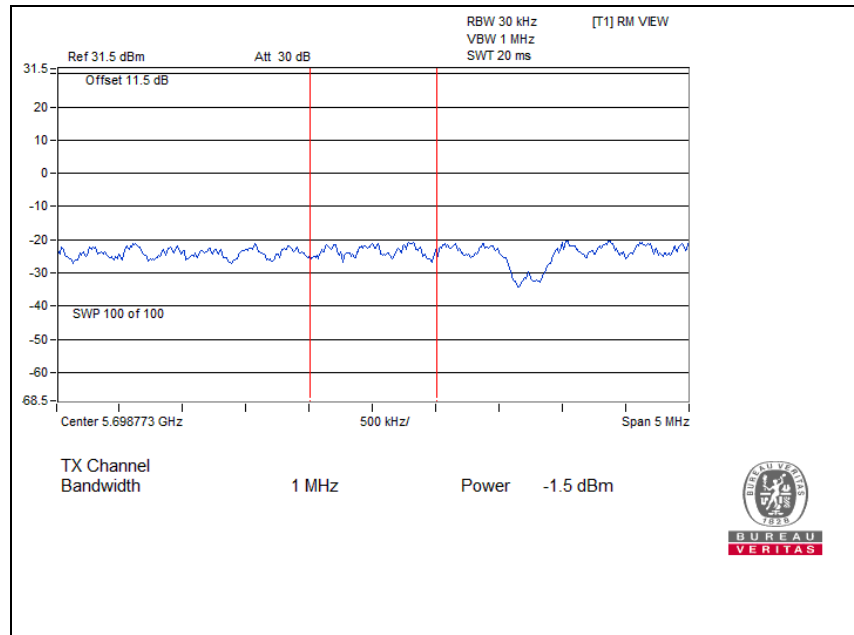
Test Report No.: RF150612N055-3





**BUREAU
VERITAS**

Test Report No.: RF150612N055-3

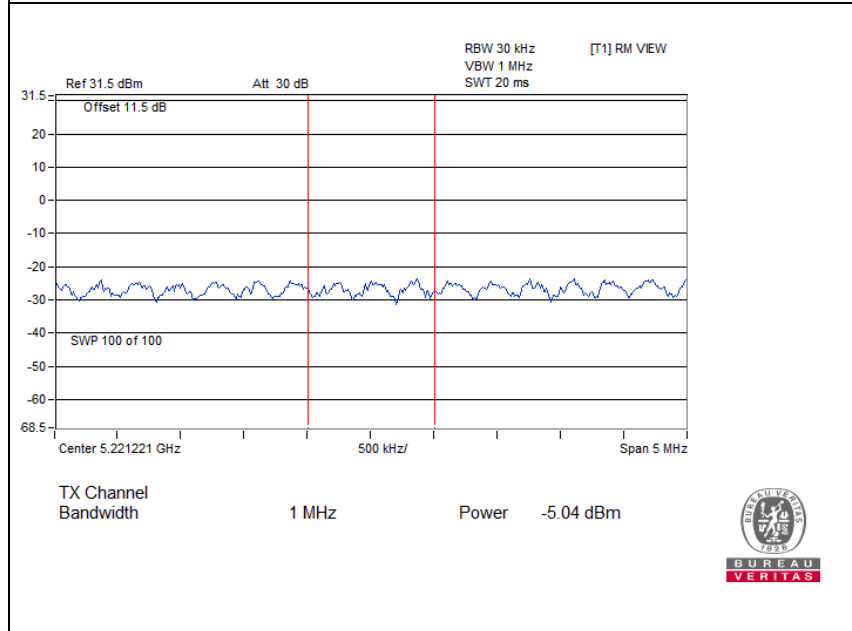
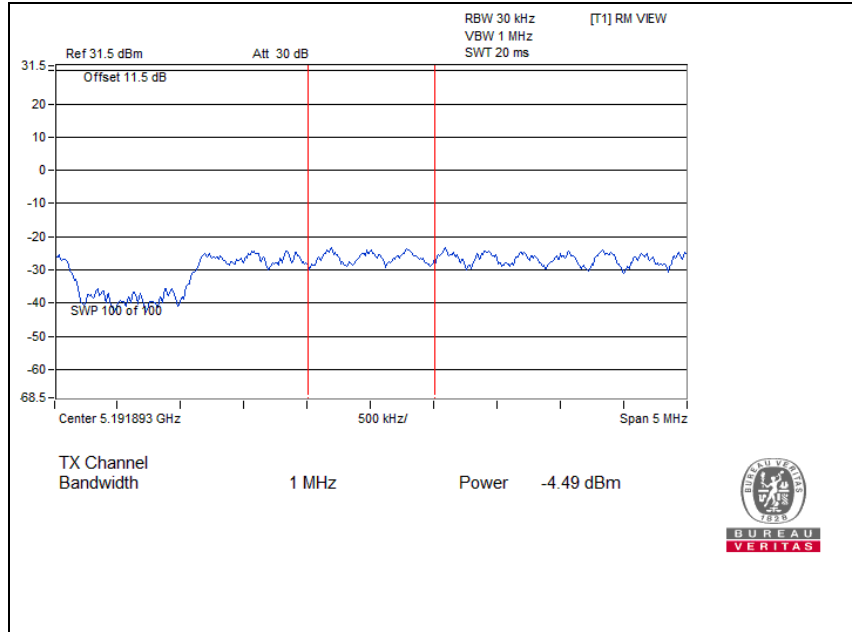




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VERITAS**

Test Report No.: RF150612N055-3

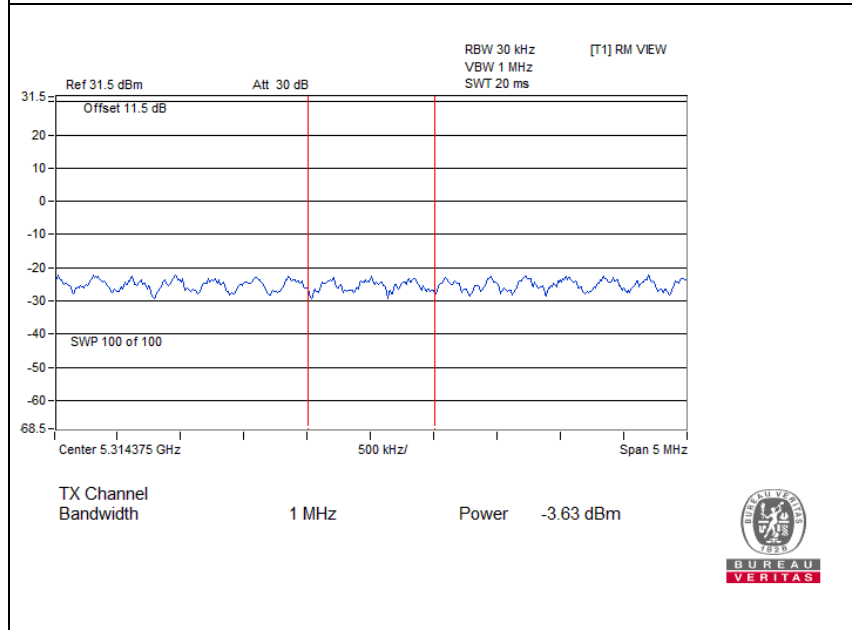
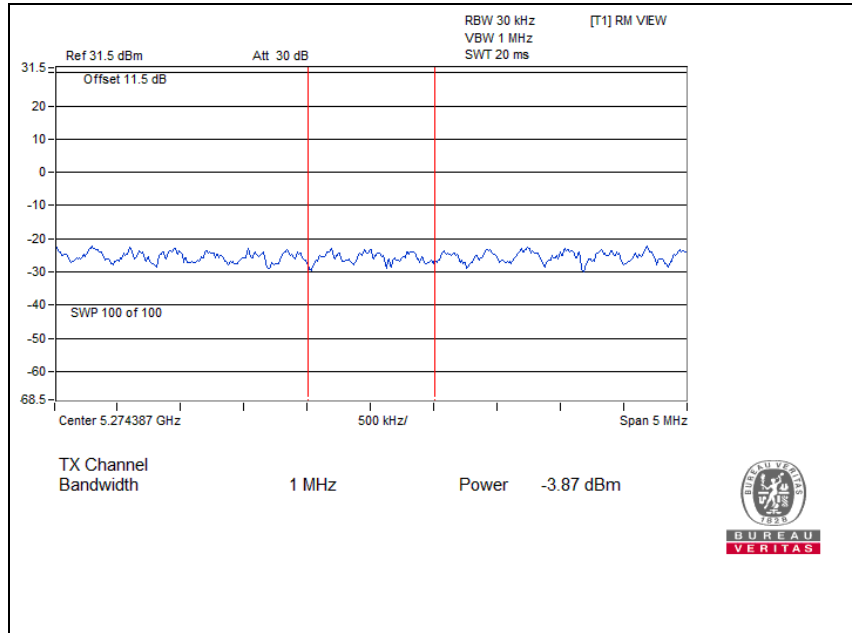
802.11n(40MHz)





**BUREAU
VERITAS**

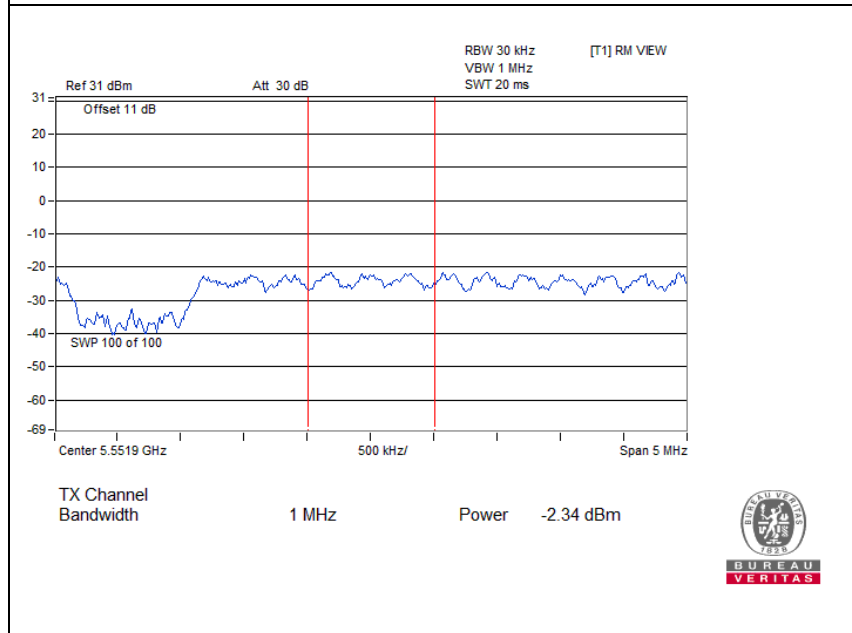
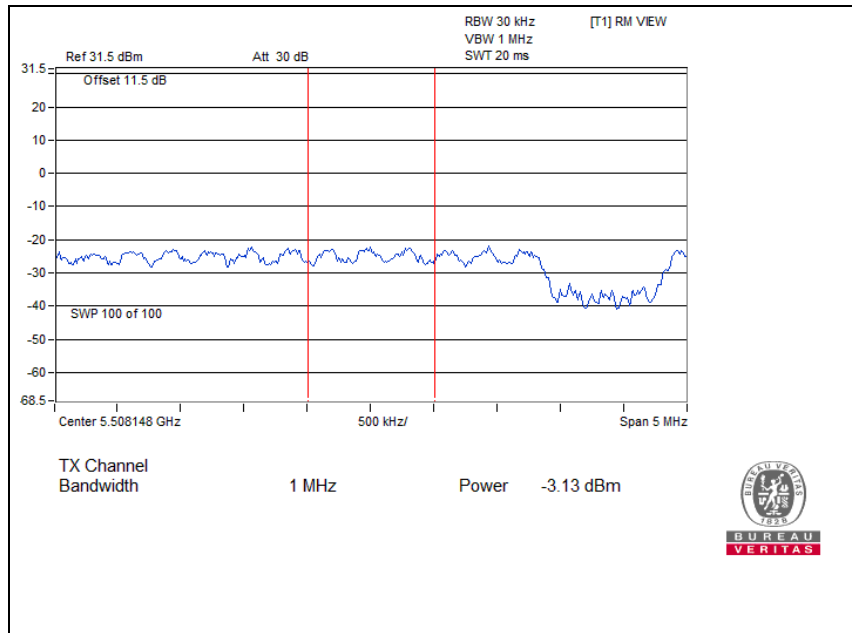
Test Report No.: RF150612N055-3





BUREAU VERITAS

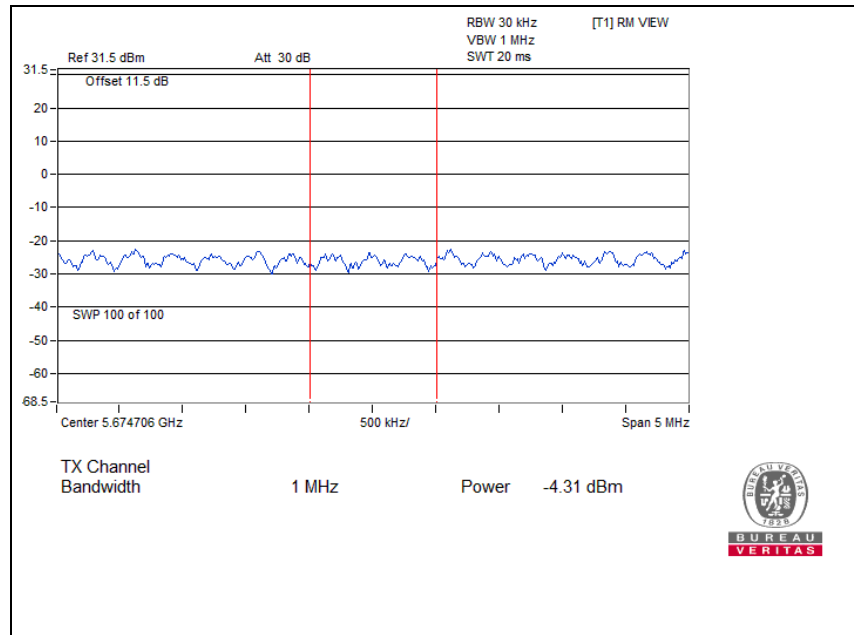
Test Report No.: RF150612N055-3





**BUREAU
VERITAS**

Test Report No.: RF150612N055-3

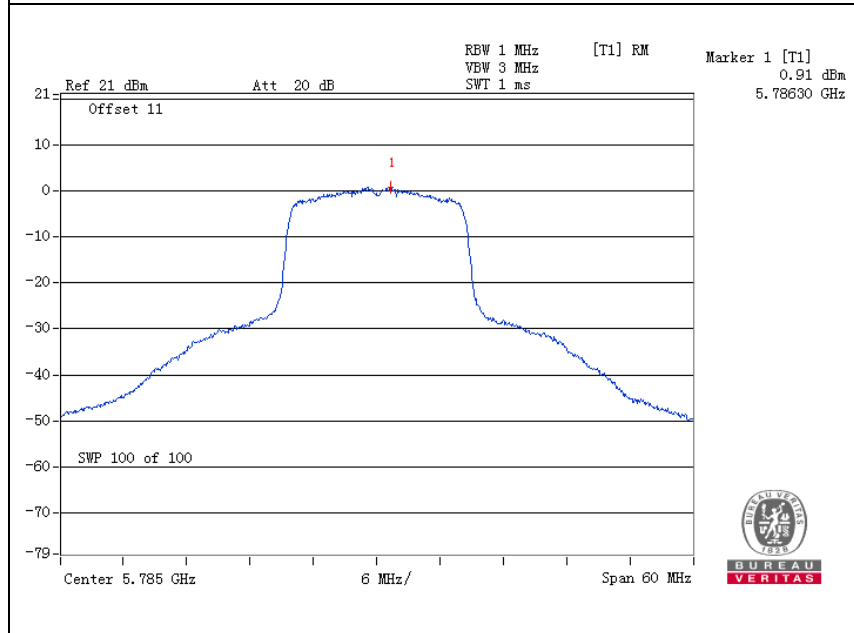
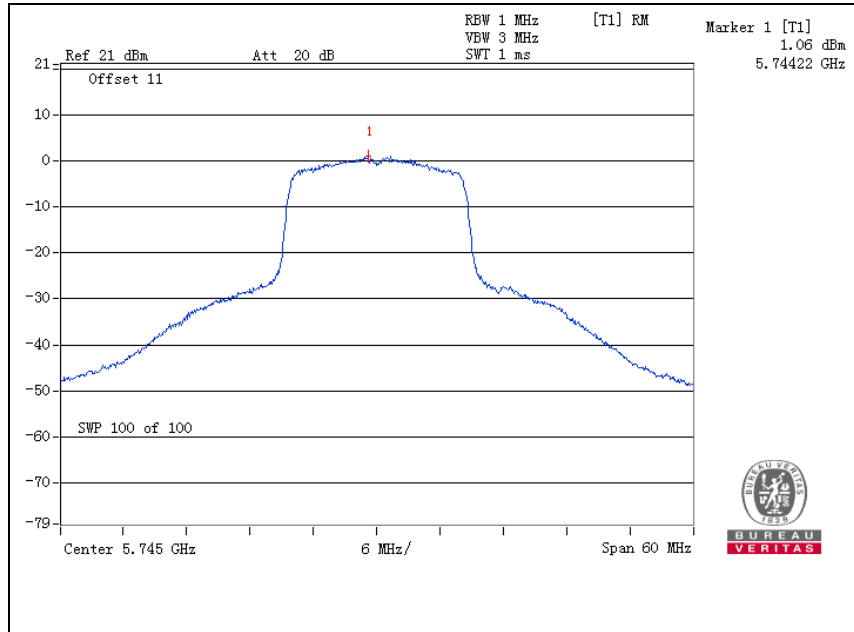




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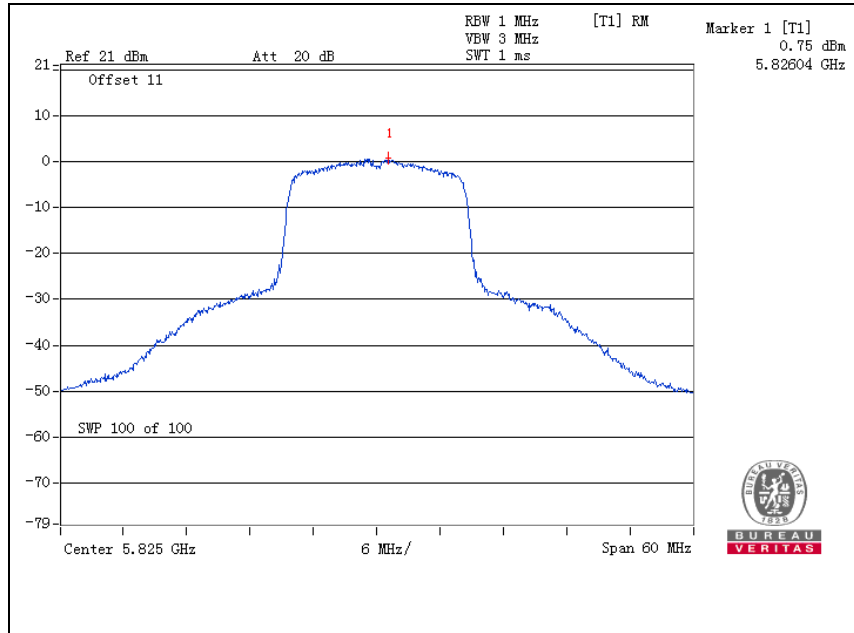
For U-NII-3:
802.11a



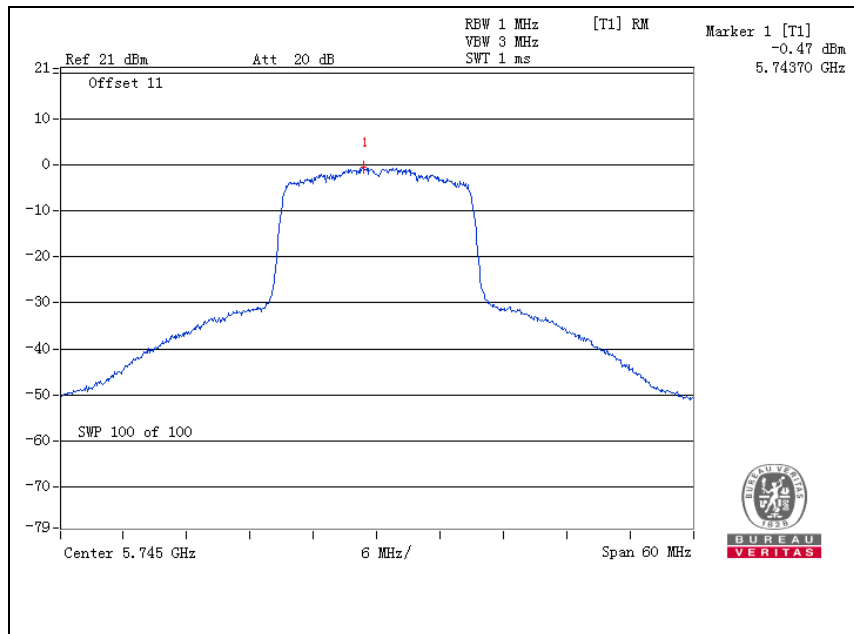


BUREAU VERITAS

Test Report No.: RF150612N055-3



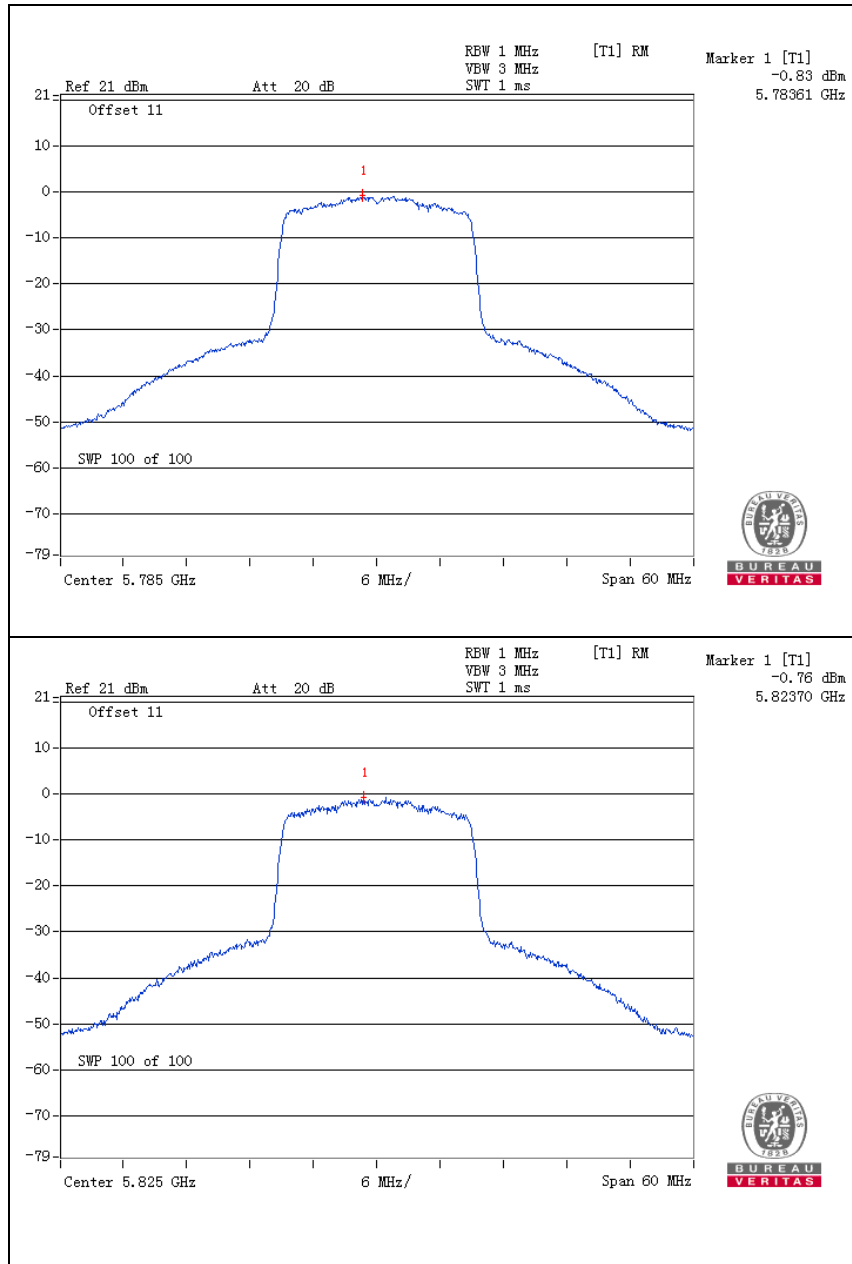
802.11n(20MHz)





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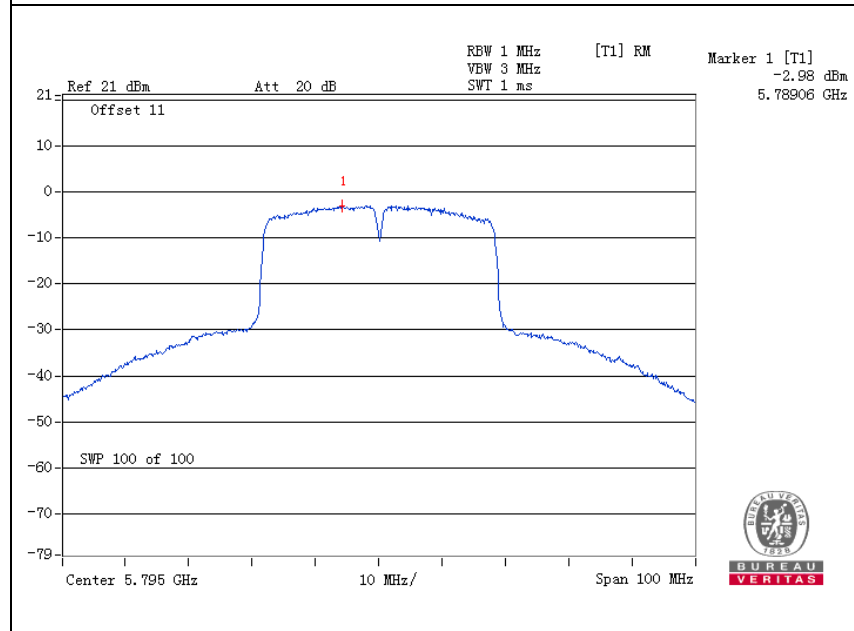
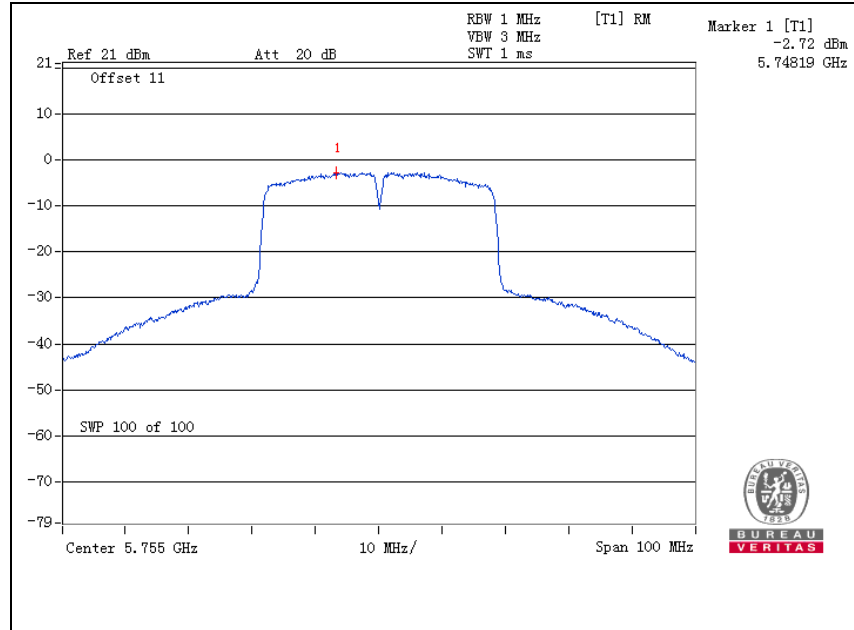




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802.11n(40MHz)



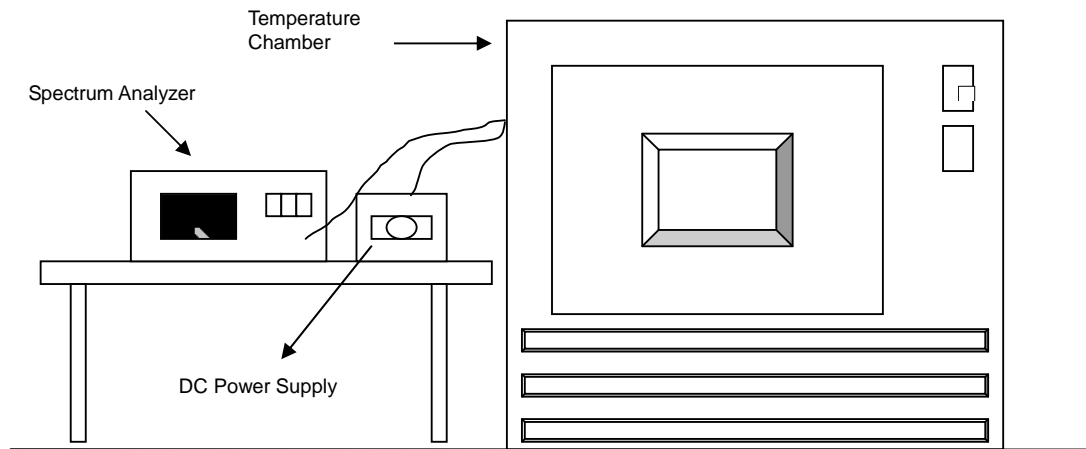


4.5 FREQUENCY STABILITY

4.5.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

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

4.5.2 TEST SETUP



4.5.3 TEST INSTRUMENTS

Refer to section 4.1.3 to get information of above instrument.



4.5.4 TEST PROCEDURE

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

4.5.5 DEVIATION FROM TEST STANDARD

No deviation.

4.5.6 EUT OPERATING CONDITION

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



4.5.7 TEST RESULTS

FREQUENCY STABILITY VERSUS TEMP.									
OPERATING FREQUENCY: 5320MHz									
TEMP. (°C)	POWER SUPPLY (Vdc)	0 MINUTE		2 MINUTE		5 MINUTE		10 MINUTE	
		Measured Frequency (MHz)	Frequency Drift	Measured Frequency (MHz)	Frequency Drift	Measured Frequency (MHz)	Frequency Drift	Measured Frequency (MHz)	Frequency Drift
50	3.8	5319.9768	-4.3609	5319.9752	-4.6617	5319.975	-4.6992	5319.9716	-5.3383
40	3.8	5319.9984	-0.3008	5319.9883	-2.1992	5319.9923	-1.4474	5319.9954	-0.8647
30	3.8	5319.983	-3.1955	5319.9844	-2.9323	5319.9842	-2.9699	5319.987	-2.4436
20	3.8	5320.0207	3.8910	5320.0226	4.2481	5320.0244	4.5865	5320.0233	4.3797
10	3.8	5319.9849	-2.8383	5319.9917	-1.5602	5319.9881	-2.2368	5319.9853	-2.7632
0	3.8	5320.011	2.0677	5320.0106	1.9925	5320.0033	0.6203	5320.0123	2.3120
-10	3.8	5320.0081	1.5226	5320.0127	2.3872	5320.0129	2.4248	5320.0142	2.6692
-20	3.8	5320.0256	4.8120	5320.0266	5.0000	5320.0212	3.9850	5320.0201	3.7782
-30	3.8	5319.9975	-0.4699	5319.9983	-0.3195	5320.0006	0.1128	5319.9937	-1.1842

FREQUENCY STABILITY VERSUS VOLTAGE									
OPERATING FREQUENCY: 5320MHz									
TEMP. (°C)	POWER SUPPLY (Vdc)	0 MINUTE		2 MINUTE		5 MINUTE		10 MINUTE	
		Measured Frequency (MHz)	Frequency Drift	Measured Frequency (MHz)	Frequency Drift	Measured Frequency (MHz)	Frequency Drift	Measured Frequency (MHz)	Frequency Drift
20	4.35	5320.0198	3.7218	5320.0216	4.0602	5320.0244	4.5865	5320.0236	4.4361
	3.8	5320.0207	3.8910	5320.0226	4.2481	5320.0244	4.5865	5320.0233	4.3797
	3.5	5320.0195	3.6654	5320.0232	4.3609	5320.0238	4.4737	5320.0232	4.3609



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5. PHOTOGRAPHS OF THE TEST CONFIGURATION

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



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6. APPENDIX A – 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---