



CFR 47 FCC PART 15 SUBPART C

TEST REPORT

For

VA-1000 HD Streaming Drone

MODEL NUMBER: VL-6267R

REPORT NUMBER: 4791644171-2-RF-1

ISSUE DATE: March 06, 2025

FCC ID: 2ASK3VL-6267TW

Prepared for

AMAX INDUSTRIAL GROUP CHINA CO.,LTD OFFICE NO.3 10/F WITTY COMMERCIAL BUILDING 1A-1L TUNG CHOI STREET MONGKOK KOWLOON HONG KONG

Prepared by

UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch

Building 10, Innovation Technology Park, No. 1, Li Bin Road, Song Shan Lake Hi-Tech Development Zone Dongguan, 523808, People's Republic of China

> Tel: +86 769 22038881 Fax: +86 769 33244054 Website: www.ul.com

The results reported herein have been performed in accordance with the laboratory's terms of accreditation. This report shall not be reproduced except in full without the written approval of the Laboratory. The results in this report apply to the test sample(s) mentioned above at the time of the testing period only and are not to be used to indicate applicability to other similar products.



Page 2 of 54

Revision History

Rev.	Issue Date	Revisions	Revised By
V0	March 06, 2025	Initial Issue	



REPORT NO.: 4791657261-1-RF-1 Page 3 of 54

Summary of Test Results Clause Test Items FCC/ISED Rules **Test Results** 20dB Bandwidth and 99% 1 CFR 47 FCC §15.215 (c) **Pass** Occupied Bandwidth CFR 47 FCC §15.249 (a)(d)(e) 2 Radiated Emission **Pass** CFR 47 FCC §15.205 and §15.209 Conducted Emission Test 3 CFR 47 FCC §15.207 N/A for AC Power Port 4 CFR 47 FCC §15.203 Antenna Requirement **Pass**

Note 1: This test report is only published to and used by the applicant, and it is not for evidence purpose in China.

Note 2: The measurement result for the sample received is <Pass> according to < CFR 47 FCC PART 15 SUBPART C > when <Accuracy Method> decision rule is applied.

Note 3: The EUT is powered by battery. It is not applicable for Conducted Emission Test for AC Power Port.



CONTENTS

1. ATT	ESTATION OF TEST RESULTS	5
2. TES	T METHODOLOGY	6
3. FAC	ILITIES AND ACCREDITATION	6
4. CAL	IBRATION AND UNCERTAINTY	7
4.1.	MEASURING INSTRUMENT CALIBRATION	7
4.2.	MEASUREMENT UNCERTAINTY	7
5. EQU	JIPMENT UNDER TEST	8
5.1.	DESCRIPTION OF EUT	8
5.2.	CHANNEL LIST	8
5.3.	MAXIMUM FIELD STRENGTH	8
5.4.	TEST CHANNEL CONFIGURATION	8
5.5.	THE WORSE CASE POWER SETTING PARAMETER	9
5.6.	DESCRIPTION OF AVAILABLE ANTENNAS	10
5.7.	DESCRIPTION OF TEST SETUP	11
6. ME <i>A</i>	ASURING EQUIPMENT AND SOFTWARE USED	12
7. ANT	ENNA PORT TEST RESULTS	13
7.1.	20DB BANDWIDTH AND 99% OCCUPIED BANDWIDTH	13
7.2.	DUTY CYCLE	17
8. RAD	DIATED TEST RESULTS	20
8.1.	FUNDAMENTAL EMISSION	29
8.2.	RESTRICTED BANDEDGE	32
8.3.	SPURIOUS EMISSIONS (1 GHZ ~ 3 GHZ)	35
<i>8.4.</i>	SPURIOUS EMISSIONS (3 GHZ ~ 18 GHZ)	41
8.5.	SPURIOUS EMISSIONS (9 KHZ ~ 30 MHZ)	47
8.6.	SPURIOUS EMISSIONS (18 GHZ ~ 26 GHZ)	50
8.7.	SPURIOUS EMISSIONS (30 MHZ ~ 1 GHZ)	52
9. ANT	ENNA REQUIREMENT	54



Page 5 of 54

1. ATTESTATION OF TEST RESULTS

Applicant Information for

Company Name: AMAX INDUSTRIAL GROUP CHINA CO.,LTD

Address: OFFICE NO.3 10/F WITTY COMMERCIAL BUILDING 1A-1L

TUNG CHOI STREET MONGKOK KOWLOON HONG KONG

Manufacturer Information

Company Name: AMAX INDUSTRIAL GROUP CHINA CO.,LTD

Address: OFFICE NO.3 10/F WITTY COMMERCIAL BUILDING 1A-1L

TUNG CHOI STREET MONGKOK KOWLOON HONG KONG

EUT Information

EUT Name: VA-1000 HD Streaming Drone

Model: VL-6267R Brand name: AMAX

Sample Received Date: January 21, 2025

Sample Status: Normal Sample ID: 8207619

Date of Tested: January 22, 2025 to February 28, 2025

APPLICABLE STANDARDS		
STANDARD TEST RESULTS		
CFR 47 FCC PART 15 SUBPART C	Pass	

Prepared By:

Daniel Zhang

Daniel Zhang

Project Engineer

Approved By:

Hephenomo

Stephen Guo

Checked By:

Kebo Zhang

Senior Project Engineer

Operations Manager



REPORT NO.: 4791657261-1-RF-1 Page 6 of 54

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with KDB 414788 D01 Radiated Test Site v01r01, FCC CFR 47 Part 2, FCC CFR 47 Part 15, ANSI C63.10-2013

3. FACILITIES AND ACCREDITATION

Accreditation Certificate	A2LA (Certificate No.: 4102.01) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with A2LA. FCC (FCC Designation No.: CN1187) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. Has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules ISED (Company No.: 21320) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been registered and fully described in a report filed with ISED. The Company Number is 21320 and the test lab Conformity Assessment
	Body Identifier (CABID) is CN0046.

Note 1:

All tests measurement facilities use to collect the measurement data are located at Building 10, Innovation Technology Park, No. 1, Li Bin Road, Song Shan Lake Hi-Tech Development Zone Dongguan, 523808, People's Republic of China.

Note 2:

The test anechoic chamber in UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch had been calibrated and compared to the open field sites and the test anechoic chamber is shown to be equivalent to or worst case from the open field site.

Note 3:

For below 30 MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. And these measurements below 30 MHz had been correlated to measurements performed on an OFS.



Page 7 of 54

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations and is traceable to recognized national standards.

4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Test Item	Uncertainty
Radiated Emission (Included Fundamental Emission) (9 kHz ~ 30 MHz)	2.2 dB
Radiated Emission (Included Fundamental Emission) (30 MHz ~ 1 GHz)	4.00 dB
Radiated Emission	5.78 dB (1 GHz ~ 18 GHz)
(Included Fundamental Emission) (1 GHz to 26 GHz)	5.23 dB (18 GHz ~ 26 GHz)
Duty Cycle	±0.028%
DTS and 99% Occupied Bandwidth	±0.0196%

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



Page 8 of 54

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

EUT Name:	VA-1000 HD Streaming Drone		
Model:	VL-6267R		

Frequency Range:	2440 MHz to 2480 MHz	
Type of Modulation:	GFSK	
Normal Test Voltage:	Battery 4.5V	

5.2. CHANNEL LIST

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2440	2	2460	3	2480	/	/

5.3. MAXIMUM FIELD STRENGTH

Test Mode	Frequency	Channel	Maximum Peak field	Maximum Average field
rest ivioue	(MHz)	Number	strength (dBµV/m)	strength (dBµV/m)
GFSK	2440 ~ 2480	1-3[3]	79.42	53.01

5.4. TEST CHANNEL CONFIGURATION

Test Mode	Test Channel	Frequency	
GFSK	CH 1(Low Channel), CH 2(MID Channel), CH 3(High Channel)	2440 MHz, 2460 MHz, 2480 MHz	



Page 9 of 54

5.5. THE WORSE CASE POWER SETTING PARAMETER

The Worse Case Power Setting Parameter under 2440 MHz ~ 2480 MHz Band					
Test Soft	ware Version	/			
Modulation Type	Transmit Antenna Number	Test Channel			
Woddiation Type		CH 1	CH 2	CH 3	
GFSK	1	Default	Default	Default	



REPORT NO.: 4791657261-1-RF-1 Page 10 of 54

5.6. DESCRIPTION OF AVAILABLE ANTENNAS

Frequency (MHz) Antenna Type Maximum Antenna Gain (dBi) Antenna 2440-2480 Line Antenna 8.0

Test Mode	Transmit and Receive Mode	Description			
GFSK	⊠1TX, 1RX	Antenna 1 can be used as transmitting/receiving antenna.			
Note: The value of the antenna gain was declared by customer					



Page 11 of 54

5.7. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Item	Equipment	Brand Name	Model Name	Specification
1	/	/	/	/

I/O CABLES

Cable No	Port	Connector Type	Cable Type	Cable Length(m)	Remarks
/	/	/	/	/	/

ACCESSORY

Item	Equipment	Mfr/Brand	Model/Type No.	Specification	Series No.
/	/	/	/	/	/

TEST SETUP

The EUT have the engineer mode inside.

SETUP DIAGRAM FOR TEST

EUT



REPORT NO.: 4791657261-1-RF-1 Page 12 of 54

6. MEASURING EQUIPMENT AND SOFTWARE USED

		Radiated	d Emissions		
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
MXE EMI Receiver	KESIGHT	N9038A	MY56400036	Sep.28, 2024	Sep.27, 2025
Hybrid Log Periodic Antenna	TDK	HLP-3003C	130959	May.08, 2023	May.07, 2026
Preamplifier	HP	8447D	2944A09099	Sep.28, 2024	Sep.27, 2025
EMI Measurement Receiver	R&S	ESR26	101377	Sep.28, 2024	Sep.27, 2025
Horn Antenna	TDK	HRN-0118	130939	April 29, 2022	April 28, 2025
Preamplifier	TDK	PA-02-0118	TRS-305- 00067	Sep.28, 2024	Sep.27, 2025
Horn Antenna	Schwarzbeck	BBHA9170	697	June 30, 2024	June 29, 2027
Preamplifier	TDK	PA-02-2	TRS-307- 00003	Sep.28, 2024	Sep.27, 2025
Preamplifier	TDK	PA-02-3	TRS-308- 00002	Sep.28, 2024	Sep.27, 2025
Loop antenna	Schwarzbeck	1519B	80000	April 29, 2022	April 28, 2025
Preamplifier	TDK	PA-02-001- 3000	TRS-302- 00050	Sep.28, 2024	Sep.27, 2025
High Pass Filter	Wi	WHKX10- 2700-3000- 18000-40SS	23	Sep.28, 2024	Sep.27, 2025
Band Reject Filter	Wainwright	WRCJV8- 2350-2400- 2483.5- 2533.5-40SS	4	Sep.28, 2024	Sep.27, 2025
Software					
	Description		Manufacturer	Name	Version
Test Software for Radiated Emissions			Farad	EZ-EMC	Ver. UL-3A1



REPORT NO.: 4791657261-1-RF-1 Page 13 of 54

7. ANTENNA PORT TEST RESULTS

7.1. 20DB BANDWIDTH AND 99% OCCUPIED BANDWIDTH

LIMITS

CFR 47 FCC Part15 (15.249) Subpart C RSS-Gen Issue 5					
Section Test Item Limit Frequency Range (MHz)					
CFR 47 FCC §15.215 (c)	20dB Bandwidth	for reporting purposes only	2400-2483.5		
ISED RSS-Gen Clause 6.7 Issue 5	99% Occupied Bandwidth	For reporting purposes only.	2400-2483.5		

TEST PROCEDURE

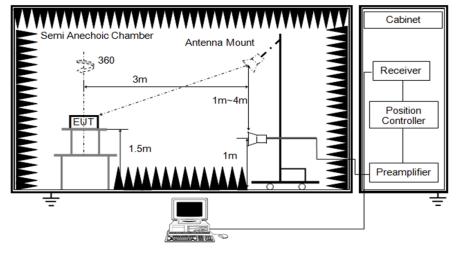
Connect the UUT to the spectrum analyzer and use the following settings:

Center Frequency	The center frequency of the channel under test
Detector Peak	
RBW	1% to 5% of the occupied bandwidth
VBW	approximately 3xRBW
Trace	Max hold
Sweep	Auto couple

Allow the trace to stabilize and 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 20 dB/99% relative to the maximum level measured in the fundamental emission.

TEST SETUP

Above 1 GHz





REPORT NO.: 4791657261-1-RF-1 Page 14 of 54

TEST ENVIRONMENT

Temperature	21.3 ℃	Relative Humidity	60.2%
Atmosphere Pressure	101 kPa	Test Voltage	DC 4.5 V

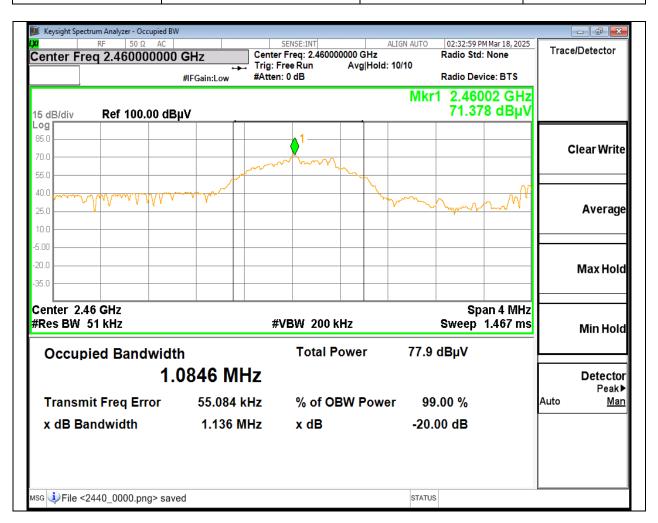
TEST RESULTS

Frequency	99% Bandwidth	20dB Bandwidth	Result
(MHz)	(MHz)	(MHz)	
2440	1.20	1.06	PASS



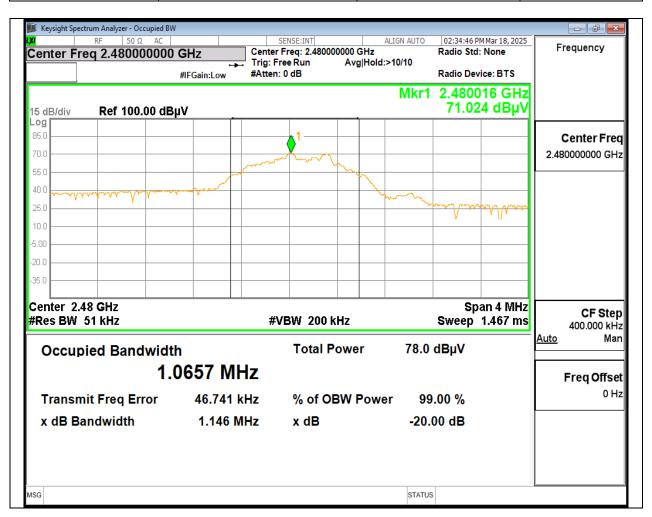


Frequency (MHz)	99% Bandwidth (MHz)	20dB Bandwidth (MHz)	Result
2460	1.08	1.14	PASS





Frequency	99% Bandwidth	20dB Bandwidth	Result
(MHz)	(MHz)	(MHz)	
2480	1.07	1.15	PASS





Page 17 of 54

7.2. DUTY CYCLE

LIMITS

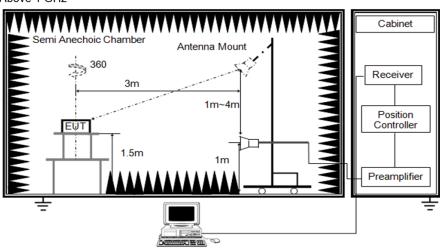
None; for reporting purposes only.

TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 11.6 Zero – Span Spectrum Analyzer method.

TEST SETUP

Above 1 GHz



TEST ENVIRONMENT

Temperature	21.3 ℃	Relative Humidity	60.2%
Atmosphere Pressure	101kPa	Test Voltage	DC 4.5 V

TEST RESULTS

Mode	On Time (msec)	Period (msec)	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (db)
GFSK	4.78	100	0.0478	4.78	-26.41

Note: Duty Cycle Correction Factor=20log(x).

Where: x is Duty Cycle

Note: All modes and buttons had been tested, but only the worst data was recorded in the report.

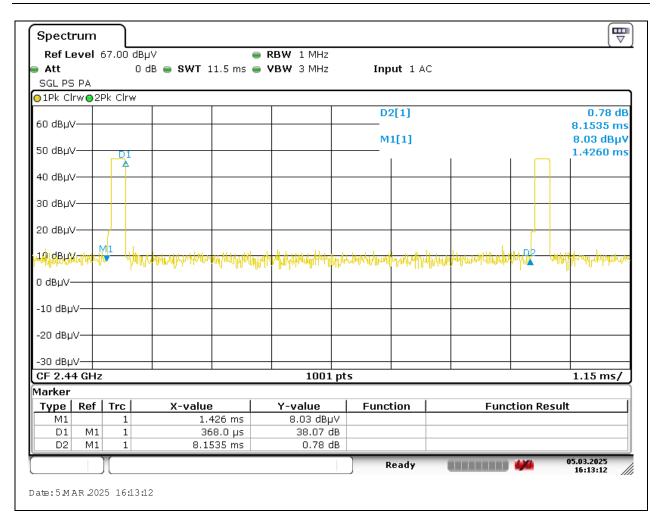
Note: On Time=Pulse width × Pulses per Period

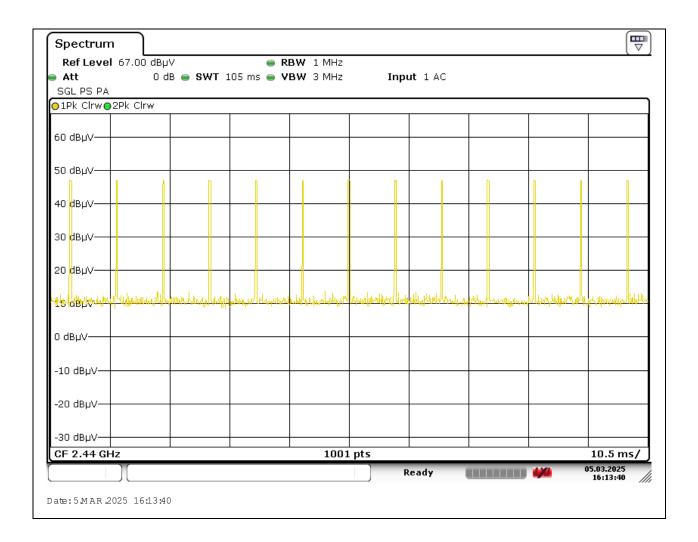
Pulse is the single transmitting time between M1 and D1 showed in the first graph below.

Pulses per Period is showed in the second graph below.

As a result, On Time=0.368ms×13=4.78ms







Page 20 of 54

8. RADIATED TEST RESULTS

LIMITS

Please refer to CFR 47 FCC §15.205, §15.209 and §15.249 (a).

Radiation Disturbance Test Limit for FCC

Emissions radiated outside of the specified frequency bands above 30 MHz					
Frequency Range					
(MHz)	(uV/m) at 3 m	Quasi-Peak			
30 - 88	100	40			
88 - 216	150	43.5			
216 - 960	200	46			
Above 960	500	54			
Above 1000	500	Peak	Average		
Above 1000	500	74	54		

FCC field strength of emissions from intentional radiators operated within these frequency bands						
Frequency (MHz)	Field strength of Fundamental	Field strength of Harmonics	Distance (m)			
902 - 928	50 mV/m (94 dBuV/m)	500 uV/m (54 dBuV/m)	3			
2400 – 2483.5	50 mV/m (94 dBuV/m)	500 uV/m (54 dBuV/m)	3			
5725 – 5875	50 mV/m (94 dBuV/m)	500 uV/m (54 dBuV/m)	3			

Note: The EUT has the same power when push the control direction of different strength.

FCC Emissions radiated outside of the specified frequency bands below 30 MHz						
Frequency (MHz)	cy (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				



REPORT NO.: 4791657261-1-RF-1 Page 21 of 54

FCC Restricted bands of operation refer to FCC §15.205 (a):

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			

Note: 1 Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

²Above 38.6c



Page 22 of 54

TEST PROCEDURE

Below 30 MHz

The setting of the spectrum analyzer

RBW	200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz)
VBW	200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz)
Sweep	Auto

- 1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.4.
- 2. The EUT was arranged to its worst case and then turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both Horizontal, Face-on and Face-off polarizations of the antenna are set to make the measurement.
- 3. The EUT was placed on a turntable with 80 cm above ground.
- 4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a 1 m height antenna tower.
- 5. The radiated emission limits are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz Radiated emission limits in these three bands are based on measurements employing an average detector.
- 6. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak and average detector mode remeasured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the guasi-peak and average detector and reported.
- 7. Although these tests were performed other than open field site, adequate comparison measurements were confirmed against 30m open field site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field site based on KDB 414788.
- 8. The limits in CFR 47, Part 15, Subpart C, paragraph 15.209 (a), are identical to those in RSS-GEN Section 8.9, Table 6, since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as reported in the table) using the free space impedance of 377Ω . For example, the measurement frequency X kHz resulted in a level of Y dBuV/m, which is equivalent to Y-51.5 = Z dBuA/m, which has the same margin, W dB, to the corresponding RSS-GEN Table 6 limit as it has to be 15.209(a) limit.



REPORT NO.: 4791657261-1-RF-1 Page 23 of 54

Below 1 GHz and above 30 MHz

The setting of the spectrum analyzer

RBW	120 kHz
VBW	300 kHz
Sweep	Auto
Detector	Peak/QP
Trace	Max hold

- 1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.5.
- 2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 3. The EUT was placed on a turntable with 80 cm above ground.
- 4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 5. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.



Above 1 GHz

The setting of the spectrum analyzer

For Restricted Bandedge and Spurious Emissions

RBW	1 MHz
VBW	3 MHz
Sweep	Auto
Detector	Peak
Trace	Max hold

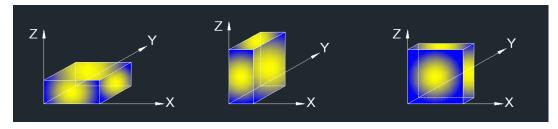
For field strength of fundamental emission

RBW	≥ 20dB Bandwidth or 99% Occupied Bandwidth, which one is greater
VBW	3 imes RBW
Sweep	Auto
Detector	Peak
Trace	Max hold

Note: According to test result of Clause 7.1, RBW is set as 5MHz.

- 1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.6.
- 2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 3. The EUT was placed on a turntable with 1.5 m above ground.
- 4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 5. For measurement above 1 GHz, the emission measurement will be measured by the peak detector. This peak level, once corrected, must comply with the limit specified in Section 15.209.
- 6. For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements. AVG Result=Peak Result + Duty Cycle Correction Factor. For the + Duty Cycle Correction Factor please refer to clause 7.2. ON TIME AND DUTY CYCLE.

X axis, Y axis, Z axis positions:



Note: For all radiated test, EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report.



REPORT NO.: 4791657261-1-RF-1 Page 25 of 54

For Restricted Bandedge and field strength of fundamental emission:

Note:

- 1. Measurement = Reading Level + Correct Factor.
- 2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
- 3. Peak: Peak detector.
- 4. AVG Result=Peak Result + Duty Cycle Correction Factor.
- 5. For the transmitting duration, please refer to clause 7.2.
- 6. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.
- 7. Both horizontal and vertical have been tested, only the worst data was recorded in the report.
- 8. All modes, channels and antennas have been tested, only the worst data was recorded in the report.

For Radiate Spurious emission (9 kHz ~ 30 MHz):

Note:

- 1. Measurement = Reading Level + Correct Factor.
- 2. If the peak values are less than the QP limit, the QP result is deemed to comply with QP limit.
- 3. All 3 polarizations (Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.
- 4. All modes, channels and antennas have been tested, only the worst data was recorded in the report.

For Radiate Spurious Emission (30 MHz ~ 1 GHz):

Note:

- 1. Result Level = Read Level + Correct Factor.
- 2. If the peak values are less than the QP limit, the QP result is deemed to comply with QP limit.
- 3. All modes, channels and antennas have been tested, only the worst data was recorded in the report.



REPORT NO.: 4791657261-1-RF-1 Page 26 of 54

For Radiate Spurious Emission (1 GHz ~ 3 GHz):

- 1. Measurement = Reading Level + Correct Factor.
- 2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
- 3. Peak: Peak detector.
- 4. AVG Result=Peak Result + Duty Cycle Correction Factor.
- 5. For the transmitting duration, please refer to clause 7.2.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
- 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. All modes, channels and antennas have been tested, only the worst data was recorded in the report.

For Radiate Spurious Emission (3 GHz ~ 18 GHz):

Note:

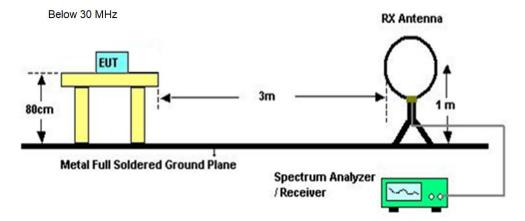
- 1. Peak Result = Reading Level + Correct Factor.
- 2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
- 3. Peak: Peak detector.
- 4. AVG Result=Peak Result + Duty Cycle Correction Factor.
- 5. For the transmitting duration, please refer to clause 7.2.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
- 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. All modes, channels and antennas have been tested, only the worst data was recorded in the report.

For Radiate Spurious emission (18 GHz ~ 26 GHz):

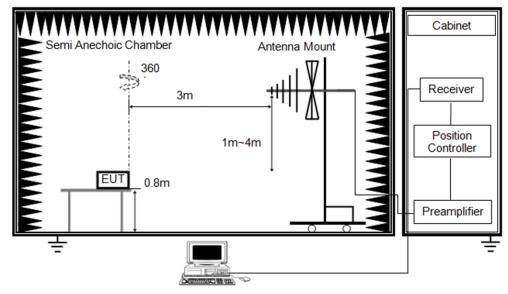
Note:

- 1. Measurement = Reading Level + Correct Factor.
- 2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
- 3. Peak: Peak detector.
- 4. All modes, channels and antennas have been tested, only the worst data was recorded in the report.

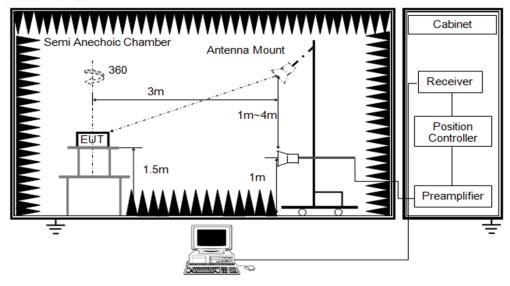
TEST SETUP



Below 1 GHz and above 30 MHz



Above 1 GHz





Page 28 of 54

TEST ENVIRONMENT

Temperature	21.3 ℃	Relative Humidity	60.2%
Atmosphere Pressure	101 kPa	Test Voltage	DC 4.5 V

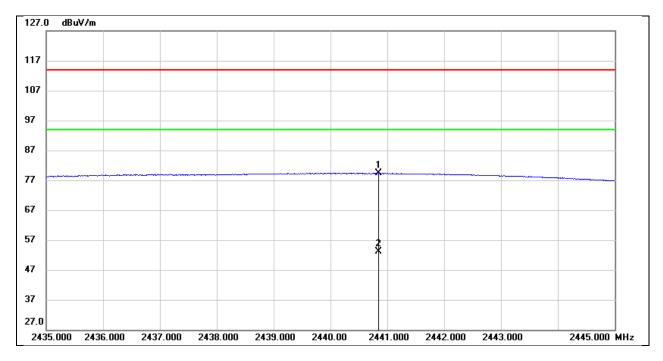
TEST RESULTS



Page 29 of 54

8.1. FUNDAMENTAL EMISSION

Test Mode:	2.4GHz	Frequency(MHz):	2440
Polarity:	Horizontal	Test Voltage:	DC 4.5 V

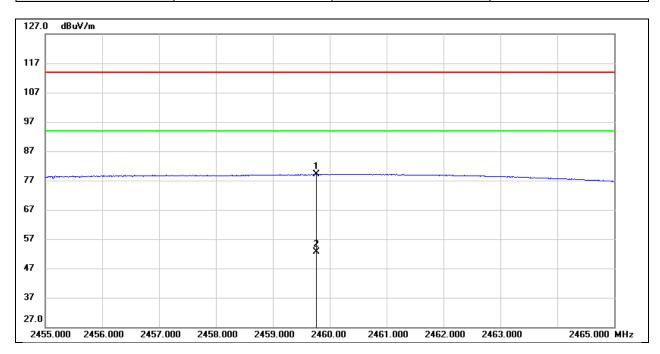


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2440.840	47.54	31.88	79.42	114.00	-34.58	Fundamental
2	2440.840	/	/	53.01	94.00	-40.99	Fulluallielilai



REPORT NO.: 4791657261-1-RF-1 Page 30 of 54

Test Mode:	2.4GHz	Frequency(MHz):	2460
Polarity:	Horizontal	Test Voltage:	DC 4.5 V

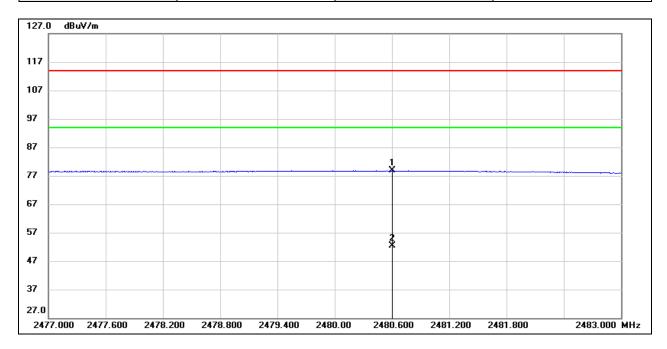


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2459.770	47.23	31.93	79.16	114.00	-34.84	Fundamental
2	2459.770	/	/	52.75	94.00	-41.25	runuamentai



REPORT NO.: 4791657261-1-RF-1 Page 31 of 54

Test Mode:	2.4GHz	Frequency(MHz):	2480
Polarity:	Horizontal	Test Voltage:	DC 4.5 V

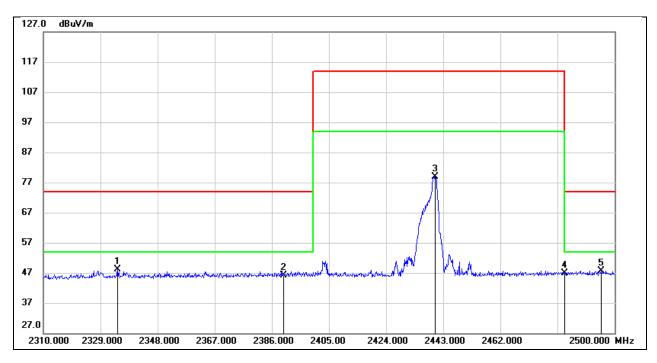


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2480.600	46.88	31.99	78.87	114.00	-35.13	Fundamental
2	2480.600	/	/	52.46	94.00	-41.54	Fundamental



8.2. RESTRICTED BANDEDGE

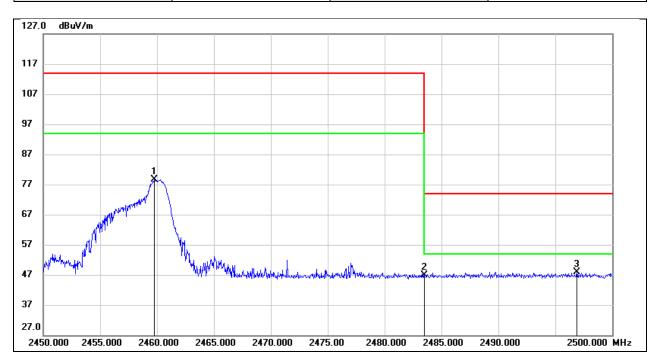
Test Mode:	2.4GHz	Frequency(MHz):	2440
Polarity:	Horizontal	Test Voltage:	DC 4.5 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2334.700	16.55	31.52	48.07	74.00	-25.93	peak
2	2390.000	14.46	31.73	46.19	74.00	-27.81	peak
3	2440.340	47.11	31.88	78.99	114.00	-35.01	Max Emission Position
4	2483.500	14.94	32.00	46.94	74.00	-27.06	peak
5	2495.440	15.62	32.03	47.65	74.00	-26.35	peak



Test Mode:	2.4GHz	Frequency(MHz):	2460
Polarity:	Horizontal	Test Voltage:	DC 4.5 V

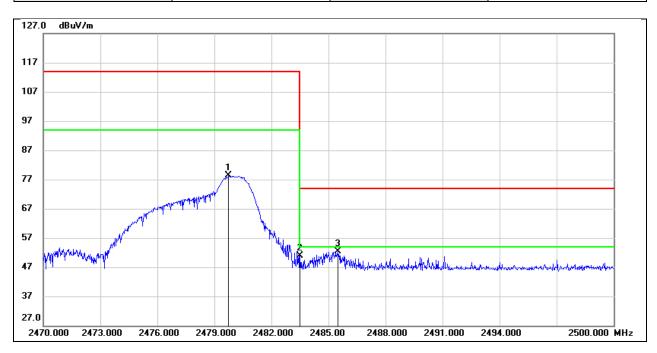


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2459.750	46.64	31.93	78.57	114.00	-35.43	Max Emission Position
2	2483.500	14.79	32.00	46.79	74.00	-27.21	peak
3	2496.900	15.79	32.03	47.82	74.00	-26.18	peak





Test Mode:	2.4GHz	Frequency(MHz):	2480
Polarity:	Horizontal	Test Voltage:	DC 4.5 V

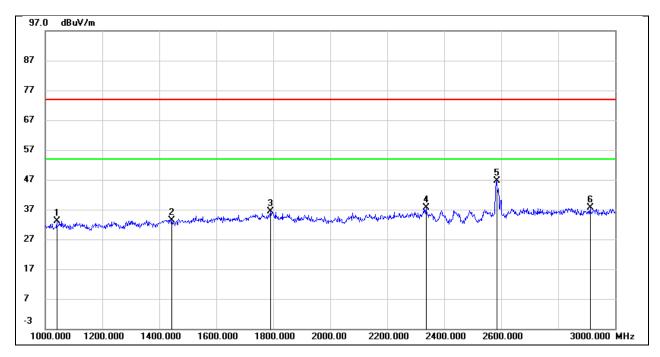


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2479.750	46.30	31.99	78.29	114.00	-35.71	Max Emission Position
2	2483.500	18.93	32.00	50.93	74.00	-23.07	peak
3	2485.510	20.34	32.00	52.34	74.00	-21.66	peak

REPORT NO.: 4791657261-1-RF-1 Page 35 of 54

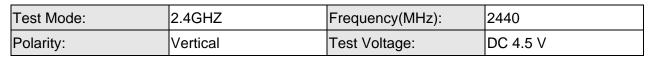
8.3. SPURIOUS EMISSIONS (1 GHZ ~ 3 GHZ)

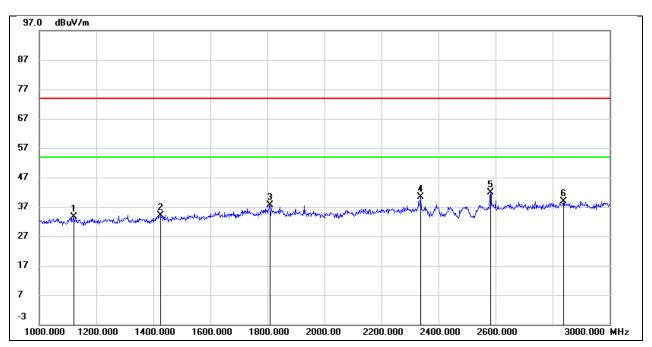
Test Mode:	2.4GHZ	Frequency(MHz):	2440
Polarity:	Horizontal	Test Voltage:	DC 4.5 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1040.000	47.26	-14.24	33.02	74.00	-40.98	peak
2	1444.000	45.69	-12.21	33.48	74.00	-40.52	peak
3	1790.000	46.36	-10.03	36.33	74.00	-37.67	peak
4	2336.000	46.45	-8.83	37.62	74.00	-36.38	peak
5	2584.000	54.37	-7.83	46.54	74.00	-27.46	peak
6	2912.000	44.12	-6.41	37.71	74.00	-36.29	peak

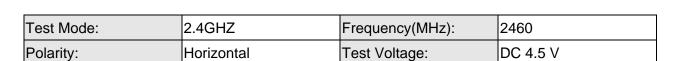


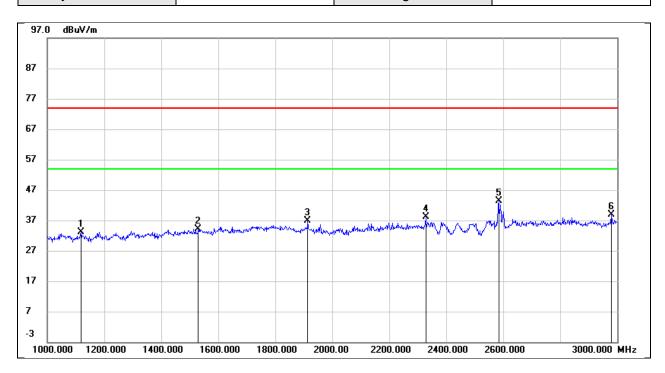




No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1120.000	46.92	-13.30	33.62	74.00	-40.38	peak
2	1424.000	46.18	-12.14	34.04	74.00	-39.96	peak
3	1808.000	47.03	-9.37	37.66	74.00	-36.34	peak
4	2338.000	48.34	-7.99	40.35	74.00	-33.65	peak
5	2582.000	48.86	-6.95	41.91	74.00	-32.09	peak
6	2838.000	44.61	-5.61	39.00	74.00	-35.00	peak



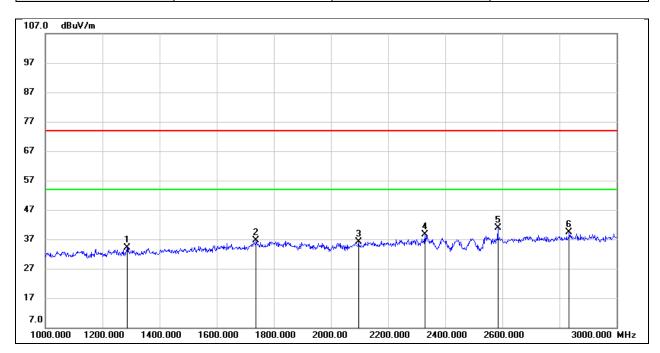




No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1118.000	46.98	-13.88	33.10	74.00	-40.90	peak
2	1530.000	45.80	-11.72	34.08	74.00	-39.92	peak
3	1914.000	46.92	-10.04	36.88	74.00	-37.12	peak
4	2328.000	46.91	-8.85	38.06	74.00	-35.94	peak
5	2584.000	51.17	-7.83	43.34	74.00	-30.66	peak
6	2980.000	44.86	-6.10	38.76	74.00	-35.24	peak



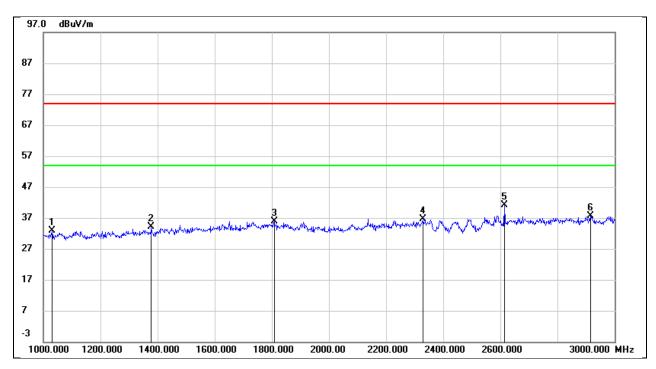
Test Mode:	2.4GHZ	Frequency(MHz):	2460
Polarity:	Vertical	Test Voltage:	DC 4.5 V



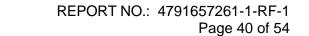
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1286.000	46.88	-12.68	34.20	74.00	-39.80	peak
2	1738.000	46.47	-9.92	36.55	74.00	-37.45	peak
3	2096.000	44.91	-8.85	36.06	74.00	-37.94	peak
4	2330.000	46.61	-8.02	38.59	74.00	-35.41	peak
5	2584.000	47.95	-6.95	41.00	74.00	-33.00	peak
6	2834.000	45.01	-5.63	39.38	74.00	-34.62	peak



Test Mode:	2.4GHZ	Frequency(MHz):	2480
Polarity:	Horizontal	Test Voltage:	DC 4.5 V

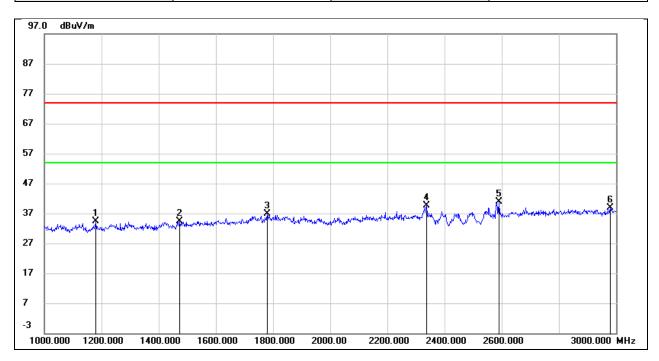


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1030.000	47.18	-14.29	32.89	74.00	-41.11	QP
2	1378.000	46.61	-12.57	34.04	74.00	-39.96	peak
3	1808.000	45.80	-9.96	35.84	74.00	-38.16	peak
4	2330.000	45.50	-8.85	36.65	74.00	-37.35	peak
5	2614.000	48.72	-7.70	41.02	74.00	-32.98	peak
6	2916.000	44.03	-6.39	37.64	74.00	-36.36	peak





Test Mode:	2.4GHZ	Frequency(MHz):	2480
Polarity:	Vertical	Test Voltage:	DC 4.5 V

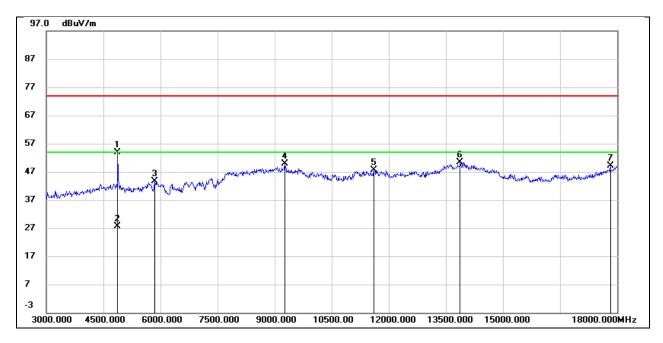


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1180.000	47.36	-13.08	34.28	74.00	-39.72	peak
2	1474.000	46.31	-11.91	34.40	74.00	-39.60	peak
3	1780.000	46.50	-9.55	36.95	74.00	-37.05	peak
4	2338.000	47.71	-7.99	39.72	74.00	-34.28	peak
5	2590.000	47.70	-6.92	40.78	74.00	-33.22	peak
6	2980.000	43.71	-4.82	38.89	74.00	-35.11	peak

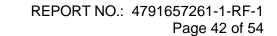
REPORT NO.: 4791657261-1-RF-1 Page 41 of 54

8.4. SPURIOUS EMISSIONS (3 GHZ ~ 18 GHZ)

Test Mode:	2.4GHZ	Frequency(MHz):	2440
Polarity:	Horizontal	Test Voltage:	DC 3 V

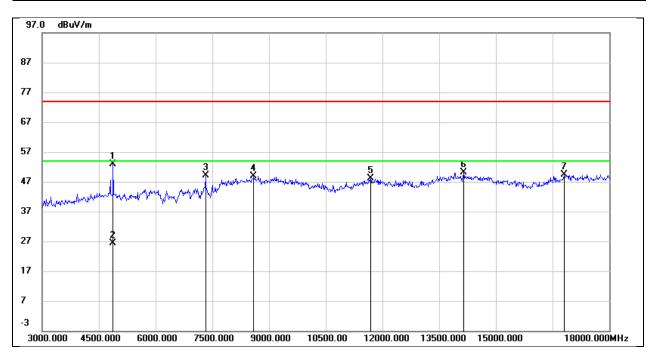


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4875.000	53.27	0.65	53.92	74.00	-20.08	peak
2	4875.000	/	/	27.51	54.00	-26.49	AVG
3	5850.000	40.70	2.84	43.54	74.00	-30.46	peak
4	9270.000	38.43	11.38	49.81	74.00	-24.19	peak
5	11610.000	29.42	18.17	47.59	74.00	-26.41	peak
6	13875.000	27.12	23.26	50.38	74.00	-23.62	peak
7	17820.000	21.24	27.80	49.04	74.00	-24.96	peak

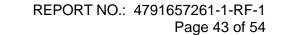




Test Mode:	2.4GHZ	Frequency(MHz):	2440
Polarity:	Vertical	Test Voltage:	DC 3 V

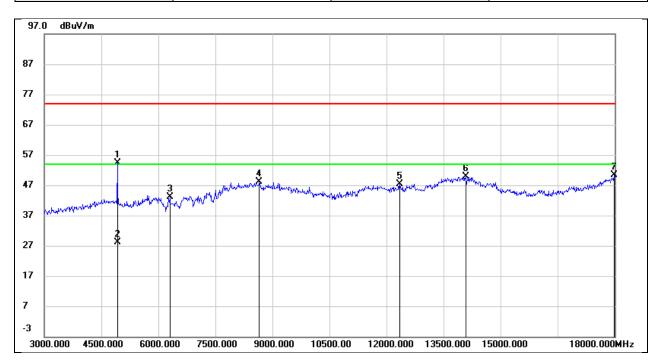


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4875.000	51.00	1.78	52.78	74.00	-21.22	peak
2	4875.000	/	/	26.37	54.00	-27.63	AVG
3	7320.000	41.53	7.69	49.22	74.00	-24.78	peak
4	8595.000	39.09	9.86	48.95	74.00	-25.05	peak
5	11685.000	31.09	16.96	48.05	74.00	-25.95	peak
6	14145.000	27.78	22.24	50.02	74.00	-23.98	peak
7	16815.000	24.51	24.95	49.46	74.00	-24.54	peak



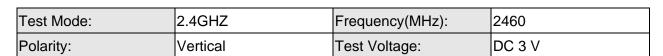


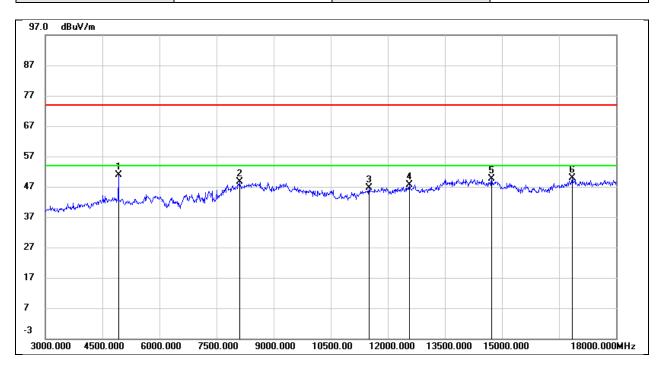
Test Mode:	2.4GHZ	Frequency(MHz):	2460
Polarity:	Horizontal	Test Voltage:	DC 3 V



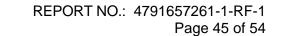
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4920.000	53.71	0.76	54.47	74.00	-19.53	peak
2	4920.000	/	/	28.06	54.00	-25.94	AVG
3	6300.000	38.93	4.19	43.12	74.00	-30.88	peak
4	8655.000	38.68	9.38	48.06	74.00	-25.94	peak
5	12345.000	28.54	18.90	47.44	74.00	-26.56	peak
6	14085.000	26.33	23.61	49.94	74.00	-24.06	peak
7	17985.000	20.81	29.49	50.30	74.00	-23.70	peak





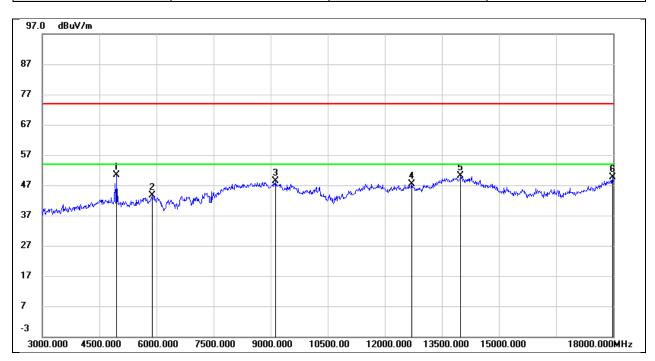


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4920.000	48.88	1.91	50.79	74.00	-23.21	peak
2	8100.000	39.70	8.81	48.51	74.00	-25.49	peak
3	11505.000	30.14	16.50	46.64	74.00	-27.36	peak
4	12570.000	29.75	18.00	47.75	74.00	-26.25	peak
5	14730.000	28.58	21.07	49.65	74.00	-24.35	peak
6	16845.000	24.94	24.99	49.93	74.00	-24.07	peak

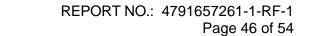




Test Mode:	2.4GHZ	Frequency(MHz):	2480
Polarity:	Horizontal	Test Voltage:	DC 3 V

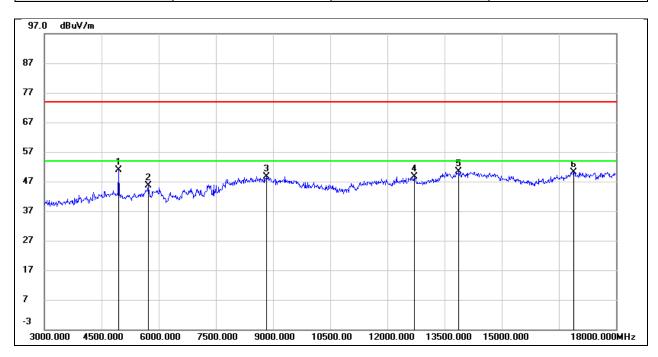


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4950.000	49.57	0.83	50.40	74.00	-23.60	peak
2	5880.000	40.67	2.90	43.57	74.00	-30.43	peak
3	9120.000	37.61	10.72	48.33	74.00	-25.67	peak
4	12705.000	28.25	19.25	47.50	74.00	-26.50	peak
5	13995.000	26.31	23.78	50.09	74.00	-23.91	peak
6	17985.000	20.11	29.49	49.60	74.00	-24.40	peak





Test Mode:	2.4GHZ	Frequency(MHz):	2480
Polarity:	Vertical	Test Voltage:	DC 3 V

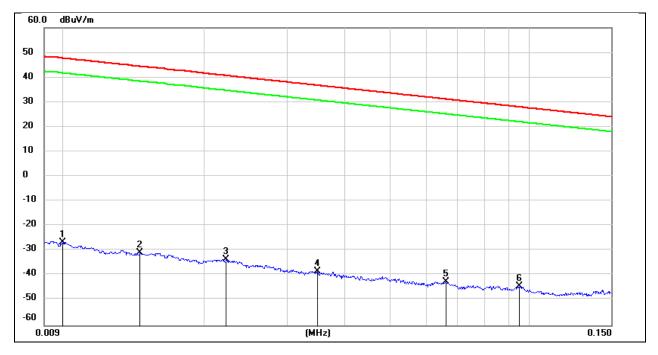


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4950.000	48.95	2.00	50.95	74.00	-23.05	peak
2	5730.000	41.87	3.71	45.58	74.00	-28.42	peak
3	8835.000	38.39	10.14	48.53	74.00	-25.47	peak
4	12705.000	30.43	18.22	48.65	74.00	-25.35	peak
5	13875.000	28.70	21.64	50.34	74.00	-23.66	peak
6	16890.000	25.13	25.05	50.18	74.00	-23.82	peak

REPORT NO.: 4791657261-1-RF-1 Page 47 of 54

8.5. SPURIOUS EMISSIONS (9 KHZ ~ 30 MHZ)

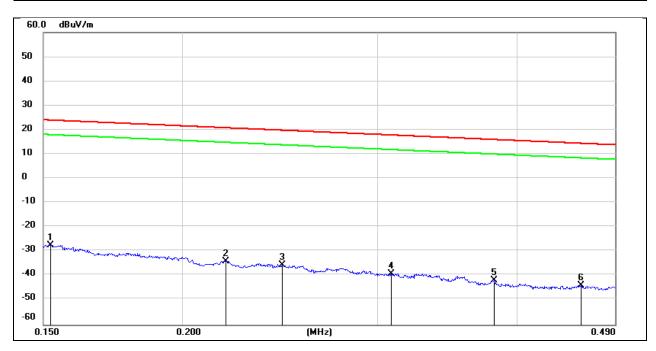
Test Mode:	2.4GHz	Frequency(MHz):	2440
Polarity:	Loop Antenna Face On To The EUT	Test Voltage:	DC 4.5 V



No.	Frequency	Reading	Correct	Result	Result	Limit	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuA/m)	(dBuV/m)	(dBuA/m)	(dB)	
1	0.0100	74.72	-101.40	-26.68	-78.18	47.60	-3.9	-74.28	peak
2	0.0145	70.55	-101.38	-30.83	-82.33	44.37	-7.13	-75.20	peak
3	0.0222	67.86	-101.35	-33.49	-84.99	40.67	-10.83	-74.16	peak
4	0.0349	63.03	-101.41	-38.38	-89.88	36.75	-14.75	-75.13	peak
5	0.0661	59.14	-101.55	-42.41	-93.91	31.20	-20.3	-73.61	peak
6	0.0952	57.45	-101.76	-44.31	-95.81	28.03	-23.47	-72.34	peak



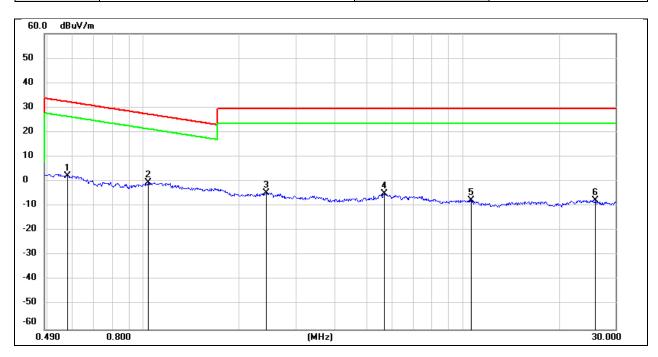
Test Mode:	2.4GHz	Frequency(MHz):	2440
Polarity:	Loop Antenna Face On To The EUT	Test Voltage:	DC 4.5 V



No.	Frequency	Reading	Correct	Result	Result	Limit	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuA/m)	(dBuV/m)	(dBuA/m)	(dB)	
1	0.1524	74.30	-101.63	-27.33	-78.83	23.94	-27.56	-51.27	peak
2	0.2190	67.77	-101.75	-33.98	-85.48	20.79	-30.71	-54.77	peak
3	0.2462	66.36	-101.80	-35.44	-86.94	19.78	-31.72	-55.22	peak
4	0.3079	62.85	-101.86	-39.01	-90.51	17.83	-33.67	-56.84	peak
5	0.3815	60.22	-101.94	-41.72	-93.22	15.97	-35.53	-57.69	peak
6	0.4570	57.97	-102.02	-44.05	-95.55	14.40	-37.1	-58.45	peak



Test Mode:	2.4GHz	Frequency(MHz):	2440
Polarity:	Loop Antenna Face On To The EUT	Test Voltage:	DC 4.5 V

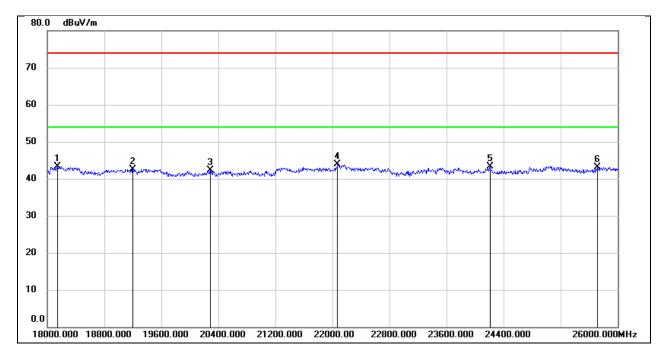


No.	Frequency	Reading	Correct	Result	Result	Limit	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuA/m)	(dBuV/m)	(dBuA/m)	(dB)	
1	0.5785	64.40	-62.08	2.32	-49.18	32.36	-19.14	-30.04	peak
2	1.0361	61.70	-62.25	-0.55	-52.05	27.29	-24.21	-27.84	peak
3	2.4184	57.12	-61.72	-4.60	-56.1	29.54	-21.96	-34.14	peak
4	5.6836	56.35	-61.40	-5.05	-56.55	29.54	-21.96	-34.59	peak
5	10.6119	53.32	-60.82	-7.50	-59	29.54	-21.96	-37.04	peak
6	25.8978	52.76	-60.36	-7.60	-59.1	29.54	-21.96	-37.14	peak

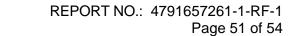
REPORT NO.: 4791657261-1-RF-1 Page 50 of 54

8.6. SPURIOUS EMISSIONS (18 GHZ ~ 26 GHZ)

Test Mode:	2.4GHz	Frequency(MHz):	2440
Polarity:	Horizontal	Test Voltage:	DC 4.5 V

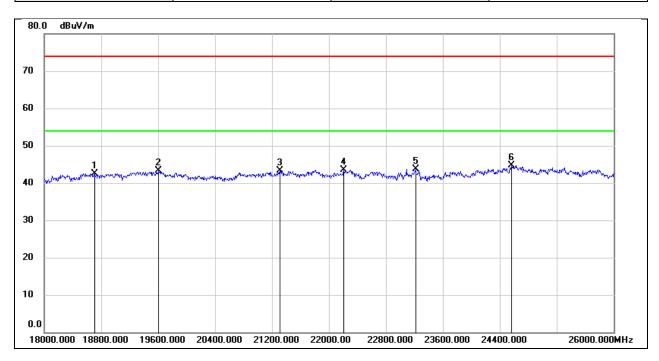


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	18144.000	48.77	-5.48	43.29	74.00	-30.71	peak
2	19200.000	48.11	-5.51	42.60	74.00	-31.40	peak
3	20288.000	47.91	-5.57	42.34	74.00	-31.66	peak
4	22072.000	48.27	-4.41	43.86	74.00	-30.14	peak
5	24208.000	46.21	-2.81	43.40	74.00	-30.60	peak
6	25712.000	43.85	-0.79	43.06	74.00	-30.94	peak





Test Mode:	2.4GHz	Frequency(MHz):	2440
Polarity:	Vertical	Test Voltage:	DC 4.5 V

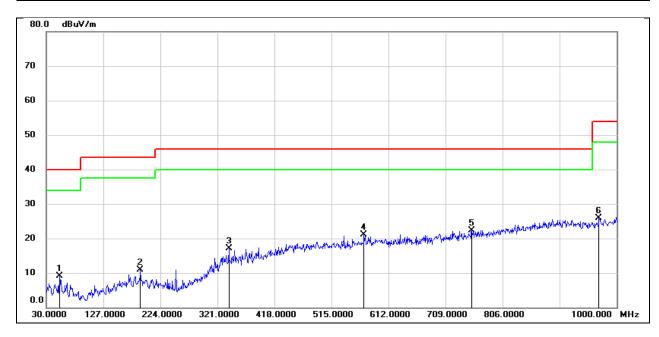


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	18712.000	47.90	-5.40	42.50	74.00	-31.50	peak
2	19608.000	48.65	-5.42	43.23	74.00	-30.77	peak
3	21312.000	48.10	-4.75	43.35	74.00	-30.65	peak
4	22208.000	47.79	-4.27	43.52	74.00	-30.48	peak
5	23216.000	47.01	-3.38	43.63	74.00	-30.37	peak
6	24568.000	47.10	-2.33	44.77	74.00	-29.23	peak

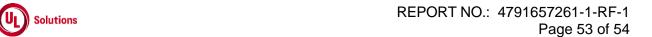
REPORT NO.: 4791657261-1-RF-1 Page 52 of 54

8.7. SPURIOUS EMISSIONS (30 MHZ ~ 1 GHZ)

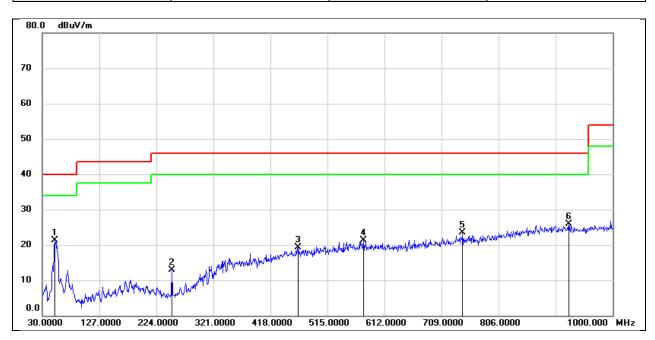
Test Mode:	2.4GHz	Frequency(MHz):	2440
Polarity:	Horizontal	Test Voltage:	DC 4.5 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	52.3100	24.09	-15.05	9.04	40.00	-30.96	QP
2	190.0500	22.94	-11.95	10.99	43.50	-32.51	QP
3	340.4000	26.99	-9.93	17.06	46.00	-28.94	QP
4	570.2900	27.69	-6.50	21.19	46.00	-24.81	QP
5	753.6200	25.78	-3.41	22.37	46.00	-23.63	QP
6	969.9300	26.40	-0.56	25.84	54.00	-28.16	QP



Test Mode:	2.4GHz	Frequency(MHz):	2440
Polarity:	Vertical	Test Voltage:	DC 4.5 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	51.3400	36.34	-15.07	21.27	40.00	-18.73	QP
2	250.1900	27.51	-14.56	12.95	46.00	-33.05	QP
3	465.5300	27.30	-7.99	19.31	46.00	-26.69	QP
4	576.1100	27.58	-6.32	21.26	46.00	-24.74	QP
5	744.8900	27.03	-3.58	23.45	46.00	-22.55	QP
6	925.3100	26.44	-0.61	25.83	46.00	-20.17	QP



REPORT NO.: 4791657261-1-RF-1 Page 54 of 54

9. ANTENNA REQUIREMENT

REQUIREMENT

Please refer to FCC part 15.203

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

<u>DESCRIPTION</u>	
Pass	
	FND OF REPORT