

FCC Radio Test Report

FCC ID: 2AC23-WT22M

This report concerns: Original Grant

Project No. : 1902C106A Equipment : WIFI+BT Module

Brand Name : GSD

Test Model : WT22M2600N

Series Model : N/A

Applicant: Hui Zhou Gaoshengda Technology Co., LTD

Address : NO.75 Zhongkai Development Area, Huizhou, Guangdong

Manufacturer : Hui Zhou Gaoshengda Technology Co., LTD

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Date of Receipt : Feb. 28, 2019

Date of Test : Mar. 04, 2019 ~ Dec. 06, 2019

Issued Date : Dec. 10, 2019

Report Version : R00

Test Sample: Engineering Sample No.: DG20191128107

Standard(s) : FCC Part15, Subpart C (15.247)

ANSI C63.10-2013

KDB 558074 D01 15.247 Meas Guidance v05r02

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

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ilac-MRA



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Declaration

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BTL's laboratory quality assurance procedures are in compliance with the **ISO/IEC 17025** requirements, and accredited by the conformity assessment authorities listed in this test report.

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The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

Limitation

in determining the Pass/Fail results.

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective. Please note that the measurement uncertainty is provided for informational purpose only and are not use



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REPORT ISSUED HISTORY

Report Version	Description	Issued Date
R00	Original Issue.	Dec. 10, 2019



1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

FCC Part15, Subpart C (15.247)				
Standard(s) Section	Test Item	Test Result	Judgment	Remark
15.207	AC Power Line Conducted Emissions	APPENDIX A	PASS	
15.247(d) 15.205(a) 15.209(a)	Radiated Emissions	APPENDIX B APPENDIX C APPENDIX D	PASS	
15.247(a)(2)	Bandwidth	APPENDIX E	PASS	
15.247(b)(3)	Maximum Output Power	APPENDIX F	PASS	
15.247(d)	Conducted Spurious Emission	APPENDIX G	PASS	
15.247(e)	Power Spectral Density	APPENDIX H	PASS	
15.203	Antenna Requirement		PASS	Note(2)

Note:

- (1) "N/A" denotes test is not applicable to this device.
- (2) The device what use a permanently attached antenna were considered sufficient to comply with the provisions of 15.203.



1.1 TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No.3, Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China.

BTL's Test Firm Registration Number for FCC: 357015

BTL's Designation Number for FCC: CN1240

1.2 MEASUREMENT UNCERTAINTY

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

The BTL measurement uncertainty as below table:

A. AC power line conducted emissions Measurement:

Test Site	Method	Measurement Frequency Range	U, (dB)
DG-C02	CISPR	150kHz ~ 30MHz	2.60

B. Radiated emissions Measurement:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)		
		9kHz ~ 30MHz	V	3.79		
		9kHz ~ 30MHz	Н	3.57		
		30MHz ~ 200MHz	V	4.88		
	DG-CB03 CISPR	30MHz ~ 200MHz	Н	4.14		
DC CB03		CICDD	CIEDD	200MHz ~ 1,000MHz	V	4.62
DG-CB03		200MHz ~ 1,000MHz	Η	4.80		
		1GHz ~ 6GHz	ı	4.58		
		6GHz ~ 18GHz	6GHz ~ 18GHz	ı	5.18	
		18GHz ~ 26.5GHz	1	3.62		
		26.5GHz ~ 40GHz	-	4.00		

Note: Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

1.3 TEST ENVIRONMENT CONDITIONS

Test Item	Temperature	Humidity	Test Voltage	Tested By
AC Power Line Conducted Emissions	25°C	53%	AC 120V/60Hz	Laughing Zhang
Radiated Emissions-9K-30MHz	25°C	60%	DC 3.3V	Laughing Zhang
Radiated Emissions-30 MHz to 1GHz	24°C	68%	DC 3.3V	Laughing Zhang
Radiated Emissions-Above 1000 MHz	24°C	68%	DC 3.3V	Laughing Zhang
Bandwidth	25°C	64%	DC 3.3V	Jonas Chen
Maximum Output Power	25°C	64%	DC 3.3V	Laughing Zhang
Conducted Spurious Emission	25°C	64%	DC 3.3V	Jonas Chen
Power Spectral Density	25°C	64%	DC 3.3V	Jonas Chen



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	WIFI+BT Module
Brand Name	GSD
Test Model	WT22M2600N
Series Model	N/A
Model Difference(s)	N/A
Software Version	V.0.0.4.33
Hardware Version	V1.0
Power Source	DC voltage supplied from external power supply.
Power Rating	DC 3.3V
Operation Frequency	2402 MHz ~ 2480 MHz
Modulation Technology	GFSK
Bit Rate of Transmitter	1Mbps, 2Mbps
Max. Output Power	10.40 dBm (0.0110 W) For 1Mbps 8.17 dBm (0.0066 W) For 2Mbps

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.



2. Channel List:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	20	2442
01	2404	21	2444
02	2406	22	2446
03	2408	23	2448
04	2410	24	2450
05	2412	25	2452
06	2414	26	2454
07	2416	27	2456
08	2418	28	2458
09	2420	29	2460
10	2422	30	2462
11	2424	31	2464
12	2426	32	2466
13	2428	33	2468
14	2430	34	2470
15	2432	35	2472
16	2434	36	2474
17	2436	37	2476
18	2438	38	2478
19	2440	39	2480

3. Table for Filed Antenna:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	PIFA	N/A	1.72



2.2 DESCRIPTION OF TEST MODES

The test system was pre-tested based on the consideration of all possible combinations of EUT operation mode.

Pretest Mode	Description
Mode 1	TX Mode NOTE (1)
Mode 2	TX Mode Channel 39 _1Mbps

Following mode(s) as (were) found to be the worst case(s) and selected for the final test.

AC power line conducted emissions test	
Final Test Mode	Description
Mode 2	TX Mode Channel 39 _1Mbps

Radiated emissions test - Below 1GHz	
Final Test Mode	Description
Mode 2	TX Mode Channel 39 _1Mbps

Radiated emissions test - Above 1GHz	
Final Test Mode	Description
Mode 1	TX Mode NOTE (1)

Conducted test		
Final Test Mode	Description	
Mode 1	TX Mode NOTE (1)	

Note:

- (1) The measurements are performed at the high, middle, low available channels.
- (2) For radiated emission above 1 GHz test, 1GHz~26.5GHz have been pre-tested and in this report only recorded the worst case. The remaining spurious points are all below the limit value of 20dB.
- (3) For radiated emission below 1 GHz test, the Channel 39 of 1Mbps is found to be the worst case and recorded.



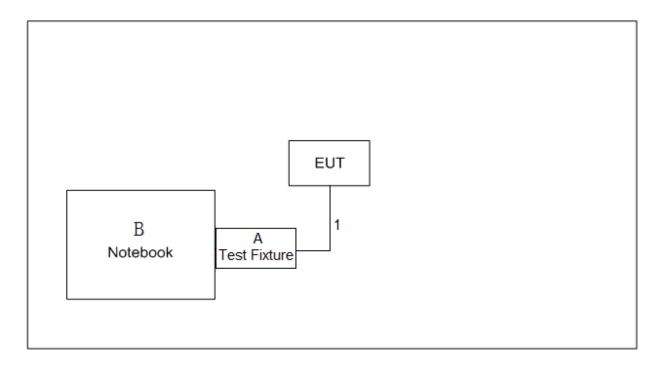
2.3 PARAMETERS OF TEST SOFTWARE

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of BT LE

Test Software	WCN_Como_Tool v2.1748.00		
Frequency (MHz)	2402	2440	2480
Parameters(1Mbps)	N/A	N/A	N/A
Parameters(2Mbps)	N/A	N/A	N/A



2.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



2.5 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.
Α	Test Fixture	N/A	N/A	N/A
В	Notebook	Lenovo	V310-14ISK	LR07GZNB

Item	Cable Type	Shielded Type	Ferrite Core	Length
1	Data Cable	NO	NO	0.2m



3. AC POWER LINE CONDUCTED EMISSIONS TEST

3.1 LIMIT

Frequency of Emission (MHz)	Limit (dl	BμV)
	Quasi-peak	Average
0.15 - 0.5	66 to 56*	56 to 46*
0.5 - 5.0	56	46
5.0 - 30.0	60	50

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

3.2 TEST PROCEDURE

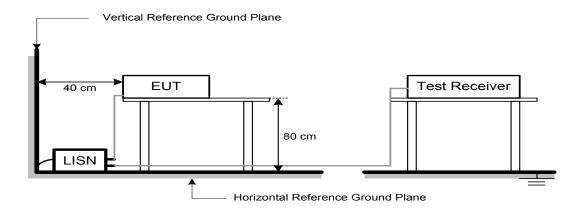
- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

3.3 DEVIATION FROM TEST STANDARD

No deviation



3.4 TEST SETUP



3.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

3.6 TEST RESULTS

Please refer to the APPENDIX A.

Remark:

- (1) All readings are QP Mode value unless otherwise stated AVG in column of <code>Note</code>. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform. In this case, a " * " marked in AVG Mode column of Interference Voltage Measured.
- (2) Measuring frequency range from 150 kHz to 30 MHz.



4. RADIATED EMISSION TEST

4.1 LIMIT

In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

LIMITS OF RADIATED EMISSION MEASUREMENT (9 kHz-1000 MHz)

Frequency	Field Strength	Measurement Distance
(MHz)	(microvolts/meter)	(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

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000 MHz)

Fraguency (MHz)	(dBuV/m at 3 m)	
Frequency (MHz)	Peak	Average
Above 1000	74	54

Note:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).



Spectrum Parameter	Setting	
Attenuation	Auto	
Start Frequency	1000 MHz	
Stop Frequency	10th carrier harmonic	
RBW / VBW	RBW 1 MHz VBW 3 MHz peak detector for Pk value	
(Emission in restricted band)	RMS detector for AV value	

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9 kHz~90 kHz for PK/AVG detector
Start ~ Stop Frequency	90 kHz~110 kHz for QP detector
Start ~ Stop Frequency	110 kHz~490 kHz for PK/AVG detector
Start ~ Stop Frequency	490 kHz~30 MHz for QP detector
Start ~ Stop Frequency	30 MHz~1000 MHz for QP detector

4.2 TEST PROCEDURE

- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1 GHz)
- b. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1 GHz)
- c. The height of the equipment or of the substitution antenna shall be 0.8m or 1.5m; the height of the test antenna shall vary between 1 m to 4 m. 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 find the maximum reading (used Bore sight function).
- e. The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz.
- f. The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- g. All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform. (below 1 GHz)
- h. All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform. (above 1 GHz)
- i. For the actual test configuration, please refer to the related Item -EUT Test Photos.

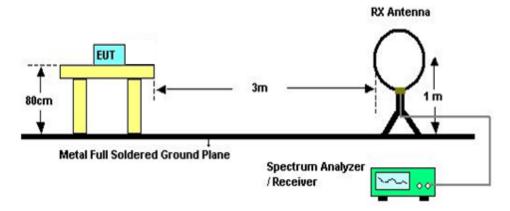
4.3 DEVIATION FROM TEST STANDARD

No deviation

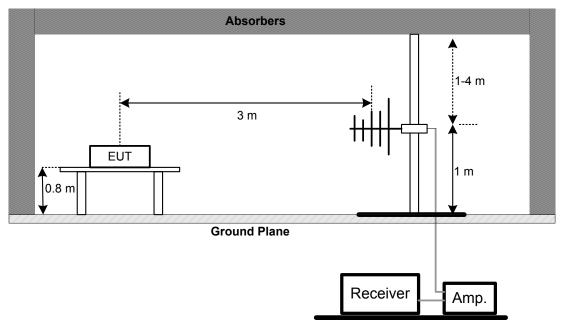


4.4 TEST SETUP

9 kHz-30 MHz



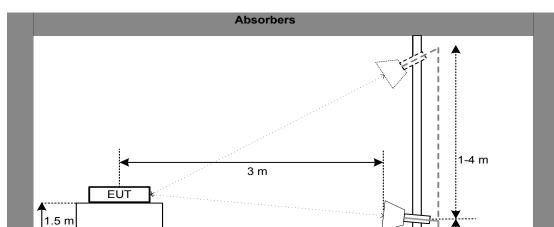
30 MHz to 1 GHz



1 m

Amp.





Absorbers

Ground Plane

1 0.3 m

Receiver

Above 1 GHz

4.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

4.6 TEST RESULT - 9 kHz TO 30 MHz

Please refer to the APPENDIX B

Remark:

- (1) Distance extrapolation factor = 40 log (specific distance / test distance) (dB).
- (2) Limit line = specific limits (dBuV) + distance extrapolation factor.

4.7 TEST RESULT - 30 MHz TO 1000 MHz

Please refer to the APPENDIX C.

4.8 TEST RESULT - ABOVE 1000 MHz

Please refer to the APPENDIX D.

Remark:

(1) No limit: This is fundamental signal, the judgment is not applicable. For fundamental signal judgment was referred to Peak output test.



5. BANDWIDTH TEST

5.1 LIMIT

VII				
FCC Part15, Subpart C (15.247)				
Section	Limit			
15.247(a)(2)	Bandwidth	>= 500 kHz (6 dB bandwidth)		

5.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. Spectrum Setting: RBW= 100 kHz, VBW=300 kHz, Sweep time = 2.5 ms.

5.3 DEVIATION FROM STANDARD

No deviation.

5.4 TEST SETUP



5.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 3.5 unless otherwise a special operating condition is specified in the follows during the testing.

5.6 TEST RESULTS

Please refer to the APPENDIX E.



6. MAXIMUM OUTPUT POWER

6.1 LIMIT

FCC Part15, Subpart C (15.247)			
Section Test Item Limit			
15.247(b)(3) Maximum Output Power		1 watt or 30 dBm	

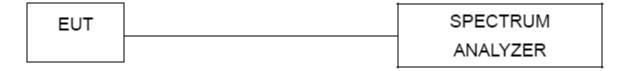
6.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. The maximum conducted output power was performed in accordance with method 11.9.2.2 of ANSI C63.10-2013.

6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP



6.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 3.5 unless otherwise a special operating condition is specified in the follows during the testing.

6.6 TEST RESULTS

Please refer to the APPENDIX F.



7. CONDUCTED SPURIOUS EMISSION

7.1 LIMIT

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak Output Power limits. If the transmitter complies with the Output Power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required.

7.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. Spectrum Setting: RBW= 100 kHz, VBW=300 kHz, Sweep time = 10 ms.

7.3 DEVIATION FROM STANDARD

No deviation.

7.4 TEST SETUP

EUT	SPECTRUM
	ANALYZER

7.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 3.5 unless otherwise a special operating condition is specified in the follows during the testing.

7.6 TEST RESULTS

Please refer to the APPENDIX G.



8. POWER SPECTRAL DENSITY TEST

8.1 LIMIT

FCC Part15, Subpart C (15.247)		
Section	Limit	
15.247(e)	Power Spectral Density	8 dBm (in any 3 kHz)

8.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. Spectrum Setting: RBW=3 kHz, VBW=10 kHz, Sweep time = auto.

8.3 DEVIATION FROM STANDARD

No deviation.

8.4 TEST SETUP

EUT	•	SPECTRUM
		ANALYZER

8.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 3.5 unless otherwise a special operating condition is specified in the follows during the testing.

8.6 TEST RESULTS

Please refer to the APPENDIX H.



9. MEASUREMENT INSTRUMENTS LIST

	AC Power Line Conducted Emissions				
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	EMI Test Receiver	R&S	ESCI	100382	Mar. 10, 2020
2	LISN	EMCO	3816/2	52765	Mar. 10, 2020
3	TWO-LINE V-NETWORK	R&S	ENV216	101447	May 19, 2020
4	50Ω Terminator	SHX	TF5-3	15041305	Mar. 10, 2020
5	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
6	Cable	N/A	RG223	12m	Mar. 12, 2020

	Radiated Emissions - 9 kHz to 30 MHz				
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Loop Antenna	EM	EM-6876-1	230	Jan. 15, 2020
2	Cable	N/A	RG 213/U	C-102	May 31, 2020
3	EMI Test Receiver	R&S	ESCI	100895	Mar. 10, 2020
4	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

	Radiated Emissions - 30 MHz to 1 GHz				
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	Schwarzbeck	VULB9160	9160-3232	Mar. 09, 2020
2*	Amplifier	HP	8447D	2944A09673	Aug. 11, 2021
3	Receiver	Agilent	N9038A	MY52130039	Aug. 03, 2020
4	Cable	emci	LMR-400(30MHz-1 GHz)(8m+5m)	N/A	May 24, 2020
5	Controller	CT	SC100	N/A	N/A
6	Controller	MF	MF-7802	MF780208416	N/A
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

	Radiated Emissions - Above 1 GHz				
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Double Ridged Guide Antenna	ETS	3115	75789	Mar. 09, 2020
2	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Jun. 23, 2020
3	Amplifier	Agilent	8449B	3008A02333	Mar. 10, 2020
4	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 10, 2020
5	Receiver	Agilent	N9038A	MY52130039	Aug. 03, 2020
6	Controller	CT	SC100	N/A	N/A
7	Controller	MF	MF-7802	MF780208416	N/A
8	Cable	mitron	B10-01-01-12M	18072744	Jun. 29, 2020
9	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A





		Maxim Power	Bandwidth & um Output Power & Spectral Density & ducted Spurious En		
Item	Item Kind of Equipment Manufacturer Type No. Serial No. Calibrated until				
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 03, 2020

Remark: "N/A" denotes no model name, serial no. or calibration specified.

"*" calibration period of equipment list is three year.

Except * item, all calibration period of equipment list is one year.



10. EUT TEST PHOTO

AC Power Line Conducted Emissions Test Photos

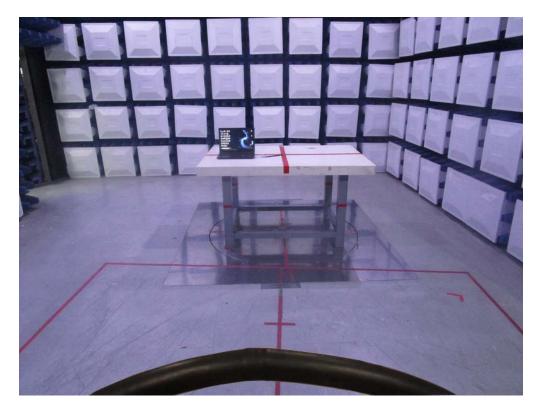


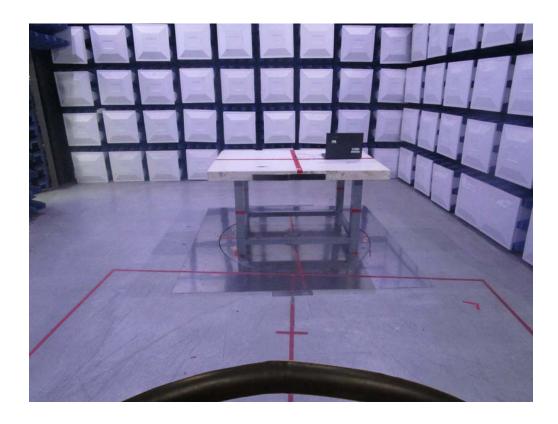




Radiated Emissions Test Photos

9 kHz to 30 MHz

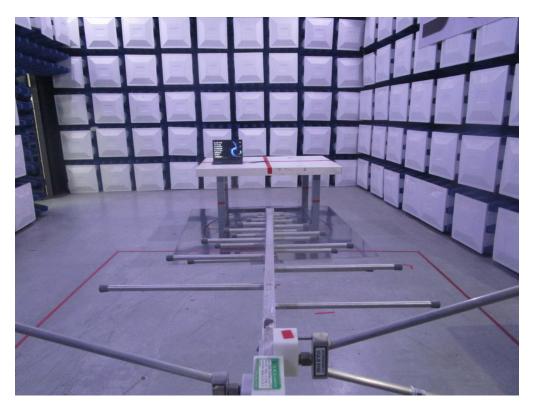


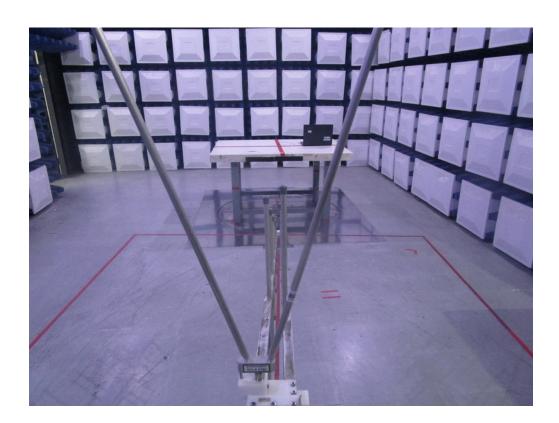




Radiated Emissions Test Photos

30 MHz to 1000 MHz



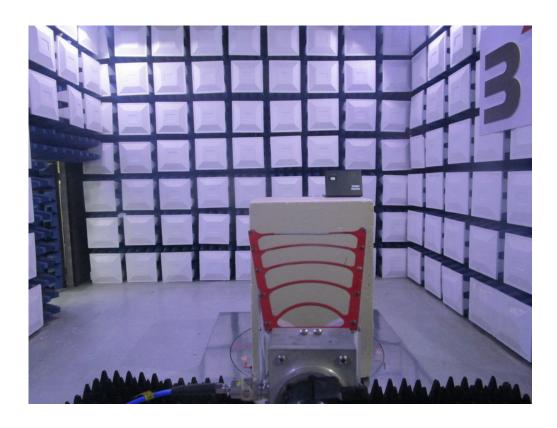




Radiated Emissions Test Photos

Above 1 GHz









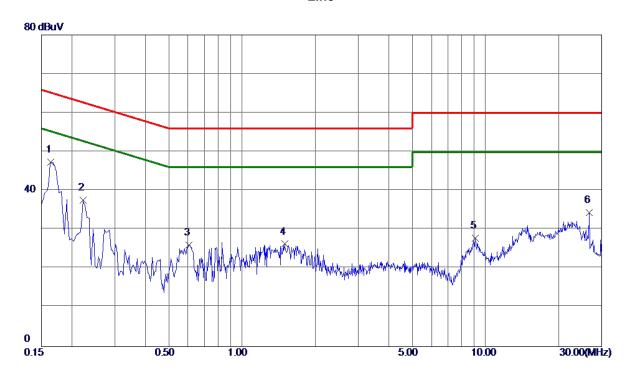


APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS



Test Mode: TX Mode Channel 39 _1Mbps

Line



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1 *	0. 1635	37. 54	9.82	47. 36	65. 28	-17.92	Peak	
2	0. 2220	27.73	9.82	37. 55	62.74	-25. 19	Peak	
3	0.6045	16. 26	9. 89	26. 15	56.00	-29.85	Peak	
4	1.5000	16. 37	9. 95	26. 32	56.00	-29.68	Peak	
5	9.0735	17.43	10.44	27.87	60.00	-32. 13	Peak	
6	26. 6235	23. 28	11. 11	34. 39	60.00	-25.61	Peak	

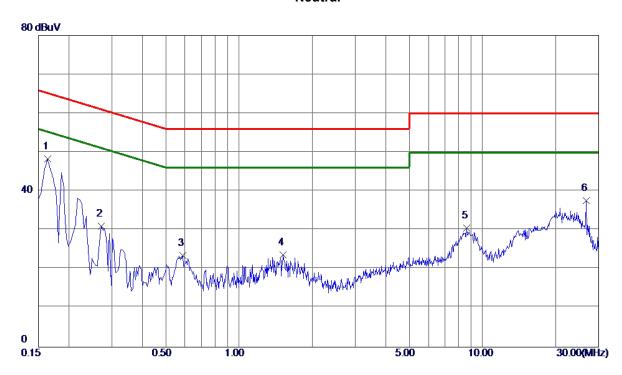
REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Test Mode: TX Mode Channel 39 _1Mbps

Neutral



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1 *	0. 1635	38.41	9. 91	48. 32	65. 28	-16. 96	Peak	
2	0.2714	21. 17	9. 94	31. 11	61.07	-29.96	Peak	
3	0.5865	13. 53	10.04	23. 57	56.00	-32.43	Peak	
4	1.5180	13.47	10. 16	23.63	56.00	-32. 37	Peak	
5	8. 5920	19.96	10.67	30. 63	60.00	-29. 37	Peak	
6	26. 6235	26. 08	11. 49	37. 57	60.00	-22.43	Peak	

REMARKS:

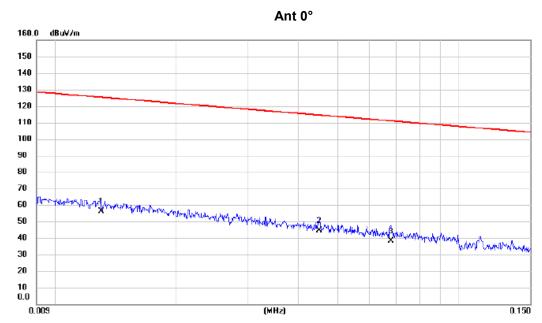
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.



APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ



Test Mode: TX Mode Channel 39 _1Mbps



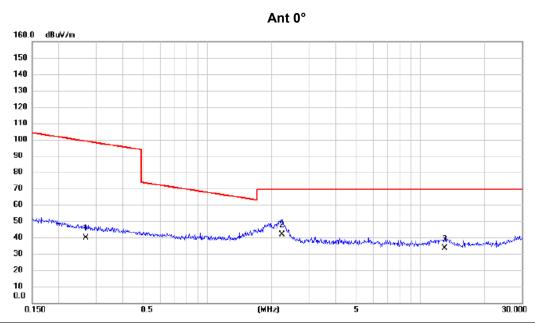
No. Mk.	Freq.		Correct Factor	Measure- ment		Margin		
	MHz	dBu∀	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	0.0130	40.29	15.92	56.21	125.33	-69.12	AVG	
2	0.0451	30.54	13.91	44.45	114.52	-70.07	AVG	
3	0.0678	24.65	13.65	38.30	110.98	-72.68	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Test Mode: TX Mode Channel 39 _1Mbps



No. Mk	. Freq.		Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBu∀	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.2686	26.14	13.62	39.76	99.02	-59.26	AVG	
2 *	2.2367	30.25	11.68	41.93	69.54	-27.61	QP	
3	12.9885	21.69	11.60	33.29	69.54	-36.25	QP	

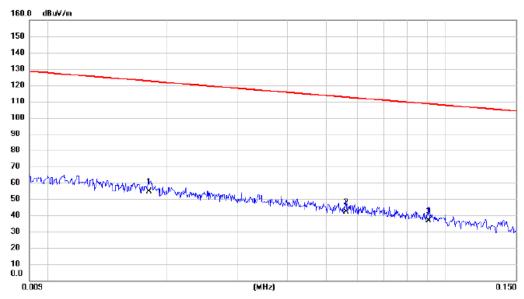
REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.



Test Mode: TX Mode Channel 39 _1Mbps

Ant 90°

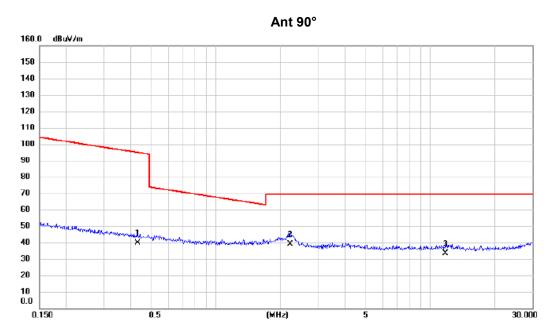


No. Mk.	Freq.		Correct Factor	Measure- ment	- Limit	Margin		
	MHz	dBu∀	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	0.0180	40.21	14.42	54.63	122.50	-67.87	AVG	
2	0.0562	28.46	13.83	42.29	112.61	-70.32	AVG	
3	0.0907	23.00	13.54	36.54	108.45	-71.91	QP	

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.







No. Mk.	Freq.	Reading Level		Measure- ment	Limit	Margin		
	MHz	dBu∀	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.4305	26.42	13.23	39.65	94.92	-55.27	AVG	
2 *	2.2132	27.35	11.69	39.04	69.54	-30.50	QP	
3	11.7446	21.89	11.62	33.51	69.54	-36.03	QP	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.

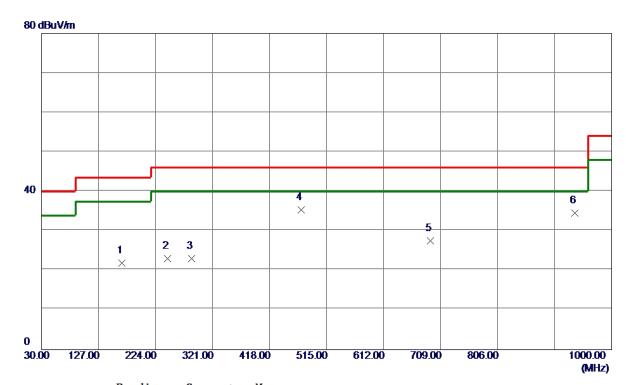


APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1000 MHZ



Test Mode: TX Mode Channel 39 _1Mbps

Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	166.7700	33.84	-11. 96	21.88	43.50	-21.62	Peak	
2	244. 3700	36. 97	-13.88	23.09	46.00	-22. 91	Peak	
3	285. 1099	35. 27	-12. 27	23.00	46.00	-23.00	Peak	
4 *	472. 3200	43. 25	−7. 90	35. 35	46.00	-10.65	Peak	
5	691. 5400	31.64	-4. 12	27. 52	46.00	-18.48	Peak	
6	937. 9200	35. 60	-1.05	34. 55	46.00	-11.45	Peak	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Test Mode: TX Mode Channel 39 _1Mbps

Horizontal



No.	Freq.	Keading Level	Correct Factor	measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	115. 3600	40.00	-13.72	26. 28	43.50	-17. 22	Peak	
2	238. 5500	45. 34	-14.04	31. 30	46.00	-14.70	Peak	
3 *	285. 1099	48. 14	-12. 27	35. 87	46.00	-10. 13	Peak	
4	471.3500	42.49	-7.91	34. 58	46.00	-11.42	Peak	
5	796. 3000	32. 35	-3.05	29. 30	46.00	-16. 70	Peak	
6	937. 9200	35. 24	-1.05	34. 19	46.00	-11.81	Peak	

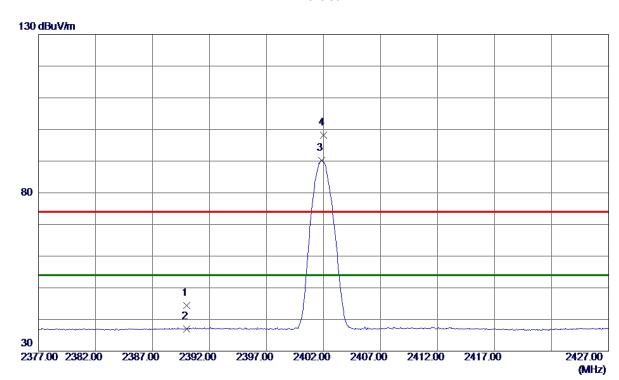
- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



APPENDIX D - RADIATED EMISSION - ABOVE 1000 MHZ



Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	37.89	6. 53	44.42	74.00	-29.58	Peak	
2	2390.0000	30.48	6. 53	37.01	54.00	-16. 99	AVG	
3 *	2401.8500	83.70	6. 52	90. 22	54.00	36. 22	AVG	No Limit
4	2402.0000	91.66	6. 52	98. 18	74.00	24. 18	Peak	No Limit

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



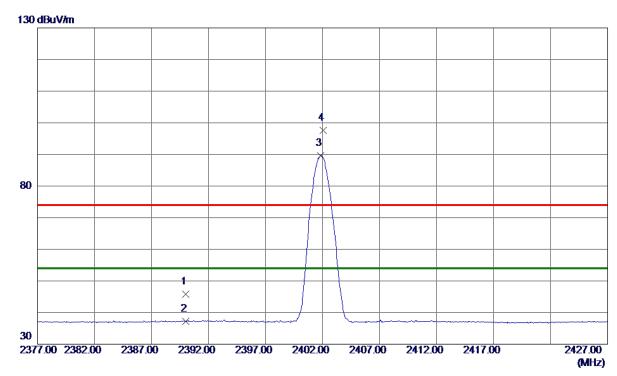
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	9607.7300	40.45	10.70	51. 15	74.00	-22.85	Peak	
2 *	9608. 0150	31.82	10.70	42. 52	54.00	-11.48	AVG	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.

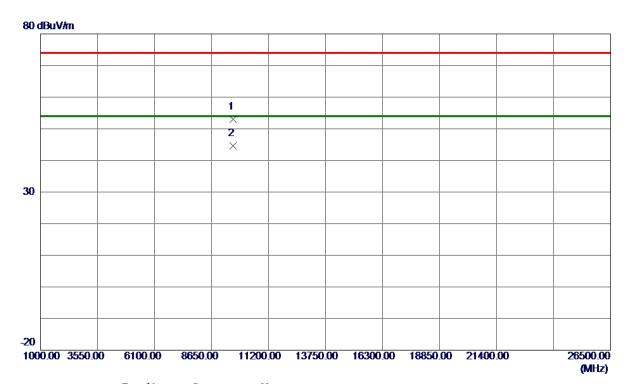




No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	39. 26	6. 53	45. 79	74.00	-28. 21	Peak	
2	2390.0000	30.60	6. 53	37. 13	54.00	-16.87	AVG	
3 *	2401.8500	83. 05	6. 52	89. 57	54.00	35. 57	AVG	No Limit
4	2402.0500	91. 04	6. 52	97. 56	74.00	23. 56	Peak	No Limit

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



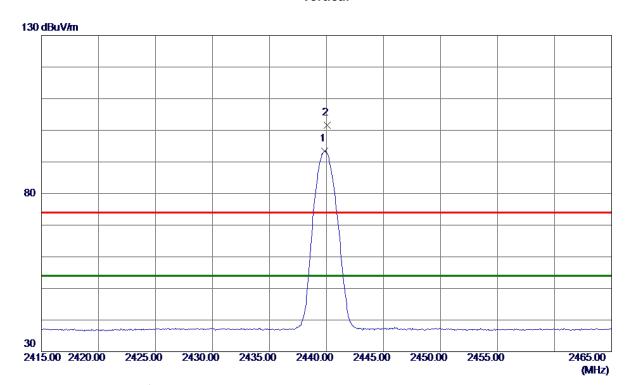


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	9607. 9250	42. 25	10.70	52. 95	74.00	-21.05	Peak	
2 *	9608.0100	33. 98	10.70	44.68	54.00	-9. 32	AVG	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2439.8500	86. 99	6. 47	93.46	54.00	39.46	AVG	No Limit
2	2440. 0500	95. 06	6. 47	101. 53	74.00	27.53	Peak	No Limit

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



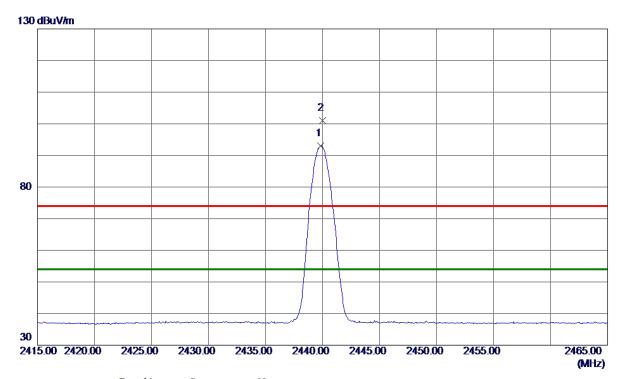
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	9759.9100	42.65	10.70	53. 35	74.00	-20.65	Peak	
2 *	9759. 9550	32. 54	10. 70	43. 24	54.00	-10.76	AVG	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.

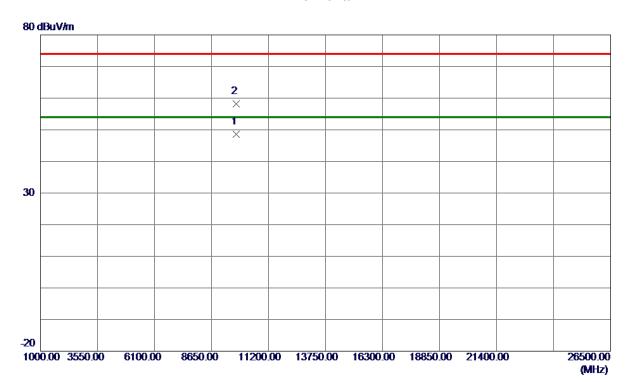




No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2439.8500	86. 58	6. 47	93. 05	54.00	39. 05	AVG	No Limit
2	2440. 0000	94. 58	6. 47	101.05	74.00	27.05	Peak	No Limit

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



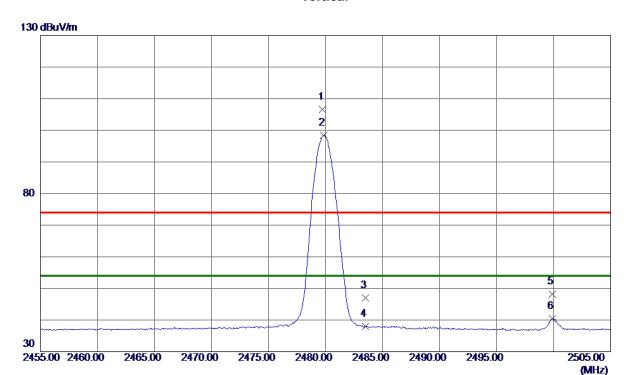


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	9760.0050	37.85	10.70	48. 55	54.00	-5.45	AVG	
2	9760. 1500	47.51	10. 70	58. 21	74.00	-15. 79	Peak	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Vertical

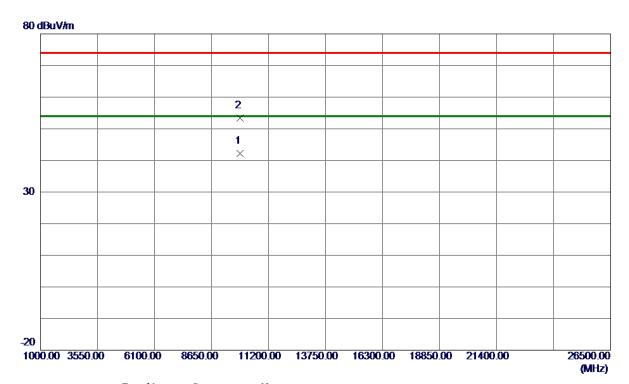


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2479. 7500	100. 18	6. 43	106. 61	74.00	32.61	Peak	No Limit
2 *	2479.8500	92. 01	6. 43	98. 44	54.00	44.44	AVG	No Limit
3	2483. 5000	40. 51	6. 42	46. 93	74.00	-27.07	Peak	
4	2483. 5000	31. 56	6. 42	37. 98	54.00	-16.02	AVG	
5	2499. 9000	41.73	6.41	48. 14	74.00	-25.86	Peak	
6	2499. 9000	34.04	6.41	40. 45	54.00	-13. 55	AVG	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



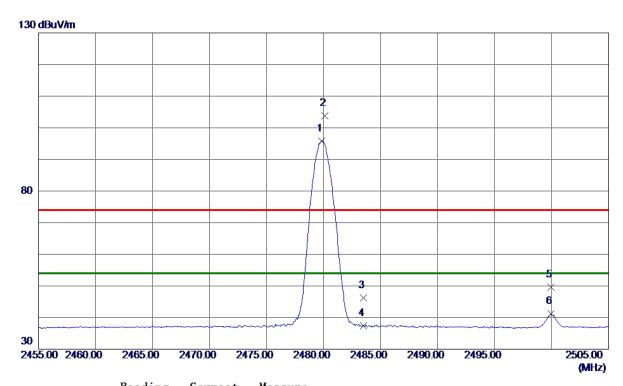
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	9920.0700	31. 56	10.69	42. 25	54.00	-11.75	AVG	
2	9920. 2350	42.76	10. 69	53. 45	74.00	-20. 55	Peak	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.

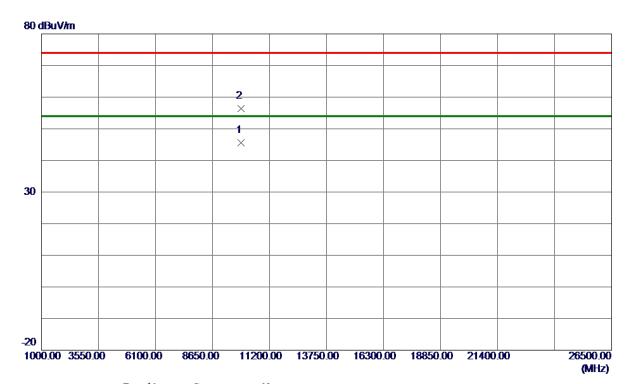




No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2479.8500	89.43	6. 43	95. 86	54.00	41.86	AVG	No Limit
2	2480. 1000	97.43	6. 43	103.86	74.00	29.86	Peak	No Limit
3	2483. 5000	39. 69	6. 42	46. 11	74.00	-27.89	Peak	
4	2483. 5000	30. 91	6. 42	37. 33	54.00	-16. 67	AVG	
5	2499. 9500	43. 11	6. 41	49. 52	74.00	-24.48	Peak	
6	2499. 9500	34.74	6.41	41. 15	54.00	-12.85	AVG	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



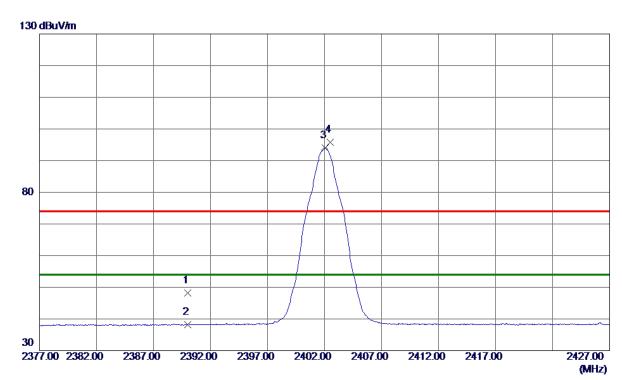


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	9920. 0150	34.90	10.69	45. 59	54.00	-8.41	AVG	
2	9920. 1250	45. 77	10. 69	56. 46	74.00	-17.54	Peak	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Vertical

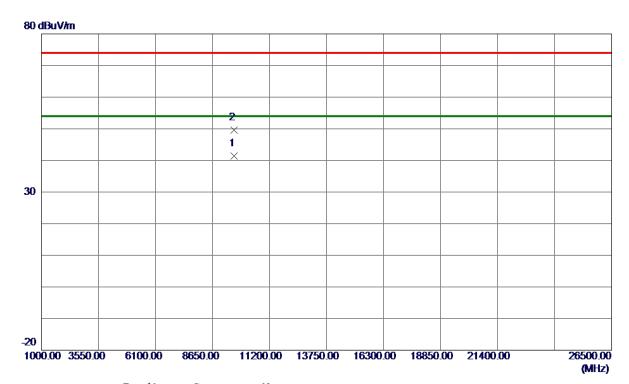


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	38. 18	9. 95	48. 13	74.00	-25.87	Peak	
2	2390.0000	28. 33	9. 95	38. 28	54.00	-15.72	AVG	
3 *	2402.0500	84. 10	9. 99	94.09	54.00	40.09	AVG	No Limit
4	2402. 5000	85. 81	9. 99	95. 80	74.00	21.80	Peak	No Limit

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



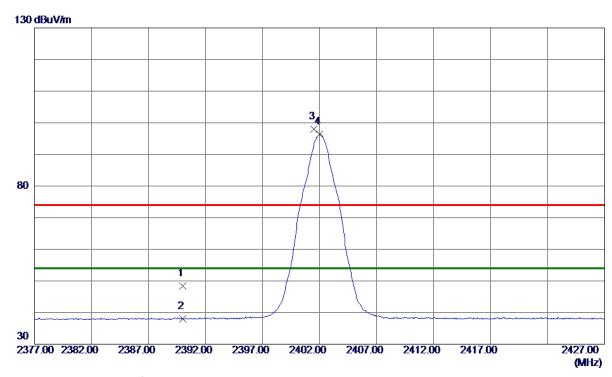
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	9607.9420	28. 31	13. 03	41. 34	54.00	-12.66	AVG	
2	9608. 1030	36. 60	13. 03	49.63	74.00	-24. 37	Peak	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.

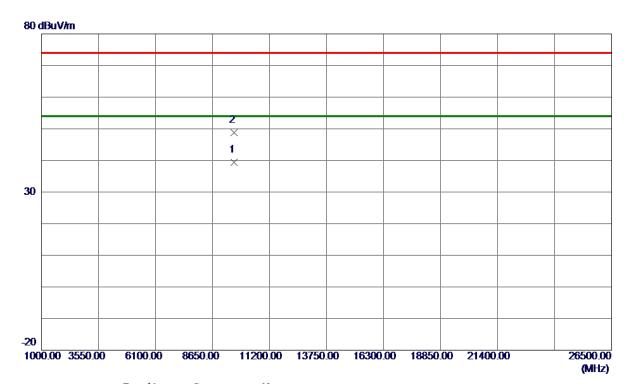




No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	38. 49	9. 95	48.44	74.00	-25. 56	Peak	
2	2390.0000	27.97	9. 95	37. 92	54.00	−16. 08	AVG	
3	2401. 5000	88. 00	9. 99	97. 99	74.00	23. 99	Peak	No Limit
4 *	2402. 0250	86. 33	9. 99	96. 32	54.00	42. 32	AVG	No Limit

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



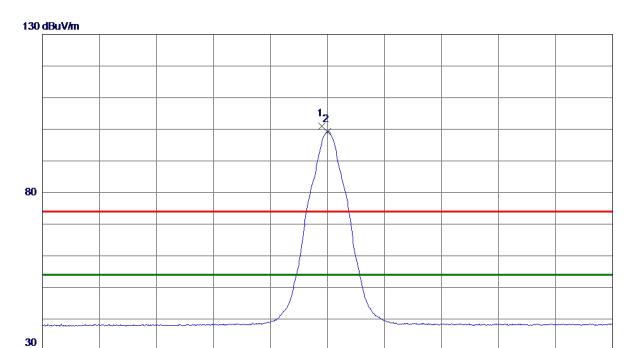


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	9608. 0279	26.41	13. 03	39.44	54.00	-14. 56	AVG	
2	9608. 1200	35. 86	13. 03	48. 89	74.00	-25. 11	Peak	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2439. 5250	90.83	10. 13	100.96	74.00	26. 96	Peak	No Limit
2 *	2440. 0000	89. 12	10. 13	99. 25	54.00	45. 25	AVG	No Limit

2440.00

2445.00

2450.00

2455.00

2465.00 (MHz)

REMARKS:

2415.00 2420.00

2425.00

2430.00

2435.00

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



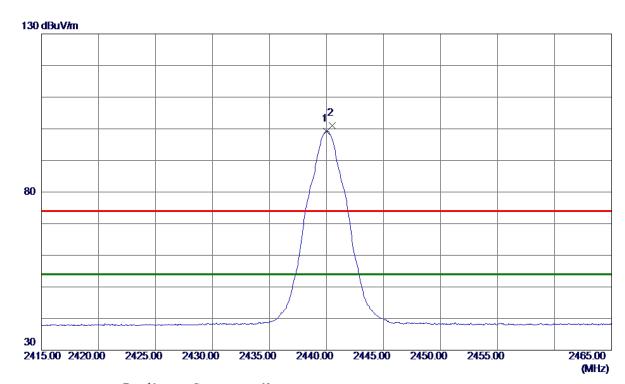
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	9759.8880	35. 44	13.02	48.46	74.00	-25. 54	Peak	
2 *	9759. 9170	24.72	13. 02	37.74	54.00	-16. 26	AVG	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.

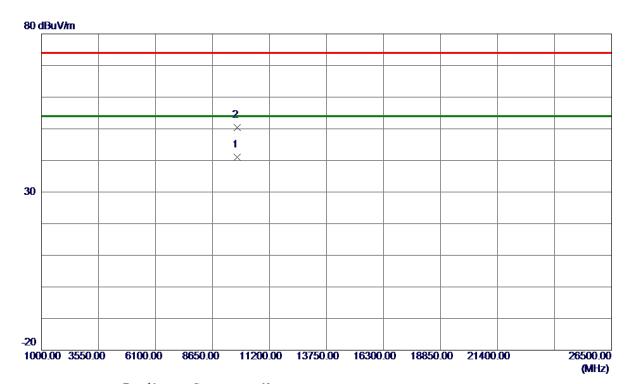




No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2440. 0250	89. 15	10. 13	99. 28	54.00	45. 28	AVG	No Limit
2	2440. 5250	90.88	10. 14	101.02	74.00	27. 02	Peak	No Limit

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



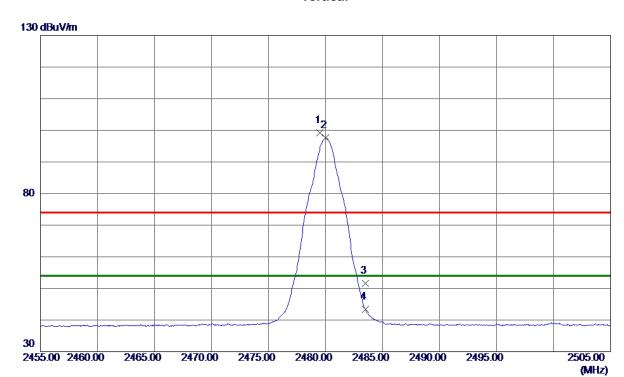


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	9759.9600	27.91	13.02	40.93	54.00	-13.07	AVG	
2	9760. 1080	37.40	13. 02	50.42	74.00	-23. 58	Peak	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Vertical

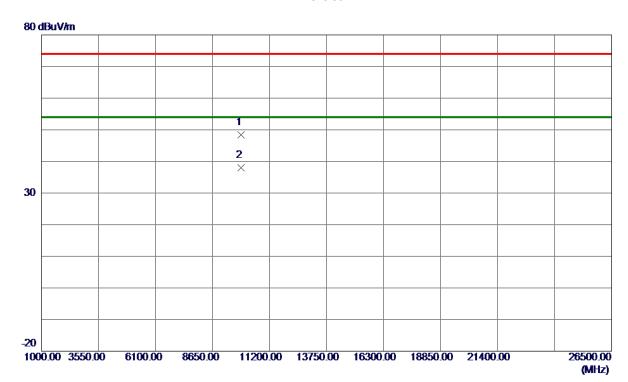


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2479. 5250	89.00	10. 28	99. 28	74.00	25. 28	Peak	No Limit
2 *	2480. 0250	87. 27	10. 28	97. 55	54.00	43. 55	AVG	No Limit
3	2483. 5000	41.34	10. 30	51.64	74.00	-22. 36	Peak	
4	2483. 5000	33. 08	10. 30	43. 38	54.00	-10.62	AVG	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



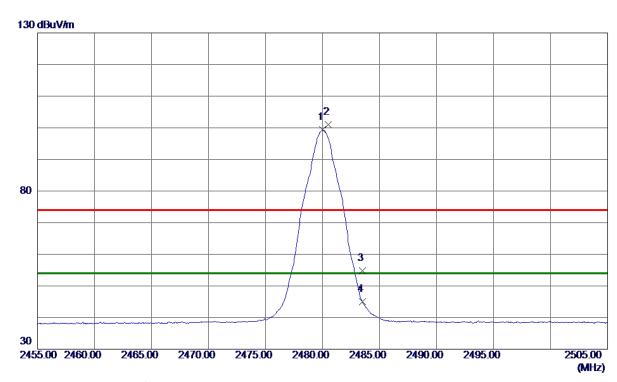
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	9919.7470	35. 45	13.01	48.46	74.00	-25.54	Peak	
2 *	9919. 9750	25. 04	13. 01	38. 05	54.00	−15. 95	AVG	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.





No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2480.0000	89. 03	10. 28	99. 31	54.00	45. 31	AVG	No Limit
2	2480. 4750	90.71	10. 29	101.00	74.00	27.00	Peak	No Limit
3	2483. 5000	44. 59	10. 30	54.89	74.00	-19. 11	Peak	
4	2483. 5000	34.77	10. 30	45. 07	54.00	-8. 93	AVG	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.





No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	9919.7600	33. 62	13. 01	46.63	74.00	-27.37	Peak	
2 *	9919. 9900	25. 50	13. 01	38. 51	54.00	-15. 49	AVG	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



APPENDIX E - BANDWIDTH



Test Mode: CH00, CH19, CH39 - 1Mbps

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Emission Bandwidth (MHz)	6 dB Bandwidth Min. Limit (kHz)	Test Result
00	2402	0.512	1.064	500	Pass
19	2440	0.504	1.056	500	Pass
39	2480	0.504	1.064	500	Pass



Test Mode: CH00, CH19, CH39 - 2Mbps

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Emission Bandwidth (MHz)	6 dB Bandwidth Min. Limit (kHz)	Test Result
00	2402	1.246	2.064	500	Pass
19	2440	1.252	2.072	500	Pass
39	2480	1.254	2.072	500	Pass





APPENDIX F - MAXIMUM OUTPUT POWER



Test Mode: CH00, CH19, CH39 - 1Mbps

Frequency (MHz)	Output Power (dBm)	Output Power (W)	Max. Limit (dBm)	Max. Limit (W)	Test Result
2402	9.84	0.0096	30.00	1.00	Pass
2440	9.86	0.0097	30.00	1.00	Pass
2480	10.40	0.0110	30.00	1.00	Pass

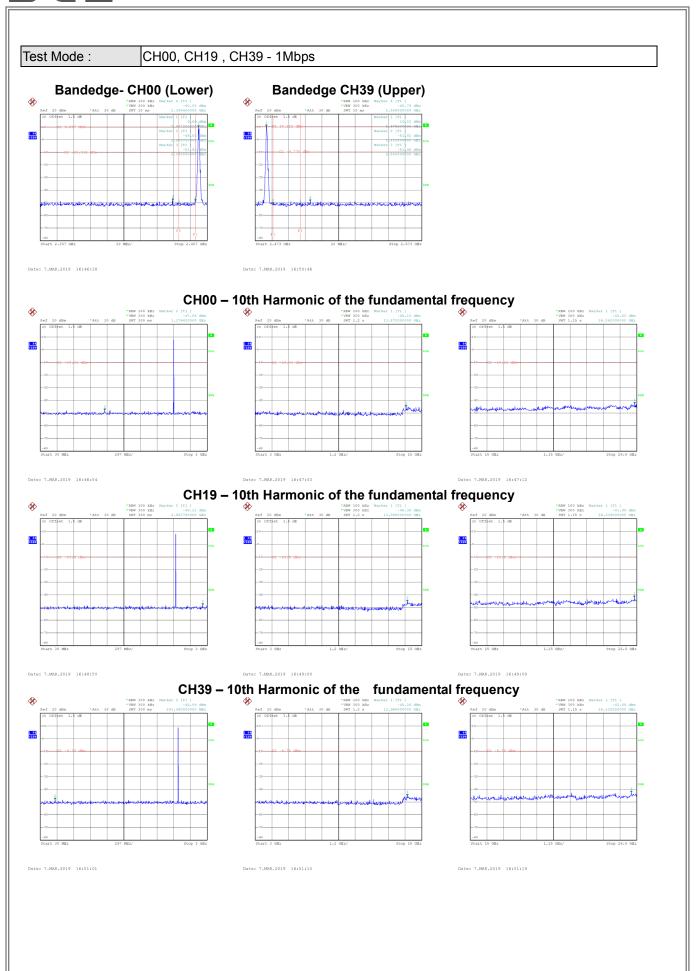
Test Mode: CH00, CH19, CH39 - 2Mbps

Frequency (MHz)	Output Power (dBm)	Output Power (W)	Max. Limit (dBm)	Max. Limit (W)	Test Result
2402	7.69	0.0059	30.00	1.00	Pass
2440	7.93	0.0062	30.00	1.00	Pass
2480	8.17	0.0066	30.00	1.00	Pass

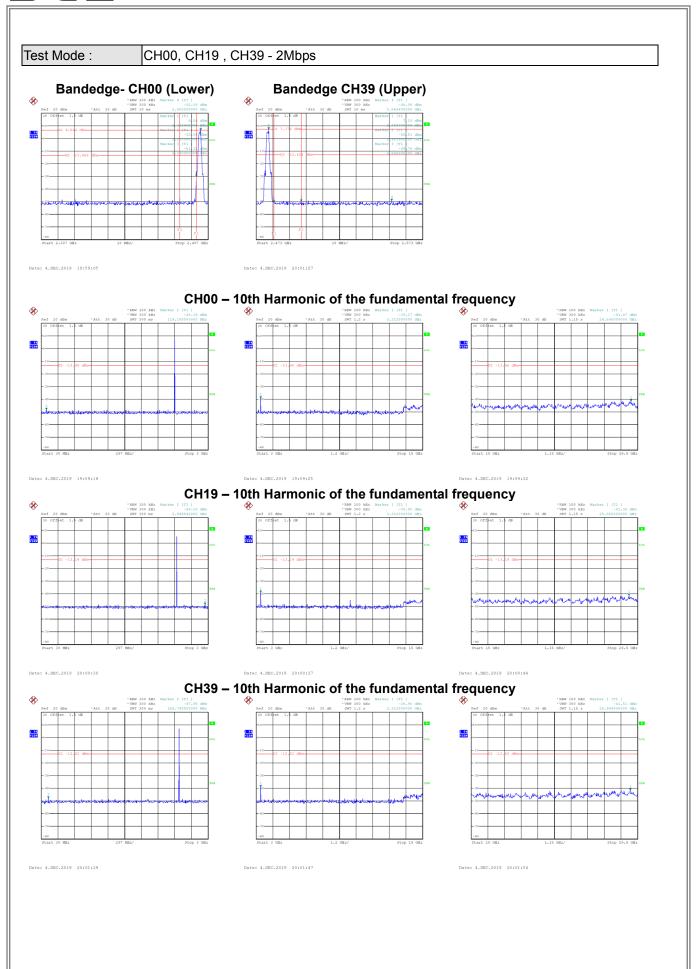


APPENDIX G - CONDUCTED SPURIOUS EMISSION











APPENDIX H - POWER SPECTRAL DENSITY



Test Mode: CH00, CH19, CH39 - 1Mbps

Channel	Frequency (MHz)	Power Spectral Density (dBm/3 kHz)	Max. Limit (dBm/3 kHz)	Test Result
00	2402	-10.29	8.00	Pass
19	2440	-10.40	8.00	Pass
39	2480	-9.67	8.00	Pass



Test Mode: CH00, CH19, CH39 - 2Mbps

Channel	Frequency (MHz)	Power Spectral Density (dBm/3 kHz)	Max. Limit (dBm/3 kHz)	Test Result
00	2402	-13.24	8.00	Pass
19	2440	-11.32	8.00	Pass
39	2480	-11.08	8.00	Pass



End of Test Report