

FCC Radio Test Report

FCC ID: 2AAGE5081SB4898W

This report concerns: Original Grant

Project No. : 2201H017
Equipment : Tablet
Brand Name : Vantron

Test Model : VT-TABLET-5081S

Series Model : N/A

Applicant: Chengdu Vantron Technology Co., Ltd.

Address: No.5 GaoPeng Road, Hi-Tech Zone, Chengdu, SiChuan, P.R. China

610045

Manufacturer : Chengdu Vantron Technology Co., Ltd.

Address : No.5 GaoPeng Road, Hi-Tech Zone, Chengdu, SiChuan, P.R. China

610045

Date of Receipt : Jan. 10, 2022

Date of Test : Jan. 24, 2022~Feb. 27, 2022

Issued Date : Apr. 01, 2022

Report Version : R01

Test Sample : Engineering Sample No.: SH2022012417 for EUT

Standard(s) : FCC CFR Title 47, Part 15, Subpart C

FCC KDB 558074 D01 15.247 Meas Guidance v05r02

ANSI C63.10-2013

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

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Hac-MRA



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Declaration

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BTL is not responsible for the sampling stage, so the results only apply to the sample as received.

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

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 in determining the Pass/Fail results.



Table of Contents	Page
REPORT ISSUED HISTORY	6
1 . SUMMARY OF TEST RESULTS	7
1.1 TEST FACILITY	8
1.2 MEASUREMENT UNCERTAINTY	8
1.3 TEST ENVIRONMENT CONDITIONS	9
2. GENERAL INFORMATION	10
2.1 GENERAL DESCRIPTION OF EUT	10
2.2 DESCRIPTION OF TEST MODES	12
2.3 PARAMETERS OF TEST SOFTWARE	13
2.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED	14
2.5 SUPPORT UNITS	14
3 . AC POWER LINE CONDUCTED EMISSIONS	15
3.1 LIMIT	15
3.2 TEST PROCEDURE	15
3.3 DEVIATION FROM TEST STANDARD	15
3.4 TEST SETUP	16
3.5 EUT OPERATING CONDITIONS	16
3.6 TEST RESULTS	16
4 . RADIATED EMISSIONS	17
4.1 LIMIT	17
4.2 TEST PROCEDURE	18
4.3 DEVIATION FROM TEST STANDARD	19
4.4 TEST SETUP	19
4.5 EUT OPERATING CONDITIONS	20
4.6 TEST RESULT - 9 KHZ TO 30 MHZ	20
4.7 TEST RESULT - 30 MHZ TO 1000 MHZ	20
4.8 TEST RESULT - ABOVE 1000 MHZ	20
5 . BANDWIDTH	21
5.1 LIMIT	21
5.2 TEST PROCEDURE	21
5.3 DEVIATION FROM STANDARD	21
5.4 TEST SETUP	21



Table of Contents	Page
5.5 EUT OPERATION CONDITIONS	21
5.6 TEST RESULTS	21
6 . MAXIMUM OUTPUT POWER & E.I.R.P.	22
6.1 LIMIT	22
6.2 TEST PROCEDURE	22
6.3 DEVIATION FROM STANDARD	22
6.4 TEST SETUP	22
6.5 EUT OPERATION CONDITIONS	22
6.6 TEST RESULTS	22
7 . CONDUCTED SPURIOUS EMISSION	23
7.1 LIMIT	23
7.2 TEST PROCEDURE	23
7.3 DEVIATION FROM STANDARD	23
7.4 TEST SETUP	23
7.5 EUT OPERATION CONDITIONS	23
7.6 TEST RESULTS	23
8 . POWER SPECTRAL DENSITY	24
8.1 LIMIT	24
8.2 TEST PROCEDURE	24
8.3 DEVIATION FROM STANDARD	24
8.4 TEST SETUP	24
8.5 EUT OPERATION CONDITIONS	24
8.6 TEST RESULTS	24
9 . MEASUREMENT INSTRUMENTS LIST	25
10 . EUT TEST PHOTO	27
APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS	30
APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ	33
APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1000 MHZ	34
APPENDIX D - RADIATED EMISSION - ABOVE 1000 MHZ	37
APPENDIX E - BANDWIDTH	62
APPENDIX F - MAXIMUM OUTPUT POWER & E.I.R.P.	65



Table of Contents	Page
APPENDIX G - CONDUCTED SPURIOUS EMISSION	67
APPENDIX H - POWER SPECTRAL DENSITY	70



REPORT ISSUED HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-4-2201H017	R00	Original Issue.	Mar. 19, 2022	Invalid
BTL-FCCP-4-2201H017	R01	Updated the test model information.	Apr. 01, 2022	Valid



1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

FCC CFR Title 47, Part 15, Subpart C						
Standard(s) Section Test Item Test Result Judgment						
15.207	AC Power Line Conducted Emissions APPENDI		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. 29, Jintang Road, Tangzhen Industry Park, Pudong New Area, Shanghai 201210, China

BTL's Registration Number for FCC: 476765 BTL's Designation Number for FCC: CN1241 BTL's CAB Identifier for ISED: CN0043

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 test:

Test Site	Method	Measurement Frequency Range	U, (dB)
SH-C01	CISPR	150 kHz ~ 30 MHz	2.64

B. Radiated emissions test:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)
		9 KHz~30 MHz	•	2.16
		30 MHz~200 MHz	V	4.04
SH-CB02		30 MHz~200 MHz	Ι	2.90
	CICDD	200 MHz~1,000 MHz	V	3.76
	CISPR	200 MHz~1,000 MHz	Ι	3.82
		1GHz ~ 6GHz	ı	4.56
		6GHz ~ 18GHz	-	4.14
		18 ~ 26.5 GHz	-	3.48

C. Conducted test:

Parameter	U
Output Power	±0.95 dB
Occupied Channel Bandwidth	±3.8 %
Power Spectral Density	±0.86 dB
Conducted Spurious Emission	±2.71 dB
Temperature	±0.08 °C
Humidity	±1.5 %
Supply voltages	±0.3 %

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	15°C	38%	AC 120V/60Hz	Max Liu
Radiated Emissions-9 kHz to 30 MHz	24°C	58%	AC 120V/60Hz	Forest Li
Radiated Emissions-30 MHz to 1000 MHz	24°C	58%	AC 120V/60Hz	Forest Li
Radiated Emissions-Above 1000 MHz	24°C	58%	AC 120V/60Hz	Forest Li
Bandwidth	22.5°C	38%	AC 120V/60Hz	Danny Dang
Maximum Output Power	22.5°C	38%	AC 120V/60Hz	Danny Dang
Conducted Spurious Emission	22.5°C	38%	AC 120V/60Hz	Danny Dang
Power Spectral Density	22.5°C	38%	AC 120V/60Hz	Danny Dang



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Tablet
Brand Name	Vantron
Test Model	VT-TABLET-5081S
Series Model	N/A
Model Difference(s)	N/A
Software Version	V100R001.F0000-03
Hardware Version	V1.1
Power Source	DC power supply.
Power Rating	DC 5V/2A MAX.10W
Operation Frequency	2402 MHz ~ 2480 MHz
Modulation Type	GFSK
Bit Rate of Transmitter	1Mbps, 2Mbps
Max. Output Power	1Mbps: 9.81 dBm (0.0096 W)

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	Internal PIFA Antenna	N/A	2.2

Note:

The antenna gain is provided by the manufacturer.



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_1Mbps Channel 00/19/39	
Mode 2	TX Mode_2Mbps Channel 00/19/39	

Following mode(s) was (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 1 TX Mode_1Mbps Channel 19			

Radiated emissions test - Below 1GHz		
Final Test Mode	Description	
Mode 1 TX Mode_1Mbps Channel 19		

Radiated emissions test - Above 1GHz			
Final Test Mode Description			
Mode 1 TX Mode_1Mbps Channel 00/19/39			
Mode 2 TX Mode_2Mbps Channel 00/19/39			

Conducted test			
Final Test Mode Description			
Mode 1 TX Mode_1Mbps Channel 00/19/39			
Mode 2 TX Mode_2Mbps Channel 00/19/39			

Note:

(1) For AC power line conducted emissions and radiated emissions below 1 GHz test, the 1Mbps Channel 19 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.

Test Software Version	adb		
Frequency (MHz)	2402	2440	2480
1Mbps	AUTO	AUTO	AUTO
2Mbps	AUTO	AUTO	AUTO



2.4 BLOCK DIAGRA	I SHOWING THE CONFIGURATION OF SYSTEM TESTED	
	EUT	

2.5 SUPPORT UNITS

Item	Cable Type	Shielded Type	Ferrite Core	Length
N/A	N/A	N/A	N/A	N/A



3. AC POWER LINE CONDUCTED EMISSIONS

3.1 LIMIT

Frequency of Emission (MHz)	Limit (dl	ΒμV)
Frequency of Emission (Miriz)	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.

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.

The following table is the setting of the receiver:

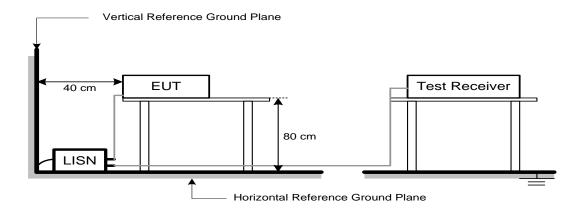
Receiver Parameters	Setting	
Start Frequency	0.15 MHz	
Stop Frequency	30 MHz	
IF Bandwidth	9 kHz	

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 EMISSIONS

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)

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

Note:

- (1) The limit for radiated test was performed according to FCC CFR Title 47, Part 15, Subpart C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).



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.

The following table is the setting of the receiver:

Spectrum Parameters	Setting	
Start ~ Stop Frequency	9 kHz~150 kHz for RBW 200 Hz	
Start ~ Stop Frequency	0.15 MHz~30 MHz for RBW 9 kHz	
Start ~ Stop Frequency	30 MHz~1000 MHz for RBW 100 kHz	

Spectrum Parameters	Setting	
Start Frequency	1000 MHz	
Stop Frequency	10th carrier harmonic	
RBW / VBW	1 MHz / 3 MHz for PK value	
(Emission in restricted band)	1 MHz / 1/T Hz for AVG value	

Spectrum Parameters	Setting	
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	
Start ~ Stop Frequency	1 GHz~26.5 GHz for PK/AVG detector	

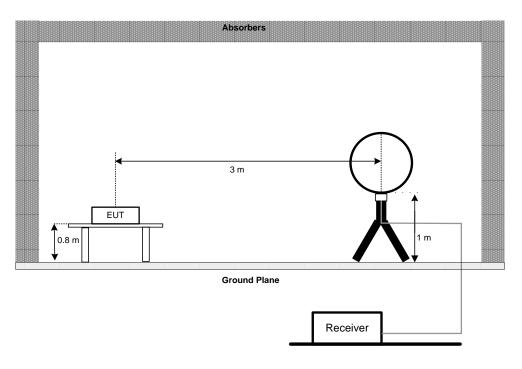


4.3 DEVIATION FROM TEST STANDARD

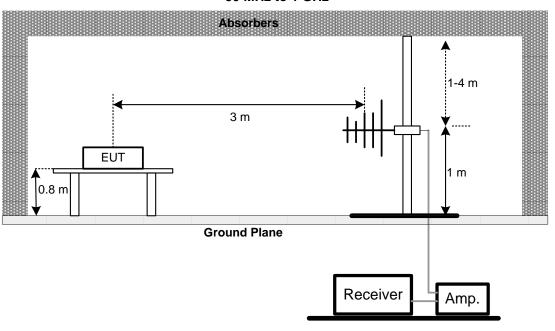
No deviation.

4.4 TEST SETUP

9 kHz to 30 MHz

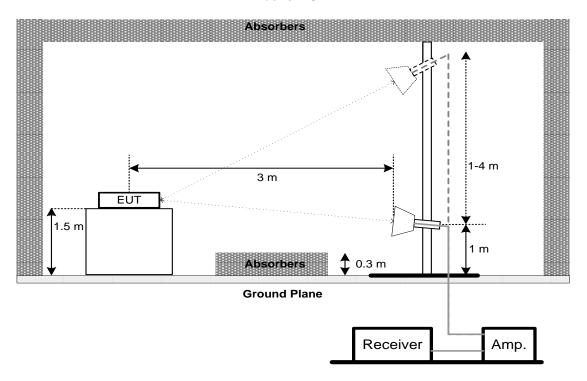


30 MHz to 1 GHz





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

5.1 LIMIT

Section	Test Item	Limit
	6 dB Bandwidth	>= 500 kHz
FCC 15.247(a)(2)	99% Emission 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. The following table is the setting of the spectrum analyzer:

For 6 dB Bandwidth:

Setting			
> Measurement Bandwidth			
100 kHz			
300 kHz			
Peak			
Max Hold			
Auto			

For 99% Emission Bandwidth:

1 Of 93 / Emission Bandwidth.				
Spectrum Parameters	ters Setting			
Span Frequency	Between 1.5 times and 5.0 times the OBW			
RBW	30 kHz			
VBW	100 kHz			
Detector	Peak			
Trace	Max Hold			
Sweep Time	Auto			

5.3 DEVIATION FROM STANDARD

No deviation.

5.4 TEST SETUP



5.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

5.6 TEST RESULTS

Please refer to the APPENDIX E.



6. MAXIMUM OUTPUT POWER

6.1 LIMIT

Section	Test Item	Limit	
FCC 15.247(b)(3)	Maximum Output Power	1.0000 watt or 30.00 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 following table is the setting of the spectrum analyzer:

Spectrum Parameters	Setting			
Span Frequency	≥ 3×RBW			
RBW	3 MHz			
VBW	3 MHz			
Detector	Peak			
Trace	Max Hold			
Sweep Time	Auto			

6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP



6.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

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. The following table is the setting of the spectrum analyzer:

Spectrum Parameters	Setting
Start Frequency	30 MHz
Stop Frequency	26.5 GHz
RBW	100 kHz
VBW	300 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

7.3 DEVIATION FROM STANDARD

No deviation.

7.4 TEST SETUP



7.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

7.6 TEST RESULTS

Please refer to the APPENDIX G.



8. POWER SPECTRAL DENSITY

8.1 LIMIT

Section	Test Item	Limit
FCC 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. The following table is the setting of the spectrum analyzer:

Spectrum Parameters	Setting			
Span Frequency	2 MHz (1 Mbps) / 4 MHz (2 Mbps)			
RBW	3 kHz			
VBW	10 kHz			
Detector	Peak			
Trace	Max Hold			
Sweep Time	Auto			

8.3 DEVIATION FROM STANDARD

No deviation.

8.4 TEST SETUP



8.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

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	Line Impedance Stabilisation Network	Schwarzbeck	NNLK 8121	8121-822	Mar. 20, 2022	
2	TWO-LINE V-NETWORK	R&S	ENV216	101340	Aug. 23, 2022	
3	Test Cable	emci	EMCRG400-BM-N M-10000	170628	April. 11, 2022	
4	EMI Test Receiver	R&S	ESCI	100082	Mar. 21, 2022	
5	50Ω Terminator	SHX	TF2-1G-A	17051602	Mar. 20, 2022	
6	50Ω coaxial switch	Anritsu	MP59B	6201750902	Mar. 21, 2022	
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A	

	Radiated Emissions - 9 kHz to 30 MHz							
Item	N Kind of Equipment Manufacturer Type No. Serial No. Calibrated ur							
1	Loop Antenna	EMCI	EMCI LPA600	275	May. 20, 2022			
2	MXE EMI Receiver	Keysight	N9038A	MY56400088	Mar. 21, 2022			
3	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	TRILOG Broadband Antenna	Schwarzbeck	VULB 9160	9160-3233	Mar. 26, 2022			
2	Pre-Amplifier	emci	EMC9135	980401	Mar. 20, 2022			
3	MXE EMI Receiver	Keysight	N9038A	MY56400088	Mar. 21, 2022			
4	Test Cable	emci	EMC104-SM-SM-7 000	181020	Apr. 11, 2022			
5	Test Cable	emci	EMC104-SM-SM-2 500	170618	Apr. 11, 2022			
6	Test Cable emci		EMC104-SM-SM-8 00	170647	Apr. 11, 2022			
7	Measurement 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 Broadband Horn Antenna	Broadband Horn Schwarzbeck		9120D-1817	Mar. 26, 2022			
2	Pre-Amplifier	emci	EMC051845SE	980725	Aug. 23, 2022			
3	EXA Spectrum Analyzer	Keysight	N9010A	MY56480579	Mar. 21, 2022			
4			EMC104-SM-SM-7 000	181020	Apr. 11, 2022			
5	Test Cable emci		EMC104-SM-SM-2 500	170618	Apr. 11, 2022			
6	Test Cable	emci	EMC104-SM-SM-8 00	170647	Apr. 11, 2022			
7	Double-Ridged Waveguide Horn ETS-Lindgren Antenna		3116C	00203919	May 19, 2022			
9	Pre-Amplifier	emci	EMC184045B	980265	Apr. 11, 2022			
10	Test Cable	emci	EMC102-SM-SM-8 00	170335	Apr. 11, 2022			
11	Test Cable	emci	EMC102-KM-KM-2 500	170627	Apr. 11, 2022			
12	MXE EMI Receiver	Keysight	N9038A	MY5640088	Mar. 21, 2022			
13	Measurement		EZ-EMC Ver.NB-03A1-01	N/A	N/A			

Bandwidth							
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until		
1	Spectrum Analyzer	R&S	FSP40	100626	May 29, 2022		
2	Attenuator	JUK	ATT-2W6G-S-10	N/A	N/A		

Maximum Output Power								
Item	em Kind of Equipment Manufacturer Type No. Serial No. Calibrated u							
1	Peak Power Analyze	Keysight	8990B	MY51000507	Mar. 21, 2022			
2	Wideband Power Sensor	Keysight	N1923A	MY58310003	Mar. 21, 2022			
3	Attenuator	JUK	ATT-2W6G-S-10	N/A	N/A			

Antenna Conducted Spurious Emissions							
Item	em Kind of Equipment Manufacturer Type No. Serial No. Calil						
1	Spectrum Analyzer	R&S	FSP40	100626	May 29, 2022		
2	Attenuator	JUK	ATT-2W6G-S-10	N/A	N/A		

	Power Spectral Density							
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until			
1	Spectrum Analyzer R&S		FSP40	100626	May 29, 2022			
2 Attenuator		JUK	ATT-2W6G-S-10	N/A	N/A			

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

All calibration period of equipment list is one year.



10. EUT TEST PHOTO

AC Power Line Conducted Emissions Test Photos

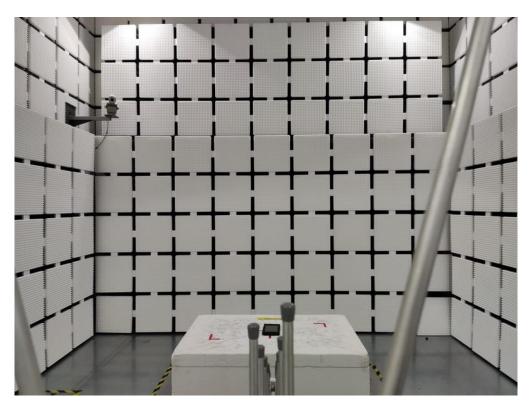


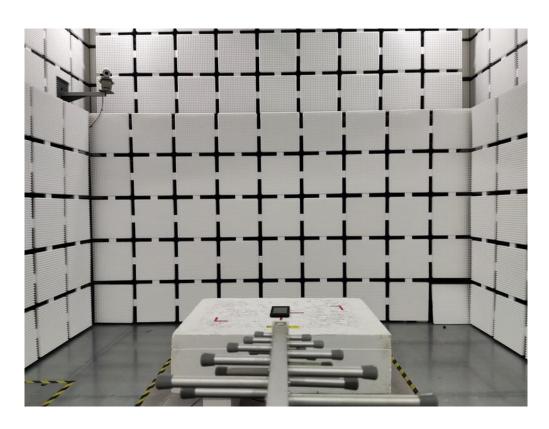




Radiated Emissions Test Photos

30 MHz to 1 GHz



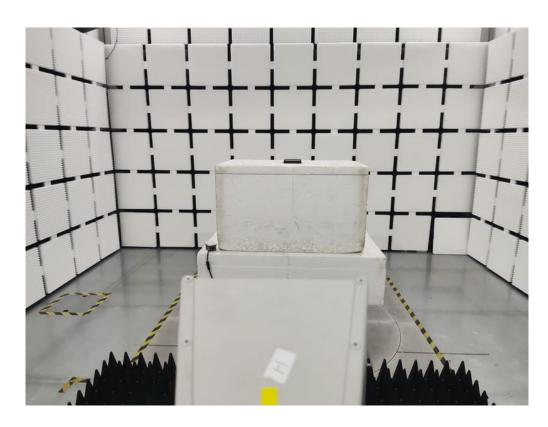




Radiated Emissions Test Photos

Above 1 GHz



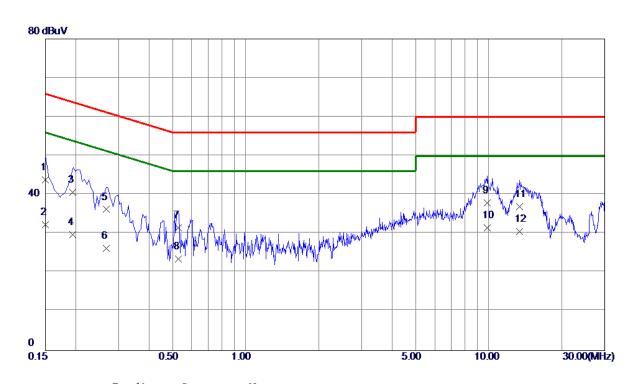




APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS





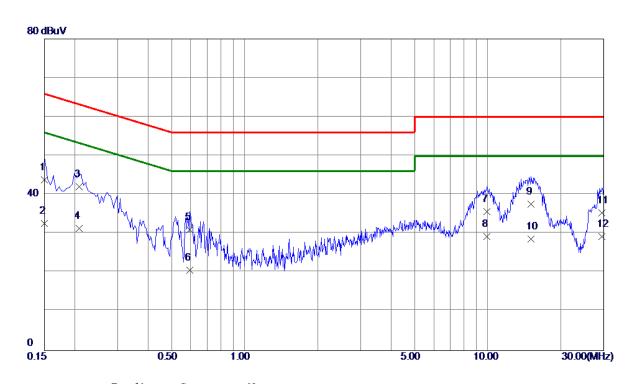


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1500	34. 20	9.65	43.85	66.00	-22. 15	QP	
2	0.1500	22.60	9.65	32. 25	56.00	-23.75	AVG	
3	0. 1949	31.00	9. 70	40.70	63.83	-23. 13	QP	
4	0. 1949	20.00	9.70	29.70	53.83	-24. 13	AVG	
5	0.2670	26. 51	9.73	36. 24	61. 21	-24.97	QP	
6	0. 2670	16. 51	9. 73	26. 24	51. 21	-24.97	AVG	
7	0. 5280	21.70	9. 78	31.48	56.00	-24.52	QP	
8	0. 5280	13.70	9. 78	23.48	46.00	-22. 52	AVG	
9	9.8835	27.70	10. 26	37. 96	60.00	-22.04	QP	
10 *	9. 8835	21. 20	10. 26	31.46	50.00	-18. 54	AVG	
11	13. 4070	26. 69	10. 23	36. 92	60.00	-23 . 0 8	QP	
12	13. 4070	20. 39	10. 23	30. 62	50.00	-19. 38	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	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1500	34.30	9.60	43.90	66.00	-22. 10	QP	
2	0.1500	23. 10	9. 60	32.70	56.00	-23.30	AVG	
3	0. 2085	32. 50	9. 51	42.01	63. 26	-21. 25	QP	
4	0.2085	21.90	9. 51	31.41	53. 26	-21.85	AVG	
5	0. 5955	21. 20	9. 78	30. 98	56.00	-25.02	QP	
6	0. 5955	10.90	9. 78	20.68	46.00	-25. 32	AVG	
7	9. 9285	25. 30	10. 36	35. 66	60.00	-24.34	QP	
8 *	9. 9285	18. 90	10. 36	29. 26	50.00	-20.74	AVG	
9	15. 0945	27.00	10. 53	37. 53	60.00	-22.47	QP	
10	15. 0945	18. 10	10. 53	28. 63	50.00	-21. 37	AVG	
11	29.4630	24.60	10.76	35. 36	60.00	-24.64	QP	
12	29. 4630	18. 50	10.76	29. 26	50.00	-20.74	AVG	

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

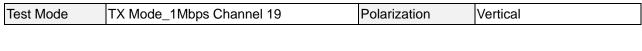


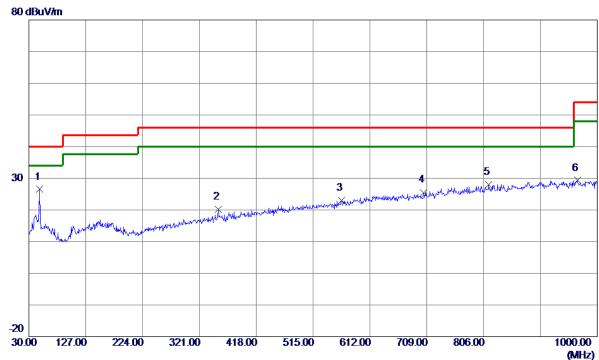
<u> </u>	Report No.: BTL-FCCP-4-2201H01				
ADDENDIN D. DADIATED					
APPENDIX B - RADIATED	EMISSION - 9 KHZ TO 30 MHZ				
Note: The measured value have enough margin	over 20dB than the limit, therefore they are not reported.				



APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1000	0 MHZ





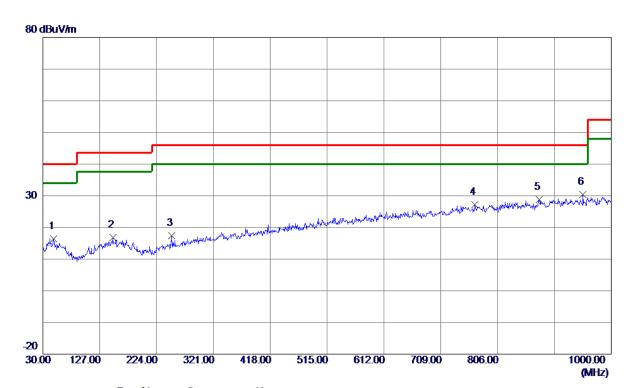


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	48. 4300	43.80	-17.30	26. 50	40.00	-13.50	Peak	
2	353.0100	34.00	-13.87	20. 13	46.00	-25.87	Peak	
3	563. 5000	32. 39	-9.45	22.94	46.00	-23.06	Peak	
4	703. 6650	32. 87	-7. 37	25. 50	46.00	-20. 50	Peak	
5	814. 7300	33. 78	-5.74	28. 04	46.00	-17. 96	Peak	
6	966. 0500	33. 44	-4.14	29. 30	54.00	-24.70	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	48. 4300	33. 76	-17.30	16. 46	40.00	-23.54	Peak	
2	149. 7950	32. 83	-16. 05	16. 78	43.50	-26.72	Peak	
3	250. 1900	33. 87	-16. 56	17. 31	46.00	-28.69	Peak	
4	767.6850	33. 17	-6. 05	27. 12	46.00	-18.88	Peak	
5	877. 2950	33.72	-4.88	28.84	46.00	-17. 16	Peak	
6 *	951. 9850	34.68	-4.34	30. 34	46.00	-15.66	Peak	

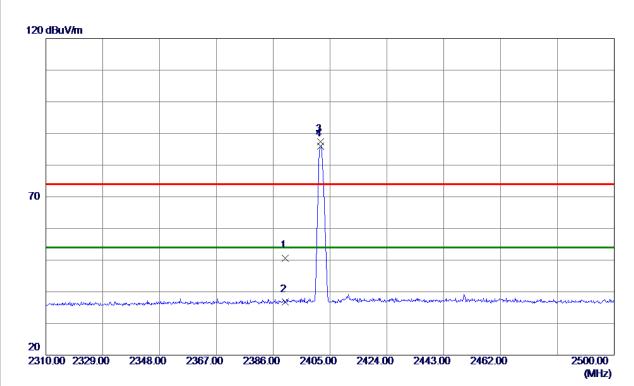
- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



APPENDIX D - RADIATED EMISSION - ABOVE 1000 MHZ





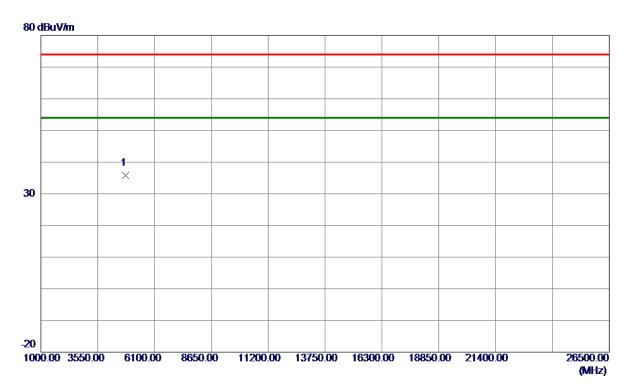


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390. 0000	24.46	26. 24	50.70	74.00	-23. 30	Peak	
2	2390. 0000	10. 50	26. 24	36. 74	54.00	-17. 26	AVG	
3	2401.8650	61. 18	26. 28	87.46	74.00	13.46	Peak	NO limit
4 *	2401.8650	59. 74	26. 28	86. 02	54.00	32. 02	AVG	NO limit

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





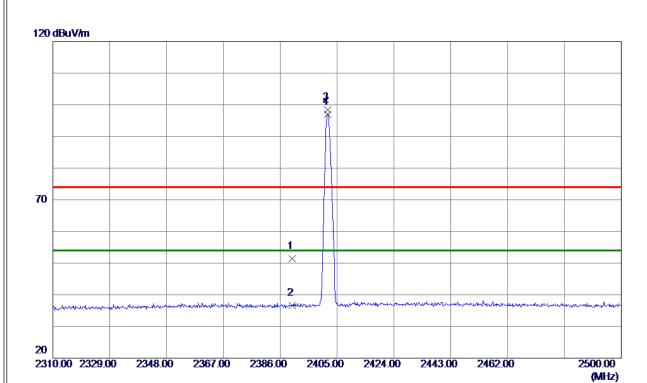


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin			
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1 *	4804, 000	0 53, 09	-17. 27	35, 82	74. 00	-38, 18	Peak		

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



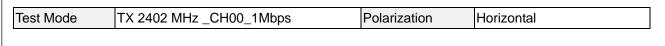
-				
	Test Mode	TX 2402 MHz _CH00_1Mbps	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	25. 14	26. 24	51. 38	74.00	-22.62	Peak	
2	2390.0000	10. 28	26. 24	36. 52	54.00	-17.48	AVG	
3	2401.8650	72.06	26. 28	98. 34	74.00	24. 34	Peak	NO limit
4 *	2401.8650	70. 78	26. 28	97.06	54.00	43.06	AVG	NO limit

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





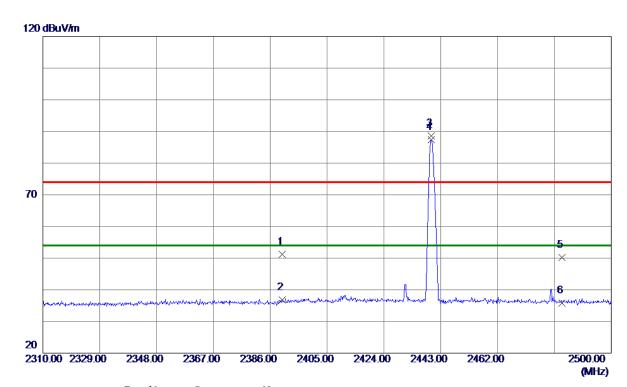


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin			
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1 *	4804. 0000	53. 60	-17.27	36. 33	74.00	-37. 67	Peak		

- (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	25. 02	26. 24	51. 26	74.00	-22.74	Peak	
2	2390.0000	10. 55	26. 24	36. 79	54.00	-17. 21	AVG	
3	2439.7700	62. 11	26. 40	88. 51	74.00	14.51	Peak	NO limit
4 *	2439.7700	61.05	26. 40	87.45	54.00	33. 45	AVG	NO limit
5	2483. 5000	23.65	26. 55	50. 20	74.00	-23.80	Peak	
6	2483. 5000	9. 22	26. 55	35. 77	54.00	-18. 23	AVG	

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





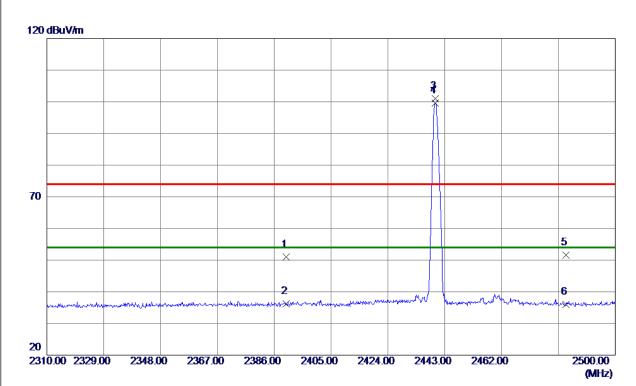


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin			
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1 *	4880 0000	0 53 35	-16 98	36 37	74 00	-37 63	Peak		

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



٦	est Mode	TX 2440 MHz	CH19_1Mbps	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	24.67	26. 24	50. 91	74.00	-23.09	Peak	
2	2390.0000	9. 95	26. 24	36. 19	54.00	-17.81	AVG	
3	2439.8650	74.70	26. 40	101. 10	74.00	27. 10	Peak	NO limit
4 *	2439.8650	73. 21	26. 40	99.61	54.00	45.61	AVG	NO limit
5	2483. 5000	25. 02	26. 55	51. 57	74.00	-22.43	Peak	
6	2483. 5000	9. 41	26. 55	35. 96	54.00	-18.04	AVG	

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





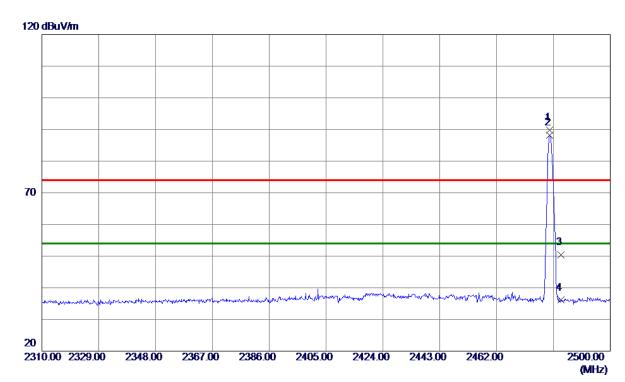


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin			
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1 *	4880, 0000	52, 72	-16, 98	35, 74	74. 00	-38, 26	Peak		

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





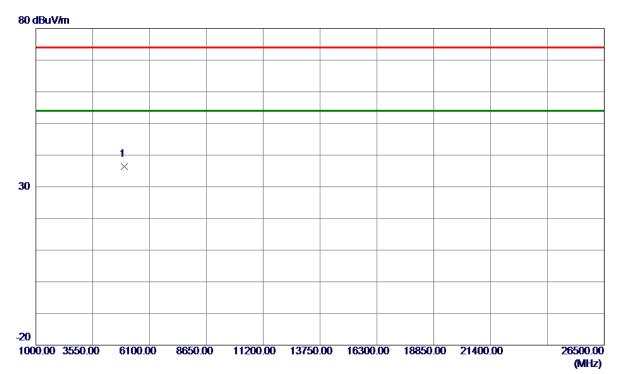


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2479.6700	63. 32	26. 53	89.85	74.00	15.85	Peak	NO limit
2 *	2479.6700	61.65	26. 53	88. 18	54.00	34. 18	AVG	NO limit
3	2483. 5000	23. 93	26. 55	50. 48	74.00	-23. 52	Peak	
4	2483. 5000	9. 55	26. 55	36. 10	54.00	-17. 90	AVG	

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





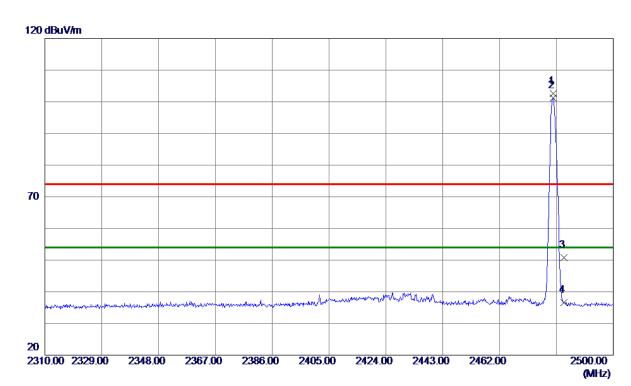


No.	Freq.	Reading Level	Correct Factor	$_{\tt Measure}^{\tt Measure}$	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4960.0000	53. 07	-16. 68	36. 39	74.00	-37.61	Peak	

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





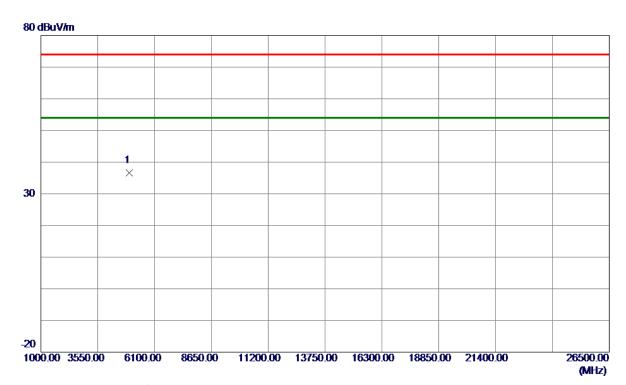


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2479.8600	76.06	26. 53	102. 59	74.00	28. 59	Peak	NO limit
2 *	2479.8600	74.60	26. 53	101. 13	54.00	47.13	AVG	NO limit
3	2483. 5000	24. 33	26. 55	50.88	74.00	-23. 12	Peak	
4	2483. 5000	10. 05	26. 55	36. 60	54.00	-17. 40	AVG	

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





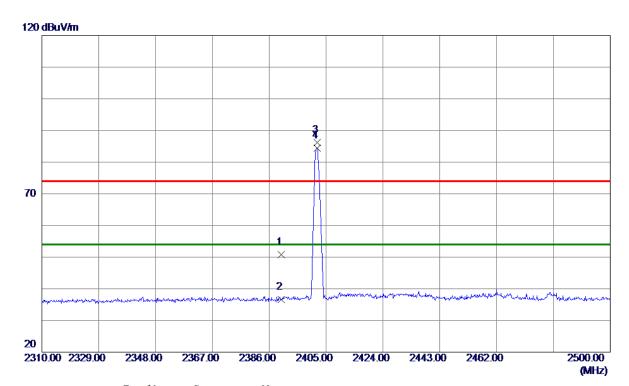


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin			
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1 *	4960, 000	0 53, 22	-16, 68	36, 54	74. 00	-37, 46	Peak		

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





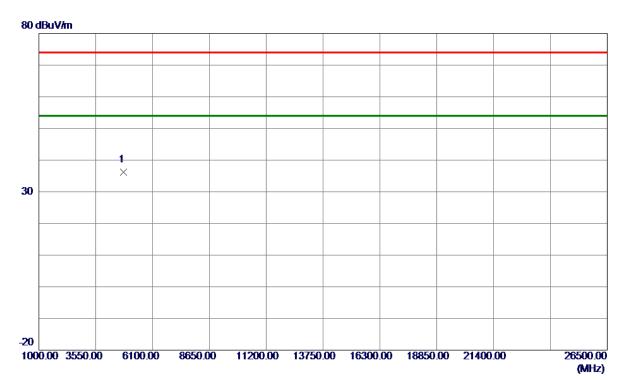


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	24.47	26. 24	50.71	74.00	-23. 29	Peak	
2	2390.0000	10.42	26. 24	36. 66	54.00	-17.34	AVG	
3	2402.0550	59.87	26. 28	86. 15	74.00	12. 15	Peak	NO limit
4 *	2402. 0550	58. 18	26. 28	84. 46	54.00	30. 46	AVG	NO limit

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





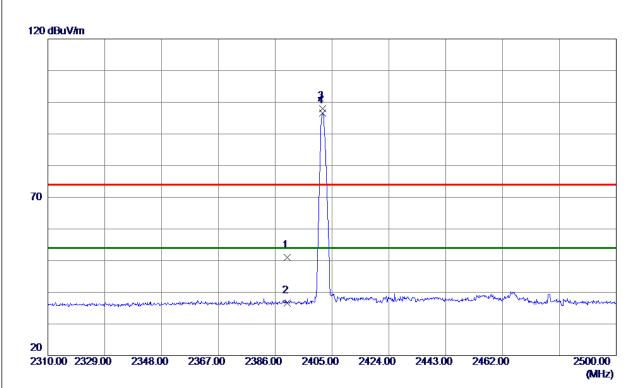


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4804.0000	53. 54	-17.27	36. 27	74.00	-37.73	Peak	

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





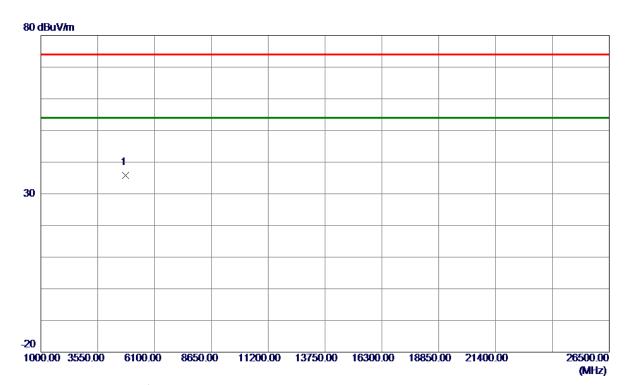


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	24.69	26. 24	50. 93	74.00	-23.07	Peak	
2	2390.0000	10. 32	26. 24	36. 56	54.00	-17.44	AVG	
3	2401.8650	71.80	26. 28	98. 08	74.00	24.08	Peak	NO limit
4 *	2401.8650	70. 32	26. 28	96. 60	54.00	42.60	AVG	NO limit

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





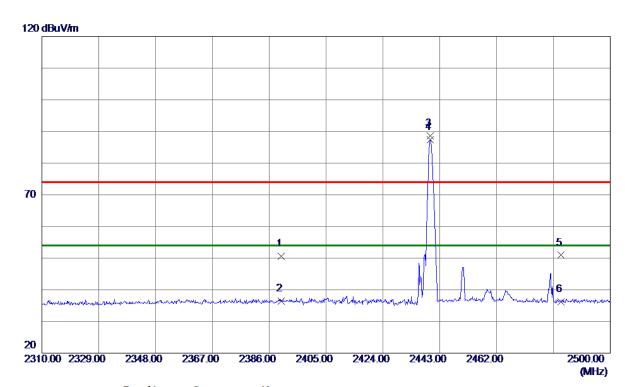


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin			
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1 *	4804, 000	0 53, 17	-17, 27	35, 90	74.00	-38, 10	Peak		

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





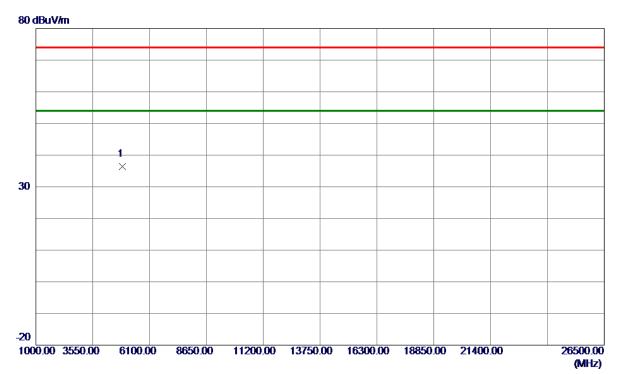


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	24. 37	26. 24	50.61	74.00	-23. 39	Peak	
2	2390.0000	10. 25	26. 24	36. 49	54.00	-17.51	AVG	
3	2439.8650	62. 27	26. 40	88. 67	74.00	14.67	Peak	NO limit
4 *	2439.8650	60. 98	26. 40	87. 38	54.00	33. 38	AVG	NO limit
5	2483. 5000	24. 35	26. 55	50. 90	74.00	-23. 10	Peak	
6	2483. 5000	9. 57	26. 55	36. 12	54.00	-17.88	AVG	

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





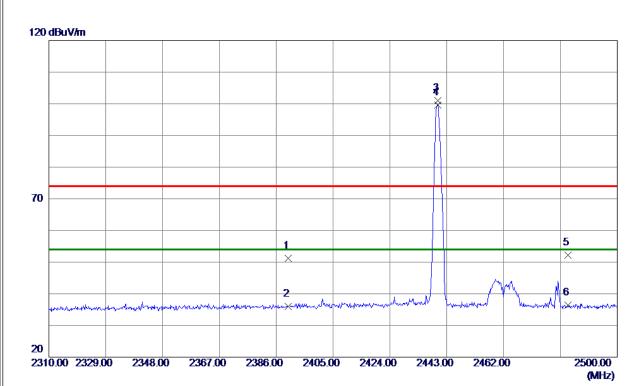


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin			
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1 *	4880 0000	0 53 40	-16 98	36 42	74 00	-37 58	Peak		

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





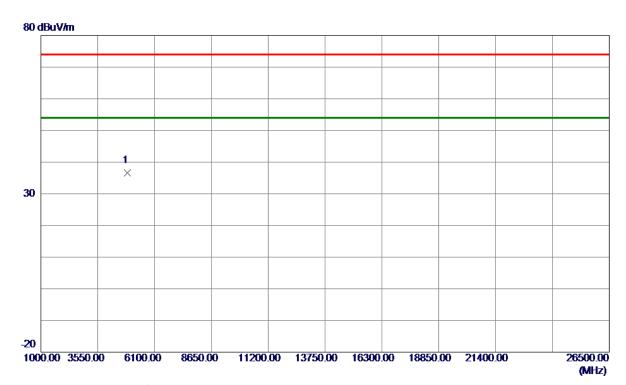


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	25.00	26. 24	51. 24	74.00	-22.76	Peak	
2	2390.0000	9. 73	26. 24	35. 97	54.00	-18.03	AVG	
3	2439.9600	74.66	26. 40	101.06	74.00	27.06	Peak	NO limit
4 *	2439.9600	73. 21	26. 40	99. 61	54.00	45.61	AVG	NO limit
5	2483. 5000	25. 73	26. 55	52. 28	74.00	-21.72	Peak	
6	2483. 5000	9. 78	26. 55	36. 33	54.00	-17.67	AVG	

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





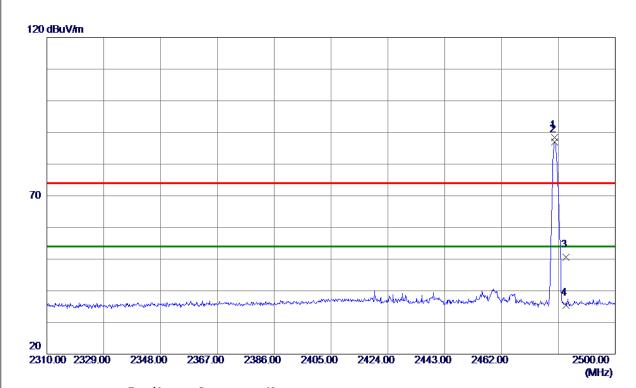


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4880, 0000	53, 66	-16, 98	36, 68	74.00	-37, 32	Peak	

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





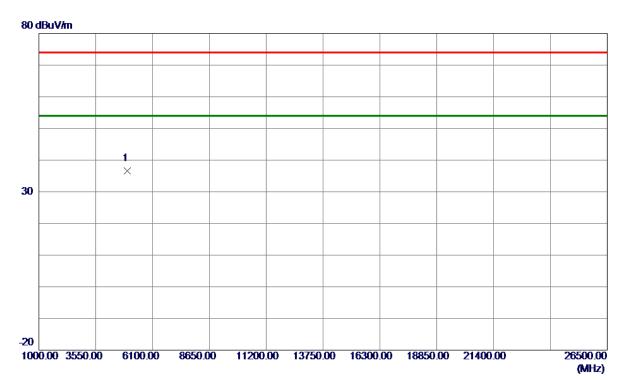


Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
2479. 7649	61. 79	26. 53	88. 32	74.00	14.32	Peak	NO limit
2479. 7649	60. 37	26. 53	86. 90	54.00	32. 90	AVG	NO limit
2483. 5000	24. 10	26. 55	50.65	74.00	-23. 35	Peak	
2483. 5000	8. 93	26. 55	35. 48	54.00	-18. 52	AVG	
	MHz 2479. 7649 2479. 7649 2483. 5000	Freq. Level	MHz dBuV/m dB 2479.7649 61.79 26.53 2479.7649 60.37 26.53 2483.5000 24.10 26.55	MHz dBuV/m dB dBuV/m 2479.7649 61.79 26.53 88.32 2479.7649 60.37 26.53 86.90 2483.5000 24.10 26.55 50.65	MHz dBuV/m dB dBuV/m dBuV/m 2479.7649 61.79 26.53 88.32 74.00 2479.7649 60.37 26.53 86.90 54.00 2483.5000 24.10 26.55 50.65 74.00	MHz dBuV/m dB dB	MHz dBuV/m dB dBuV/m dB uV/m dB uV/m </td

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





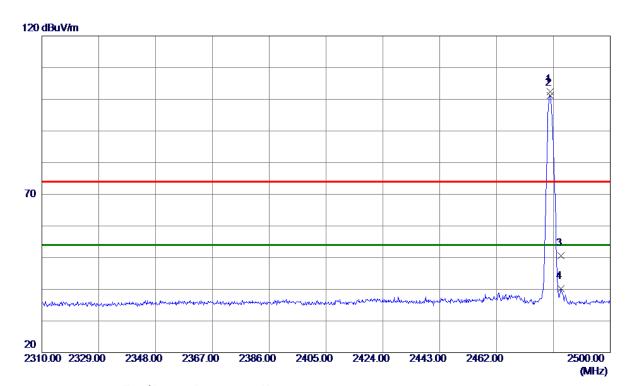


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4960.0000	53. 29	-16. 68	36. 61	74.00	-37.39	Peak	

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





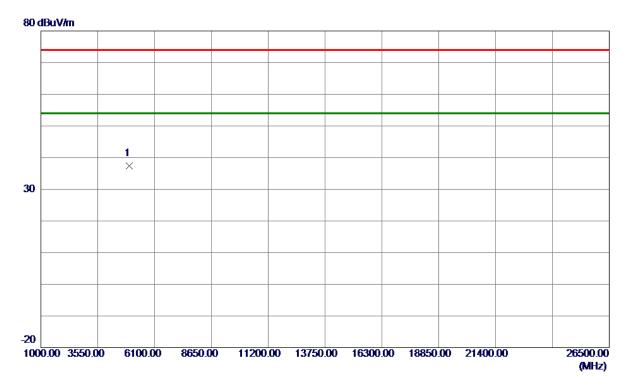


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2479.8600	75. 96	26. 53	102.49	74.00	28.49	Peak	NO limit
2 *	2479.8600	74.73	26. 53	101. 26	54.00	47. 26	AVG	NO limit
3	2483. 5000	23. 99	26. 55	50. 54	74.00	-23.46	Peak	
4	2483. 5000	13. 60	26. 55	40. 15	54.00	-13.85	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 *	4960, 0000	0 54. 02	-16, 68	37. 34	74. 00	-36, 66	Peak		

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

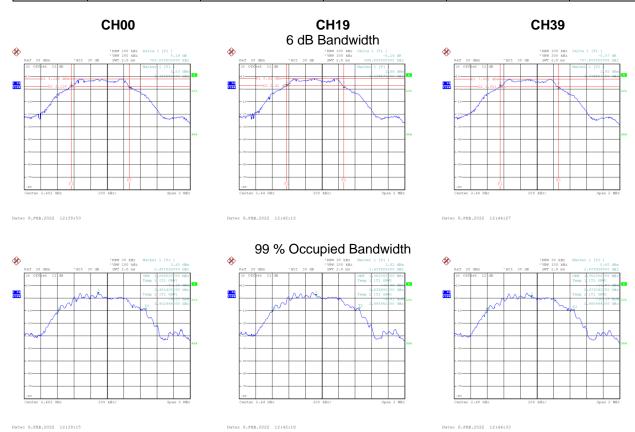


APPENDIX E - BANDWIDTH



	Test Mode	TX I	Mode _	1Mbi	os
ı	1001111040			~	\sim

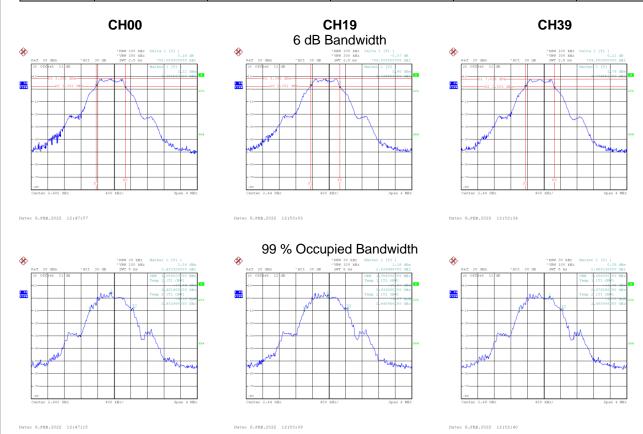
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Test Result
00	2402	0.700	1.056	0.5	Pass
19	2440	0.696	1.052	0.5	Pass
39	2480	0.708	1.052	0.5	Pass





	Test Mode	TX Mode _2Mbp	os.
ı	1000111000	17 1110 GO1110	

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Test Result
00	2402	0.706	1.056	0.5	Pass
19	2440	0.704	1.056	0.5	Pass
39	2480	0.704	1.056	0.5	Pass



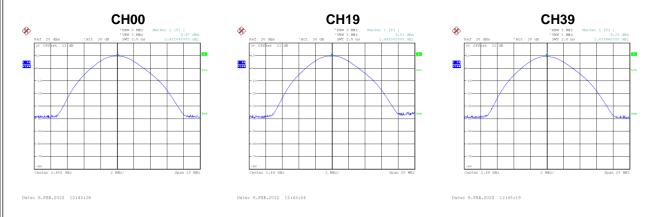


APPENDIX F - MAXIMUM OUTPUT POWER



Test Mode	TX Mode _1Mbps
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Frequency (MHz)	Output Power (dBm)	Output Power (W)	Max. Limit (dBm)	Max. Limit (W)	Test Result
2402	9.67	0.0093	30.00	1.0000	Pass
2440	9.81	0.0096	30.00	1.0000	Pass
2480	9.25	0.0084	30.00	1.0000	Pass



To at Marsia	TV Mada ONN-
Test Mode	TX Mode _2Mbps

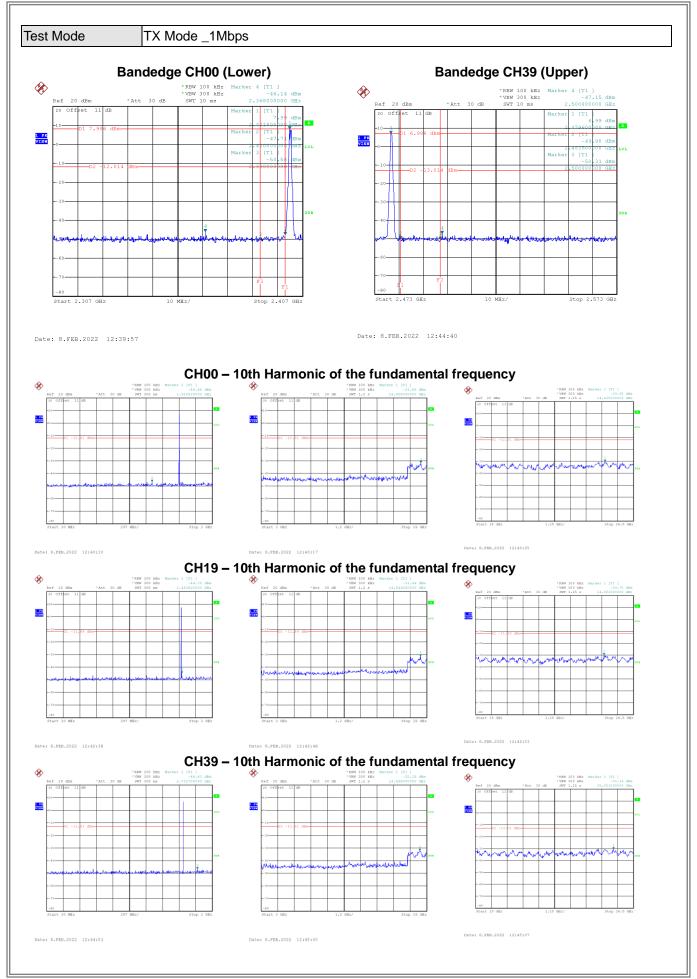
Frequency (MHz)	Output Power (dBm)	Output Power (W)	Max. Limit (dBm)	Max. Limit (W)	Test Result
2402	9.71	0.0094	30.00	1.0000	Pass
2440	9.78	0.0095	30.00	1.0000	Pass
2480	9.25	0.0084	30.00	1.0000	Pass



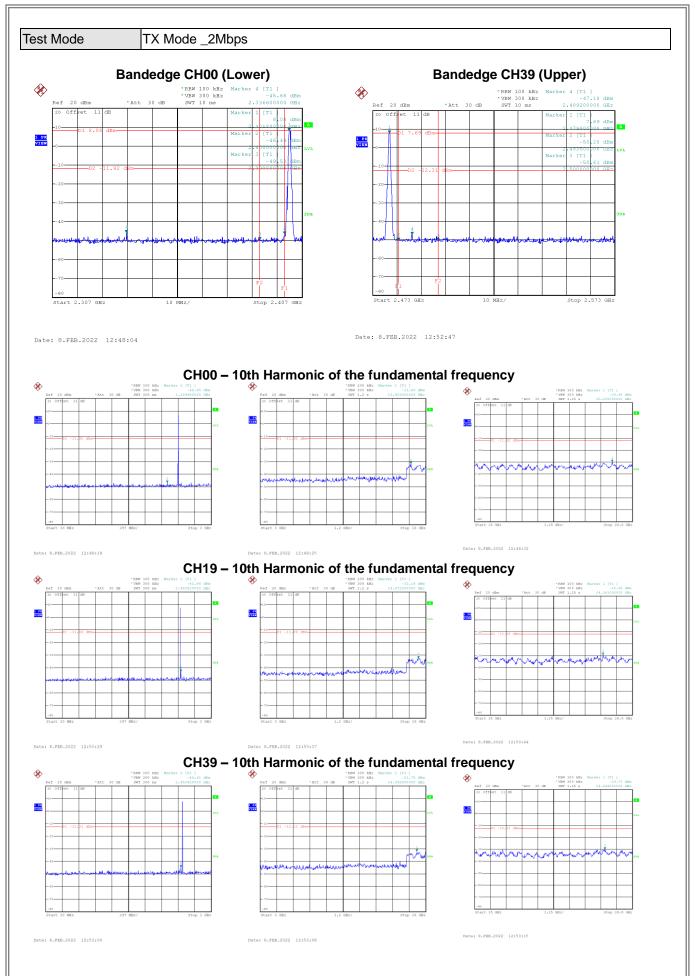


APPENDIX G - CONDUCTED SPURIOUS EMISSION		











APPENDIX H - POWER SPECTRAL DENSITY			



Test Mode	TX Mode _1Mbr	าร
163t Mode	LIV MODE TIME	JS

Channel	Frequency (MHz)	Power Spectral Density (dBm/3 kHz)	Max. Limit (dBm/3 kHz)	Test Result
00	2402	-6.55	8.00	Pass
19	2440	-6.75	8.00	Pass
39	2480	-6.99	8.00	Pass



Test Mode	TX Mode _2Mbps

Channel	Frequency (MHz)	Power Spectral Density (dBm/3 kHz)	Max. Limit (dBm/3 kHz)	Test Result
00	2402	-6.50	8.00	Pass
19	2440	-6.45	8.00	Pass
39	2480	-7.43	8.00	Pass



End of Test Report