

FCC Radio Test Report

FCC ID: 2APPZ-V67

This report concerns: Original Grant

Project No.	:	2108C114
Equipment	:	Smart Video Phone
Brand Name	:	Fanvil
Test Model	:	V67
Series Model	:	N/A
Applicant	:	Fanvil Technology Co., Ltd
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Date of Receipt	:	Aug. 13, 2021
Date of Test	:	Aug. 17, 2021 ~ Dec. 04, 2021
Issued Date	:	Dec. 17, 2021
Report Version	:	R00
Test Sample	:	Engineering Sample No.: DG20210816158 for conducted,
		DG20210816159 for radiated.
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.

reldon. (

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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.



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REPORT ISSUED HISTORY

Report Version	Description	Issued Date
R00	Original Issue.	Dec. 17, 2021

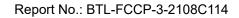
1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

FCC CFR Title 47, Part 15, Subpart C					
Standard(s) Section	Standard(s) Section Test Item Test Result				
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 Emissions	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 in this test report.(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 Rd. Shixia, Dalang Town, Dongguan City, Guangdong, People's Republic of China. BTL's 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 test:

Test Site	Method	od Measurement Frequency Range		
DG-C02	CISPR	150kHz ~ 30MHz	2.60	

B. Radiated emissions test:

Test Site	Method	Method Measurement Frequency Range		
DG-CB01	CISPR	9kHz ~ 30MHz	2.36	

Test Site	Method	Measurement Frequency Range	Ant. H / V	U,(dB)
DG-CB03 (3m)	CISPR	30MHz ~ 200MHz	V	4.36
		30MHz ~ 200MHz	Н	3.32
		200MHz ~ 1,000MHz	V	4.08
		200MHz ~ 1,000MHz	Н	3.96

Test Site	Method	Measurement Frequency Range	U,(dB)
DG-CB03 (3m)	CISPR	1GHz ~ 6GHz	3.80
	CISPR	6GHz ~ 18GHz	4.82

Test Site	Method Measurement Frequency Range		
DG-CB03 (1m)		18 ~ 26.5 GHz	3.62
	CISPR	26.5 ~ 40 GHz	4.00



C. Other Measurement:

Test Item	Uncertainty
Bandwidth	±3.8 %
Maximum Output Power	±0.95 dB
Conducted Spurious Emission	±2.71 dB
Power Spectral Density	±0.86 dB
Temperature	±0.08 °C
Humidity	±1.5%

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	23°C	65%	AC 120V/60Hz	Aries Tang
Radiated Emissions-9kHz to 30 MHz	25°C	60%	AC 120V/60Hz	Sparrow Liu
Radiated Emissions-30MHz to 1000MHz	22°C	47%	AC 120V/60Hz	Jakyri Wen
Radiated Emissions-Above 1000MHz	22°C	43%	AC 120V/60Hz	Hayden Chen
Bandwidth	25°C	36%	DC 12V	Longdage Feng
Maximum Output Power	24°C	47%	DC 12V	Jesse Wang
Conducted Spurious Emissions	25°C	36%	DC 12V	Longdage Feng
Power Spectral Density	25°C	36%	DC 12V	Longdage Feng

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Smart Video Phone		
Brand Name	Fanvil		
Test Model	V67		
Series Model	N/A		
Model Difference(s)	N/A		
Power Source	1# DC voltage supplied from AC adapter. Model: F18L16-120150SPAU 2# Supplied from PoE.		
Power Rating	1# I/P: 100-240V~ 50/60Hz 0.6A O/P: 12.0V === 1.5A 2# DC 48V		
Operation Frequency	2412 MHz ~ 2462 MHz		
Modulation Type	IEEE 802.11b: DSSS IEEE 802.11g: OFDM IEEE 802.11n: OFDM		
Bit Rate of Transmitter	IEEE 802.11b: 11/5.5/2/1 Mbps IEEE 802.11g: 54/48/36/24/18/12/9/6 Mbps IEEE 802.11n: up to 72.2 Mbps		
Maximum Output Power	IEEE 802.11g: 17.49 dBm (0.0561 W)		

Note:

3

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

2. Channel List:

CH01 - CH11 for IEEE 802.11b, IEEE 802.11g, IEEE 802.11n(HT20)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	04	2427	07	2442	10	2457
02	2417	05	2432	08	2447	11	2462
03	2422	06	2437	09	2452		

3. Antenna Specification:

Ant.	Brand	P/N	Antenna Type	Connector	Gain (dBi)
1	Dongguan YiJia Electronics Communication Technology Co.,Ltd.	YJL01.106.020. 301A	FPC	IPEX	3.0

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 B Mode Channel 01/06/11
Mode 2	TX G Mode Channel 01/06/11
Mode 3	TX N(HT20) Mode Channel 01/06/11
Mode 4	TX G Mode Channel 06

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 4	TX G Mode Channel 06		

Radiated emissions test - Below 1GHz			
Final Test Mode	Description		
Mode 4	TX G Mode Channel 06		

Radiated emissions test- Above 1GHz		
Final Test Mode	Description	
Mode 1	TX B Mode Channel 01/06/11	
Mode 2	TX G Mode Channel 01/06/11	
Mode 3	TX N(HT20) Mode Channel 01/06/11	



Conducted test		
Final Test Mode	Description	
Mode 1	TX B Mode Channel 01/06/11	
Mode 2	TX G Mode Channel 01/06/11	
Mode 3	TX N(HT20) Mode Channel 01/06/11	

NOTE:

- (1) All the bit rate of transmitter have been tested and found the lowest rate is found to be the worst case and recorded.
- (2) For AC power line conducted emissions and radiated emission below 1 GHz test, the TX G Mode Channel 06 is found to be the worst case and recorded.
- (3) For radiated emission above 1 GHz test, the spurious points of 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.
- (4) For radiated emission test, every axis (X, Y, Z) are verified. The test results shown in the following sections represent the worst case emissions.

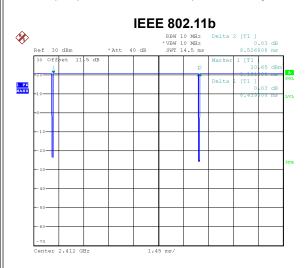
2.3 PARAMETERS OF TEST SOFTWARE

Test Software Version	ADB		
Frequency (MHz)	2412	2437	2462
IEEE 802.11b	16	16	15
IEEE 802.11g	11	17	12
IEEE 802.11n(HT20)	12	17	13



2.4 DUTY CYCLE

If duty cycle is \geq 98 %, duty factor is not required. If duty cycle is < 98 %, duty factor shall be considered. The output power = measured power + duty factor.



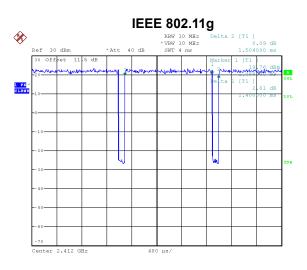
Date: 11.NOV.2021 14:36:02

Duty cycle = 8.439 ms / 8.526 ms = 98.98% Duty Factor = 10 log(1/Duty cycle) = 0.00

EEE 802.11n(HT20)

Date: 11.NOV.2021 14:37:14

Duty cycle = 1.320 ms / 1.420 ms = 92.96% Duty Factor = 10 log(1/Duty cycle) = 0.32



Date: 11.NOV.2021 14:36:41

Duty cycle = 1.400 ms / 1.504 ms = 93.09% Duty Factor = 10 log(1/Duty cycle) = 0.31



NOTE:

For IEEE 802.11b:

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 1 kHz.

For IEEE 802.11g:

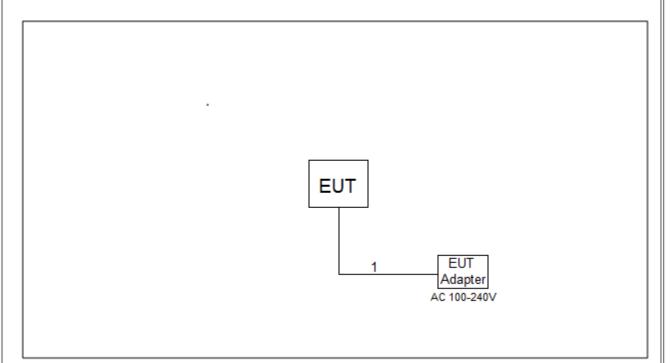
For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 714 Hz.

For IEEE 802.11n(HT20):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 758 Hz.



2.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



2.6 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.
-	-	-	-	-
Item	Cable Type	Shielded Type	Ferrite Core	Length
1	DC Cable	NO	NO	1.2m



3. AC POWER LINE CONDUCTED EMISSIONS

3.1 LIMIT

Frequency of Emission (MHz)	Limit (dBµV)		
Frequency of Emission (MHz)	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:

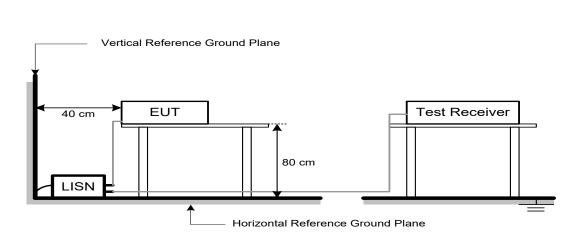
Receiver Parameters	Setting	
Start Frequency	0.15 MHz	
Stop Frequency	30 MHz	
IF Bandwidth	9 kHz	

3.3 DEVIATION FROM TEST STANDARD

No deviation.



3.4 TEST SETUP



3.5 EUT OPERATION CONDITIONS

EUT was programmed to be in continuously transmitting mode.

3.6 TEST RESULTS

Please refer to the APPENDIX A.



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 (Miriz)	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	
Receiver 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	

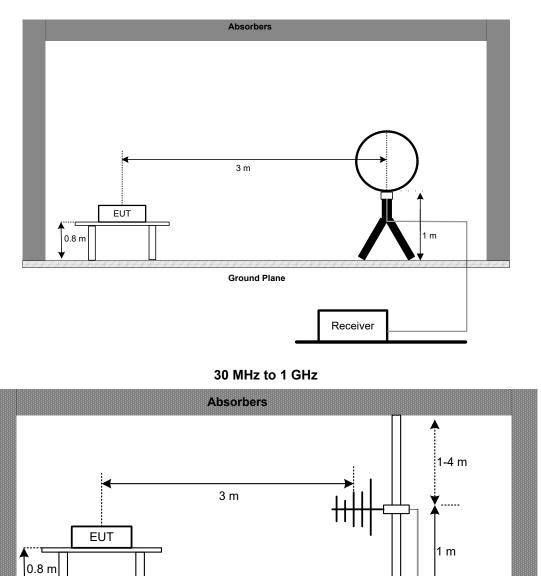


4.3 DEVIATION FROM TEST STANDARD

No deviation.

4.4 TEST SETUP

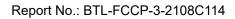
9 kHz to 30 MHz



Receiver

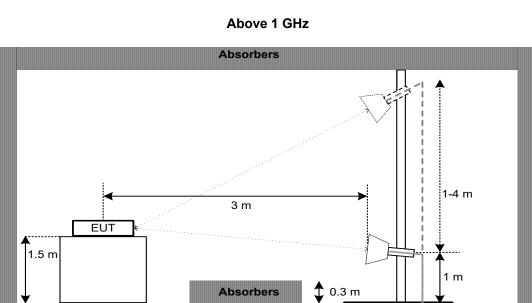
Amp.

Ground Plane



Amp.

<u>3TL</u>





Receiver

4.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

4.6 TEST RESULTS - 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 RESULTS - 30 MHZ TO 1000 MHZ

Please refer to the APPENDIX C.

4.8 TEST RESULTS - 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
FCC 15.247(a)(2)	6 dB Bandwidth	Minimum 500 kHz
	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:

Spectrum Parameters	Setting	
Span Frequency	> Measurement Bandwidth	
RBW	100 kHz	
VBW	300 kHz	
Detector	Peak	
Trace	Max Hold	
Sweep Time	Auto	

For 99% Emission Bandwidth:

Spectrum Parameters	Setting	
Span Frequency	Between 1.5 times and 5.0 times the OBW	
RBW	300 kHz	
VBW	1 MHz	
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

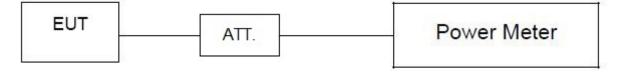
6.2 TEST PROCEDURE

- a. The EUT was directly connected to the power meter and antenna output port as show in the block diagram below.
- b. The maximum conducted output power was performed in accordance with method 11.9.2.3.1 of ANSI C63.10-2013.

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 EMISSIONS

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

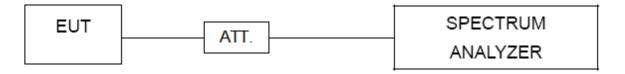
- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. The following table is the setting of the spectrum analyzer:

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
FCC 13.247(e)	Fower Spectral Density	(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	25 MHz
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	EMI Test Receiver	R&S	ESCI	100382	Feb. 28, 2022	
2	LISN	EMCO	3816/2	52765	Feb. 27, 2022	
3	TWO-LINE V-NETWORK	R&S	ENV216	101447	Feb. 27, 2022	
4	50Ω Terminator	SHX	TF5-3	15041305	Feb. 27, 2022	
5	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A	
6	Cable	N/A	RG223	12m	Mar. 09, 2022	
7	643 Shield Room	ETS	6*4*3m	N/A	N/A	

	Radiated Emissions - 9 kHz to 30 MHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until	
1	MXE EMI Receiver	Keysight	N9038A	MY56400091	Feb. 27, 2022	
2*	Active Loop Antenna	R&S	HFH2-Z2	830749/020	Aug. 23, 2024	
3	Cable	N/A	RG 213/U(9kHz~1GHz)	N/A	May 27, 2022	
4	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A	
5	966 Chamber Room	ETS	9*6*6	N/A	Jul. 17, 2022	

		Radiated Em	issions - 30 MHz to	1 GHz	
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	Schwarzbeck	VULB9160	9160-3232	Mar. 15, 2022
2	Amplifier	HP	8447D	2944A08742	Feb. 28, 2022
3	Cable	emci	LMR-400	N/A	Nov. 30, 2022
4	Controller	СТ	SC100	N/A	N/A
5	Controller	MF	MF-7802	MF780208416	N/A
6	Receiver	Agilent	N9038A	MY52130039	Mar. 19, 2022
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
8	966 Chamber Room	RM	9*6*6	N/A	Jul. 24, 2022

		Radiated E	missions - Above 1	GHz	
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Double Ridged Horn Antenna	ARA	DRG-118A	16554	Apr. 21, 2022
2	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Jun. 30, 2022
3	Amplifier	Agilent	8449B	3008A02584	Jul. 10, 2022
4	Controller	СТ	SC100	N/A	N/A
5	Controller	MF	MF-7802	MF780208416	N/A
6	Receiver	Agilent	N9038A	MY52130039	Mar. 19, 2022
7	EXA Spectrum Analyzer	Keysight	N9010A	MY56480488	Feb. 28, 2022
8	Low Noise Amplifier	CONNPHY	CLN-18G40G-4330 -K	619413	Jul. 16, 2022
9	Cable	N/A	A81-SMAMSMAM- 12.5M	N/A	Oct. 15, 2022
10	Cable	Talent microwave	A40-2.92M2.92M-2. 5M	N/A	Nov. 30, 2022
11	Filter	STI	STI15-9912	N/A	Jul. 10, 2022
12	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
13	966 Chamber Room	RM	9*6*6	N/A	Jul. 24, 2022



		Conducted	Bandwidth & d Spurious Emission er Spectral Density	ns &	
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Jul. 10, 2022
2	Attenuator	WOKEN	6SM3502	VAS1214NL	Feb. 07, 2022
3	RF Cable	Tongkaichuan	N/A	N/A	N/A
4	DC Block	Mini	N/A	N/A	N/A

		Maxir	num Output Power		
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Peak Power Analyzer	Keysight	8990B	MY51000506	Jul. 10, 2022
2	Wideband power sensor	Keysight	N1923A	MY58310004	Jul. 10, 2022
3	Attenuator	WOKEN	6SM3502	VAS1214NL	Feb. 07, 2022
4	RF Cable	Tongkaichuan	N/A	N/A	N/A

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

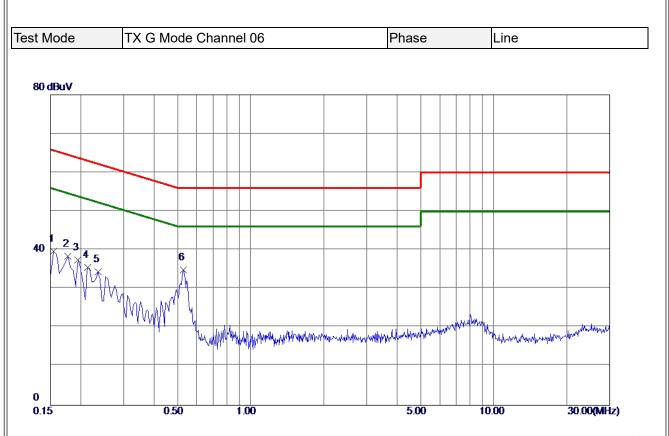
"*" calibration period of equipment list is three year.

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



APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS

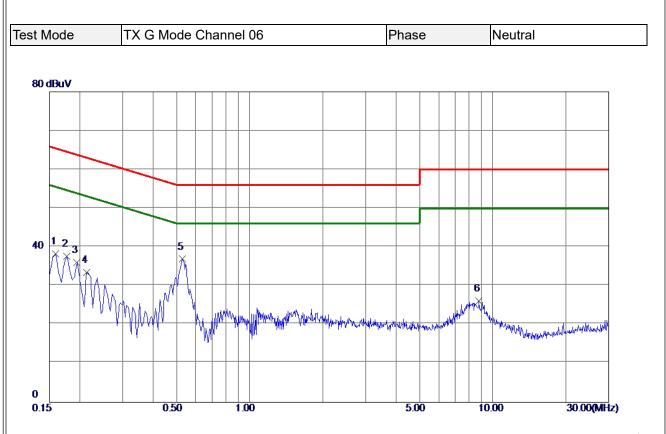




No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1545	29.94	9.78	39.72	65.75	-26. 03	Peak	
2	0.1770	28.58	9.80	38.38	64.63	-26.25	Peak	
3	0.1949	27.56	9.81	37.37	63.83	-26.46	Peak	
4	0.2130	25.77	9.82	35. 59	63.09	-27. 50	Peak	
5	0.2355	24.63	9.82	34.45	62.25	-27.80	Peak	
6 *	0. 5280	24.94	9.87	34.81	56.00	-21.19	Peak	

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





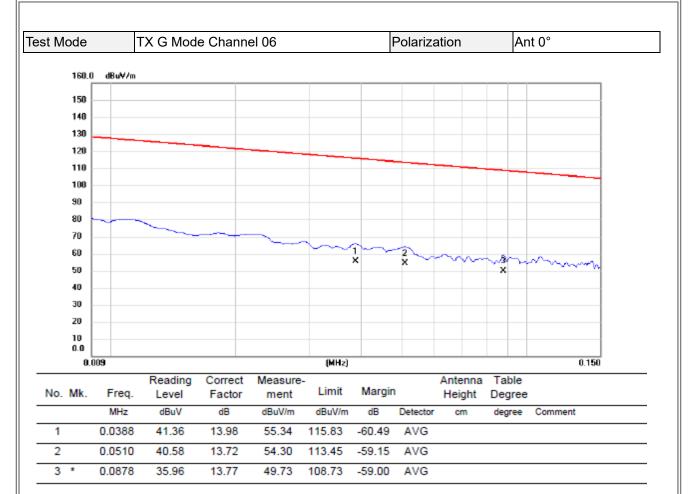
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1590	28.39	9.83	38.22	65.52	-27. 30	Peak	
2	0.1770	27.78	9.84	37.62	64.63	-27.01	Peak	
3	0.1949	26.20	9.85	36.05	63.83	-27.78	Peak	
4	0.2130	23.66	9.85	33. 51	63.09	-29. 58	Peak	
5 *	0. 5280	26.93	9.95	36.88	56.00	-19.12	Peak	
6	8.7765	15. 58	10.46	26. 04	60.00	-33. 96	Peak	

- Measurement Value = Reading Level + Correct Factor.
 Margin Level = Measurement Value Limit Value.



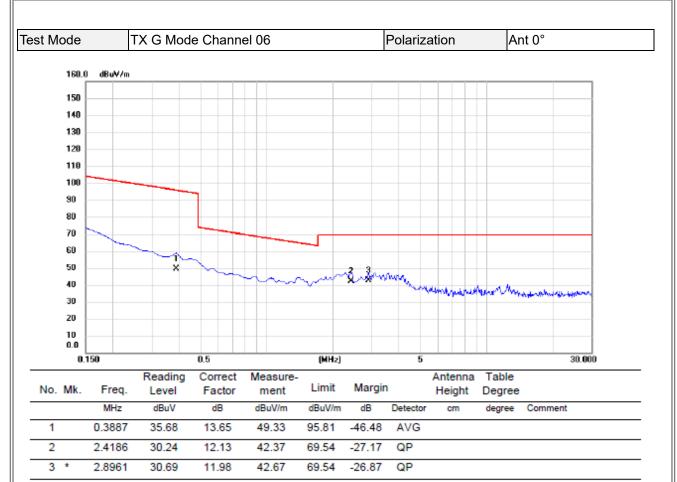
APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ

BIL



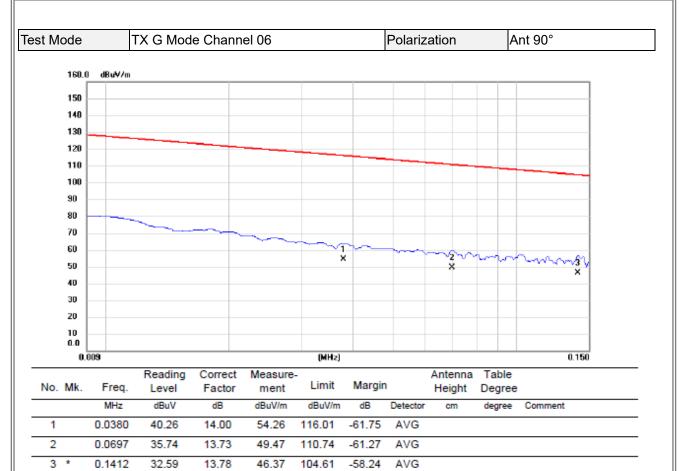
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.





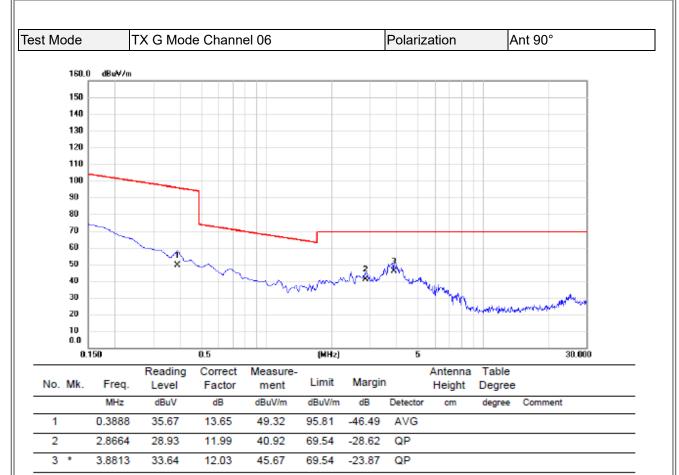
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.





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





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



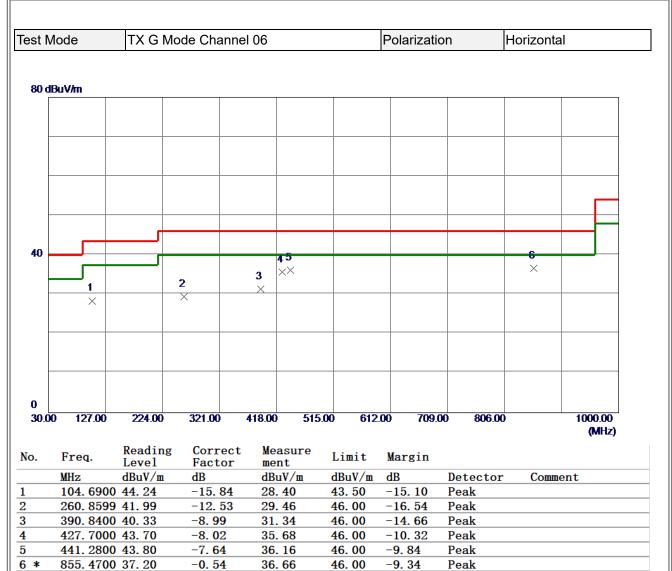
APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1000 MHZ



est N	lode	TX G Mo	de Channe	el 06		Polarization		Vertical	
80 d	BuV/m								
-									
40				45	0				
	1 ×2	3		*5 ××	6 ×				
	×	×							
-									
0									
30.0	0 127.00	224.00	321.00	418.00 5	15.00 612	2.00 709.	00 806.00	1000.00 (MHz)	
lo.	Freq.	Reading Level	Correct Factor	Measure ment	, Limit	Margin			
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
*	42. 6100	45.63	-13. 95	31.68	40.00	-8.32	Peak		
2	111. 4800		-14. 91	27.27	43.50	-16.23	Peak		
3	220. 1200		-14.80	27.66	46.00	-18.34	Peak		
ł	427.7000	41. 31	-8.02	33. 29	46.00	-12. 71 -12. 65	Peak		
5	441.2800		-7.64	33.35	46.00		Peak		

- Measurement Value = Reading Level + Correct Factor.
 Margin Level = Measurement Value Limit Value.



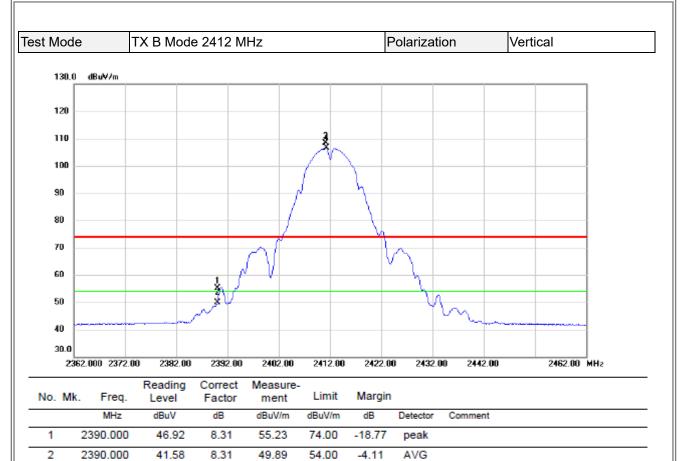


REMARKS:

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



APPENDIX D - RADIATED EMISSION- ABOVE 1000 MHZ



REMARKS:

3 X

4 *

2411.150

2411.250

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

100.06

98.25

8.33

8.33

108.39

106.58

74.00

54.00

34.39

52.58

peak

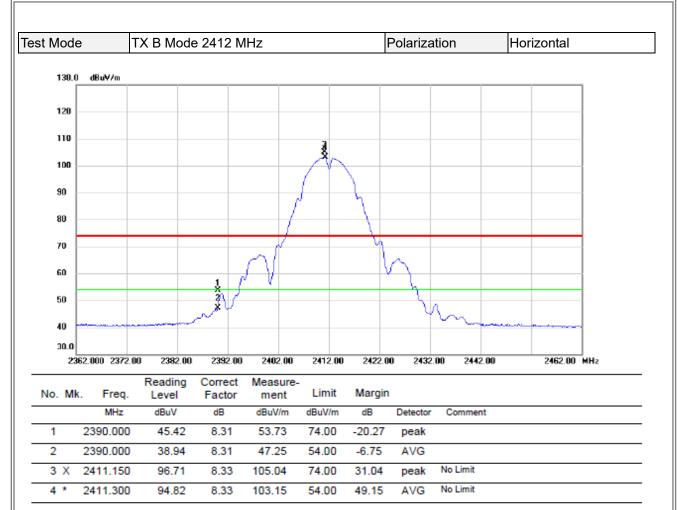
AVG

No Limit

No Limit



	Node	TX B Moo	le 2412 MH:	<u></u>		Polarizatio	n	Vertical	
90 o	1BuV/m					1	T	1	1
			1						
			ž						
			×						
30									
-20									
	0.00 3550.0	0 6100.00	8650.00 11	1200.00 1375	0.00 1630	0.00 18850	0.00 2140	0.00	26500.00
	_	Reading	Correct	Measure					(MHz)
о.	Freq.	Level dBuV/m	Factor	ment	Limit	Margin dB	Dataat		ment
	MHz 7234.64	50 42.33	dB 10. 60	dBuV/m 52.93	dBuV/m 74.00	-21. 07	Detect Peak	or con	ment
*	7235.14	50 36.55	10.60	47.15	54.00	-6.85	AVG		

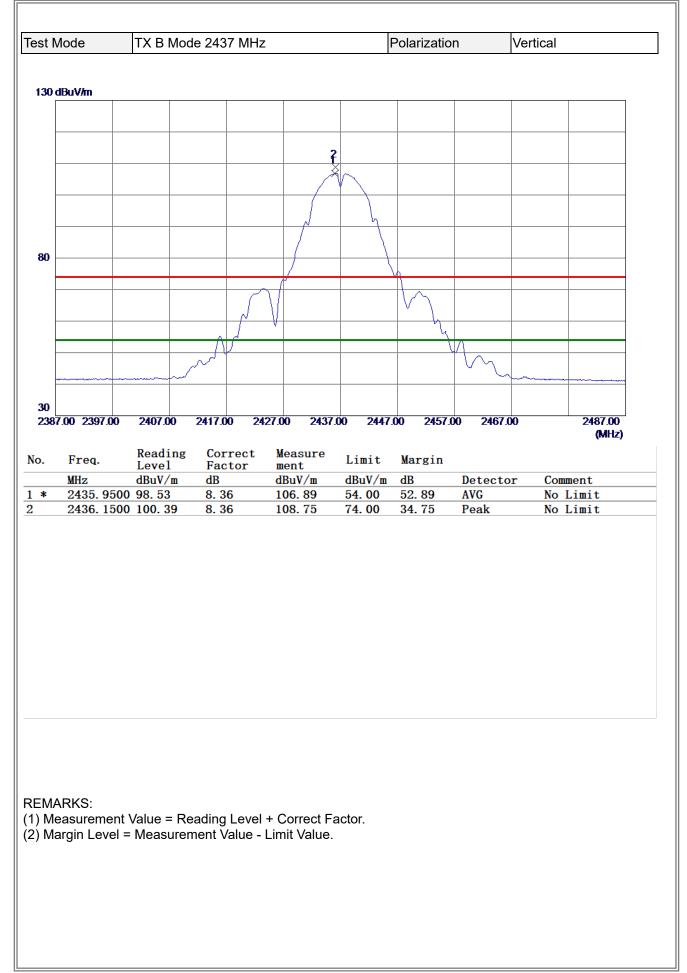


REMARKS:

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

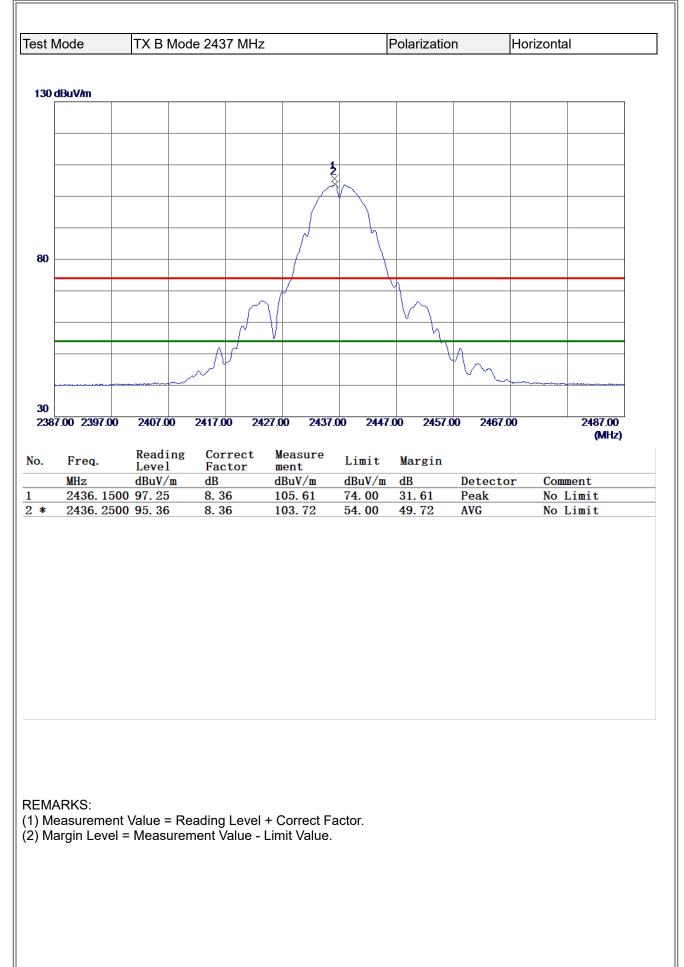


	IXBN	/lode 241	2 MHz			Polarizatio	n	Horizonta	l
0 dBuV/m									
		1							
		ž							
		×							
30									
20									
1000.00 3550	.00 6100.00) 8650.0	0 11200	0.00 13750	.00 1630	0.00 18850	.00 21400).00	26500.00
									(MHz)
o. Freq.	Readi Level	ng Cor Fac	rect M tor I	deasure ment	Limit	Margin			
MHz	dBuV/1	n dB	Ċ	lBuV/m	dBuV/m		Detecto	or Com	nent
	0600 41.86			52.45	74.00	-21.55	Peak		
* 7235.1	1950 35.74	10.	60 4	16.34	54.00				
					01.00	-7.66	AVG		
						-7.66	AVG		



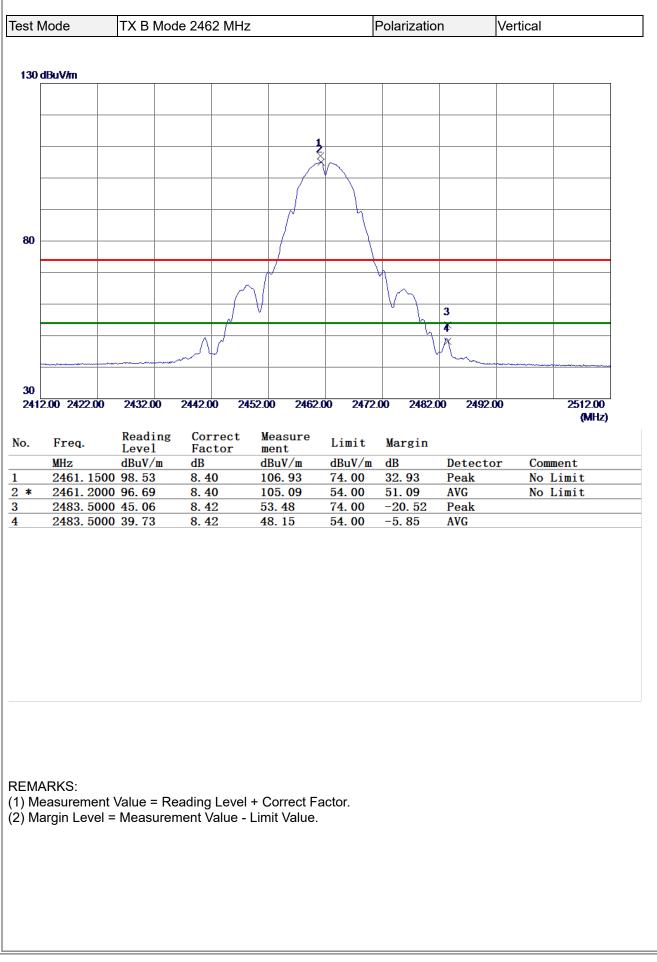
BLL

	IXBN	lode 243	7 MHz		I	Polarizatio	n	Vertical	
) dBuV/m									
		1							
		2							
		×							
,									
,									
)									
00.00 3550	.00 6100.00	8650.0	0 1120	00.00 1375	0.00 1630	0.00 18850	.00 2140	0.00	26500.00
									(MHz)
Freq.	Readir Level	ig Cor: Fac	rect tor	Measure ment	Limit	Margin			
MHz	dBuV/m	dB		dBuV/m	dBuV/m	dB	Detect	or Co	mment
7200 0									
	9000 41.96	10.0		52.65	74.00	-21.35	Peak		
	9000 41.96 1200 34.71	10. (10. (52. 65 45. 40	74. 00 54. 00	-21. 35 -8. 60	Peak AVG		



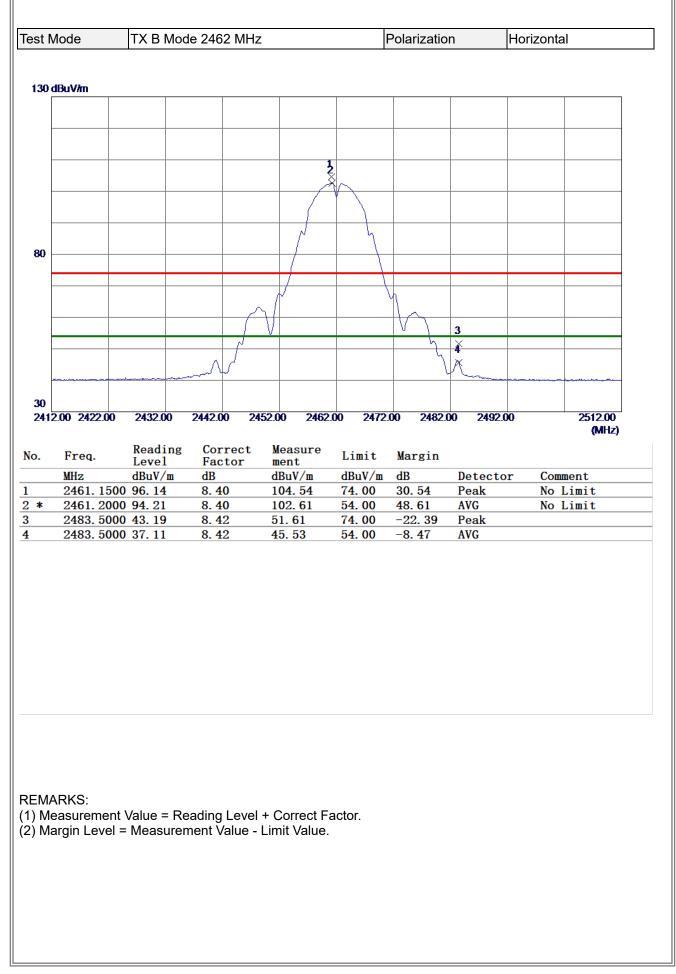
3TL

st Mode	TX B N	/lode 243	7 MHz		I	Polarizatio	n	Horizonta	
)dBuV/m									
	_								
		2							
		1							
		×							
o o									
Č									
0 000 <u>.00</u> 3550	.00 6100.00) 8650.0	0 11200	0.00 13750	.00 1630	0.00 18850	.00 21400		26500.00
000.00 5550	00 0100.00	0000.0	0 11200	100 13730	.00 1050	0.00 10030	200 21400		(MHz)
Ener	Readi	ng Cor	rect M	leasure	Linit	Manada			
Freq.	Level	Fac	tor 🛛	ient	Limit	Margin			
MHz * 7310.	<u>dBuV/1</u> 1350 32.41	<u>n dB</u> 10. (BuV/m 3. 10	dBuV/m 54.00	dB -10. 90	Detecto AVG	or Com	ient
	7800 40.39	10.		1. 09	74.00	-22. 91	Peak		



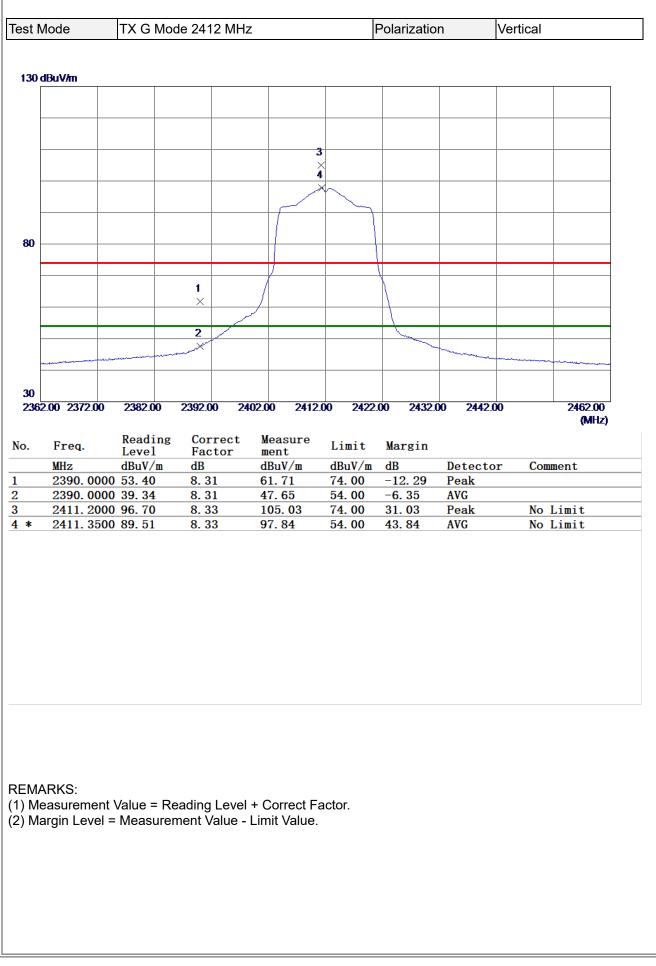


20	t Mode	TX B I	Mode 24	62 MHz	2	I	Polarizatio	n	Vertical	
1 1 2 1 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 3										
X X	0 dBuV/m									
30 X Image: Contract Measure ment Limit Margin 20										
30 X Image: Second sec										
30 X Image: Contract Measure ment Limit Margin 20										
30 X Image: Second sec										
30 X Image: Contract Measure ment Image: Contract Measure Meas										
30 30 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>										
20			~							
20										
20	o									
Non-oo 3550.00 6100.00 8650.00 11200.00 13750.00 16300.00 18850.00 21400.00 2650 0. Freq. Reading Level Correct Factor ment Measure Limit Margin Limit Margin Margin MHz dBuV/m dB dBuV/m dBuV/m dB Detector Comment 7383.9300 41.43 10.79 52.22 74.00 -21.78 Peak										
Non-oo 3550.00 6100.00 8650.00 11200.00 13750.00 16300.00 18850.00 21400.00 2650 0. Freq. Reading Level Correct Factor ment Measure Limit Margin Limit Margin Margin MHz dBuV/m dB dBuV/m dBuV/m dB Detector Comment 7383.9300 41.43 10.79 52.22 74.00 -21.78 Peak										
Non-on-on-state Reading Correct Measure Limit Margin MHz dBuV/m dB dBuV/m dBuV/m dB Detector Comment 7383.9300 41.43 10.79 52.22 74.00 -21.78 Peak										
Non-oo 3550.00 6100.00 8650.00 11200.00 13750.00 16300.00 18850.00 21400.00 2650 0 b. Freq. Reading Level Correct Factor Measure ment Limit Margin MHz dBuV/m dB dBuV/m dBuV/m dB Detector Comment 7383.9300 41.43 10.79 52.22 74.00 -21.78 Peak										
Non-oo 3550.00 6100.00 8650.00 11200.00 13750.00 16300.00 18850.00 21400.00 2650 0 b. Freq. Reading Level Correct Factor Measure ment Limit Margin MHz dBuV/m dB dBuV/m dBuV/m dB Detector Comment 7383.9300 41.43 10.79 52.22 74.00 -21.78 Peak										
Non-oo 3550.00 6100.00 8650.00 11200.00 13750.00 16300.00 18850.00 21400.00 2650 0 b. Freq. Reading Level Correct Factor Measure ment Limit Margin MHz dBuV/m dB dBuV/m dBuV/m dB Detector Comment 7383.9300 41.43 10.79 52.22 74.00 -21.78 Peak										
Non-oo 3550.00 6100.00 8650.00 11200.00 13750.00 16300.00 18850.00 21400.00 2650 0 b. Freq. Reading Level Correct Factor Measure ment Limit Margin MHz dBuV/m dB dBuV/m dBuV/m dB Detector Comment 7383.9300 41.43 10.79 52.22 74.00 -21.78 Peak										
NOOD 00 3550.00 6100.00 8650.00 11200.00 13750.00 16300.00 18850.00 21400.00 2650 . Freq. Reading Level Correct Factor Measure ment Limit Margin MHz dBuV/m dB dBuV/m dBuV/m dB Detector Comment 7383.9300 41.43 10.79 52.22 74.00 -21.78 Peak										
Reading Level Correct Factor Measure ment Limit Margin MHz dBuV/m dB dBuV/m dBuV/m dB Detector Comment 7383.9300 41.43 10.79 52.22 74.00 -21.78 Peak		000 6100.0	0 8650	00 11	200.00 1375	0.00 1630	0.00 18850	00 21400	00	26500.00
MHz dBuV/m dB dBuV/m dBuV/m dB Detector Comment 7383.9300 41.43 10.79 52.22 74.00 -21.78 Peak	500.00° 5554	0100.0	0 0000		200.00 1515	0.00 1000	0.00 10000	2140		(MHz)
MHz dBuV/m dB dBuV/m dBuV/m dB Detector Comment 7383.9300 41.43 10.79 52.22 74.00 -21.78 Peak	Errog	Readi	ng Co	rroct	Magguro					
7383. 9300 41. 43 10. 79 52. 22 74. 00 -21. 78 Peak	rreq.			11ect		Limit	Margin			
	MI-		Fa	ctor	ment			Dataata		
		dBuV/	Fa m dB	ctor	ment dBuV/m	dBuV/m	dB		or Con	ment
	7383.	dBuV/ 9300 41.43	Fa <u>m dB</u> 10	. 79	ment dBuV/m 52.22	dBuV/m 74.00	dB -21. 78	Peak	or Con	ment



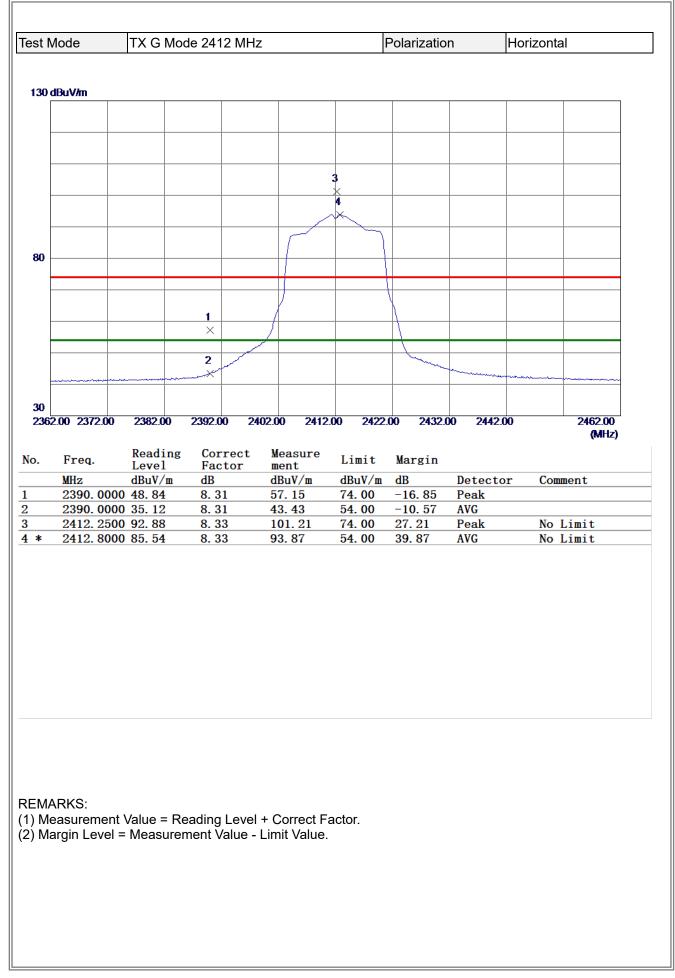
	IXBN	lode 2462	MHz		Po	olarizatio	n	Horizonta	l
dBuV/m									
		2							
		X							
		1 ×							
	0.0000	0050.00	44000.00	40750.00	40000		00 04400		00500.00
00.00 3550.	.00 6100.00	8650.00	11200.00	13750.00	16300.0	00 18850	.00 21400	.00	26500.00 (MHz)
Freq.	Readir	ng Corre		sure Li	mit 1	Margin			
MHz	Level	Facto		٠			Detecto		nent
	dBuV/m 2750 32.82	1 dB 10.79	dBu\ 9 43. 6			dB	Detecto	or com	lient
1000.2		10 (2			00 -	-10 39	AVG		
	7500 32. 82 7500 40. 21	10. 79				-10. 39 -23. 00	AVG Peak		

BL



BLL

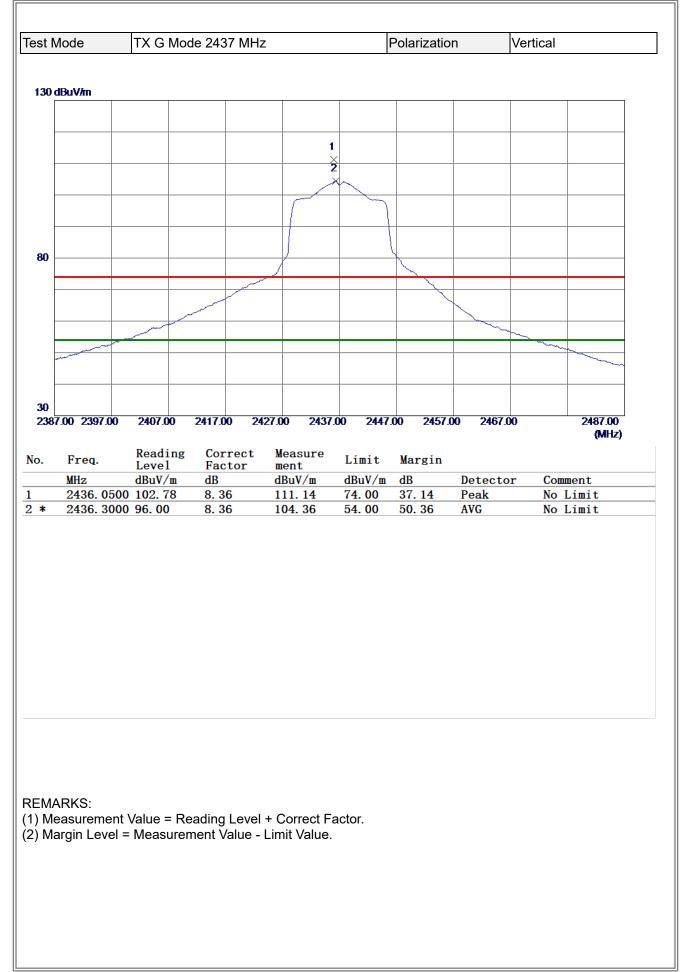
F	V/m	6100.00 Readin Level	2 × 1 × 8650.0 g Col		1200.00 1375			.00 21400		
)) 3550.00	Readin Level			1200.00 1375	D.00 16300		.00 21400		
))00.00 F M	req.	Readin Level			1200.00 1375	D.00 16300	0.00 18850	.00 21400		
))00.00 F M	req.	Readin Level			1200.00 1375	D.00 16300	0.00 18850	.00 21400		
))00.00 F M	req.	Readin Level			1200.00 1375	D.00 16300	0.00 18850	.00 21400		
))00.00 F M	req.	Readin Level			1200.00 1375	0.00 1630	0.00 18850	.00 21400		
))00.00 F M	req.	Readin Level	1 × 8650.0 g Coi		1200.00 1375	0.00 16300	0.00 18850	.00 21400	0.00	
))00.00 F M	req.	Readin Level	× 8650.0 g Coi		1200.00 1375	0.00 1630	0.00 18850	.00 21400	0.00	
))00.00 F M	req.	Readin Level	8650.0 g Co1		1200.00 1375	D.00 16300	0.00 18850	.00 21400	0.00	
))00.00 F M	req.	Readin Level	g Coi		1200.00 1375	0.00 1630	0.00 18850	.00 21400	0.00	
ю <u>о.00</u> F <u>М</u>	req.	Readin Level	g Coi		1200.00 1375	0.00 16300	0.00 18850	.00 21400	0.00	
ю <u>о.00</u> F <u>М</u>	req.	Readin Level	g Coi		1200.00 1375	0.00 1630	0.00 18850	0.00 21400	0.00	
ю <u>о.00</u> F <u>М</u>	req.	Readin Level	g Coi		1200.00 1375	0.00 1630	0.00 18850	.00 21400	0.00	
ю <u>о.00</u> F <u>М</u>	req.	Readin Level	g Coi		1200.00 1375	0.00 16300	0.00 18850	0.00 21400	0.00	
ю <mark>о.00</mark> F <u>М</u>	req.	Readin Level	g Coi		1200.00 1375	0.00 16300	0.00 18850	0.00 21400	D.00	
ю <u>о.00</u> F <u>М</u>	req.	Readin Level	g Coi		1200.00 1375	0.00 16300	0.00 18850	0.00 21400	0.00	
ю <u>о.00</u> F <u>М</u>	req.	Readin Level	g Coi		1200.00 1375	0.00 16300	0.00 18850	0.00 21400	0.00	
ю <u>о.00</u> F <u>М</u>	req.	Readin Level	g Coi		1200.00 1375	0.00 16300	0.00 18850	0.00 21400	0.00	
F	req.	Readin Level	g Coi							
M		Level	g Coi							(MHz)
	Hz		100	ctor	Measure ment	Limit	Margin			
7		dBuV/m			dBuV/m	dBuV/m	dB	Detecto	or Co	mment
	236. 1800 236. 6000		10. 10.		38.84 50.44	54.00 74.00	-15. 16 -23. 56	AVG Peak		
/ARł	KS									
		Value = I	Reading	a Level	+ Correct Fa	actor.				
∕largi	in Level =	= Measur	ement \	Value -	Limit Value.					



<u>3ĩL</u>

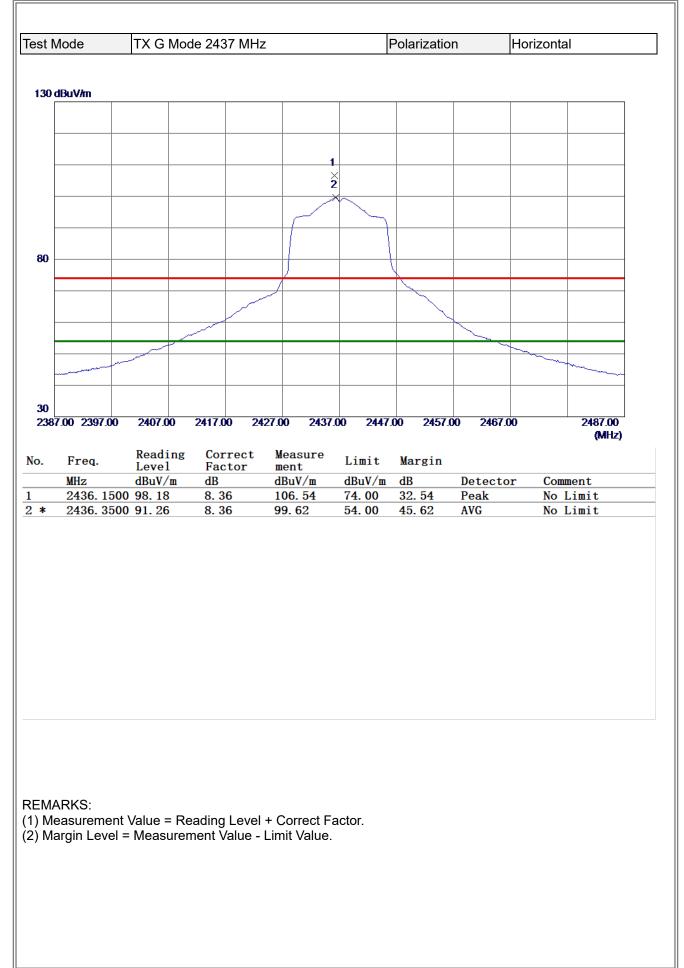
esti	Node	TX G Mo	de 2412 N	/Hz		Pc	olarizatio	n	Horizont	al
00 2	lBuV/m									
001										
			2 ×							
			1							
			×							
30										
30										
-20 100	0.00 3550.00	6100.00	8650.00	11200.00	13750.00	16300.0	0 18850	.00 21400	00	26500.00
100	0.00 000.00	0100.00	00000	11200.00	10100.00	10000.0		2110		(MHz)
lo.	Freq.	Reading	Correc	t Meas						
		Level	Footor			mit	Margin			
	MIL		Factor				Margin	Detect	Con	mont
*	MHz 7234, 150	dBuV/m	dB	dBuV	∕m dBı	ıV∕m d	dB	Detecto	or Con	ment
	MHz 7234.150 7238.490	dBuV/m 00 27.32			/m dBı 1 54.	ıV∕m c 00 -		Detecto AVG Peak	or Con	ment
*	7234.150	dBuV/m 00 27.32	dB 10. 59	dBuV/ 37. 9	/m dBı 1 54.	ıV∕m c 00 -	dB -16. 09	AVG	or Con	ment

BL



BLL

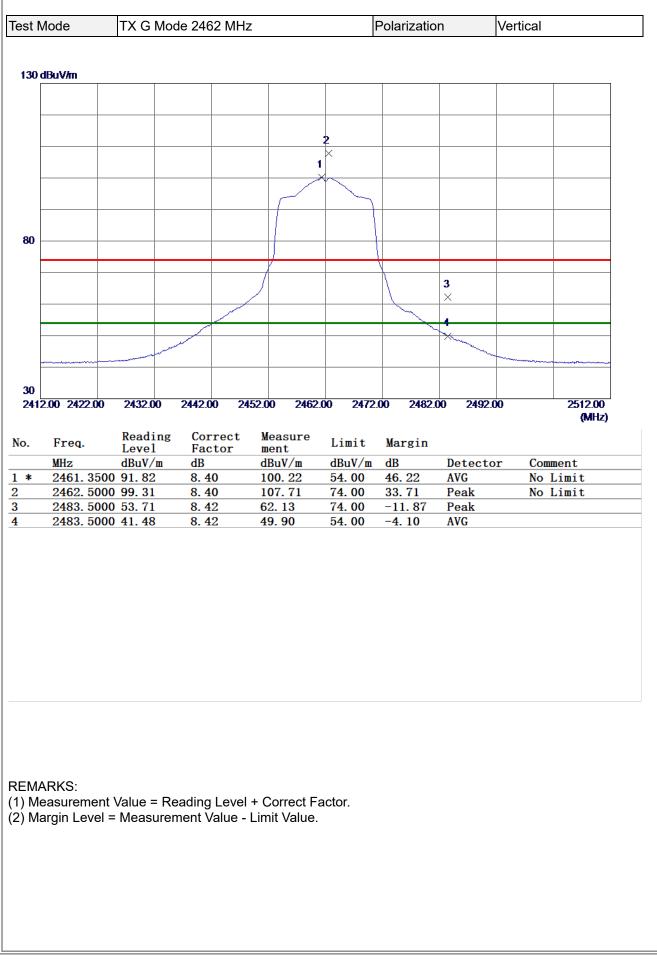
	TX G Mo	de 2437 MF	lz		Polarizatio	n	Vertical	
dBuV/m						1		
		1 ×						
		2						
		X						
00.00 3550.0	00 0100 00	0050.00	1200.00 1375	0.00 4630	0.00 40050	00 01 40	0.00	26500.00
00.00 5550.	00 6100.00	8650.00 1	1200.00 1373	0.00 1630	0.00 18850	0.00 2140	0.00	26500.00 (MHz)
Freq.	Reading	Correct		Limit	Margin			
MHz	Level dBuV/m	Factor dB	ment dBuV/m	dBuV/m		Detect	or Cor	ment
7305.8	400 41.88	10.69	52. 57	74.00	-21. 43	Peak		
7308.5	000 31.27	10.69	41.96	54.00	-12. 04	AVG		



3TL

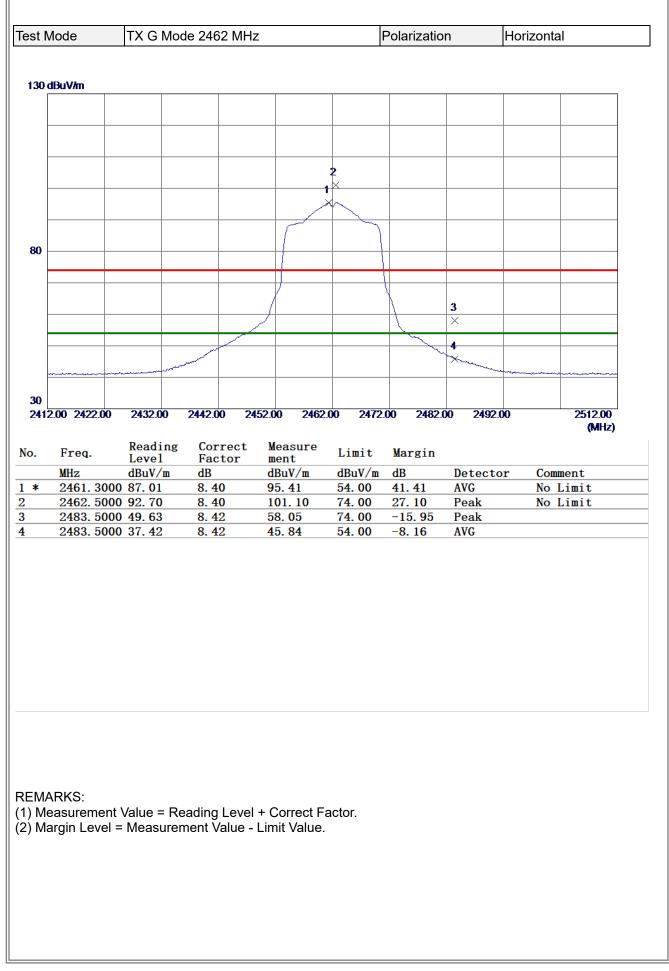
103LIN	Node	TX G Mo	de 2437 MH	7		Polarizatio	n	Horizonta	l.
	NOUE			2			11	TUTZUTIL	1
80 d	IBuV/m								
			1						
			X						
			2 ×						
			^						
30									
-20									
100	0.00 3550.00	6100.00	8650.00 1	1200.00 13750	0.00 1630	0.00 18850	00 2140	0.00	26500.00 (MHz)
		Reading	Correct	Measure	.	. ·			
No.	Freq.	Level	Factor	ment	Limit	Margin	_		
1	MHz 7307.9900	<u>dBuV/m</u>	dB 10. 69	dBuV/m 48.87	dBuV/m 74.00	dB -25.13	Detecto Peak	or Com	nent
2 *	7313. 990		10. 05	38. 19	54.00	-15. 81	AVG		

BL



BLL

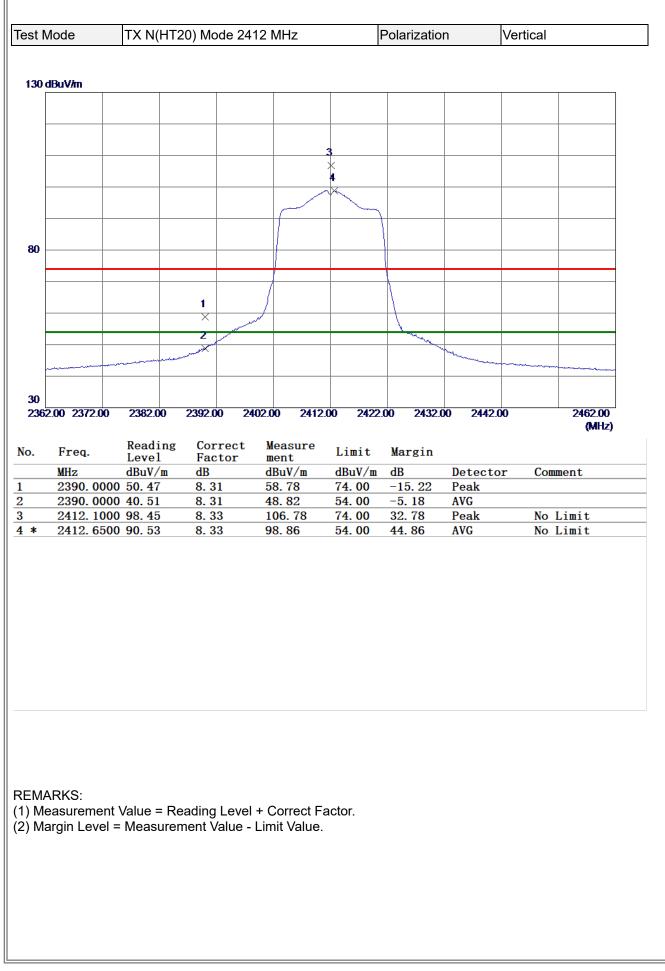
	lode	TX G Moo	de 2462 MH	z	I	Polarizatio	n	Vertical	
30 d	BuV/m								
			2						
			× 1						
			×						
0									
-									
0									
	0.00 3550.00	6100.00	8650.00 1	1200.00 1375	0.00 1630	0.00 18850	0.00 21400	00	26500.00
		Deediee	Correct	M					(MHz)
	Freq.	Reading		Measure	Limit	Manada			
		Level	Factor	ment	LIMIU	Margin			
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detecto	or Com	ient
	MHz 7378.520 7384.420	dBuV/m 0 28.46					Detecto AVG Peak	or Comm	ient
	7378. 520	dBuV/m 0 28.46	dB 10. 78	dBuV/m 39. 24	dBuV/m 54.00	dB −14. 76	AVG	or Comm	ient
	7378. 520	dBuV/m 0 28.46	dB 10. 78	dBuV/m 39. 24	dBuV/m 54.00	dB −14. 76	AVG	or Comm	lent
	7378. 520	dBuV/m 0 28.46	dB 10. 78	dBuV/m 39. 24	dBuV/m 54.00	dB −14. 76	AVG	or Comm	lent
	7378. 520	dBuV/m 0 28.46	dB 10. 78	dBuV/m 39. 24	dBuV/m 54.00	dB −14. 76	AVG	or Comm	lent
	7378. 520	dBuV/m 0 28.46	dB 10. 78	dBuV/m 39. 24	dBuV/m 54.00	dB −14. 76	AVG	or Comm	
	7378. 520	dBuV/m 0 28.46	dB 10. 78	dBuV/m 39. 24	dBuV/m 54.00	dB −14. 76	AVG	or Comm	lent
	7378. 520	dBuV/m 0 28.46	dB 10. 78	dBuV/m 39. 24	dBuV/m 54.00	dB −14. 76	AVG	or Comm	
<u>k</u>	7378. 520 7384. 420	dBuV/m 0 28.46	dB 10. 78	dBuV/m 39. 24	dBuV/m 54.00	dB −14. 76	AVG	or Comm	
⊧ MA Me	7378. 520 7384. 420	<u>dBuV/m</u> 0 28. 46 0 38. 05	dB 10. 78 10. 79	dBuV/m 39. 24 48. 84	<u>dBuV/m</u> 54.00 74.00	dB −14. 76	AVG	or Comm	
* MA Me	7378. 520 7384. 420	<u>dBuV/m</u> 0 28. 46 0 38. 05	dB 10. 78 10. 79	dBuV/m 39.24 48.84	<u>dBuV/m</u> 54.00 74.00	dB −14. 76	AVG	or Comm	
* MA	7378. 520 7384. 420	<u>dBuV/m</u> 0 28. 46 0 38. 05	dB 10. 78 10. 79	dBuV/m 39. 24 48. 84	<u>dBuV/m</u> 54.00 74.00	dB −14. 76	AVG	or Comm	lent
* MA	7378. 520 7384. 420	<u>dBuV/m</u> 0 28. 46 0 38. 05	dB 10. 78 10. 79	dBuV/m 39. 24 48. 84	<u>dBuV/m</u> 54.00 74.00	dB −14. 76	AVG	or Comm	
Me	7378. 520 7384. 420	<u>dBuV/m</u> 0 28. 46 0 38. 05	dB 10. 78 10. 79	dBuV/m 39. 24 48. 84	<u>dBuV/m</u> 54.00 74.00	dB −14. 76	AVG	or Comm	
* MA Me	7378. 520 7384. 420	<u>dBuV/m</u> 0 28. 46 0 38. 05	dB 10. 78 10. 79	dBuV/m 39. 24 48. 84	<u>dBuV/m</u> 54.00 74.00	dB −14. 76	AVG	or Comm	



3TL

st Mode	TX G N	1ode 24	62 MHz	Z		Polarizatio	n	Horizor	ntal
80 dBuV/m									
		2							
		×							
		1							
		X							
ю — — — — — — — — — — — — — — — — — — —									
~									
000.00 3550.0	0 6100.00	8650	00 11	1200.00 1375	0.00 1630	0.00 18850	0.00 21400	0.00	26500.0
									(MHz)
									• •
Freq	Readir	ig Co	rrect	Measure	Limit	Margin			
. Freq.	Level	Fa	ctor	ment	Limit	Margin	Datast		
MHz	Level dBuV/m	Fa dB	ctor	ment dBuV/m	dBuV/m	dB	Detecto	or Co	omment
MHz * 7384.5	Level	Fa dB 10	ctor	ment			Detecto AVG Peak	or Co	
MHz * 7384.5	Level dBuV/m 500 27.88	Fa dB 10	ctor 79	ment dBuV/m 38.67	dBuV/m 54.00	dB −15. 33	AVG	or Co	

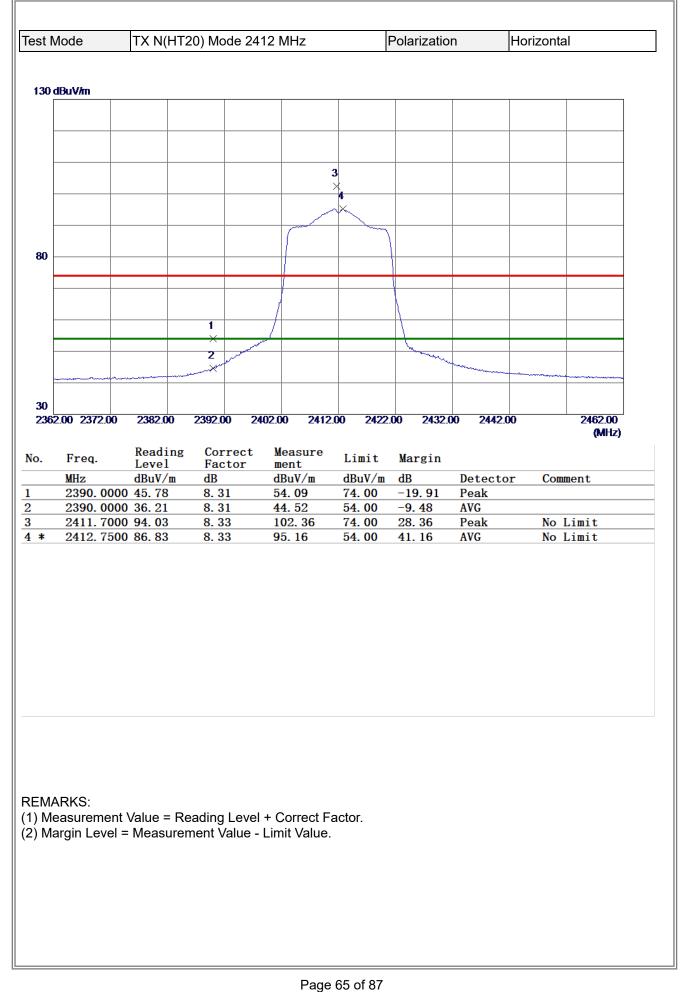






		HI20) Mod	e 2412 MHz		Polarizatio	n	Vertical	
30 dBuV/m								
		×						
		2						
		X						
20								
30								
20								
000.00 35	50.00 6100.0	0 8650.00	11200.00 137	50.00 1630	0.00 18850	.00 21400).00	26500.00
								(MHz)
o. Freq	. Readi	ng Corre Facto	or Measure	Limit	Margin			
MHz	dBuV/	m dB	dBuV/m	dBuV/m		Detecto	or Cor	ment
	. 5000 38. 52			74.00	-24.89	Peak		
* 7234	. 4100 28. 47	10. 59	39.06	54.00	-14. 94	AVG		

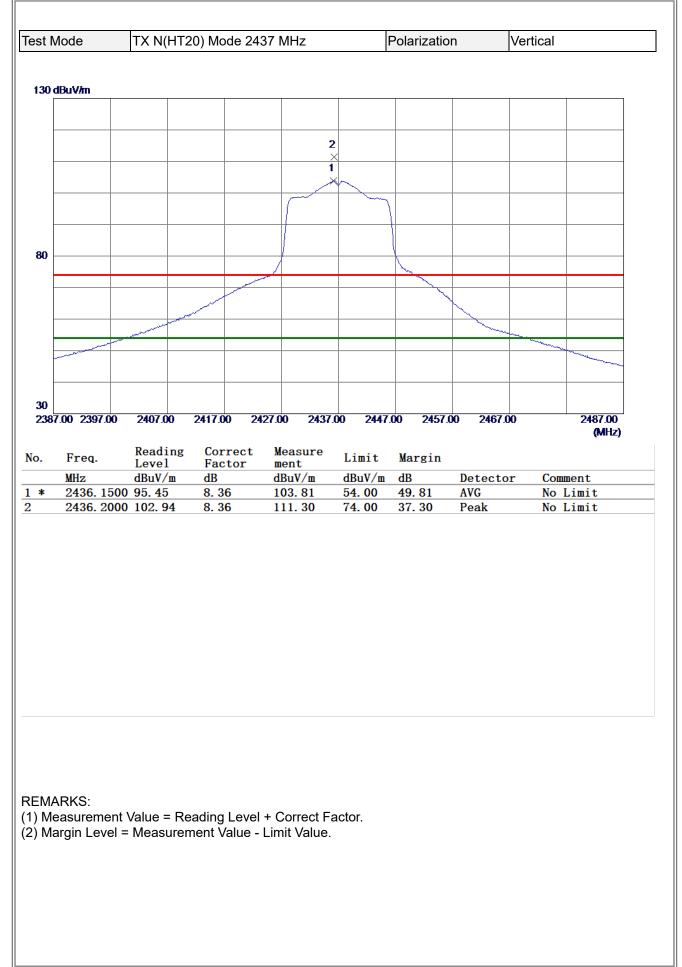






		[20) Mode 2	412 MHz		Polarizatio	n	Horizon	tal
dBuV/m						1		
		1						
		X						
		2						
		×						
0.00 3550	.00 6100.00	8650.00	1200.00 1375	0.00 1630	0.00 18850	0.00 2140	0.00	26500.00 (MHz)
Freq.	Reading	g Correct		Limit	Margin			
MHz	Level dBuV/m	Factor dB	ment dBuV/m	dBuV/m		Detect	or Co	mment
7236. 4	4100 38.61	10. 60	49. 21	74.00	-24. 79	Peak		
7242 2	1000 07 OF	10 60	27 85			AUC		
1212.2	2600 27.25	10. 60	37.85	54.00	-16. 15	AVG		
	2000 27.23	10.00	31.00	54.00	-16. 15	AVG		

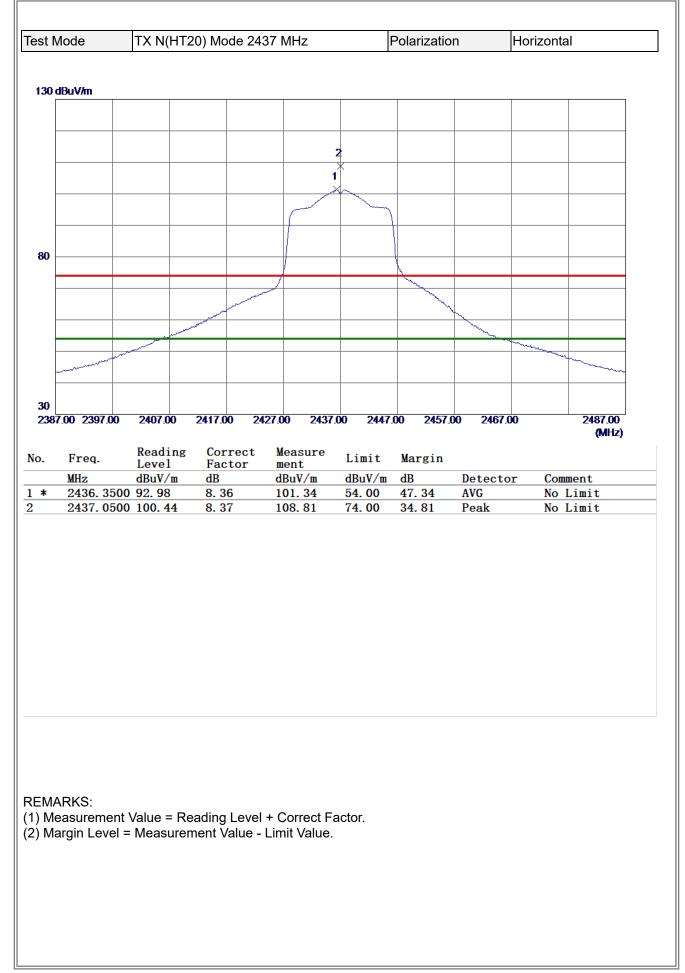






	lode	TX N(HT20	0) Mo	de 24	37 MHz		Polarizatio	n	Vertica	I
) d	BuV/m								1		
			2								
			×								
			1								
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)											
00	0.00 3550.00) 6100.0	0 8	8650.0	0 1	1200.00 137	50.00 1630	0.00 18850	00 2140	0.00	26500.00 (MHz)
	Dana a	Readi	ng	Cor	rect	Measure	Linia	Manada			
	Freq.	Readi Level		Fac		Measure ment	Limit	Margin	Detect		
	MHz	Level dBuV/	m	Fac dB	tor	ment dBuV/m	dBuV/m	dB	Detect	or Co	omment
	MHz 7309.25	Level	m	Fac	tor 69	ment			Detecto AVG Peak	or Co	omment
- *	MHz 7309.25	Leve1 dBuV/ 00 30.73	m	Fac dB 10.	tor 69	ment dBuV/m 41.42	dBuV/m 54. 00	dB −12. 58	AVG	or Co	omment







dBuV/m			137 MHz	I	Polarizatio	n	Horizon	tal
dBuV/m								
1								
		2						
		×						
		1 ×						
		^						
0.00 3550.00) 6100.00	8650.00 1	1200.00 1375	0.00 16300	0.00 18850	00 21400	00.0	26500.00 (MHz)
P	Reading	Correct	Measure	Linit				(
Freq.	Level dBuV/m	Factor	ment	Limit	Margin dB	Detect		mment
MHz 7312.74	00 27.63	dB 10. 70	dBuV/m 38.33	dBuV/m 54.00	-15. 67	Detecto AVG		шшепі
	00 37.08	10.71	47.79	74.00	-26. 21	Peak		



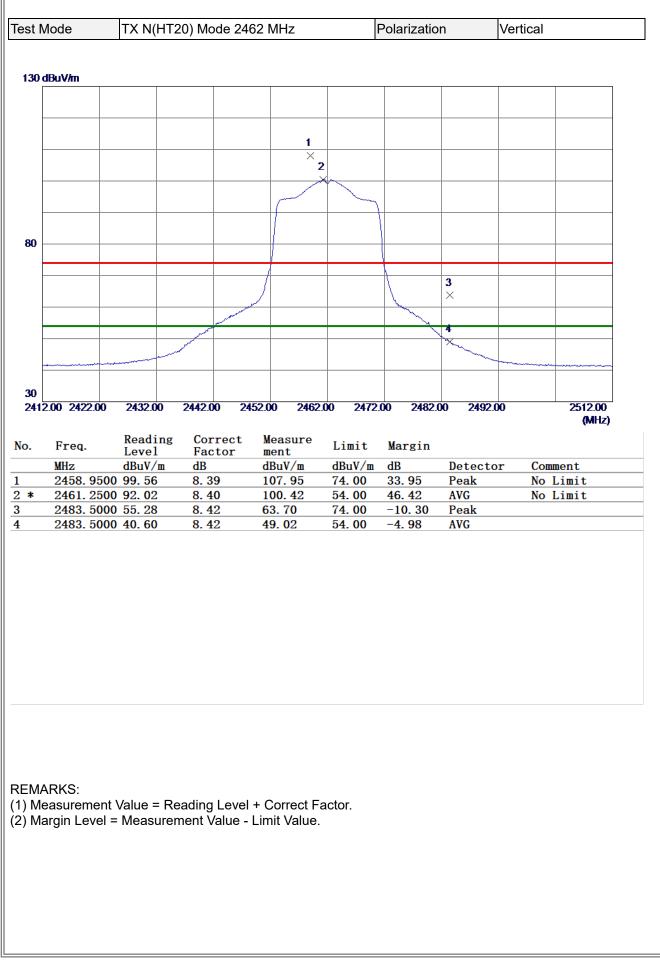
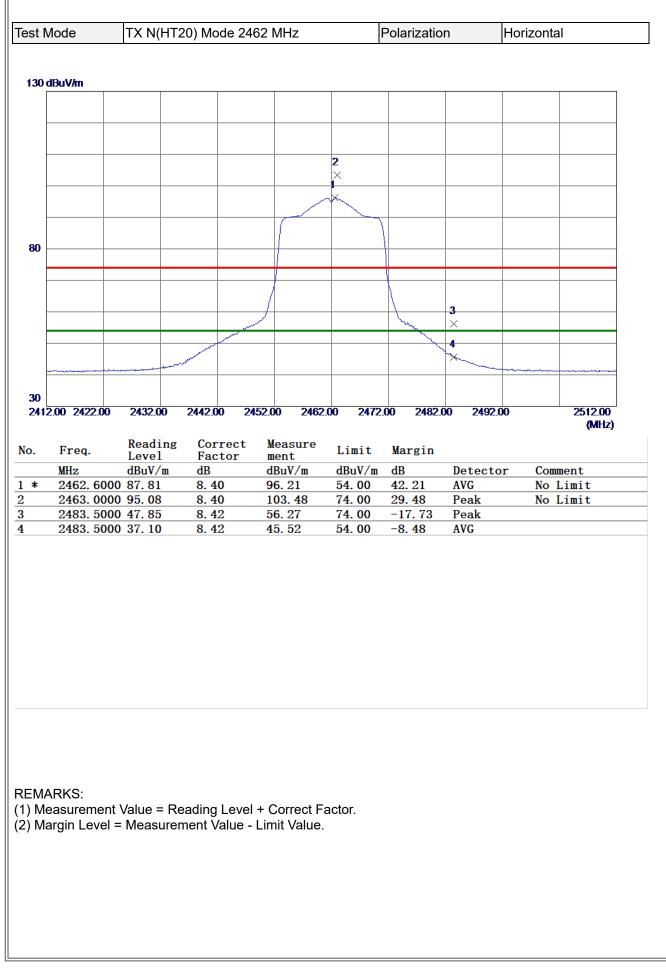




Image: Contract Measure Level Factor ment Limit Margin MHz BuV/m dBuV/m dBuV/m <td< th=""><th>2 2</th><th>st I</th><th>Node</th><th>TX N(HT</th><th>20) Mode 2</th><th>462 MHz</th><th>F</th><th>Polarizatio</th><th>n</th><th>Vertical</th><th></th></td<>	2 2	st I	Node	TX N(HT	20) Mode 2	462 MHz	F	Polarizatio	n	Vertical	
Image: Contract Measure Level Factor ment Limit Margin MHz BuV/m dBuV/m dBuV/m dBuV/m dBuV/m dBuV/m dBuV/m dBuV/m dBuV/m dB Detector Comment	Image: state of the s										
0 2	00 2	80 d	lBuV/m					1		1	1
0 2	0 2										
0 2	00 2										
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0 0	20 .				×						
000.00 3550.00 6100.00 8650.00 11200.00 13750.00 16300.00 18850.00 21400.00 26500.00 (MHz) . Freq. Reading Level Correct Factor Measure ment Limit Margin MHz dBuV/m dB dBuV/m dBuV/m dB Detector Comment 7385.4800 38.73 10.79 49.52 74.00 -24.48 Peak	OOD.00 3550.00 6100.00 8650.00 11200.00 13750.00 16300.00 18850.00 21400.00 26500.00 (MHz) . Freq. Reading Level Correct Factor Measure ment Limit Margin MHz dBuV/m dB dBuV/m dBuV/m dB Detector Comment 7385.4800 38.73 10.79 49.52 74.00 -24.48 Peak	0									
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Freq.Reading LevelCorrect FactorMeasure mentLimitMarginMHzdBuV/mdBdBuV/mdBuV/mdBDetectorComment7385.480038.7310.7949.5274.00-24.48Peak	Freq.Reading LevelCorrect FactorMeasure mentLimitMarginMHzdBuV/mdBdBuV/mdBuV/mdBDetectorComment7385.480038.7310.7949.5274.00-24.48Peak		0.00 3550.00	6100.00	8650.00	11200.00 1375	0.00 16300	0.00 18850	0.00 21400	0.00	
MHz dBuV/m dB dBuV/m dBuV/m dB Detector Comment 7385.4800 38.73 10.79 49.52 74.00 -24.48 Peak	MHz dBuV/m dB dBuV/m dBuV/m dB Detector Comment 7385.4800 38.73 10.79 49.52 74.00 -24.48 Peak										(MHz)
MHz dBuV/m dB dBuV/m dBuV/m dB Detector Comment 7385.4800 38.73 10.79 49.52 74.00 -24.48 Peak	MHz dBuV/m dB dBuV/m dBuV/m dB Detector Comment 7385.4800 38.73 10.79 49.52 74.00 -24.48 Peak										
		-	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin			
* 7366.1200 28.63 10.79 39.44 54.00 -14.56 AVG	* 7386.1200 28.63 10.79 39.44 54.00 -14.56 AVG		MHz	Level dBuV/m	Factor dB	ment dBuV/m	dBuV/m	dB		or Com	ment
			MHz 7385.480	Leve1 dBuV/m 0 38.73	Factor dB 10.79	ment dBuV/m 49.52	dBuV/m 74. 00	dB -24. 48	Peak	or Com	ment
			MHz 7385.480	Leve1 dBuV/m 0 38.73	Factor dB 10.79	ment dBuV/m 49.52	dBuV/m 74. 00	dB -24. 48	Peak	or Com	ment
			MHz 7385.480	Leve1 dBuV/m 0 38.73	Factor dB 10.79	ment dBuV/m 49.52	dBuV/m 74. 00	dB -24. 48	Peak	or Com	ment
			MHz 7385.480	Leve1 dBuV/m 0 38.73	Factor dB 10.79	ment dBuV/m 49.52	dBuV/m 74. 00	dB -24. 48	Peak	or Com	ment
			MHz 7385.480	Leve1 dBuV/m 0 38.73	Factor dB 10.79	ment dBuV/m 49.52	dBuV/m 74. 00	dB -24. 48	Peak	or Com	ment
			MHz 7385.480	Leve1 dBuV/m 0 38.73	Factor dB 10.79	ment dBuV/m 49.52	dBuV/m 74. 00	dB -24. 48	Peak	or Com	ment
			MHz 7385.480	Leve1 dBuV/m 0 38.73	Factor dB 10.79	ment dBuV/m 49.52	dBuV/m 74. 00	dB -24. 48	Peak	or Com	
			MHz 7385.480	Leve1 dBuV/m 0 38.73	Factor dB 10.79	ment dBuV/m 49.52	dBuV/m 74. 00	dB -24. 48	Peak	or Com	
		*	MHz 7385.480 7386.120	Leve1 dBuV/m 0 38.73	Factor dB 10.79	ment dBuV/m 49.52	dBuV/m 74. 00	dB -24. 48	Peak	or Com	ment
		⊧ ₩	MHz 7385.480 7386.120	Level dBuV/m 0 38.73 0 28.65	Factor dB 10.79 10.79	ment dBuV/m 49.52 39.44	dBuV/m 74.00 54.00	dB -24. 48	Peak	or Com	
Measurement Value = Reading Level + Correct Factor.	Measurement Value = Reading Level + Correct Factor.	* M/	MHz 7385.480 7386.120	Level dBuV/m 0 38. 73 0 28. 65	Factor dB 10. 79 10. 79	ment dBuV/m 49. 52 39. 44	dBuV/m 74.00 54.00	dB -24. 48	Peak	or Com	ment
Measurement Value = Reading Level + Correct Factor.	MARKS: Measurement Value = Reading Level + Correct Factor. Margin Level = Measurement Value - Limit Value.	* *	MHz 7385.480 7386.120	Level dBuV/m 0 38. 73 0 28. 65	Factor dB 10. 79 10. 79	ment dBuV/m 49. 52 39. 44	dBuV/m 74.00 54.00	dB -24. 48	Peak	or Com	ment
Measurement Value = Reading Level + Correct Factor.	Measurement Value = Reading Level + Correct Factor.	* *	MHz 7385.480 7386.120	Level dBuV/m 0 38. 73 0 28. 65	Factor dB 10. 79 10. 79	ment dBuV/m 49. 52 39. 44	dBuV/m 74.00 54.00	dB -24. 48	Peak	or Com	
Measurement Value = Reading Level + Correct Factor.	Measurement Value = Reading Level + Correct Factor.) Me	MHz 7385.480 7386.120	Level dBuV/m 0 38. 73 0 28. 65	Factor dB 10. 79 10. 79	ment dBuV/m 49. 52 39. 44	dBuV/m 74.00 54.00	dB -24. 48	Peak	or Com	ment
Measurement Value = Reading Level + Correct Factor.	Measurement Value = Reading Level + Correct Factor.	* • M4	MHz 7385.480 7386.120	Level dBuV/m 0 38. 73 0 28. 65	Factor dB 10. 79 10. 79	ment dBuV/m 49. 52 39. 44	dBuV/m 74.00 54.00	dB -24. 48	Peak	or Com	
Measurement Value = Reading Level + Correct Factor.	Measurement Value = Reading Level + Correct Factor.	* • M4	MHz 7385.480 7386.120	Level dBuV/m 0 38. 73 0 28. 65	Factor dB 10. 79 10. 79	ment dBuV/m 49. 52 39. 44	dBuV/m 74.00 54.00	dB -24. 48	Peak	or Com	







est N	Node	TX N(HT2	20) Mode 24	62 MHz		Polarizatio	n	Horizontal	
80 c	lBuV/m							1	
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			× 2						
			<u>z</u> ×						
30									
~									
-20									
	0.00 3550.00	6100.00	8650.00 11	1200.00 1375	0.00 1630	0.00 18850	0.00 21400		00.00
		D 1:	6	Measure				Q	MHz)
			Commont						
о.	Freq.	Reading Level	Correct Factor	ment	Limit	Margin			
	MHz	Level dBuV/m	Factor dB	ment dBuV/m	dBuV/m	dB	Detecto	or Comment	
		Leve1 dBuV/m 0 37.55	Factor	ment			Detecto Peak AVG	or Comment	
	MHz 7385.4100	Leve1 dBuV/m 0 37.55	Factor dB 10.79	ment dBuV/m 48.34	dBuV/m 74. 00	dB -25. 66	Peak	or Comment	
	MHz 7385.4100	Leve1 dBuV/m 0 37.55	Factor dB 10.79	ment dBuV/m 48.34	dBuV/m 74. 00	dB -25. 66	Peak	or Comment	
	MHz 7385.4100	Leve1 dBuV/m 0 37.55	Factor dB 10.79	ment dBuV/m 48.34	dBuV/m 74. 00	dB -25. 66	Peak	or Comment	
	MHz 7385.4100	Leve1 dBuV/m 0 37.55	Factor dB 10.79	ment dBuV/m 48.34	dBuV/m 74. 00	dB -25. 66	Peak	or Comment	
	MHz 7385.4100	Leve1 dBuV/m 0 37.55	Factor dB 10.79	ment dBuV/m 48.34	dBuV/m 74. 00	dB -25. 66	Peak	or Comment	
	MHz 7385.4100	Leve1 dBuV/m 0 37.55	Factor dB 10.79	ment dBuV/m 48.34	dBuV/m 74. 00	dB -25. 66	Peak	or Comment	
	MHz 7385.4100	Leve1 dBuV/m 0 37.55	Factor dB 10.79	ment dBuV/m 48.34	dBuV/m 74. 00	dB -25. 66	Peak	or Comment	
	MHz 7385.4100	Leve1 dBuV/m 0 37.55	Factor dB 10.79	ment dBuV/m 48.34	dBuV/m 74. 00	dB -25. 66	Peak	or Comment	
*	MHz 7385.4100	Leve1 dBuV/m 0 37.55	Factor dB 10.79	ment dBuV/m 48.34	dBuV/m 74. 00	dB -25. 66	Peak	or Comment	
	MHz 7385.4100	Leve1 dBuV/m 0 37.55	Factor dB 10.79	ment dBuV/m 48.34	dBuV/m 74. 00	dB -25. 66	Peak	or Comment	
* EM/	MHz 7385.4100 7393.6700	Level dBuV/m 0 37.55 0 27.69	Factor dB 10. 79 10. 80	ment dBuV/m 48.34 38.49	dBuV/m 74.00 54.00	dB -25. 66	Peak	or Comment	
* EM/	MHz 7385. 4100 7393. 6700	Level dBuV/m 0 37. 55 0 27. 69 Value = Re	Factor dB 10. 79 10. 80	ment dBuV/m 48. 34 38. 49 + Correct Fa	dBuV/m 74.00 54.00	dB -25. 66	Peak	or Comment	
* EM/	MHz 7385. 4100 7393. 6700	Level dBuV/m 0 37. 55 0 27. 69 Value = Re	Factor dB 10. 79 10. 80	ment dBuV/m 48.34 38.49	dBuV/m 74.00 54.00	dB -25. 66	Peak	or Comment	
* EM/	MHz 7385. 4100 7393. 6700	Level dBuV/m 0 37. 55 0 27. 69 Value = Re	Factor dB 10. 79 10. 80	ment dBuV/m 48. 34 38. 49 + Correct Fa	dBuV/m 74.00 54.00	dB -25. 66	Peak	or Comment	
* EM/	MHz 7385. 4100 7393. 6700	Level dBuV/m 0 37. 55 0 27. 69 Value = Re	Factor dB 10. 79 10. 80	ment dBuV/m 48. 34 38. 49 + Correct Fa	dBuV/m 74.00 54.00	dB -25. 66	Peak	or Comment	
* EM/	MHz 7385. 4100 7393. 6700	Level dBuV/m 0 37. 55 0 27. 69 Value = Re	Factor dB 10. 79 10. 80	ment dBuV/m 48. 34 38. 49 + Correct Fa	dBuV/m 74.00 54.00	dB -25. 66	Peak	or Comment	
* EM/	MHz 7385. 4100 7393. 6700	Level dBuV/m 0 37. 55 0 27. 69 Value = Re	Factor dB 10. 79 10. 80	ment dBuV/m 48. 34 38. 49 + Correct Fa	dBuV/m 74.00 54.00	dB -25. 66	Peak	or Comment	
* EM/	MHz 7385. 4100 7393. 6700	Level dBuV/m 0 37. 55 0 27. 69 Value = Re	Factor dB 10. 79 10. 80	ment dBuV/m 48. 34 38. 49 + Correct Fa	dBuV/m 74.00 54.00	dB -25. 66	Peak	or Comment	

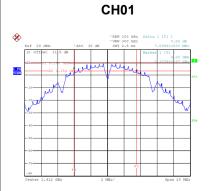


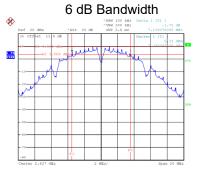
APPENDIX E - BANDWIDTH



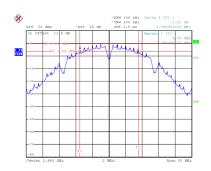
Test Mode TX B Mode								
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result			
01	2412	7.60	12.16	0.50	Complies			
06	2437	7.12	11.92	0.50	Complies			
11	2462	7.10	11.92	0.50	Complies			

CH06

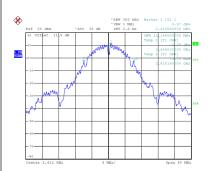




CH11

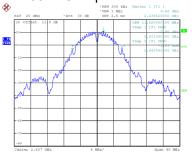


Date: 11.NOV.2021 14:39:57

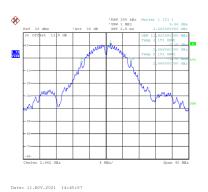


99 % Occupied Bandwidth

Date: 11.NOV.2021 14:44:19



Date: 11.NOV.2021 14:45:50



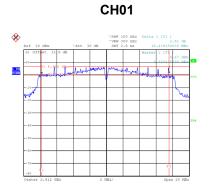
Date: 11.NOV.2021 14:40:03

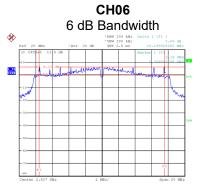
Date: 11.NOV.2021 14:44:26

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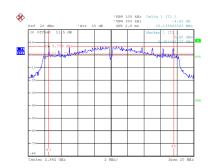


Test Mode TX G Mode								
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result			
01	2412	15.44	17.20	0.50	Complies			
06	2437	15.20	17.12	0.50	Complies			
11	2462	15.14	17.04	0.50	Complies			

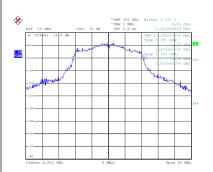




CH11

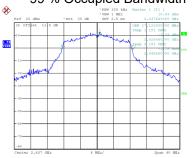


Date: 11.NOV.2021 14:47:29

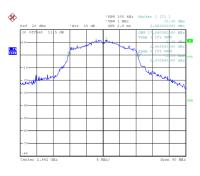


99 % Occupied Bandwidth

Date: 11.NOV.2021 14:48:47



Date: 11.NOV.2021 14:50:15



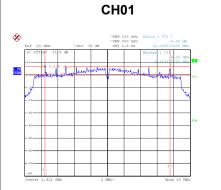
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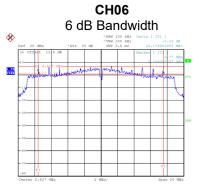
Date: 11.NOV.2021 14:48:54

Date: 11.NOV.2021 14:50:21

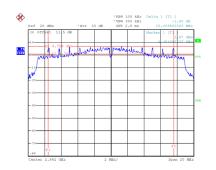


Test Mode TX N(HT20) Mode								
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result			
01	2412	15.15	18.16	0.50	Complies			
06	2437	15.18	18.16	0.50	Complies			
11	2462	15.21	18.00	0.50	Complies			

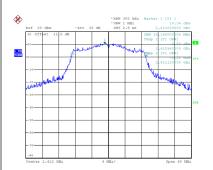




CH11

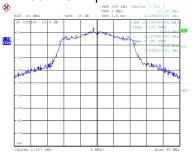


Date: 11.NOV.2021 14:52:40

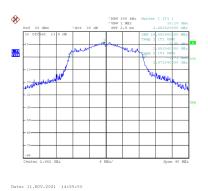


99 % Occupied Bandwidth

Date: 11.NOV.2021 14:54:14



Date: 11.NOV.2021 14:55:44



Date: 11.NOV.2021 14:52:47

Date: 11.NOV.2021 14:54:21



APPENDIX F - MAXIMUM OUTPUT POWER



Test Mode TX B Mode								
Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result	
01	2412	17.11	0.00	17.11	30.00	1.0000	Complies	
06	2437	17.26	0.00	17.26	30.00	1.0000	Complies	
11	2462	15.63	0.00	15.63	30.00	1.0000	Complies	

Test Mode TX G Mode

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	10.98	0.31	11.29	30.00	1.0000	Complies
06	2437	17.18	0.31	17.49	30.00	1.0000	Complies
11	2462	12.27	0.31	12.58	30.00	1.0000	Complies

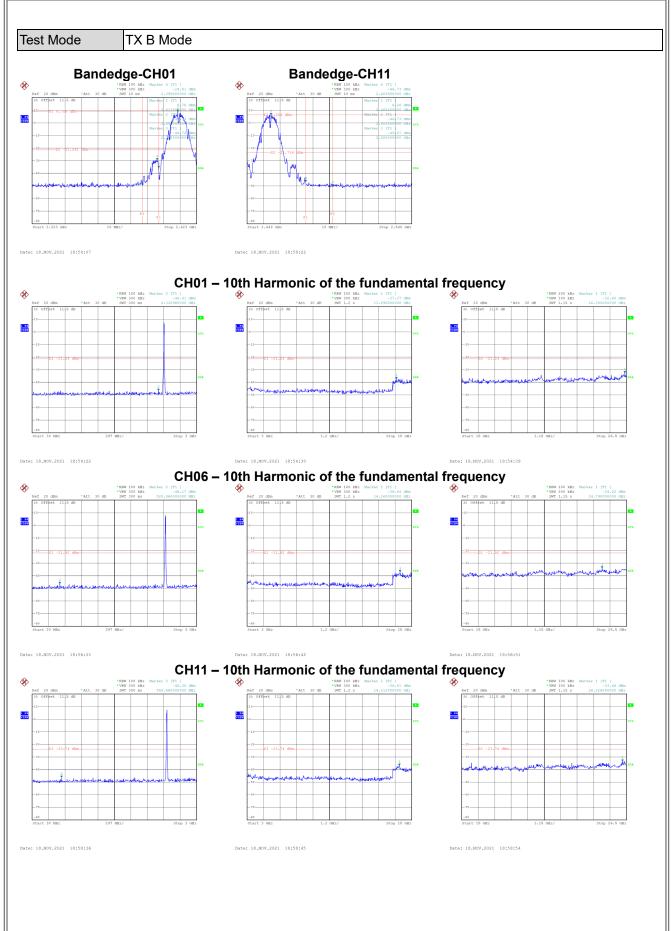
Test Mode TX N(HT20) Mode

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	11.48	0.32	11.80	30.00	1.0000	Complies
06	2437	17.06	0.32	17.38	30.00	1.0000	Complies
11	2462	12.65	0.32	12.97	30.00	1.0000	Complies

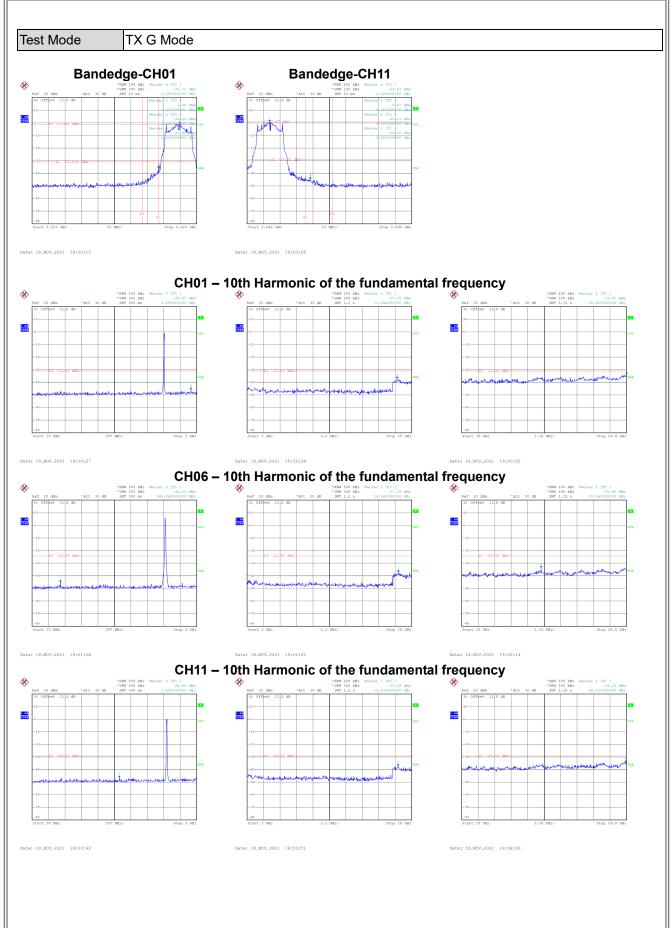


APPENDIX G - CONDUCTED SPURIOUS EMISSIONS

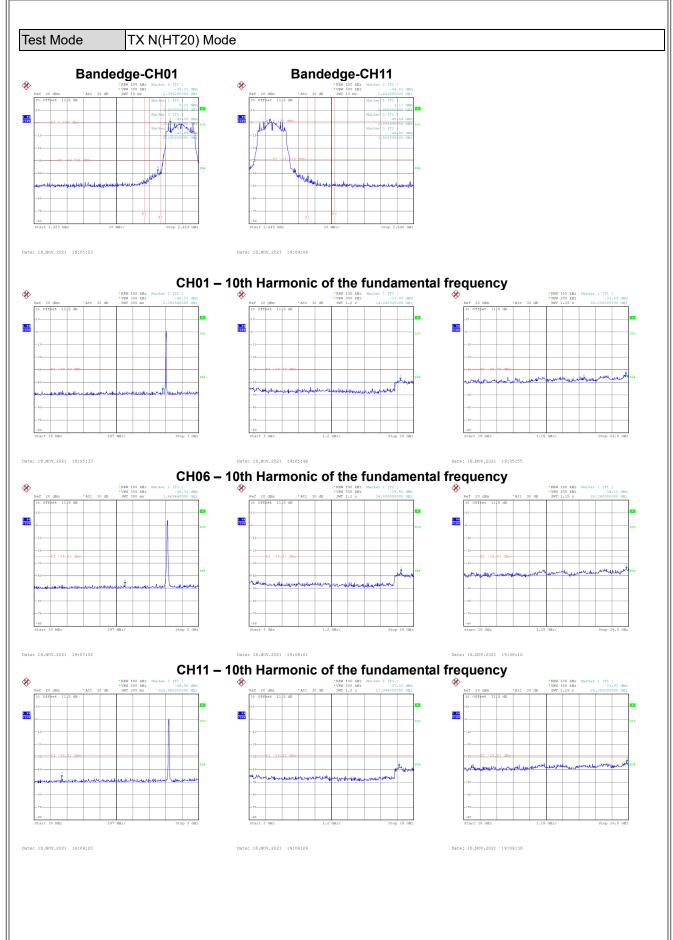










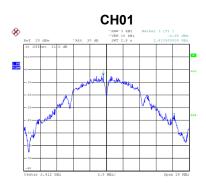




APPENDIX H - POWER SPECTRAL DENSITY



Test Mode TX B Mode							
Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result			
01	2412	-4.65	8.00	Complies			
06	2437	-4.05	8.00	Complies			
11	2462	-5.27	8.00	Complies			





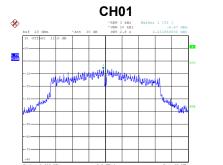


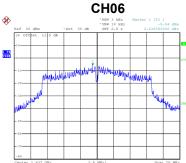
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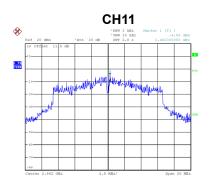
Date: 11.NOV.2021 14:45:08

Test Mode TX G Mode

Frequency Power Spectral Density Max. Limit Channel Result (MHz) (dBm/3kHz) (dBm/3kHz) 01 2412 -6.47 8.00 Complies 06 2437 -5.94 8.00 Complies 11 -4.58 2462 8.00 Complies







Date: 11.NOV.2021 14:48:18

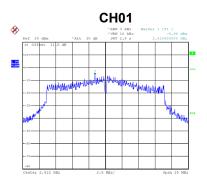
Date: 11.NOV.2021 14:49:36

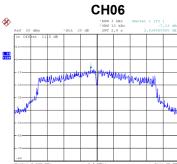
Date: 11.NOV.2021 14:51:03

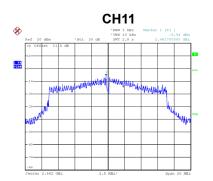


Test Mode TX N(HT20) Mode

Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
01	2412	-5.96	8.00	Complies
06	2437	-7.13	8.00	Complies
11	2462	-5.94	8.00	Complies







Date: 11.NOV.2021 14:56:32

Date: 11.NOV.2021 14:53:29

Date: 11.NOV.2021 14:55:03

End of Test Report