



FCC Radio Test Report

FCC ID: XDQG25-01

This report concerns: Original Grant

Project No. : 2403G125
Equipment : POS Terminal
Brand Name : NEXGO
Test Model : G25
Series Model : N/A
Applicant : Shenzhen Xinguodu Technology Co., Ltd.
Address : 17B JinSong Mansion, Terra Industrial & Trade Park Chegongmiao, Futian District, Shenzhen, China
Manufacturer : Shenzhen Xinguodu Technology Co., Ltd.
Address : 17B JinSong Mansion, Terra Industrial & Trade Park Chegongmiao, Futian District, Shenzhen, China
Factory : Shenzhen Xinguodu Technology Co., Ltd. Manufacture Branch
Address : Building C, Dagang Industrial Park, Changzhen Community, Gongming Office, Guangming New District, Shenzhen, Guangdong, China.
Date of Receipt : Mar. 25, 2024
Date of Test : Mar. 25, 2024 ~ Apr. 09, 2024
Issued Date : Apr. 24, 2024
Report Version : R01
Test Sample : Engineering Sample No.: SSL2024032566 for radiated, SSL2024032563 for conducted.
Standard(s) : FCC CFR Title 47, Part 15, Subpart C

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

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Declaration

BTL represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

BTL's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. **BTL** assumes no responsibility for the data provided by the customer, any statements, inferences or generalizations drawn by the customer or others from the reports issued by **BTL**.

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BTL's laboratory quality assurance procedures are in compliance with the ISO/IEC 17025: 2017 requirements, and accredited by the conformity assessment authorities listed in this test report.

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 No.	Version	Description	Issued Date	Note
BTL-FCCP-4-2403G125	R00	Original Report.	Apr. 19, 2024	Invalid
BTL-FCCP-4-2403G125	R01	Removed the EUT test photo.	Apr. 24, 2024	Valid

1. APPLICABLE STANDARDS

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

ANSI C63.10-2013

The following reference test guidance is not within the scope of accreditation of A2LA:

KDB 558074 D01 15.247 Meas Guidance v05r02

2. 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	Remark
15.207	AC Power Line Conducted Emissions	APPENDIX A	PASS	-----
15.247(d) 15.205(a) 15.209(a)	Radiated Emissions	APPENDIX B APPENDIX C APPENDIX D	PASS	-----
15.247(a)(2)	Bandwidth	APPENDIX E	PASS	-----
15.247(b)(3)	Maximum Output Power	APPENDIX F	PASS	-----
15.247(d)	Conducted Spurious 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.

2.1 TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No.3, Jinshagang 1st Road, Dalang, Dongguan City, Guangdong People's Republic of China.

BTL's Registration Number for FCC: 747969.

BTL's Designation Number for FCC: CN1377.

2.2 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 95.45% confidence level (based on a coverage factor (k=2))

The BTL measurement uncertainty as below table:

A. Conducted emissions test:

Test Site	Method	Measurement Frequency Range	U,(dB)
DG-C02	CISPR	150kHz ~ 30MHz	2.88

B. Radiated emissions test:

Test Site	Method	Measurement Frequency Range	U,(dB)
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	4.40
		30MHz ~ 200MHz	H	3.62
		200MHz ~ 1,000MHz	V	4.58
		200MHz ~ 1,000MHz	H	3.98

Test Site	Method	Measurement Frequency Range	U,(dB)
DG-CB03 (3m)	CISPR	1GHz ~ 6GHz	4.08
		6GHz ~ 18GHz	4.62

Test Site	Method	Measurement Frequency Range	U,(dB)
DG-CB03 (1m)	CISPR	18 ~ 26.5 GHz	3.36

C. Other Measurement:

Test Item	Uncertainty
Bandwidth	0.90 %
Maximum Output Power	1.3 dB
Conducted Spurious Emission	1.9 dB
Power Spectral Density	1.4 dB
Temperature	0.8 °C
Humidity	2.2 %

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

2.3 TEST ENVIRONMENT CONDITIONS

Test Item	Temperature	Humidity	Test Voltage	Tested By	Test Date
AC Power Line Conducted Emissions	26°C	70%	AC 120V/60Hz	Hayden Chen	Apr. 01, 2024
Radiated Emissions -9kHz to 30 MHz	24°C	54%	AC 120V/60Hz	Hayden Chen	Apr. 03, 2024
Radiated Emissions -30MHz to 1000MHz	25°C	48%	AC 120V/60Hz	Jensen Zhou	Apr. 04, 2024
Radiated Emissions -Above 1000MHz	25°C	48%	AC 120V/60Hz	Jensen Zhou	Apr. 04, 2024
Bandwidth	24°C	53%	DC 5V	Steve Zhou	Apr. 04, 2024
	24°C	52%	DC 5V	Steve Zhou	Apr. 08, 2024
Maximum Output Power	23°C	54%	DC 5V	Oliver Wang	Mar. 30, 2024
Conducted Spurious Emissions	24°C	53%	DC 5V	Steve Zhou	Apr. 04, 2024
	24°C	52%	DC 5V	Steve Zhou	Apr. 08, 2024
Power Spectral Density	24°C	53%	DC 5V	Steve Zhou	Apr. 04, 2024
	24°C	52%	DC 5V	Steve Zhou	Apr. 08, 2024

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	POS Terminal
Brand Name	NEXGO
Test Model	G25
Series Model	N/A
Model Difference(s)	N/A
Hardware Version	V1.0
Software Version	BF.00.16_231228
Power Source	1) DC Voltage supplied from AC adapter. 1# Brand / Model: RUIJING / RJ49-W050100US (US plug) 2# Brand / Model: RUIJING / RJ49-W050100EU (EU plug) 3# Brand / Model: HONOR / ADS-6MA-06 05050EPG (EU plug) 4# Brand / Model: HONOR / ADS-6MA-06 05050EPCU (US plug) 2) Supplied from battery. Model: G2-18650
Power Rating	1) 1# I/P: 100-240V~ 50/60Hz 250mA O/P: 5.0V --- 1000mA 2# I/P: 100-240V~ 50/60Hz 250mA O/P: 5.0V --- 1.0A 5.0W 3# I/P: 100-240V~ 50/60Hz Max. 0.3A O/P: 5.0V --- 1.0A 5.0W 4# I/P: 100-240V~ 50/60Hz Max. 0.3A O/P: 5V --- 1.0A 2) DC 3.6V, 2600mAh, 9.36Wh
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 802.11n20: 16.17 dBm (0.0414 W)

Note:

- For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- There are two kinds of configuration products: RF is the same and NFC/WIFI/2G/3G/4G has only one module or module.
 Configuration 1: LTE(Latin America)+WIFI + non-connection + professional scanning head + ESIM (ESMI-ESMI is the SIM card of the patch, the POS machine is a dual card, one of the card slots is affixed with ESIM, the other card slots is reserved for the ordinary SIM card) + single SIM.
 Configuration 2: LTE(Latin America)+WIFI + non-connect (contactless IC card) + fingerprint + dual SIM.

3. 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		

4. Antenna Specification:

Ant.	Manufacturer	P/N	Antenna Type	Connector	Gain (dBi)
1	shenzhen bogesi communication technology co.,ltd	XGD-183B	FPC	Touch	4.69

3.2 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 N(HT20) 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 N(HT20) Mode Channel 06

Radiated emissions test - Below 1GHz	
Final Test Mode	Description
Mode 4	TX N(HT20) 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:

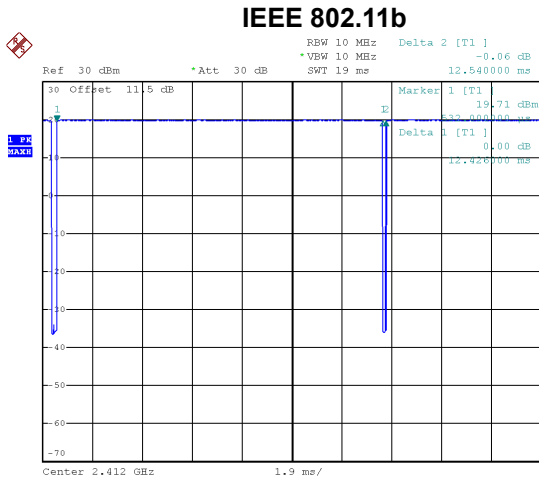
- (1) All the bit rate of transmitter have been tested and found the lowest rate is found to be the worst case and recorded.
- (2) For AC power line conducted emissions and radiated emission below 1 GHz test, the TX N(HT20) Mode Channel 06 is found to be the worst case and recorded.
- (3) For radiated 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 Harmonic 18-26.5GHz test, only tested the worst case and recorded.
- (5) For radiated emission above 1 GHz test, the polarization of Vertical and Horizontal are evaluated, the worst case is Vertical and recorded.
- (6) Evaluated two kinds of configurations products, the worst case is Configuration 2 and recorded in this report.
- (7) For radiated spurious emissions test: All adapters had been pre-tested, found the worst case was tested with adapter: RJ49-W050100US and recorded in this report.

3.3 PARAMETERS OF TEST SOFTWARE

Test Software Version	IPOP V4.0		
Frequency (MHz)	2412	2437	2462
IEEE 802.11b	23	25	35
IEEE 802.11g	46	52	52
IEEE 802.11n(HT20)	44	54	47

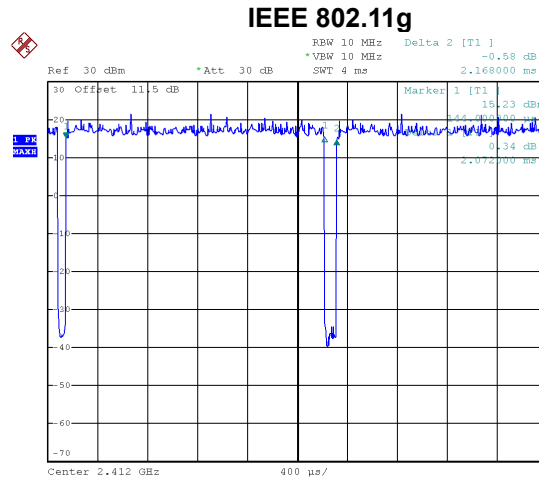
3.4 DUTY CYCLE

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.



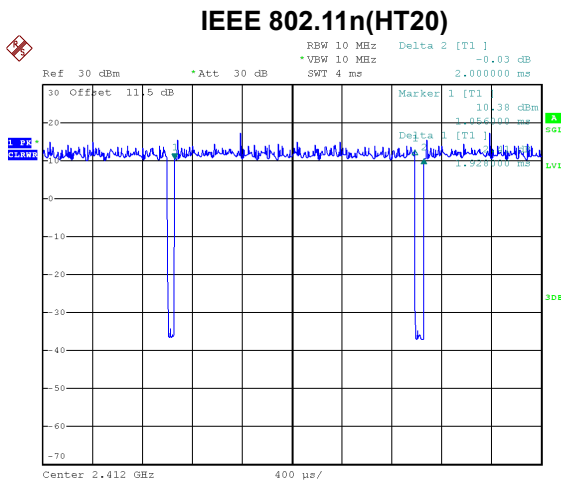
Date: 4.APR.2024 10:54:25

Duty cycle = $12.426 \text{ ms} / 12.540 \text{ ms} = 99.09\%$
 Duty Factor = $10 \log(1/\text{Duty cycle}) = 0.00$



Date: 4.APR.2024 10:54:54

Duty cycle = $2.072 \text{ ms} / 2.168 \text{ ms} = 95.57\%$
 Duty Factor = $10 \log(1/\text{Duty cycle}) = 0.20$



Date: 4.APR.2024 10:55:07

Duty cycle = $1.928 \text{ ms} / 2.000 \text{ ms} = 96.40\%$
 Duty Factor = $10 \log(1/\text{Duty cycle}) = 0.16$

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.

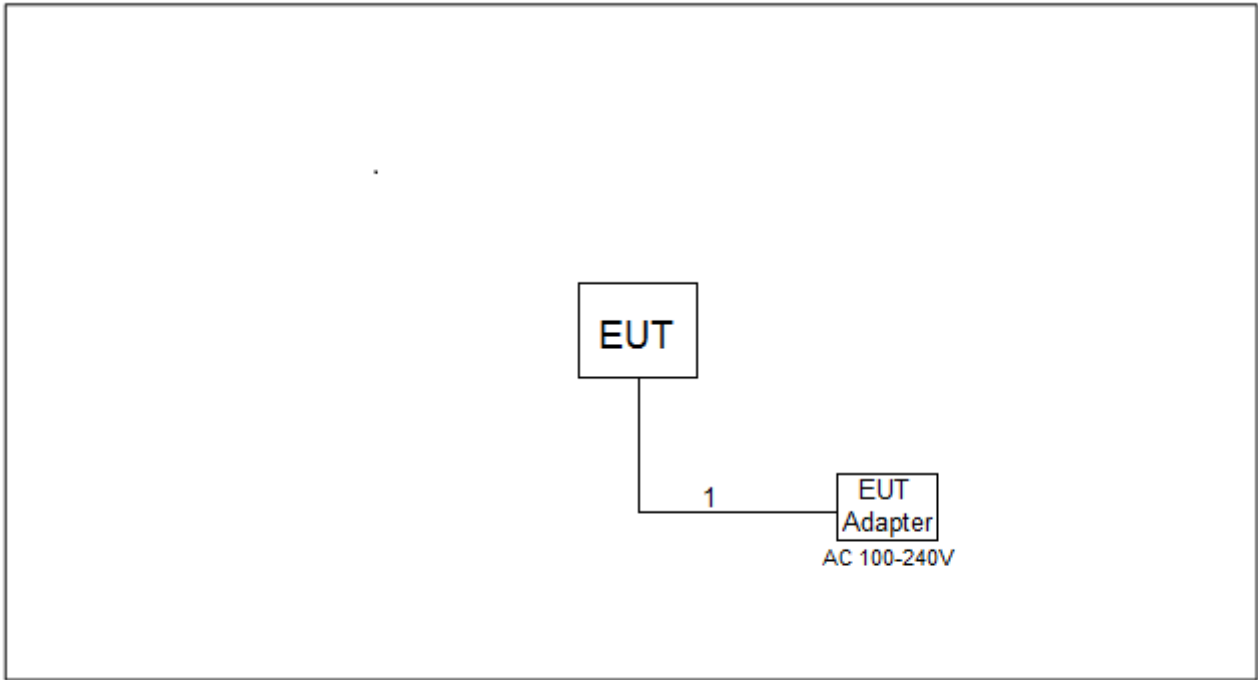
For IEEE 802.11g:

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 483 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 519 Hz.

3.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



3.6 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.
-	-	-	-	-

Item	Cable Type	Shielded Type	Ferrite Core	Length
1	DC Cable	NO	NO	1.2m

3.7 CUSTOMER INFORMATION DESCRIPTION

- 1) The antenna gain and beamforming gain are provided by the manufacturer.
- 2) Except for AC power line conducted emissions and radiated emissions, the results of all test items include cable losses. All cable losses are provided by the testing laboratory.

4. AC POWER LINE CONDUCTED EMISSIONS

4.1 LIMIT

Frequency of Emission (MHz)	Limit (dB μ V)	
	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) The test result calculated as following:
 Measurement Value = Reading Level + Correct Factor
 Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor (if use)
 Margin Level = Measurement Value - Limit Value

4.2 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.

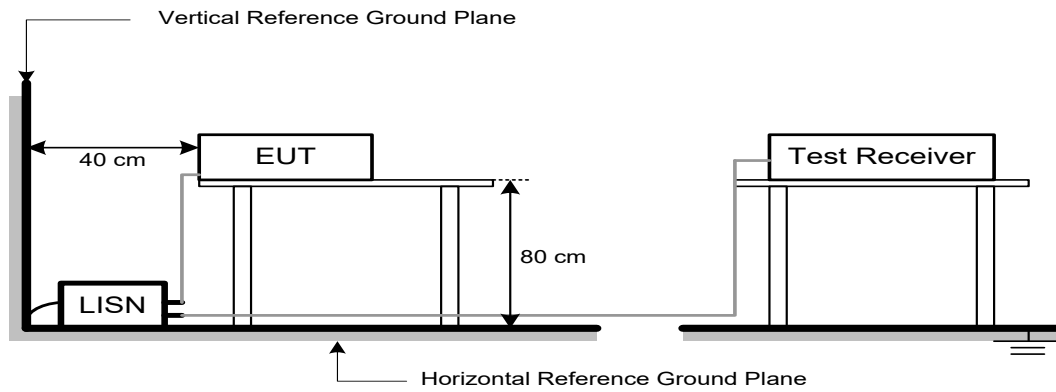
The following table is the setting of the receiver:

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

4.3 DEVIATION FROM TEST STANDARD

No deviation.

4.4 TEST SETUP



4.5 EUT OPERATION CONDITIONS

EUT was programmed to be in continuously transmitting mode.

4.6 TEST RESULTS

Please refer to the APPENDIX A.

5. RADIATED EMISSIONS

5.1 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 (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000 MHz)

Frequency (MHz)	Band edge / Harmonic at 3m (dB μ V/m)		Harmonic at 1m (dB μ V/m)	
	Peak	Average	Peak	Average
Above 1000	74	54	83.5 (Note 5)	63.5 (Note 5)

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 (dB μ V/m)=20log Emission level (uV/m).
- (4) The test result calculated as following:
 Measurement Value = Reading Level + Correct Factor
 Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use)
 Margin Level = Measurement Value - Limit Value

(5)

$$FS_{\text{limit}} = FS_{\text{max}} - 20 \log \left(\frac{d_{\text{limit}}}{d_{\text{measure}}} \right)$$

$$20 \log (d_{\text{limit}}/d_{\text{measure}}) = 20 \log (3/1) = 9.5 \text{ dB.}$$

5.2 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 or 1m 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 1GHz)
- 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:

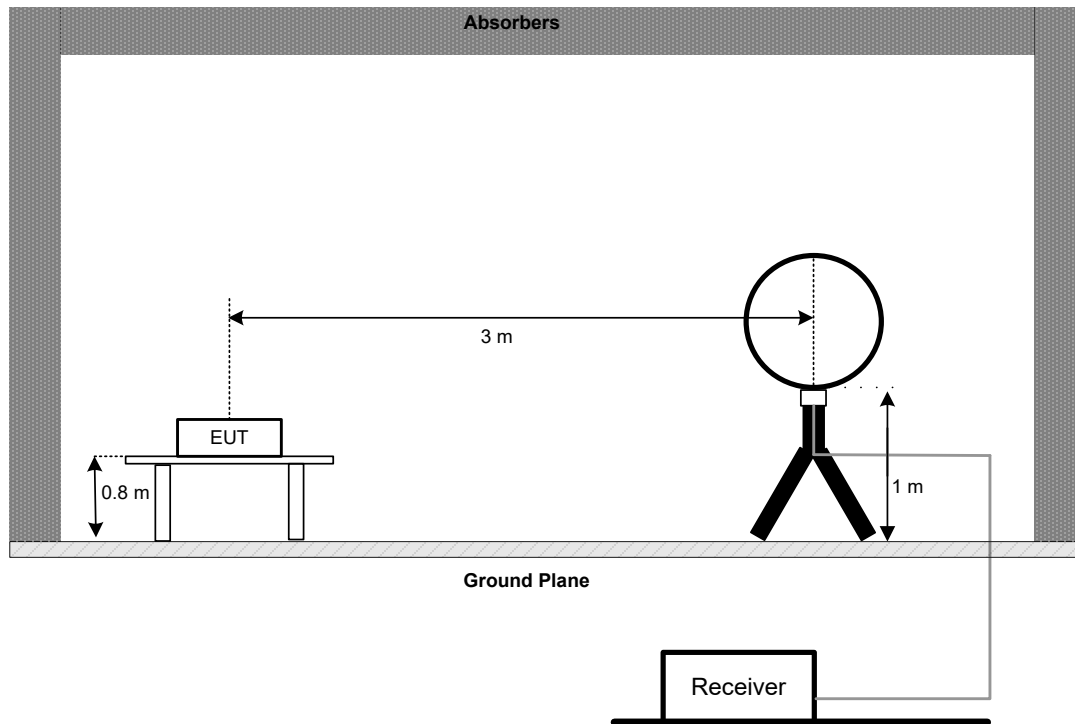
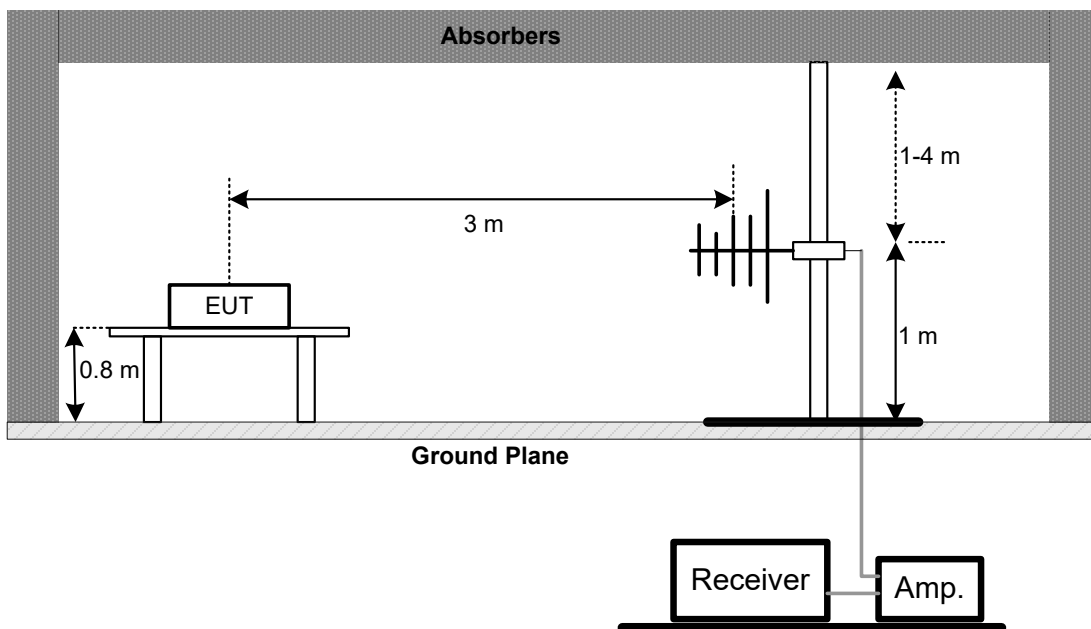
Spectrum Parameters	Setting
Start ~ Stop Frequency	9 kHz~150 kHz for RBW 200 Hz
Start ~ Stop Frequency	0.15 MHz~30 MHz for RBW 9 kHz
Start ~ Stop Frequency	30 MHz~1000 MHz for RBW 100 kHz

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

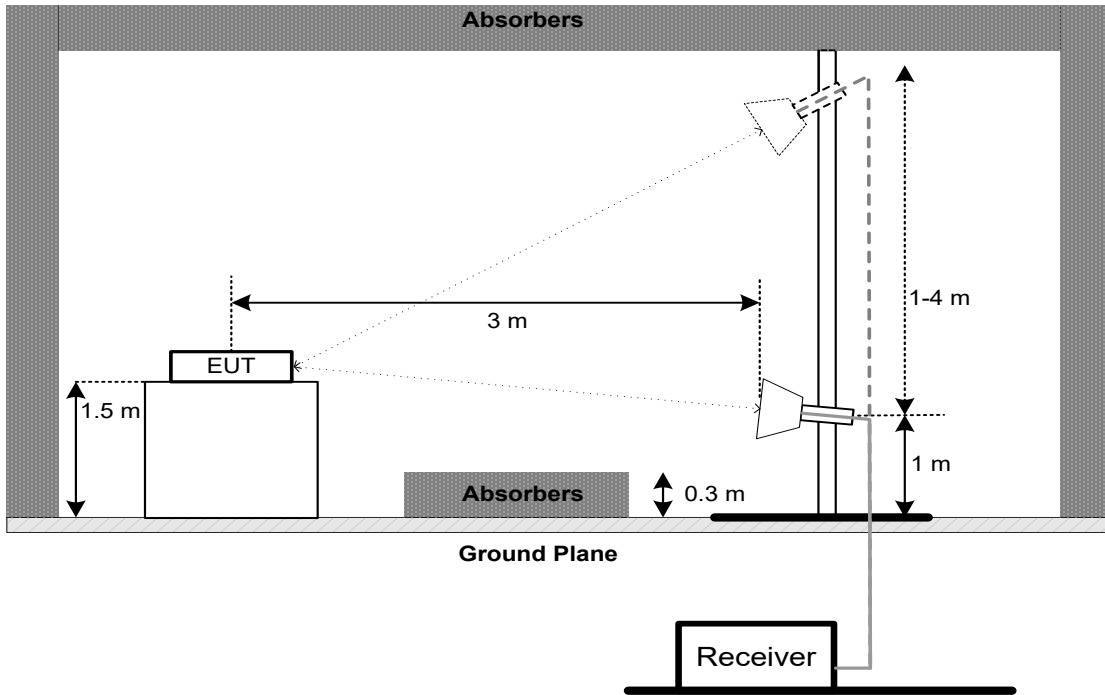
Receiver Parameters	Setting
Start ~ Stop Frequency	9 kHz~90 kHz for PK/AVG detector
Start ~ Stop Frequency	90 kHz~110 kHz for QP detector
Start ~ Stop Frequency	110 kHz~490 kHz for PK/AVG detector
Start ~ Stop Frequency	490 kHz~30 MHz for QP detector
Start ~ Stop Frequency	30 MHz~1000 MHz for QP detector
Start ~ Stop Frequency	1 GHz~26.5 GHz for PK/AVG detector

5.3 DEVIATION FROM TEST STANDARD

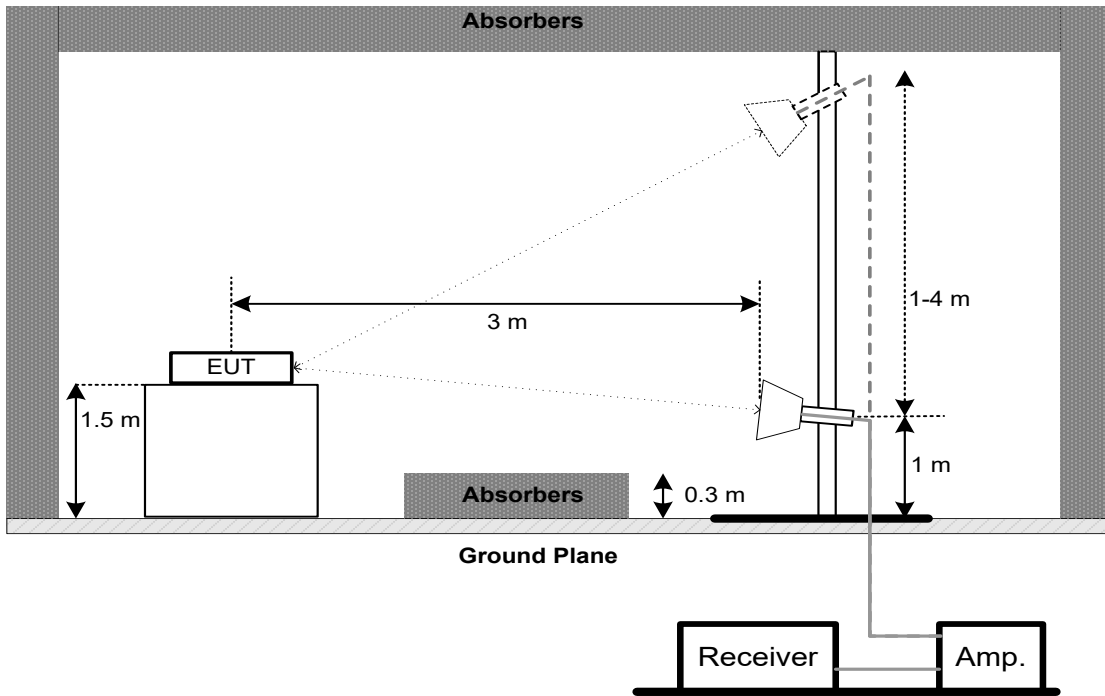
No deviation.

5.4 TEST SETUP**9 kHz to 30 MHz****30 MHz to 1 GHz**

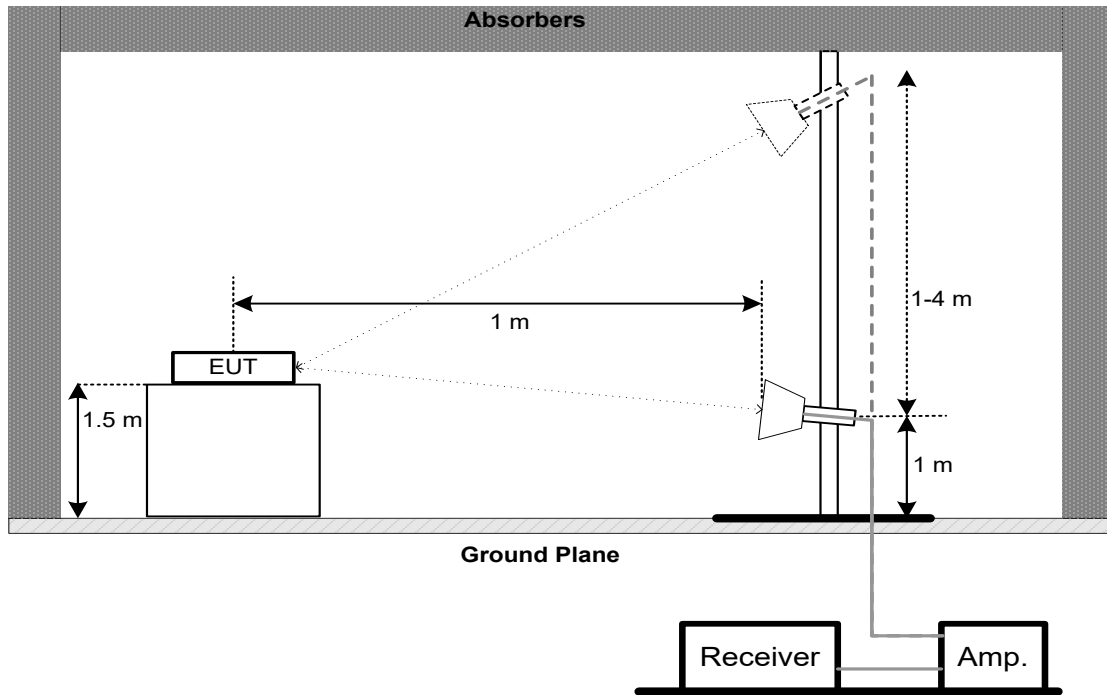
Above 1 GHz Band edge



Harmonic (1 GHz to 18 GHz)



Harmonic (18 GHz to 26.5 GHz)



5.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

5.6 TEST RESULTS - 9 KHZ TO 30 MHZ

Please refer to the APPENDIX B.

Remark:

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

5.7 TEST RESULTS - 30 MHZ TO 1000 MHZ

Please refer to the APPENDIX C.

5.8 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.

6. BANDWIDTH

6.1 LIMIT

Section	Test Item	Limit
FCC 15.247(a)(2)	6 dB Bandwidth	Minimum 500 kHz
	99% Emission Bandwidth	-

6.2 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- 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

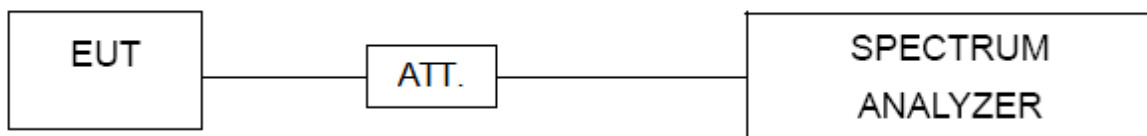
For 99% Emission Bandwidth:

Spectrum Parameters	Setting
Span Frequency	Between 1.5 times and 5.0 times the OBW
RBW	300 kHz For 20MHz 1 MHz For 40MHz
VBW	1 MHz For 20MHz 3 MHz For 40MHz
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 E.

7. MAXIMUM OUTPUT POWER

7.1 LIMIT

Section	Test Item	Limit
FCC 15.247(b)(3)	Maximum Output Power	1.0000 Watt or 30.00 dBm

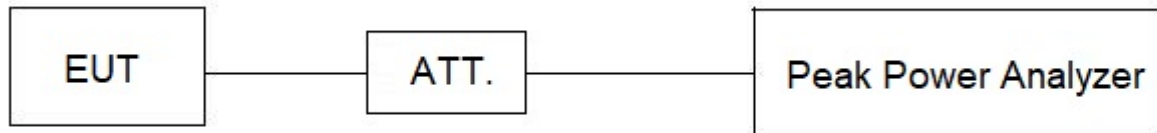
7.2 TEST PROCEDURE

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

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 F.

8. CONDUCTED SPURIOUS EMISSIONS

8.1 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.

8.2 TEST PROCEDURE

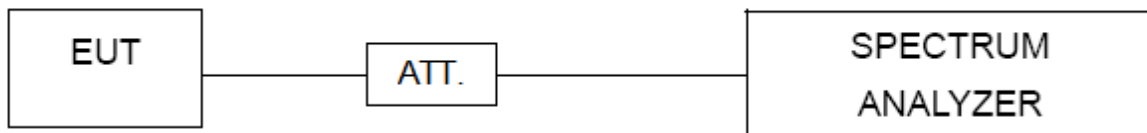
- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. The following table is the setting of the spectrum analyzer:

Spectrum Parameters	Setting
Start Frequency	30 MHz
Stop Frequency	26.5 GHz
RBW	100 kHz
VBW	300 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 G.

9. POWER SPECTRAL DENSITY

9.1 LIMIT

Section	Test Item	Limit
FCC 15.247(e)	Power Spectral Density	8 dBm (in any 3 kHz)

9.2 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 (20 MHz)
RBW	3 kHz
VBW	10 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

9.3 DEVIATION FROM STANDARD

No deviation.

9.4 TEST SETUP



9.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

9.6 TEST RESULTS

Please refer to the APPENDIX H.

10. 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	ESR3	103027	Jun. 16, 2024
2	TWO-LINE V-NETWORK	R&S	ENV216	101447	Dec. 22, 2024
3	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
4	Cable	N/A	SFT205-NMNM-9M-00 1	9M	Nov. 27, 2024
5	643 Shield Room	ETS	6*4*3	N/A	N/A

Radiated Emissions - 9 kHz to 30 MHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Active Loop Antenna	Schwarzbeck	FMZB 1513-60	25	Mar. 30, 2025
2	MXE EMI Receiver	Keysight	N9038A	MY56400091	Dec. 22, 2024
3	Cable	N/A	RW2350-3.8A-NMBM- 1.5M	N/A	Jun. 10, 2024
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. 11, 2024

Radiated Emissions - 30 MHz to 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Trilog-Broadband Antenna	Schwarzbeck	VULB 9168	1462	Dec. 13, 2024
2	Attenuator	EMC INSTRUMENT	EMCI-N-6-06	AT-06009	Dec. 13, 2024
3	Preamplifier	EMC INSTRUMENT	EMC001330	980998	Nov. 17, 2024
4	Cable	RegalWay	LMR400-NMNM-12.5m	N/A	Jul. 04, 2024
5	Cable	RegalWay	LMR400-NMNM-3m	N/A	Jul. 04, 2024
6	Cable	RegalWay	LMR400-NMNM-0.5m	N/A	Jul. 04, 2024
7	Receiver	Agilent	N9038A	MY52130039	Dec. 22, 2024
8	Positioning Controller	MF	MF-7802	N/A	N/A
9	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
10	966 Chamber room	CM	9*6*6	N/A	May 17, 2024

Radiated Emissions - Above 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Receiver	Agilent	N9038A	MY52130039	Dec. 22, 2024
2	Preamplifier	EMC INSTRUMENT	EMC118A45SE	980888	Nov. 17, 2024
3	EXA Spectrum Analyzer	Keysight	N9010A	MY55150209	Jun. 16, 2024
4	Double Ridged Guide Antenna	ETS	3115	75789	May 31, 2024
5	Cable	RegalWay	RWLP50-4.0A-SMSM-12.5M	N/A	Feb. 19, 2025
6	Cable	RegalWay	RWLP50-4.0A-NMRAS M-2.5M	N/A	Aug. 08, 2024
7	Cable	RegalWay	RWLP50-4.0A-NMRAS MRA-0.8M	N/A	Aug. 08, 2024
8	Low Noise Amplifier	CONNPHY	CLN-18G40G-4330-K	619413	Jul. 06, 2024
9	Cable	RegalWay	RWLP50-2.6A-2.92M2.92M-1.1M	N/A	Jul. 26, 2024
10	Cable	Tonscend	HF160-KMKM-3M	N/A	Jul. 26, 2024
11	Broad-Band Horn Antenna	Schwarzbeck	BBHA9170(3m)	9170-319	Jun. 20, 2024
12	966 Chamber room	CM	9*6*6	N/A	May 17, 2024
13	Attenuator	Talent Microwave	TA10A2-S-18	N/A	N/A
14	Filter	STI	STI15-9912	N/A	Jun. 16, 2024
15	Positioning Controller	MF	MF-7802	N/A	N/A
16	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Bandwidth & Conducted Spurious Emissions & Power Spectral Density					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP38	100852	Jun. 16, 2024
2	Measurement Software	BTL	BTL Conducted Test	N/A	N/A
3	Attenuator	Talent Microwave	TA10A0-S-26.5	N/A	N/A
4	DC Block	N/A	N/A	N/A	N/A

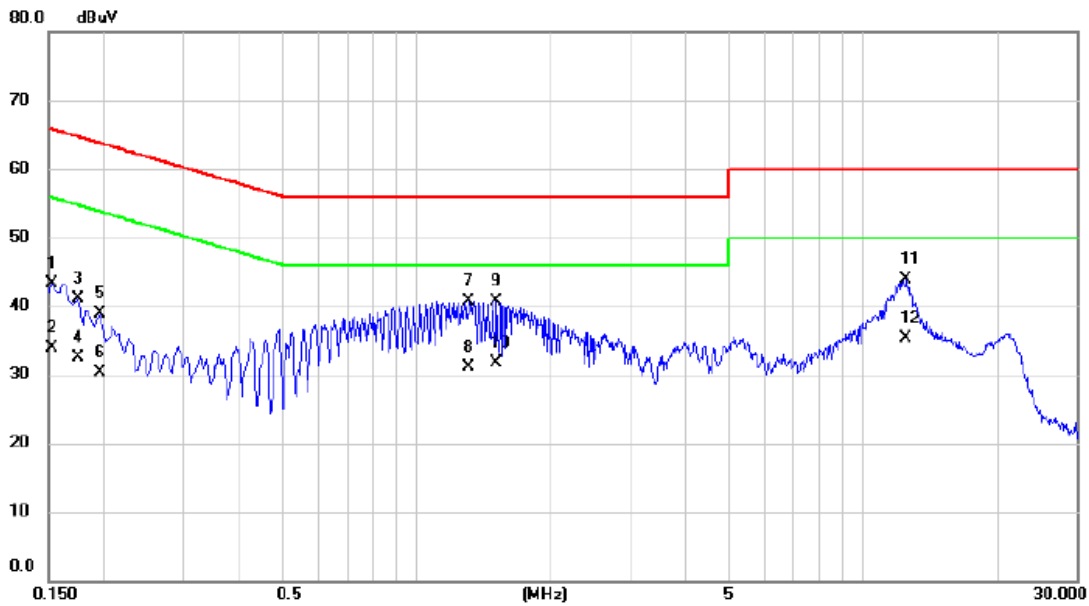
Maximum Output Power					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Peak Power Analyzer	Keysight	8990B	MY51000506	Jun. 17, 2024
2	Wideband power sensor	Keysight	N1923A	MY58310004	Jun. 17, 2024
3	Attenuator	Talent Microwave	TA10A2-S-18	N/A	N/A

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

All calibration period of equipment list is one year.

APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS

Test Mode	TX N(HT20) Mode Channel 06	Phase	Line
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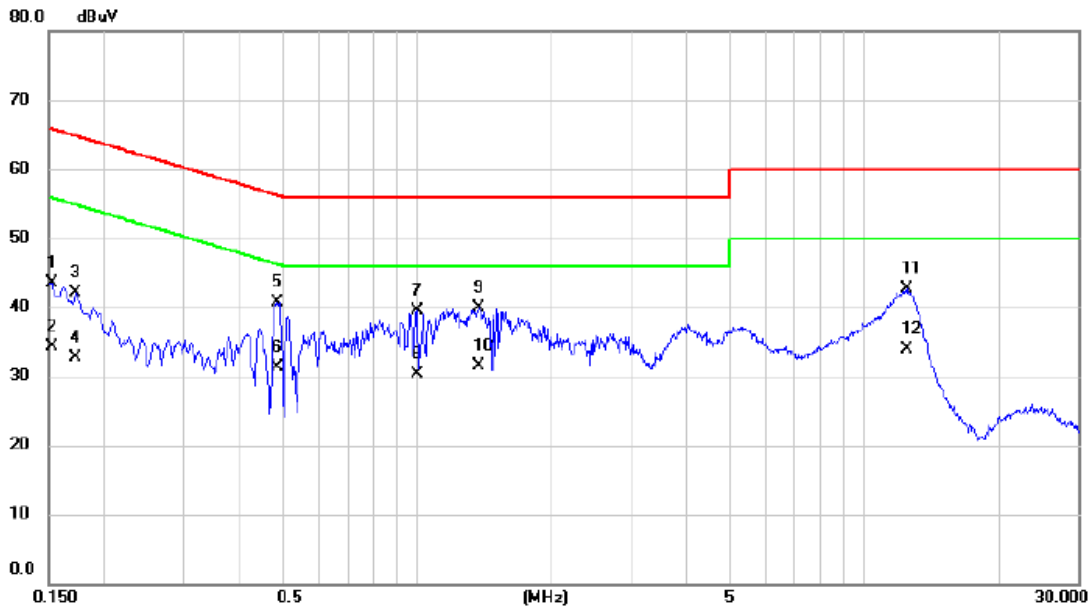


No.	Mk.	Freq. MHz	Reading Level dBμV	Correct Factor dB	Measure- ment dBμV	Limit dBμV	Margin dB	Detector	Comment
1		0.1522	33.60	9.74	43.34	65.88	-22.54	QP	
2		0.1522	24.20	9.74	33.94	55.88	-21.94	AVG	
3		0.1748	31.44	9.74	41.18	64.73	-23.55	QP	
4		0.1748	22.70	9.74	32.44	54.73	-22.29	AVG	
5		0.1950	29.08	9.74	38.82	63.82	-25.00	QP	
6		0.1950	20.50	9.74	30.24	53.82	-23.58	AVG	
7		1.3110	30.86	9.83	40.69	56.00	-15.31	QP	
8		1.3110	21.30	9.83	31.13	46.00	-14.87	AVG	
9		1.5090	30.85	9.84	40.69	56.00	-15.31	QP	
10	*	1.5090	21.90	9.84	31.74	46.00	-14.26	AVG	
11		12.4643	33.39	10.45	43.84	60.00	-16.16	QP	
12		12.4643	24.80	10.45	35.25	50.00	-14.75	AVG	

REMARKS:

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

Test Mode	TX N(HT20) Mode Channel 06	Phase	Neutral
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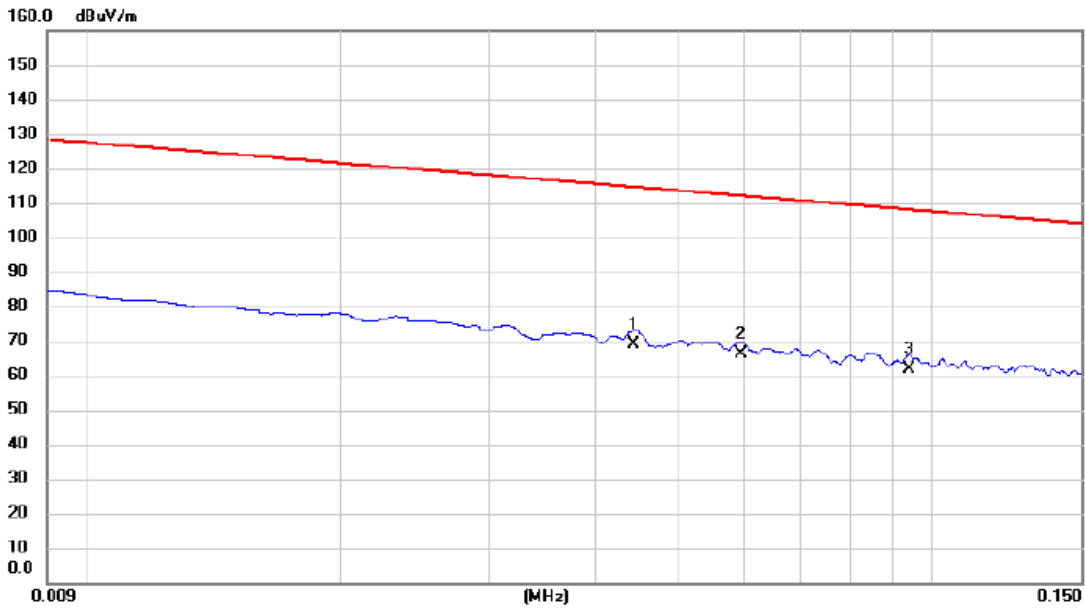
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1522	33.99	9.59	43.58	65.88	-22.30	QP	
2		0.1522	24.80	9.59	34.39	55.88	-21.49	AVG	
3		0.1725	32.49	9.59	42.08	64.84	-22.76	QP	
4		0.1725	23.20	9.59	32.79	54.84	-22.05	AVG	
5		0.4875	30.97	9.65	40.62	56.21	-15.59	QP	
6		0.4875	21.70	9.65	31.35	46.21	-14.86	AVG	
7		0.9982	29.82	9.68	39.50	56.00	-16.50	QP	
8		0.9982	20.60	9.68	30.28	46.00	-15.72	AVG	
9		1.3763	30.12	9.69	39.81	56.00	-16.19	QP	
10	*	1.3763	21.90	9.69	31.59	46.00	-14.41	AVG	
11		12.4823	32.39	10.32	42.71	60.00	-17.29	QP	
12		12.4823	23.50	10.32	33.82	50.00	-16.18	AVG	

REMARKS:

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

APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ

Test Mode	TX N(HT20) Mode Channel 06	Polarization	Ant 0°
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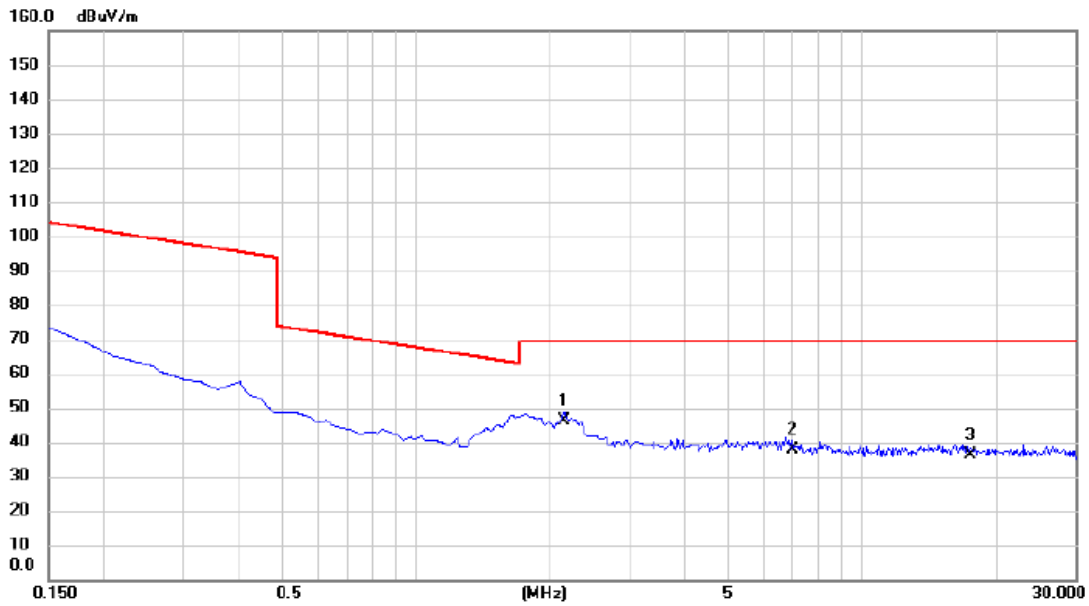


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	0.0444	47.93	21.27	69.20	114.66	-45.46	AVG	
2		0.0594	44.85	21.30	66.15	112.13	-45.98	AVG	
3		0.0940	40.36	21.33	61.69	108.14	-46.45	QP	

REMARKS:

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

Test Mode	TX N(HT20) Mode Channel 06	Polarization	Ant 0°
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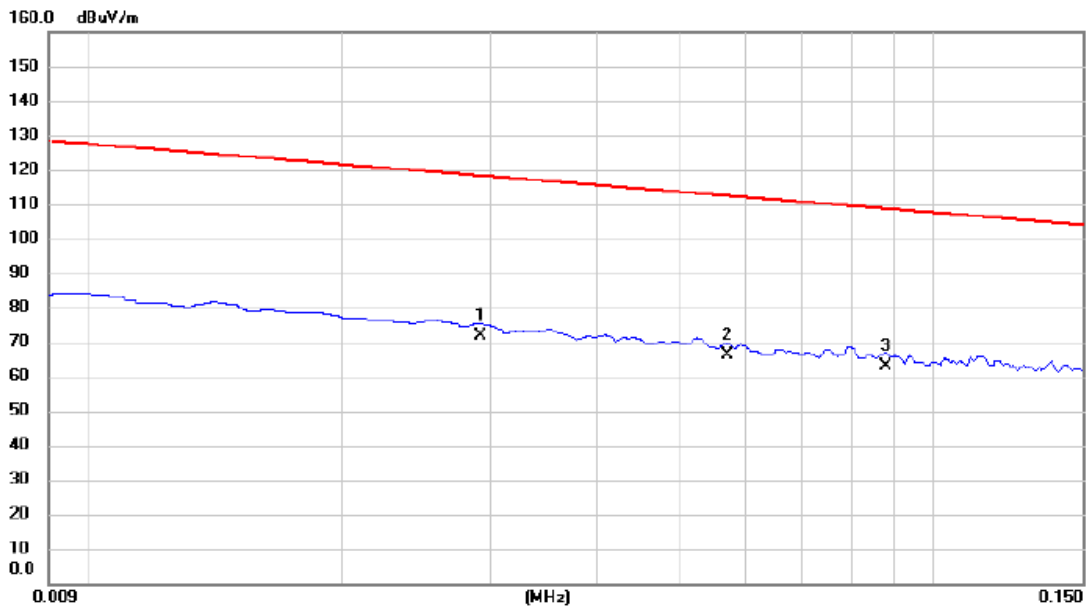


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2.1500	24.91	21.20	46.11	69.54	-23.43	QP	
2		6.9856	16.34	21.52	37.86	69.54	-31.68	QP	
3		17.4930	14.22	21.88	36.10	69.54	-33.44	QP	

REMARKS:

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

Test Mode	TX N(HT20) Mode Channel 06	Polarization	Ant 90°
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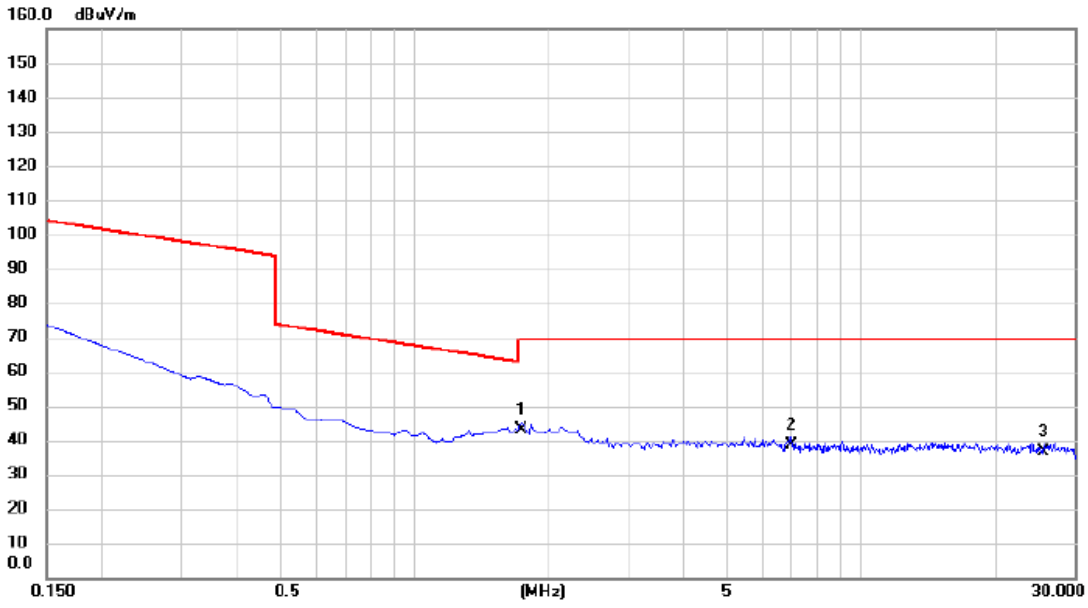


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	0.0292	50.43	21.19	71.62	118.30	-46.68	AVG	
2	0.0572	44.89	21.30	66.19	112.46	-46.27	AVG	
3 *	0.0878	41.52	21.30	62.82	108.73	-45.91	AVG	

REMARKS:

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

Test Mode	TX N(HT20) Mode Channel 06	Polarization	Ant 90°
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No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	1.7321	21.63	21.18	42.81	69.54	-26.73	QP	
2		6.9707	17.08	21.52	38.60	69.54	-30.94	QP	
3		25.5822	14.25	22.17	36.42	69.54	-33.12	QP	

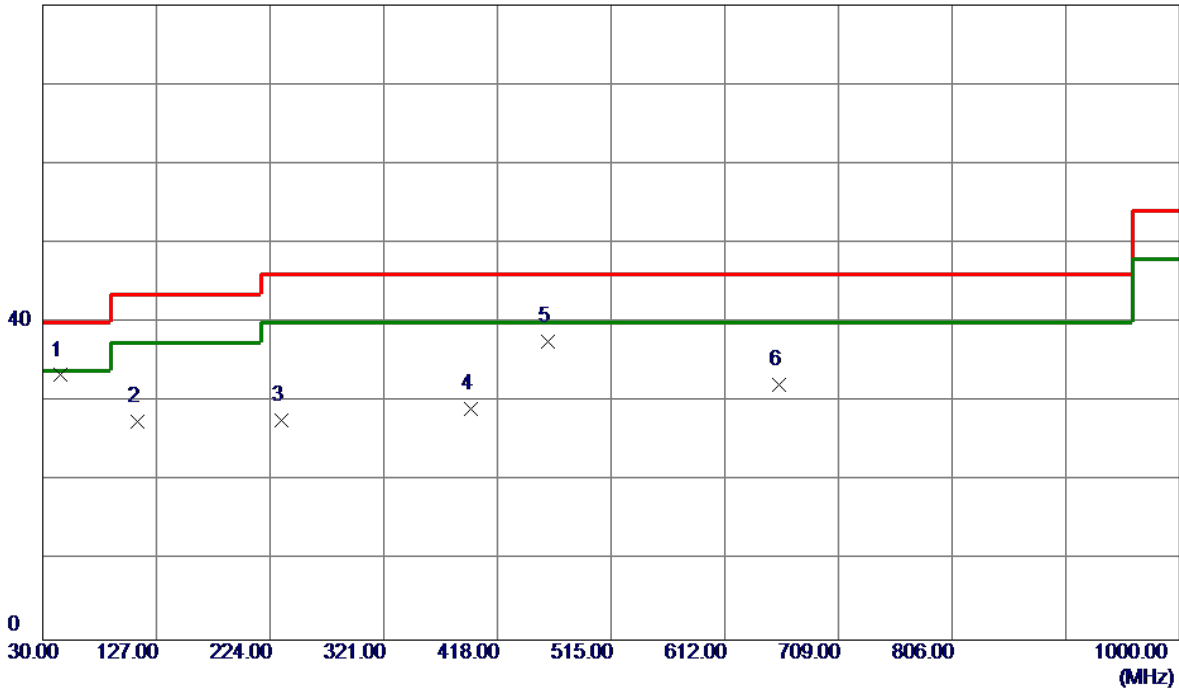
REMARKS:

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

APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1000 MHZ

Test Mode	TX N(HT20) Mode Channel 06	Polarization	Vertical
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80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	45.5200	44.73	-11.37	33.36	40.00	-6.64	Peak	
2	110.5100	41.70	-14.25	27.45	43.50	-16.05	Peak	
3	233.2150	41.06	-13.39	27.67	46.00	-18.33	Peak	
4	395.2049	37.30	-8.23	29.07	46.00	-16.93	Peak	
5	460.6800	44.36	-6.71	37.65	46.00	-8.35	Peak	
6	658.5600	35.04	-2.89	32.15	46.00	-13.85	Peak	

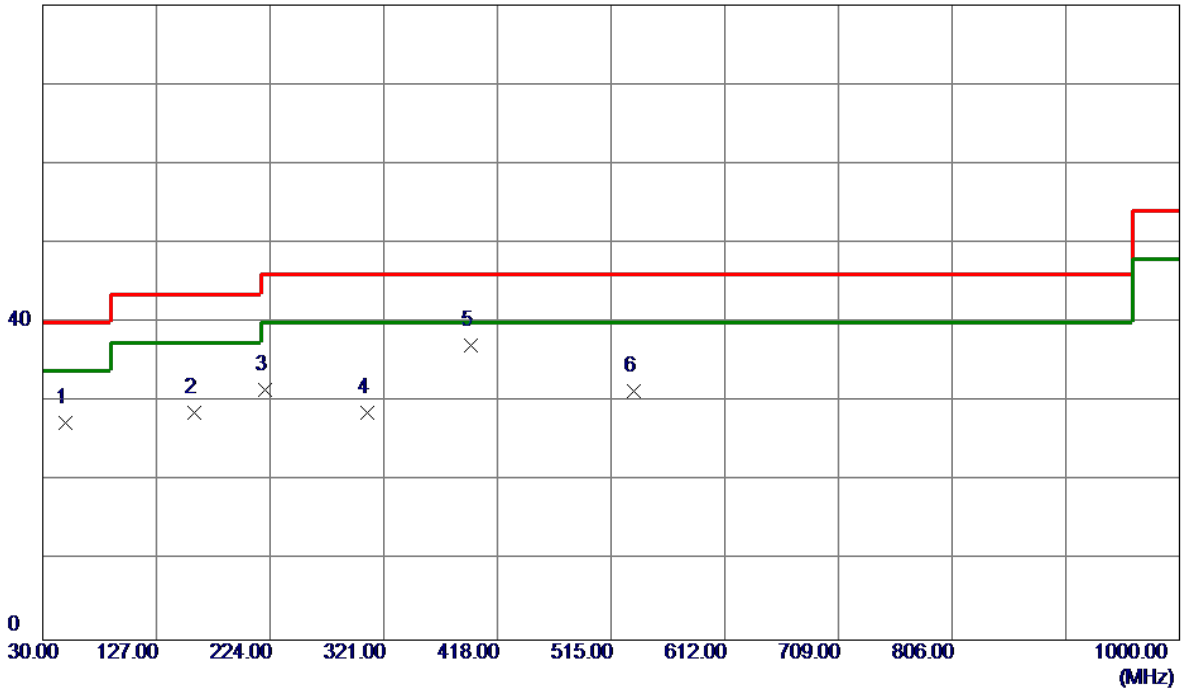
REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX N(HT20) Mode Channel 06	Polarization	Horizontal
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80 dBuV/m



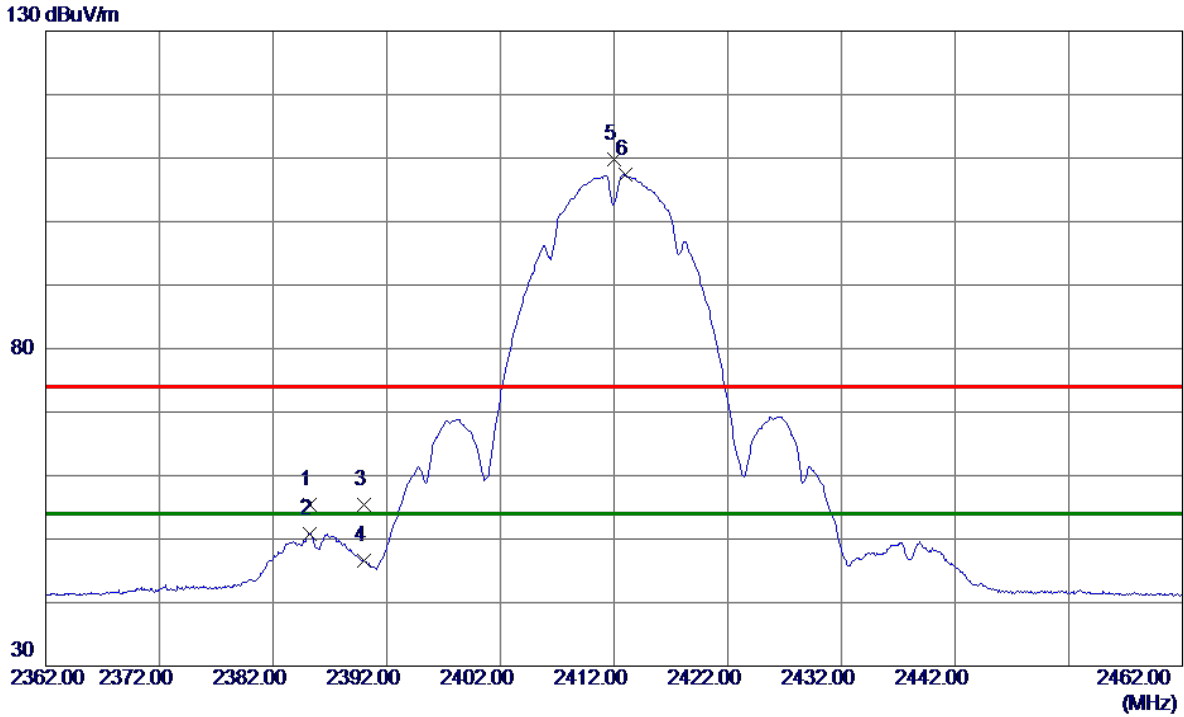
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	49.8849	38.67	-11.30	27.37	40.00	-12.63	Peak	
2	159.0100	39.57	-10.93	28.64	43.50	-14.86	Peak	
3	219.6350	45.90	-14.43	31.47	46.00	-14.53	Peak	
4	307.4200	39.11	-10.48	28.63	46.00	-17.37	Peak	
5 *	395.2049	45.34	-8.23	37.11	46.00	-8.89	Peak	
6	534.8850	36.85	-5.42	31.43	46.00	-14.57	Peak	

REMARKS:

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

APPENDIX D - RADIATED EMISSION- ABOVE 1000 MHZ

Test Mode	TX B Mode 2412 MHz	Polarization	Vertical
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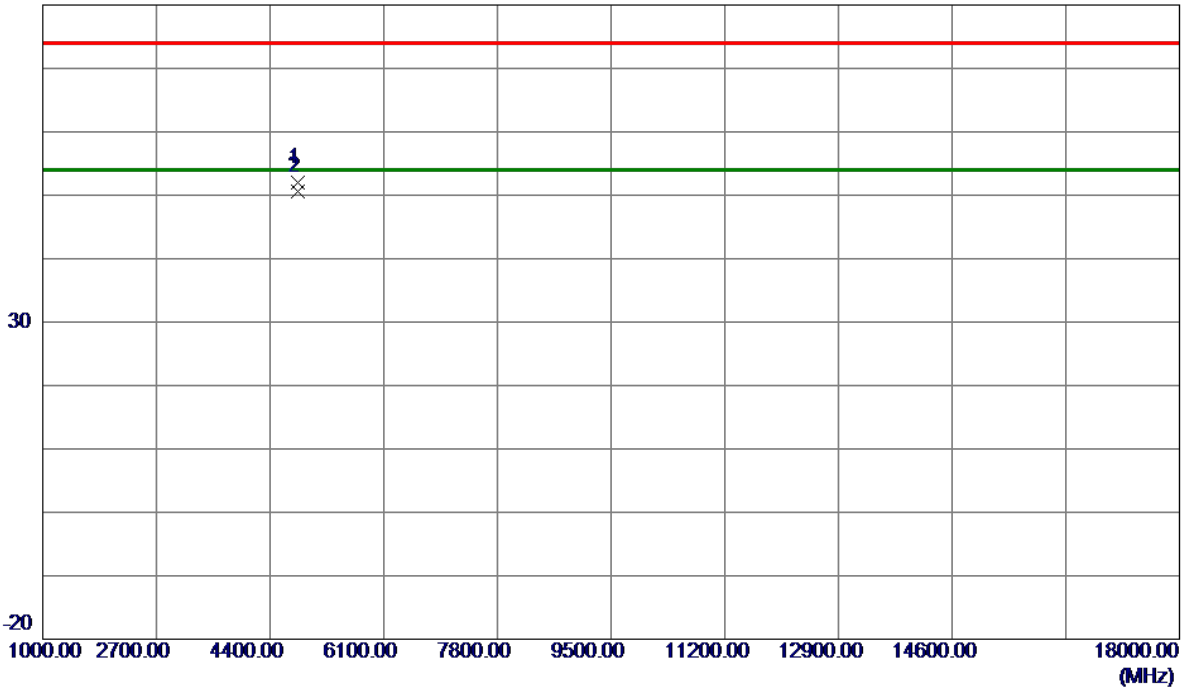
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2385.2500	49.47	6.00	55.47	74.00	-18.53	Peak	
2	2385.2500	44.85	6.00	50.85	54.00	-3.15	AVG	
3	2390.0000	49.39	6.00	55.39	74.00	-18.61	Peak	
4	2390.0000	40.59	6.00	46.59	54.00	-7.41	AVG	
5	2411.9500	103.85	6.00	109.85	74.00	35.85	Peak	No Limit
6 *	2412.9500	101.45	6.00	107.45	54.00	53.45	AVG	No Limit

REMARKS:

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

Test Mode	TX B Mode 2412 MHz	Polarization	Vertical
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80 dBuV/m

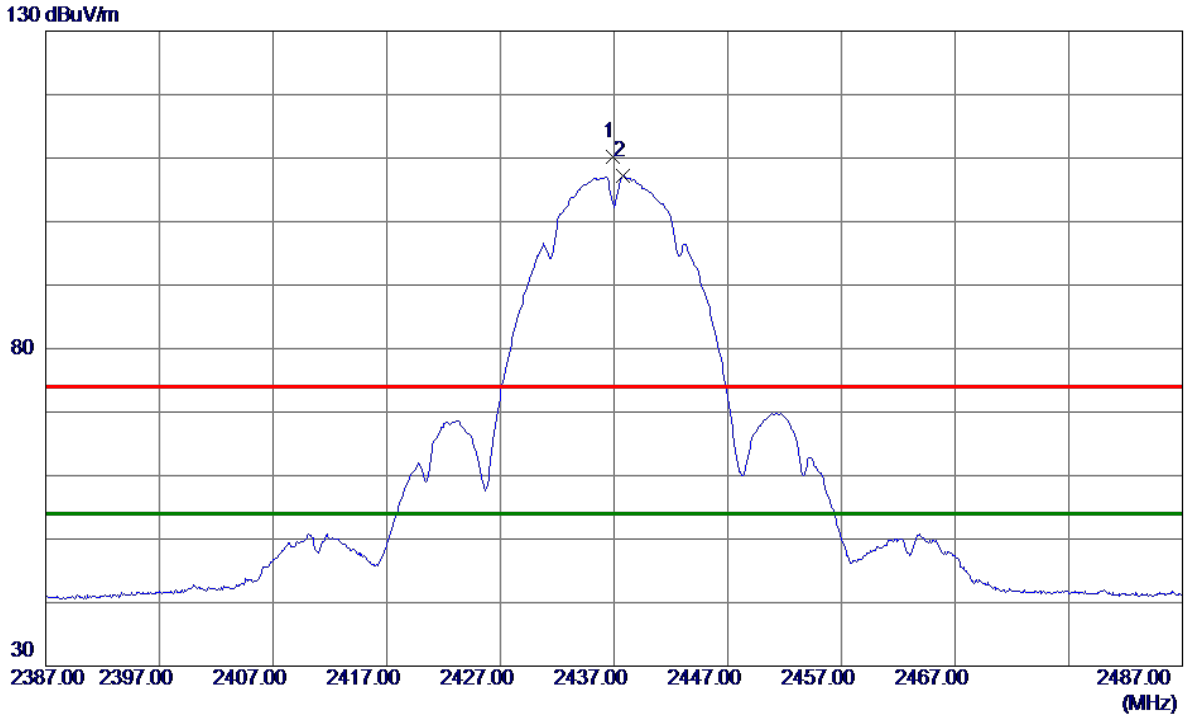


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4824.0000	51.28	0.72	52.00	74.00	-22.00	Peak	
2 *	4824.0000	49.94	0.72	50.66	54.00	-3.34	AVG	

REMARKS:

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

Test Mode	TX B Mode 2437 MHz	Polarization	Vertical
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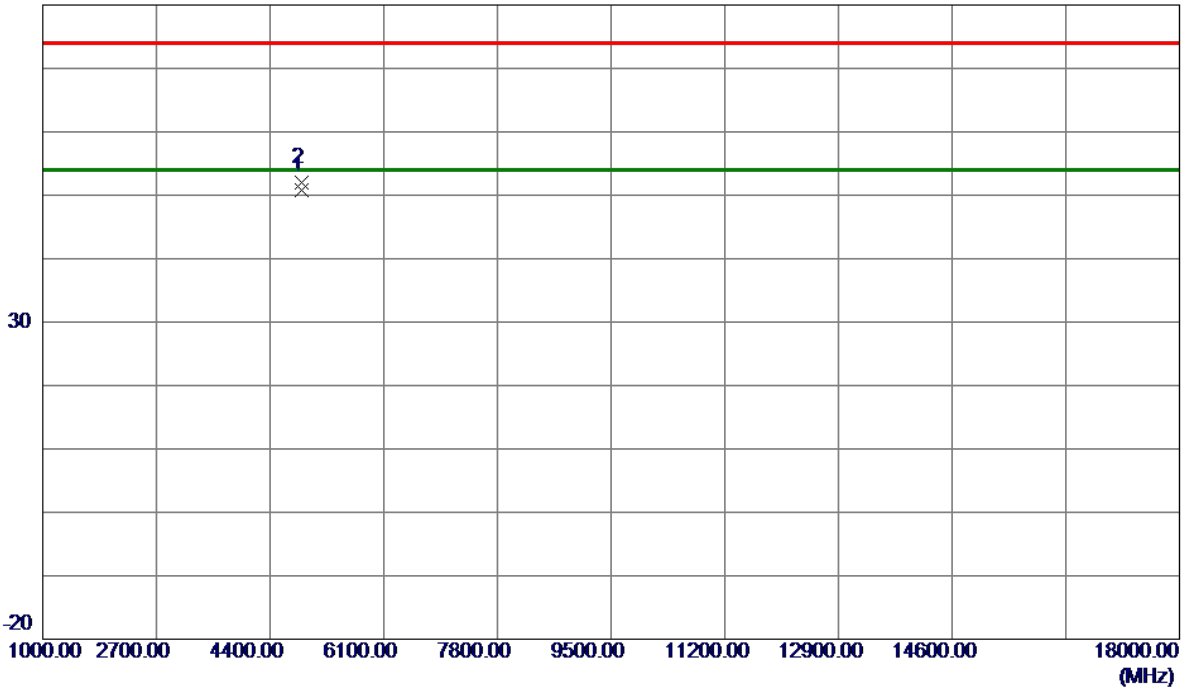
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2436.9000	104.23	6.00	110.23	74.00	36.23	Peak	No Limit
2 *	2437.8000	101.22	6.00	107.22	54.00	53.22	AVG	No Limit

REMARKS:

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

Test Mode	TX B Mode 2437 MHz	Polarization	Vertical
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80 dBuV/m

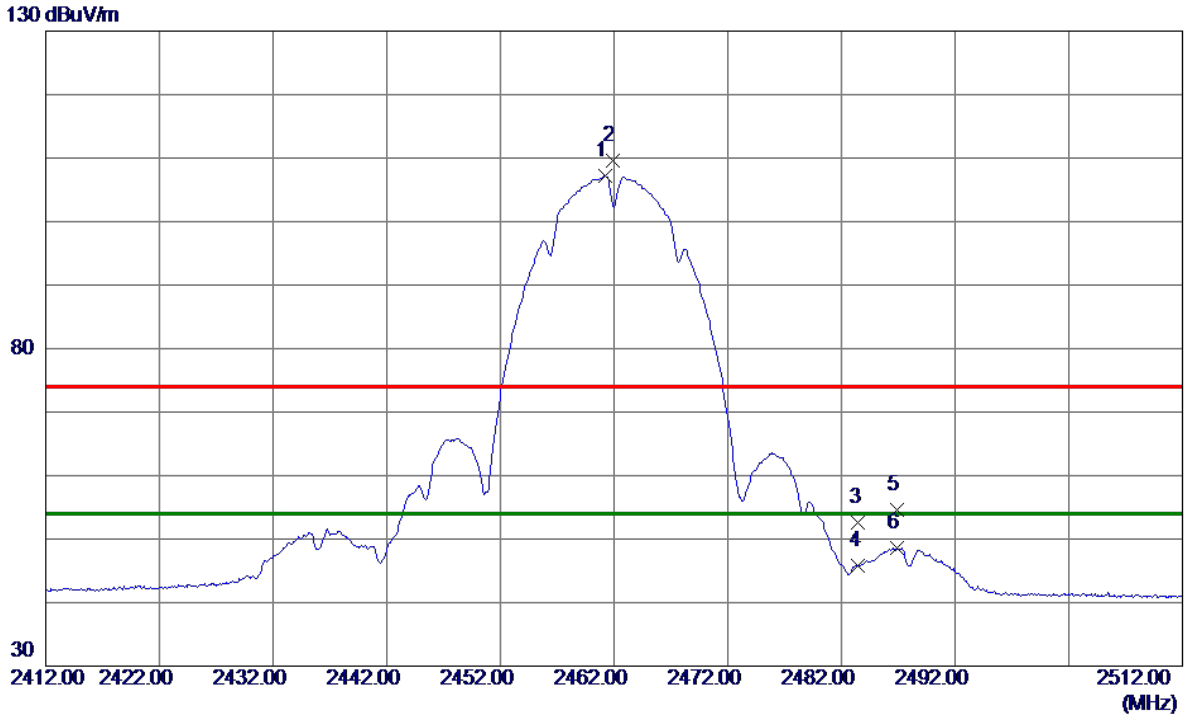


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4874.0000	50.02	0.86	50.88	54.00	-3.12	AVG	
2	4874.1000	51.23	0.86	52.09	74.00	-21.91	Peak	

REMARKS:

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

Test Mode	TX B Mode 2462 MHz	Polarization	Vertical
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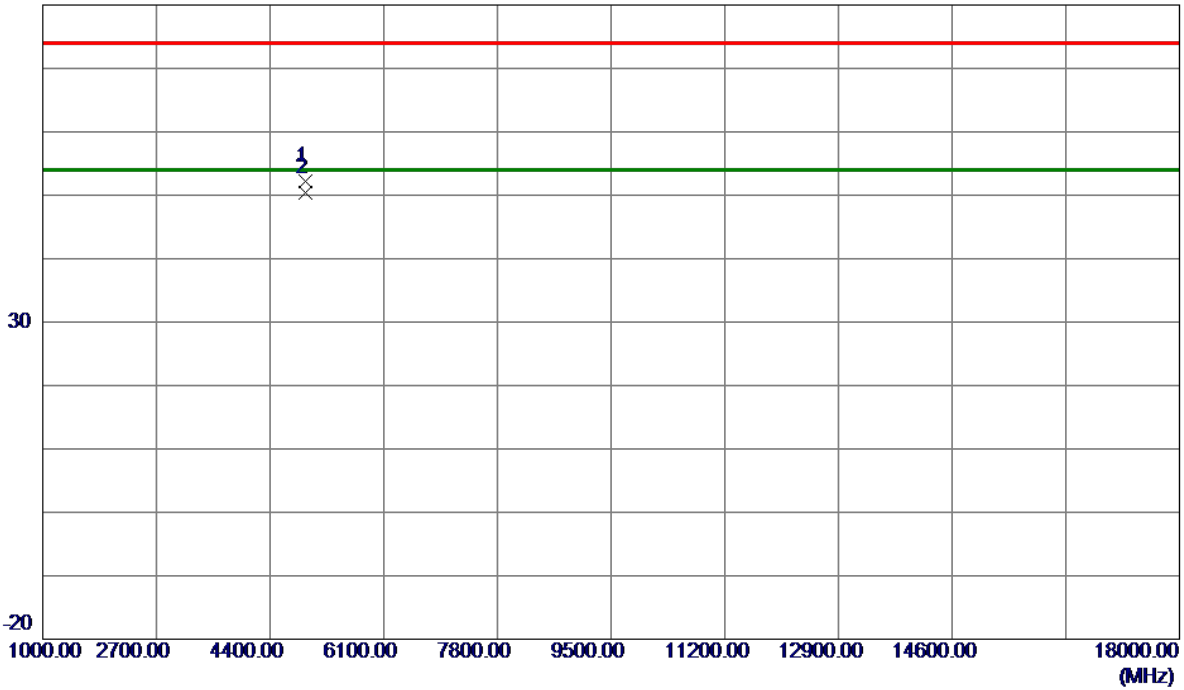
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2461.2500	101.14	6.00	107.14	54.00	53.14	AVG	No Limit
2	2461.8500	103.58	6.00	109.58	74.00	35.58	Peak	No Limit
3	2483.5000	46.53	6.00	52.53	74.00	-21.47	Peak	
4	2483.5000	39.83	6.00	45.83	54.00	-8.17	AVG	
5	2486.8500	48.55	6.00	54.55	74.00	-19.45	Peak	
6	2486.8500	42.56	6.00	48.56	54.00	-5.44	AVG	

REMARKS:

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

Test Mode	TX B Mode 2462 MHz	Polarization	Vertical
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80 dBuV/m

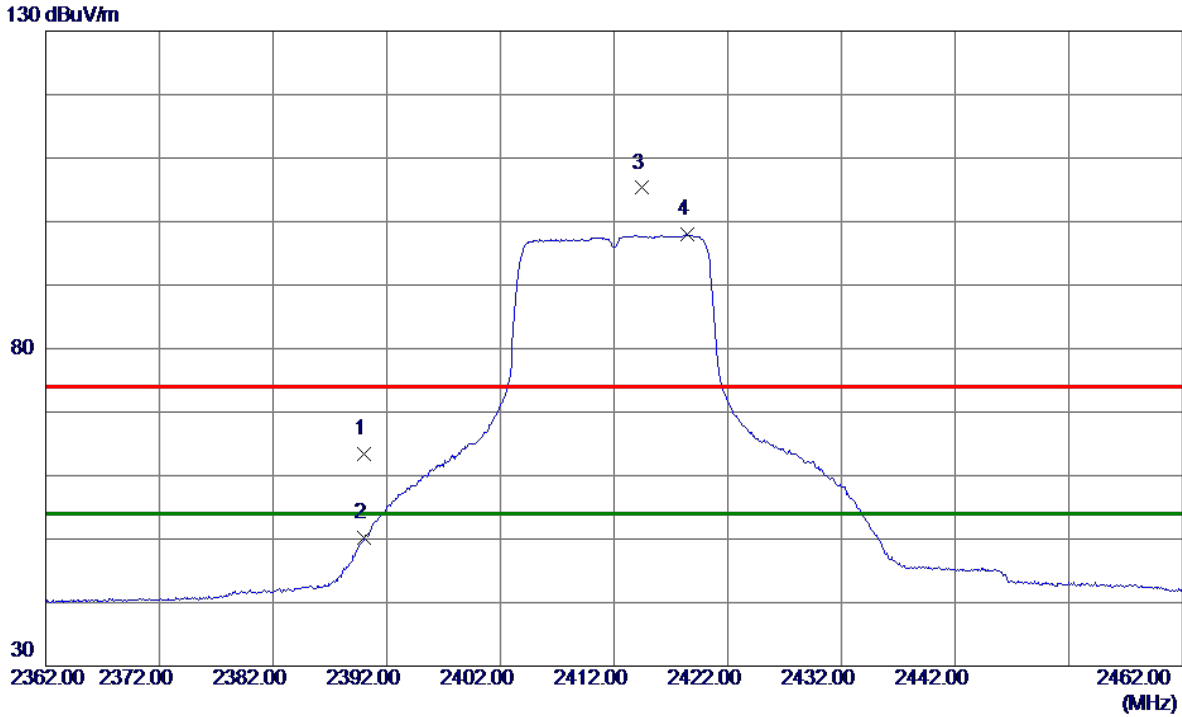


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4924.0000	51.11	1.00	52.11	74.00	-21.89	Peak	
2 *	4924.0000	49.39	1.00	50.39	54.00	-3.61	AVG	

REMARKS:

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

Test Mode	TX G Mode 2412 MHz	Polarization	Vertical
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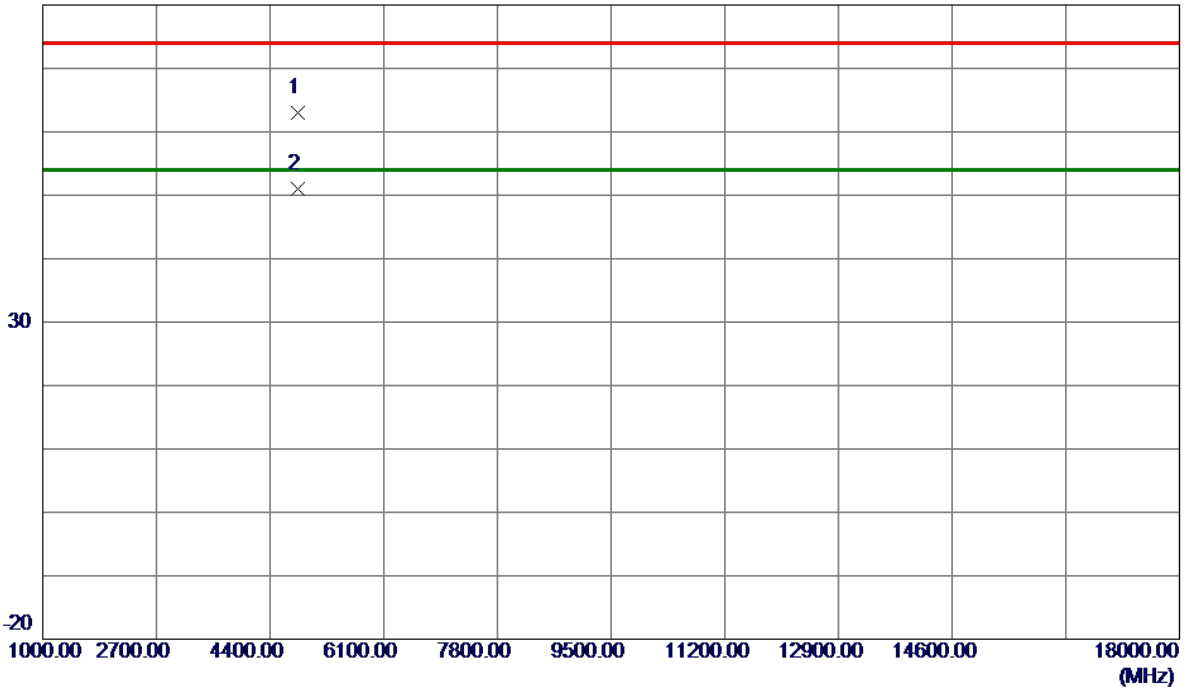
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	57.33	6.00	63.33	74.00	-10.67	Peak	
2	2390.0000	44.22	6.00	50.22	54.00	-3.78	AVG	
3	2414.4500	99.30	6.00	105.30	74.00	31.30	Peak	No Limit
4 *	2418.4000	92.03	6.00	98.03	54.00	44.03	AVG	No Limit

REMARKS:

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

Test Mode	TX G Mode 2412 MHz	Polarization	Vertical
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80 dBuV/m

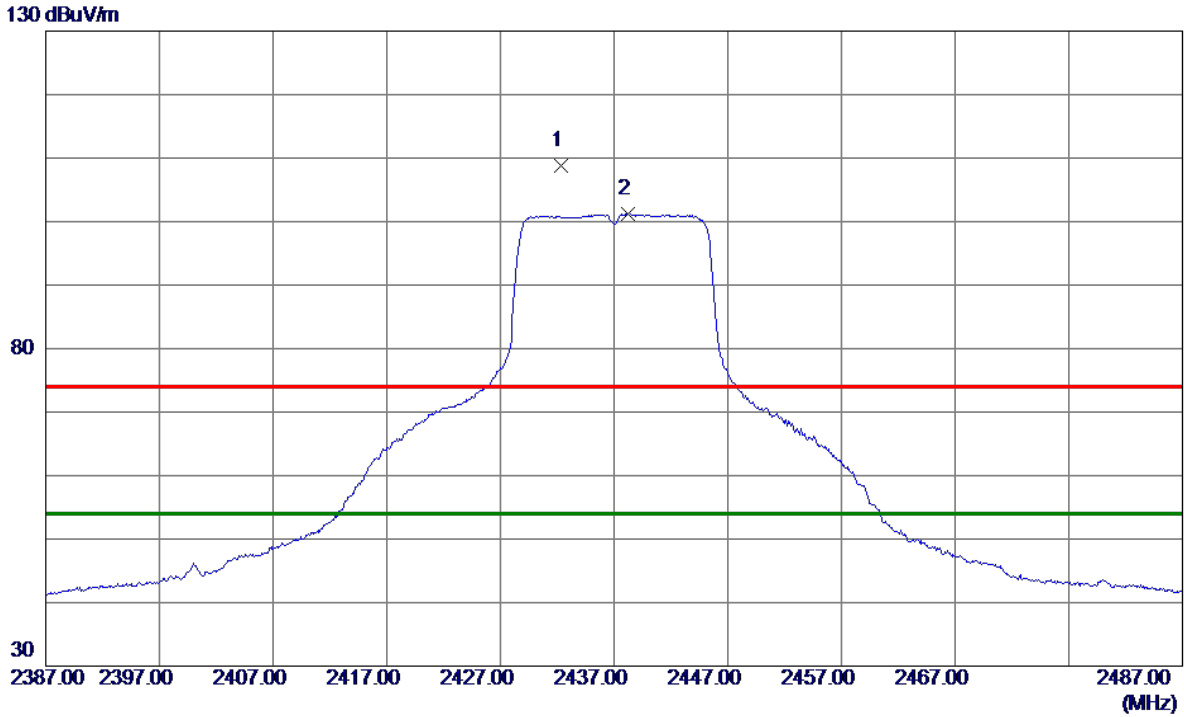


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4822.0500	62.20	0.71	62.91	74.00	-11.09	Peak	
2 *	4823.9750	50.22	0.72	50.94	54.00	-3.06	AVG	

REMARKS:

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

Test Mode	TX G Mode 2437 MHz	Polarization	Vertical
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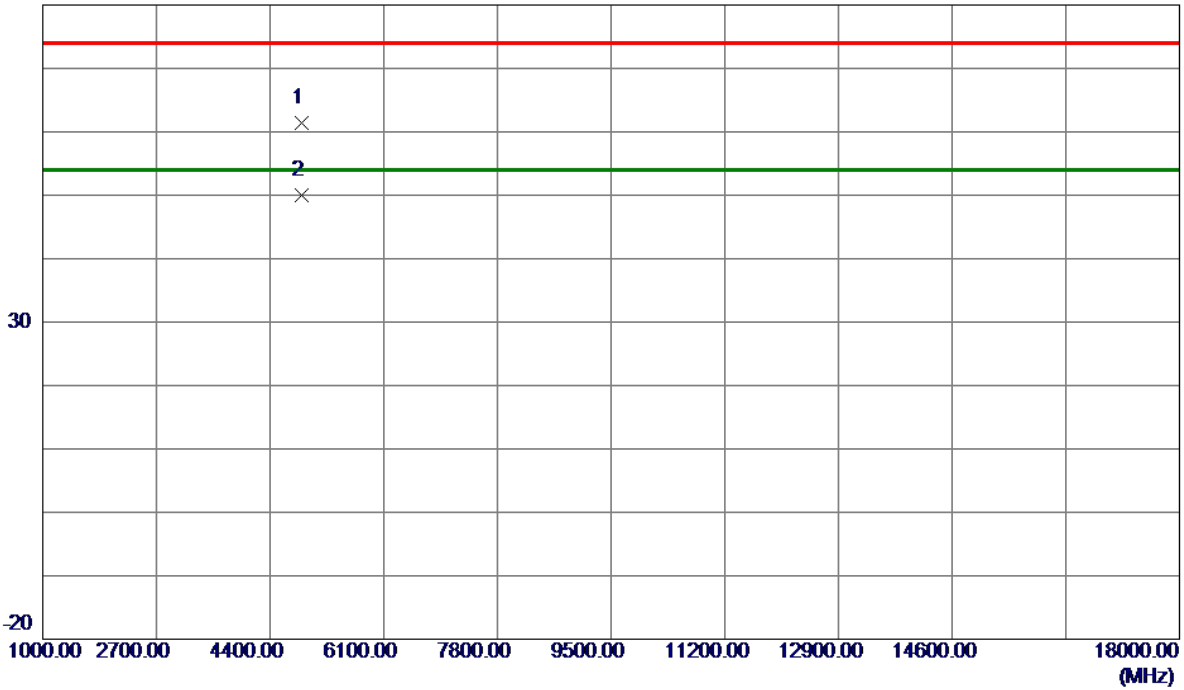
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2432.3500	102.81	6.00	108.81	74.00	34.81	Peak	No Limit
2 *	2438.2000	95.14	6.00	101.14	54.00	47.14	AVG	No Limit

REMARKS:

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

Test Mode	TX G Mode 2437 MHz	Polarization	Vertical
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80 dBuV/m

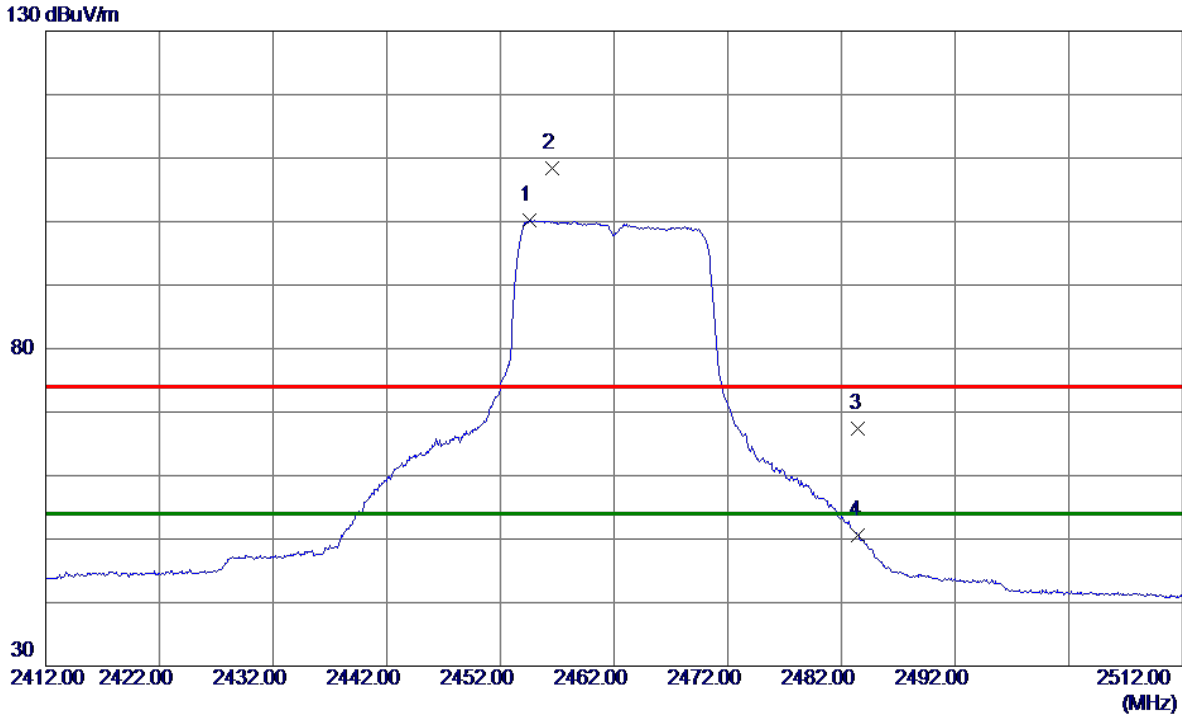


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4873.6500	60.48	0.86	61.34	74.00	-12.66	Peak	
2 *	4873.6500	49.19	0.86	50.05	54.00	-3.95	AVG	

REMARKS:

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

Test Mode	TX G Mode 2462 MHz	Polarization	Vertical
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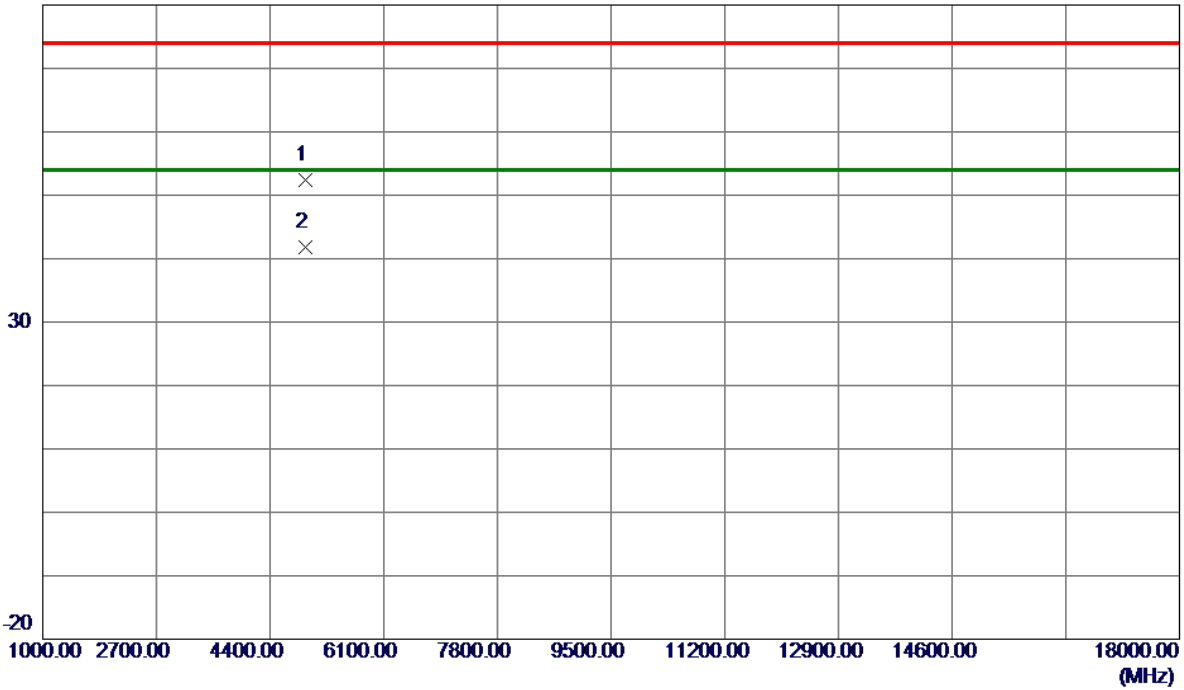
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2454.5500	94.25	6.00	100.25	54.00	46.25	AVG	No Limit
2	2456.6000	102.46	6.00	108.46	74.00	34.46	Peak	No Limit
3	2483.5000	61.44	6.00	67.44	74.00	-6.56	Peak	
4	2483.5000	44.58	6.00	50.58	54.00	-3.42	AVG	

REMARKS:

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

Test Mode	TX G Mode 2462 MHz	Polarization	Vertical
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80 dBuV/m

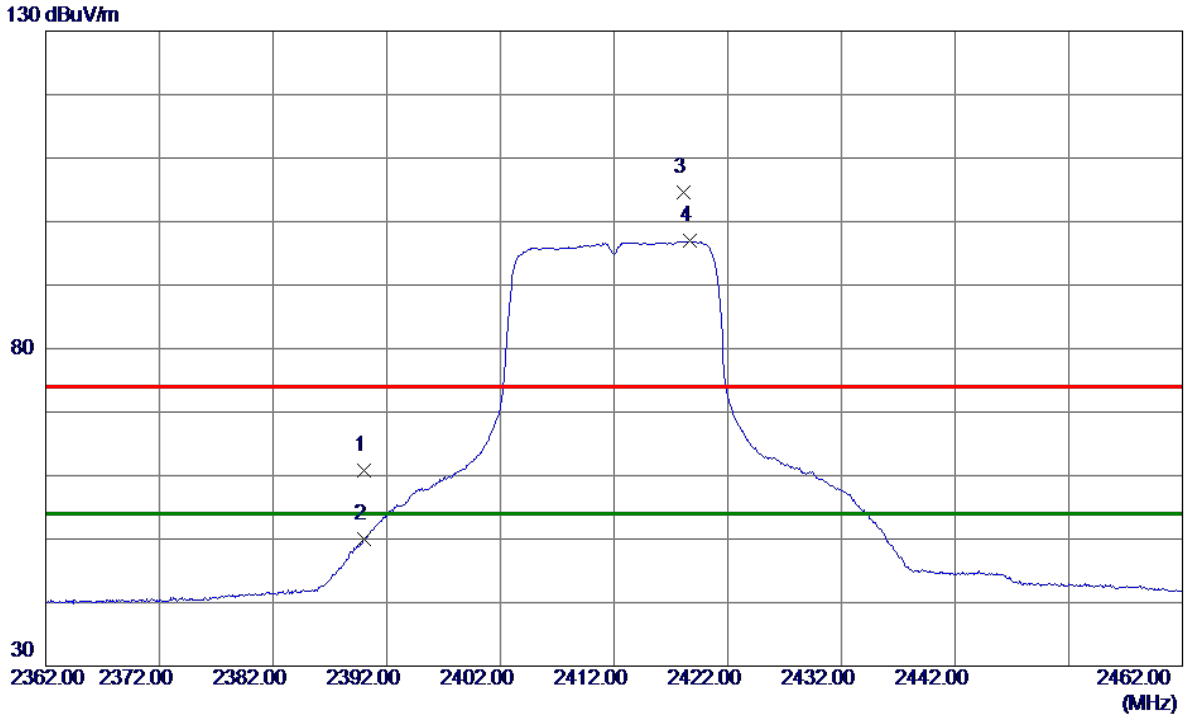


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4923.7000	51.47	1.00	52.47	74.00	-21.53	Peak	
2 *	4923.7000	40.84	1.00	41.84	54.00	-12.16	AVG	

REMARKS:

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

Test Mode	TX N(HT20) Mode 2412 MHz	Polarization	Vertical
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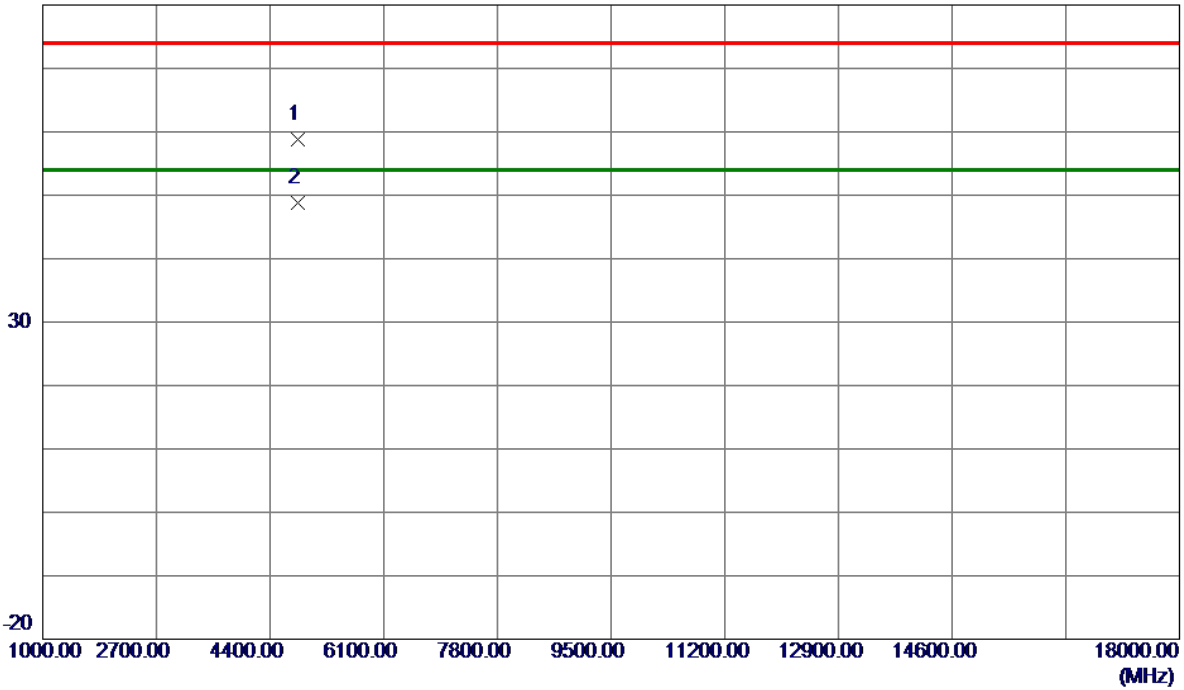
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	54.82	6.00	60.82	74.00	-13.18	Peak	
2	2390.0000	44.00	6.00	50.00	54.00	-4.00	AVG	
3	2418.1500	98.59	6.00	104.59	74.00	30.59	Peak	No Limit
4 *	2418.6500	90.93	6.00	96.93	54.00	42.93	AVG	No Limit

REMARKS:

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

Test Mode	TX N(HT20) Mode 2412 MHz	Polarization	Vertical
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80 dBuV/m

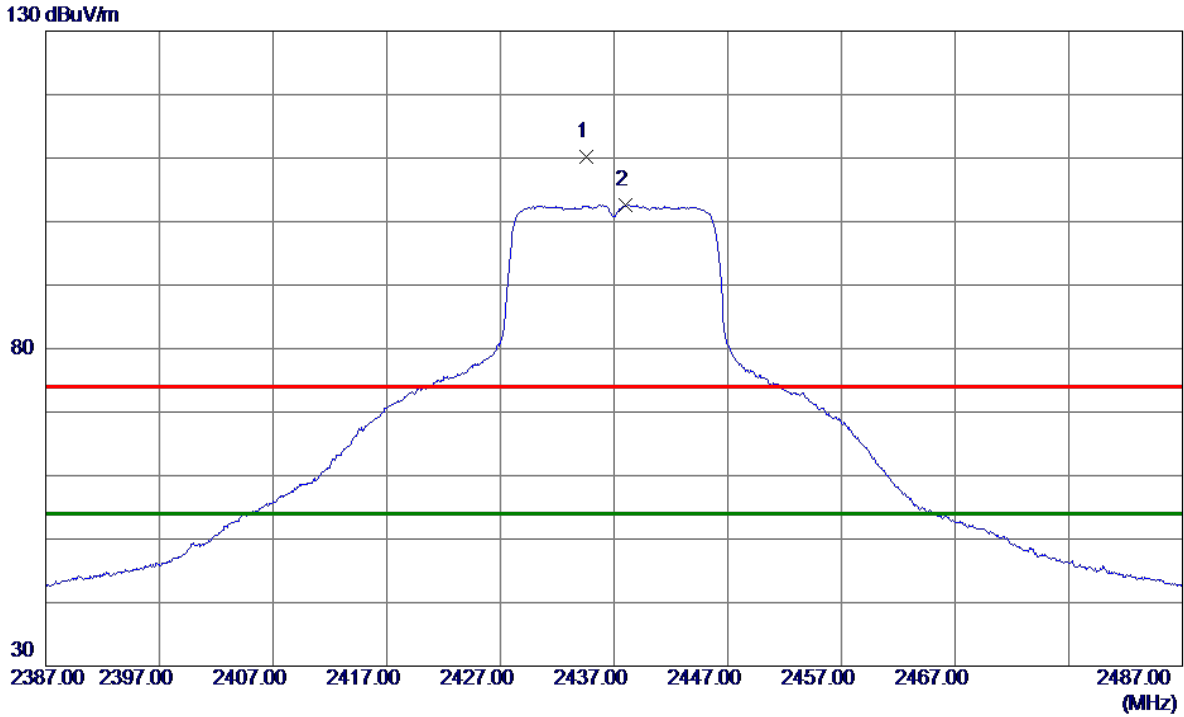


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4823.9250	58.15	0.72	58.87	74.00	-15.13	Peak	
2 *	4824.0750	48.00	0.72	48.72	54.00	-5.28	AVG	

REMARKS:

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

Test Mode	TX N(HT20) Mode 2437 MHz	Polarization	Vertical
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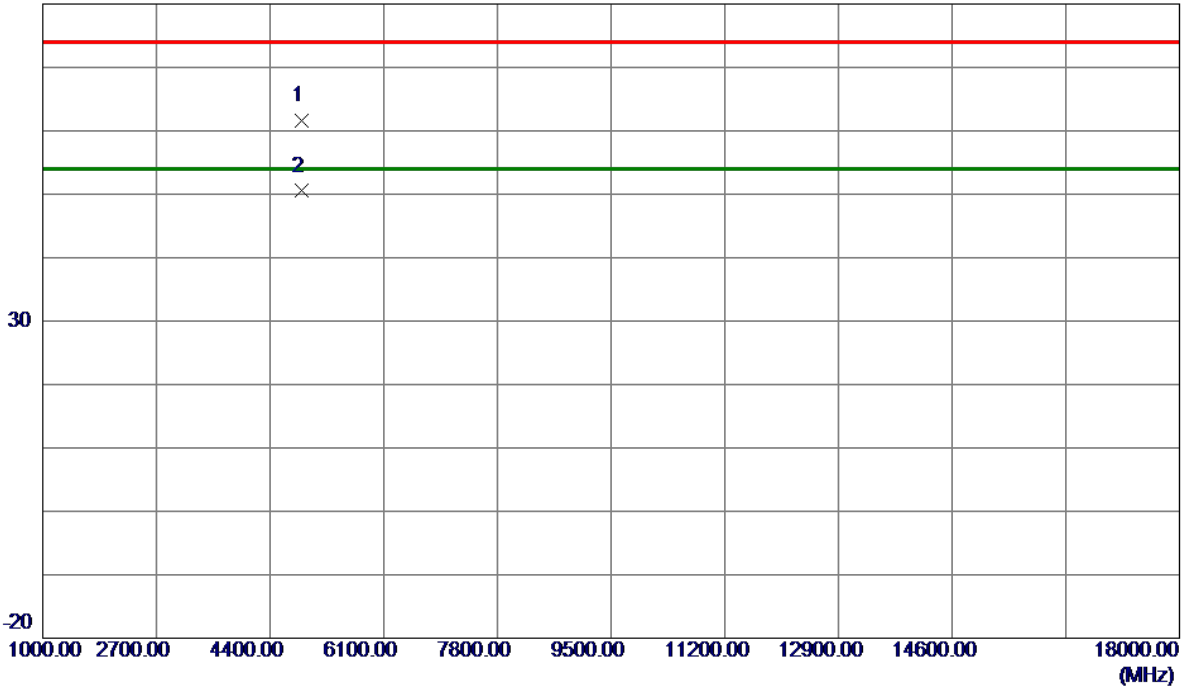
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2434.5500	104.26	6.00	110.26	74.00	36.26	Peak	No Limit
2 *	2438.0500	96.61	6.00	102.61	54.00	48.61	AVG	No Limit

REMARKS:

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

Test Mode	TX N(HT20) Mode 2437 MHz	Polarization	Vertical
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80 dBuV/m

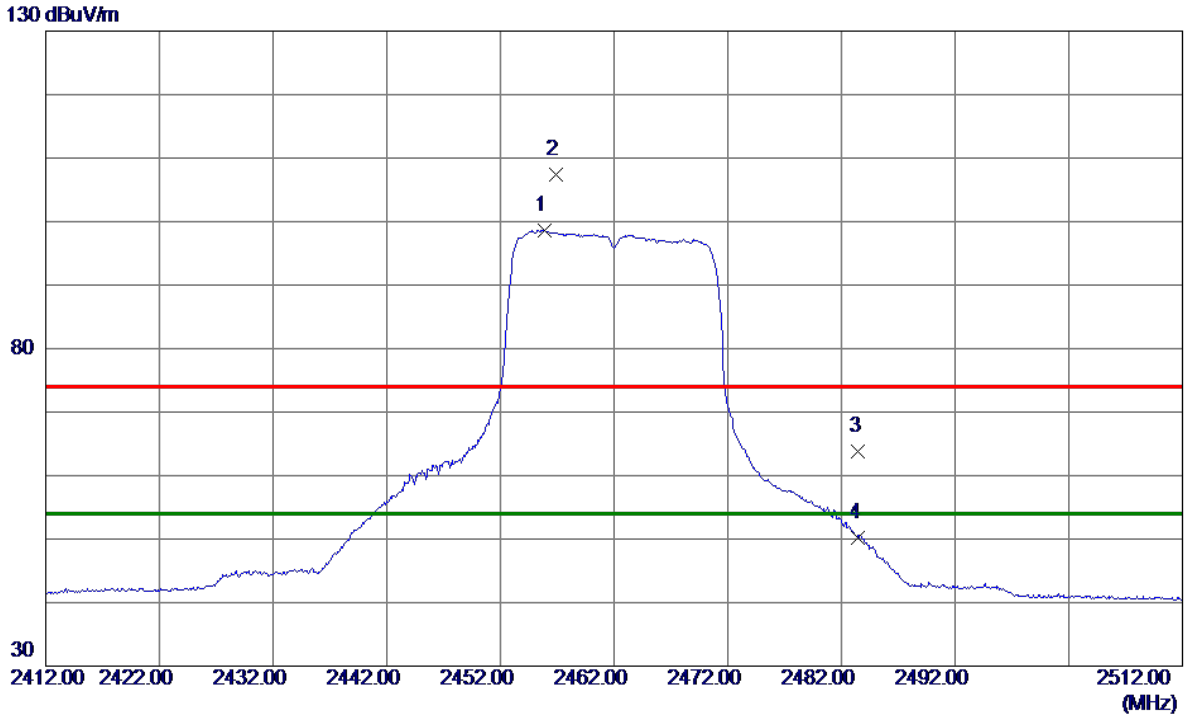


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4873.3250	60.70	0.86	61.56	74.00	-12.44	Peak	
2 *	4873.4500	49.64	0.86	50.50	54.00	-3.50	AVG	

REMARKS:

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

Test Mode	TX N(HT20) Mode 2462 MHz	Polarization	Vertical
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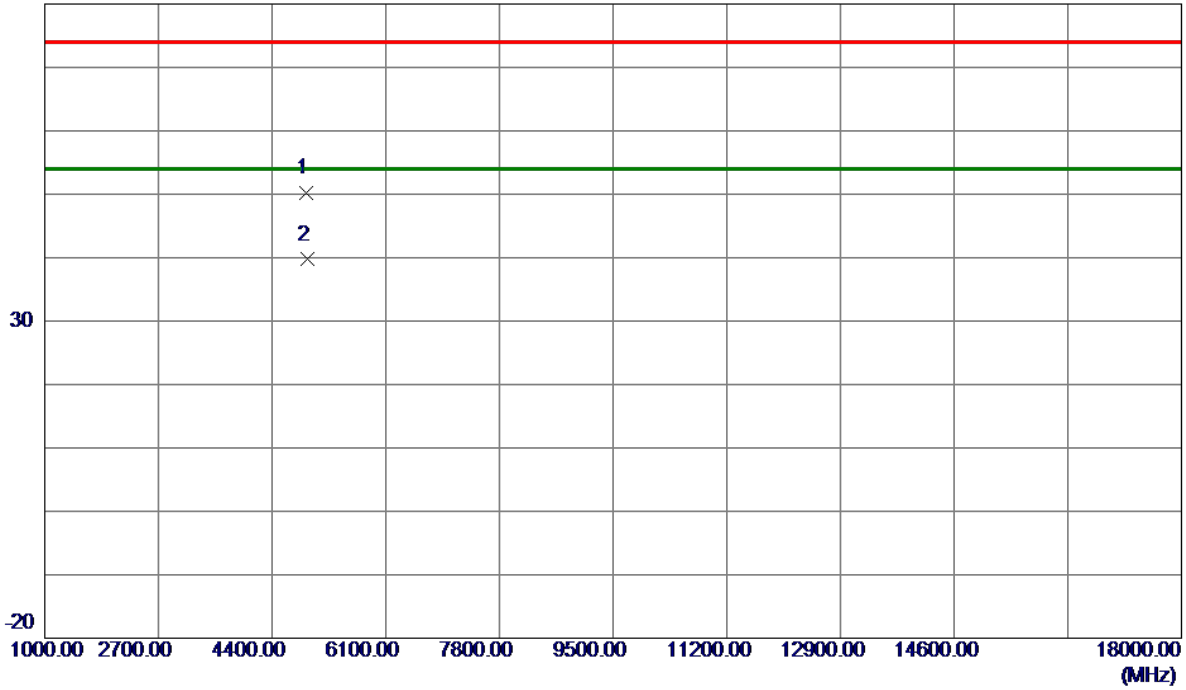
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2455.9000	92.61	6.00	98.61	54.00	44.61	AVG	No Limit
2	2456.8500	101.46	6.00	107.46	74.00	33.46	Peak	No Limit
3	2483.5000	57.83	6.00	63.83	74.00	-10.17	Peak	
4	2483.5000	44.21	6.00	50.21	54.00	-3.79	AVG	

REMARKS:

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

Test Mode	TX N(HT20) Mode 2462 MHz	Polarization	Vertical
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80 dBuV/m

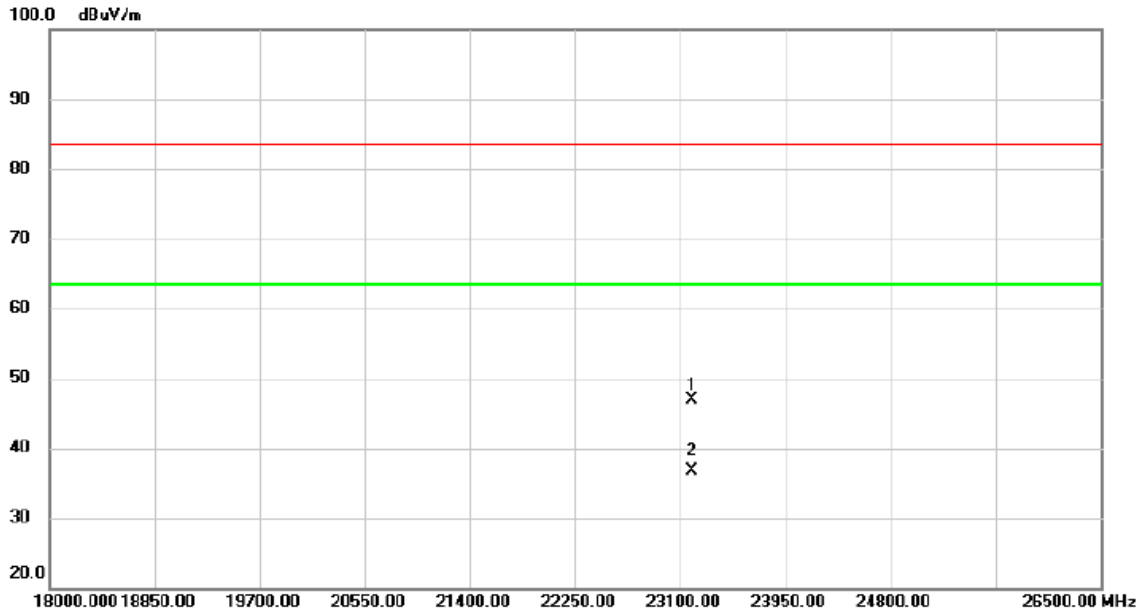


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4916.9000	49.27	0.98	50.25	74.00	-23.75	Peak	
2 *	4923.9750	38.70	1.00	39.70	54.00	-14.30	AVG	

REMARKS:

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

Test Mode	TX N(HT20) Mode 2437 MHz	Polarization	Vertical
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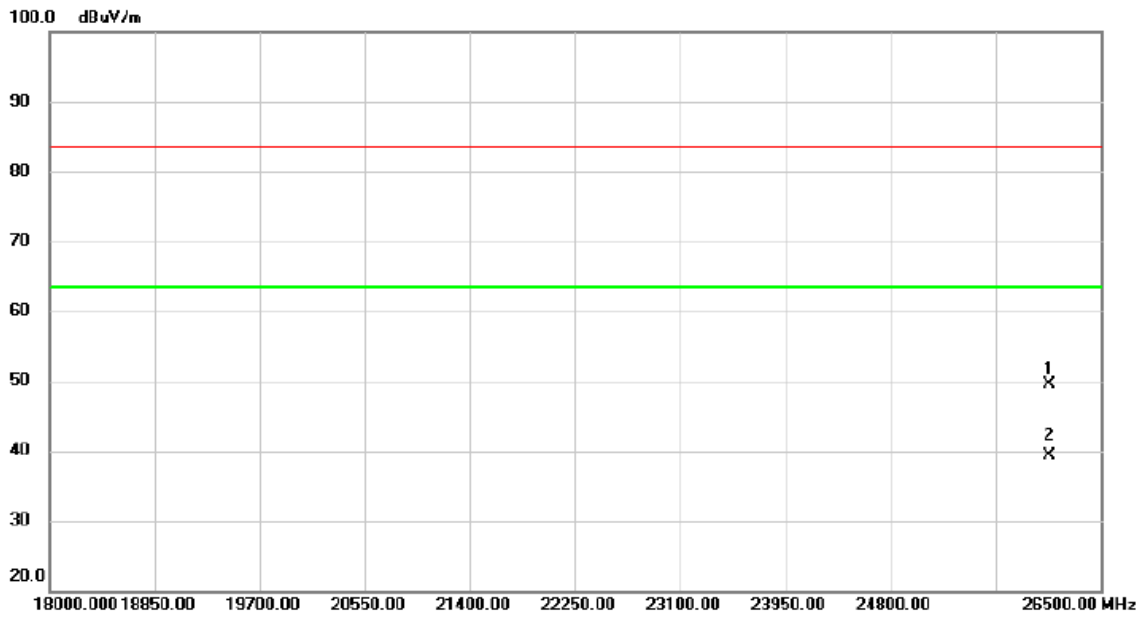


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		23197.75	38.69	8.22	46.91	83.50	-36.59	peak	
2	*	23197.75	28.53	8.22	36.75	63.50	-26.75	AVG	

REMARKS:

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

Test Mode	TX N(HT20) Mode 2437 MHz	Polarization	Horizontal
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No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		26083.50	38.97	10.44	49.41	83.50	-34.09	peak	
2	*	26083.50	28.78	10.44	39.22	63.50	-24.28	AVG	

REMARKS:

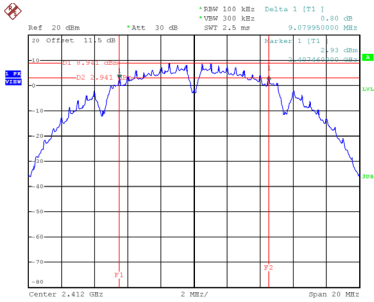
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

APPENDIX E - BANDWIDTH

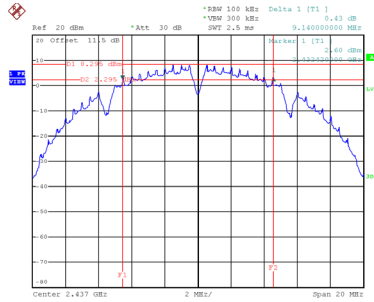
Test Mode TX B Mode

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	9.080	13.360	0.5	Complies
06	2437	9.140	13.360	0.5	Complies
11	2462	8.070	13.360	0.5	Complies

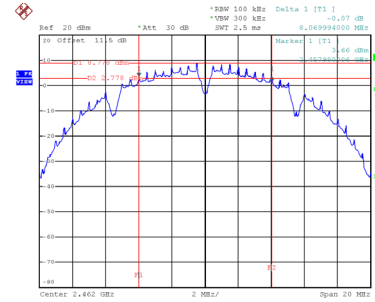
CH01



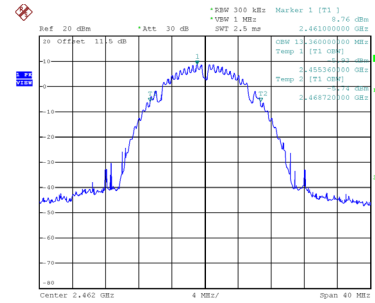
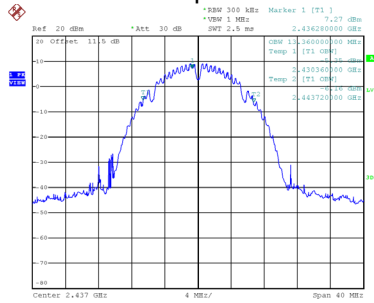
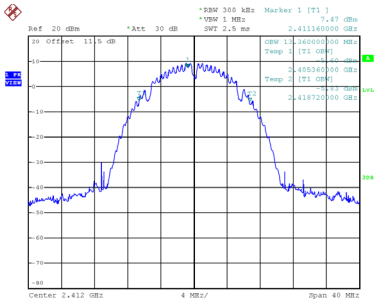
CH06



CH11



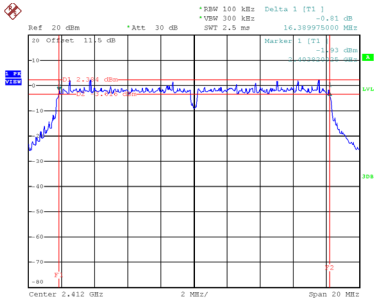
99 % Occupied Bandwidth



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	16.390	16.960	0.5	Complies
06	2437	16.440	16.880	0.5	Complies
11	2462	16.420	16.960	0.5	Complies

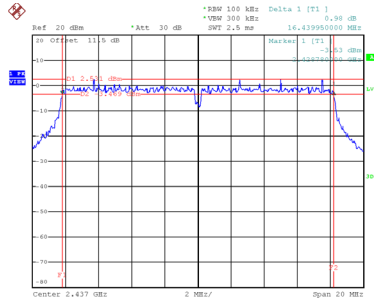
CH01



Date: 4.APR.2024 10:13:46

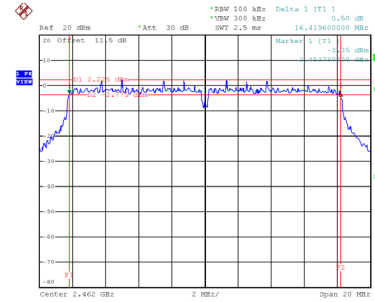
CH06

6 dB Bandwidth



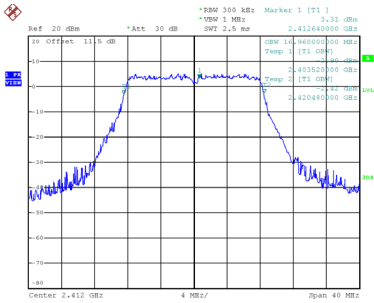
Date: 4.APR.2024 10:15:13

CH11

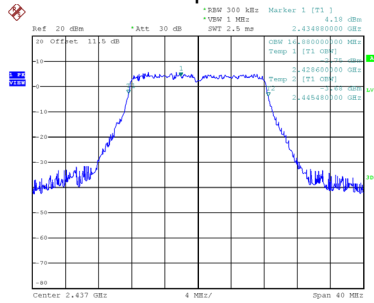


Date: 4.APR.2024 10:17:04

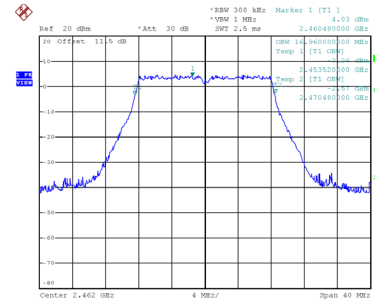
99 % Occupied Bandwidth



Date: 4.APR.2024 10:13:53



Date: 4.APR.2024 10:15:20

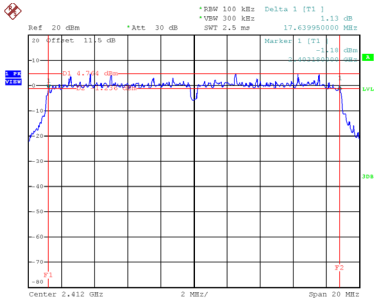


Date: 4.APR.2024 10:17:10

Test Mode TX N(HT20) Mode

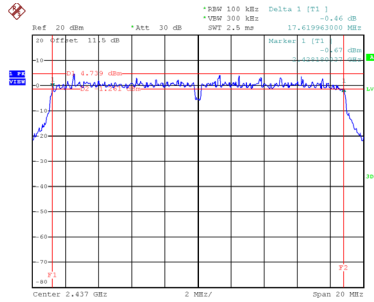
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	17.640	18.000	0.5	Complies
06	2437	17.620	17.920	0.5	Complies
11	2462	17.620	18.000	0.5	Complies

CH01



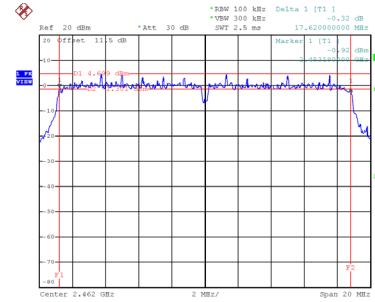
Date: 4.APR.2024 10:18:56

CH06



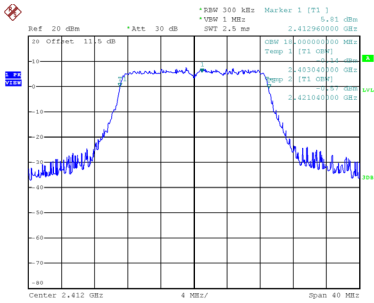
Date: 4.APR.2024 10:20:10

CH11

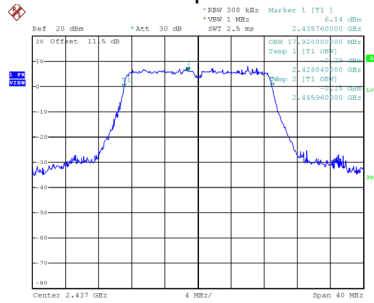


Date: 4.APR.2024 10:21:31

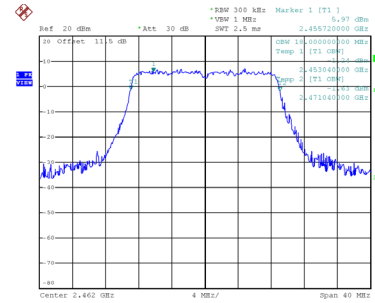
99 % Occupied Bandwidth



Date: 4.APR.2024 10:19:03



Date: 4.APR.2024 10:20:17



Date: 4.APR.2024 10:21:37

APPENDIX F - MAXIMUM OUTPUT POWER

Test Mode	TX B Mode
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Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	9.44	0.00	9.44	30.00	1.0000	Complies
06	2437	10.10	0.00	10.10	30.00	1.0000	Complies
11	2462	13.64	0.00	13.64	30.00	1.0000	Complies

Test Mode	TX G Mode
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Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	12.43	0.20	12.63	30.00	1.0000	Complies
06	2437	14.17	0.20	14.37	30.00	1.0000	Complies
11	2462	14.02	0.20	14.22	30.00	1.0000	Complies

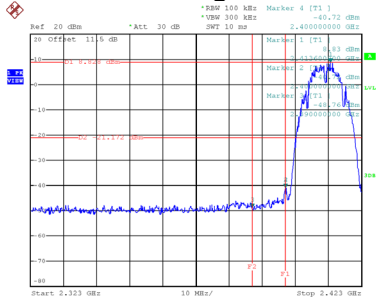
Test Mode	TX N(HT20) Mode
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Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	11.49	0.16	11.65	30.00	1.0000	Complies
06	2437	16.01	0.16	16.17	30.00	1.0000	Complies
11	2462	12.61	0.16	12.77	30.00	1.0000	Complies

APPENDIX G - CONDUCTED SPURIOUS EMISSIONS

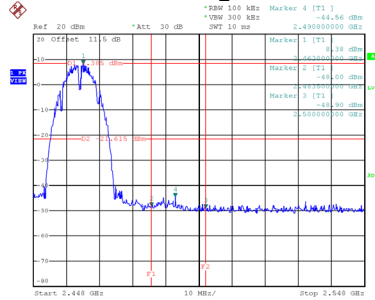
Test Mode TX B Mode

Bandedge-CH01



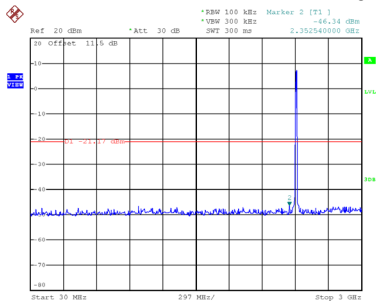
Date: 8.APR.2024 12:34:04

Bandedge-CH11

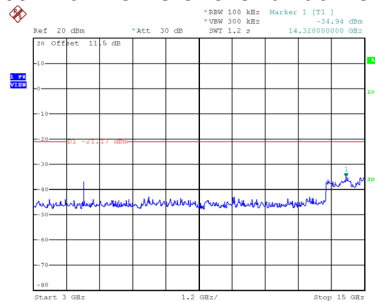


Date: 8.APR.2024 12:35:34

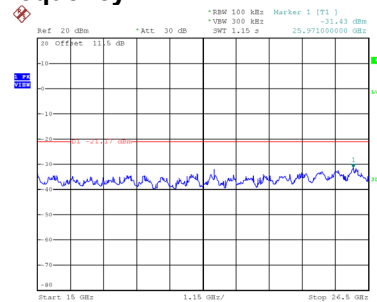
CH01 – 10th Harmonic of the fundamental frequency



Date: 8.APR.2024 12:34:17

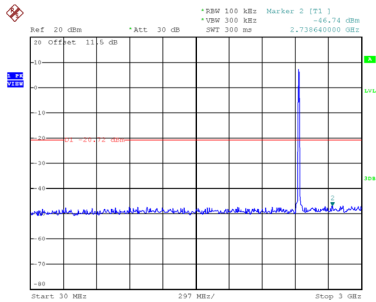


Date: 8.APR.2024 12:34:23

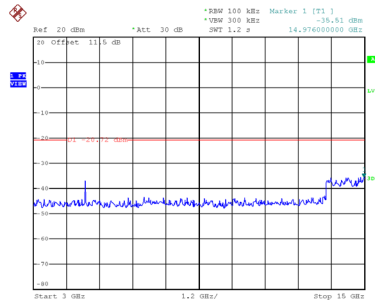


Date: 8.APR.2024 12:34:30

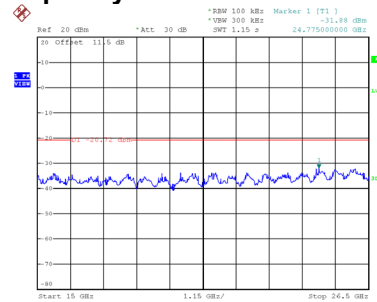
CH06 – 10th Harmonic of the fundamental frequency



Date: 8.APR.2024 12:35:01

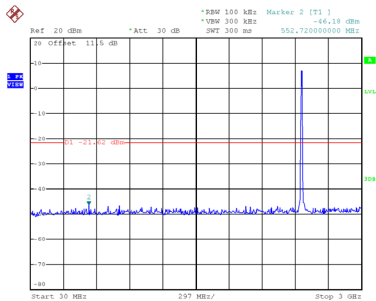


Date: 8.APR.2024 12:35:08

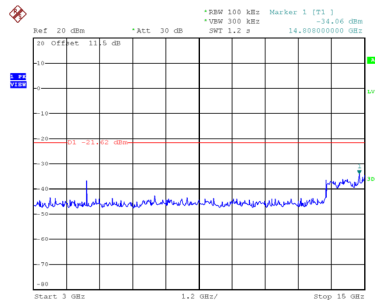


Date: 8.APR.2024 12:35:14

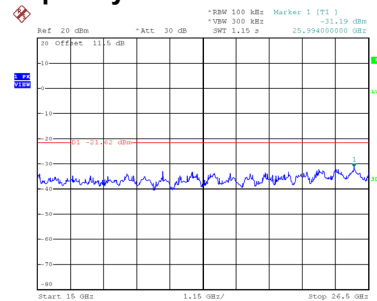
CH11 – 10th Harmonic of the fundamental frequency



Date: 8.APR.2024 12:35:47



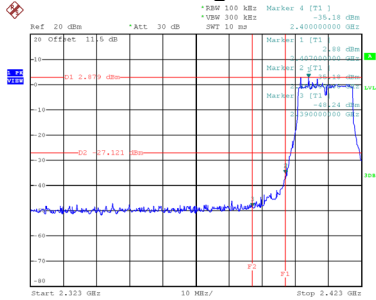
Date: 8.APR.2024 12:35:53



Date: 8.APR.2024 12:36:00

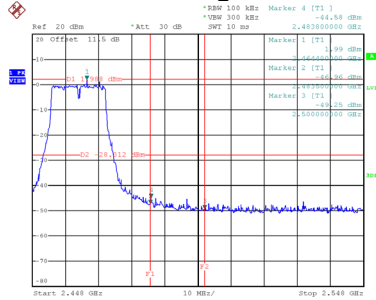
Test Mode TX G Mode

Bandedge-CH01



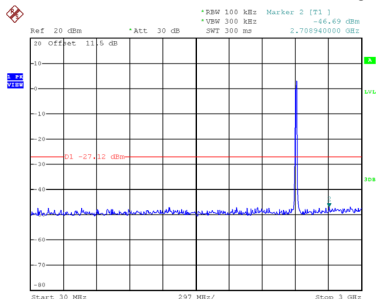
Date: 8.APR.2024 12:40:50

Bandedge-CH11

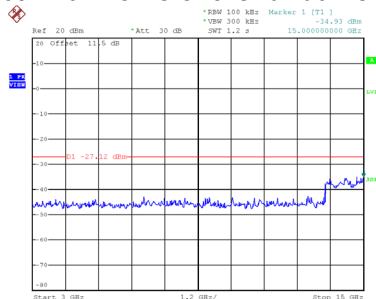


Date: 8.APR.2024 12:53:29

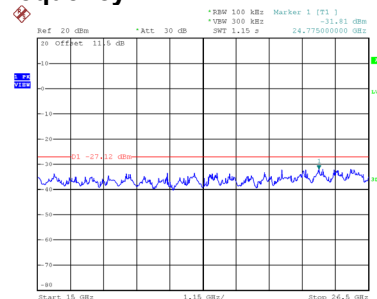
CH01 – 10th Harmonic of the fundamental frequency



Date: 8.APR.2024 12:41:03

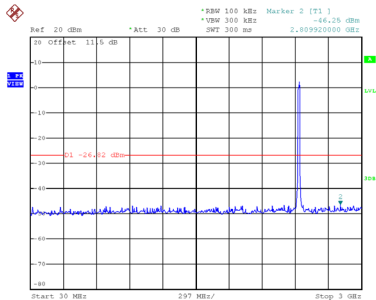


Date: 8.APR.2024 12:41:10

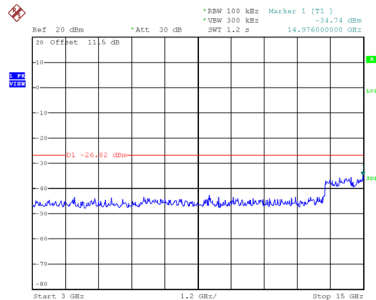


Date: 8.APR.2024 12:41:16

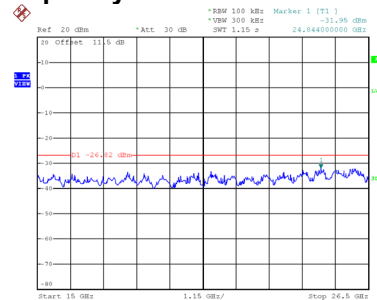
CH06 – 10th Harmonic of the fundamental frequency



Date: 8.APR.2024 12:42:58

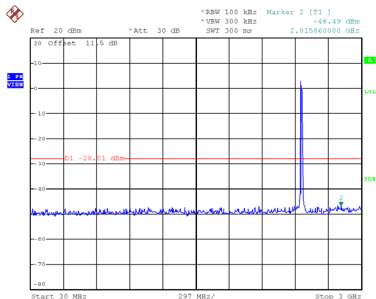


Date: 8.APR.2024 12:43:05

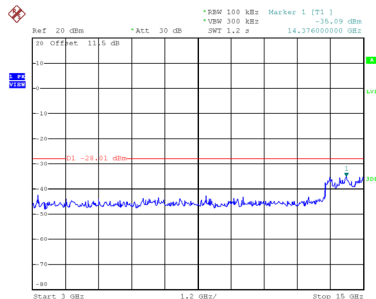


Date: 8.APR.2024 12:43:12

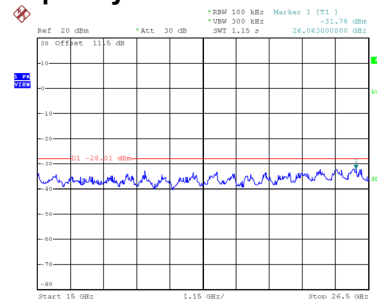
CH11 – 10th Harmonic of the fundamental frequency



Date: 8.APR.2024 12:53:42



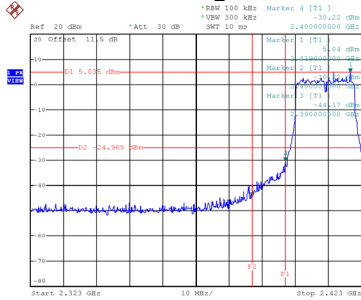
Date: 8.APR.2024 12:53:49



Date: 8.APR.2024 12:53:57

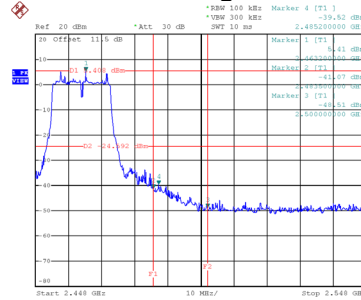
Test Mode TX N(HT20) Mode

Bandedge-CH01



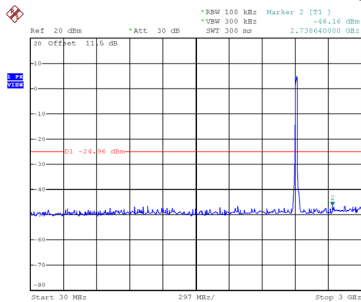
Date: 8.APR.2024 12:54:45

Bandedge-CH11

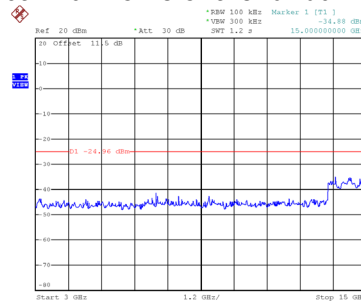


Date: 8.APR.2024 12:56:58

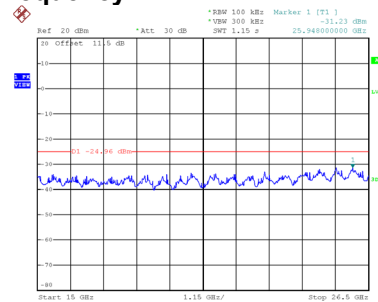
CH01 – 10th Harmonic of the fundamental frequency



Date: 8.APR.2024 12:54:59

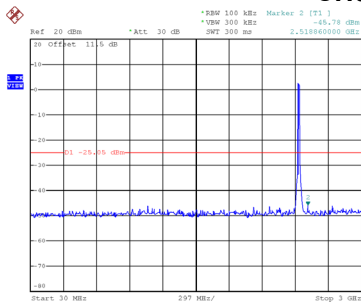


Date: 8.APR.2024 12:55:06

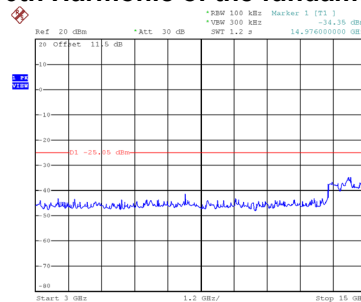


Date: 8.APR.2024 12:55:14

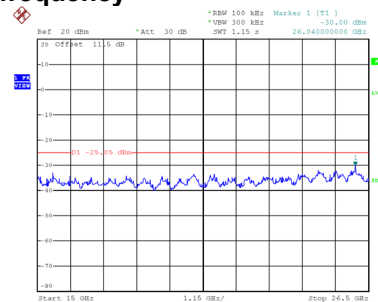
CH06 – 10th Harmonic of the fundamental frequency



Date: 8.APR.2024 12:55:47

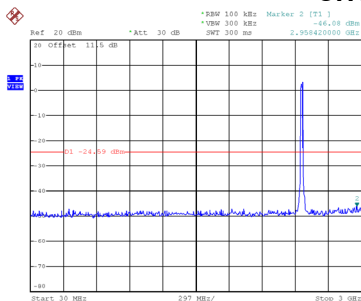


Date: 8.APR.2024 12:55:55

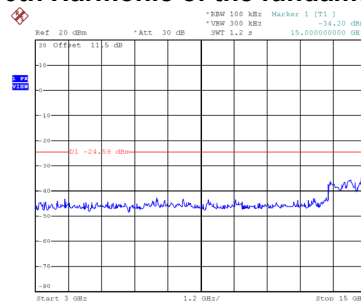


Date: 8.APR.2024 12:56:02

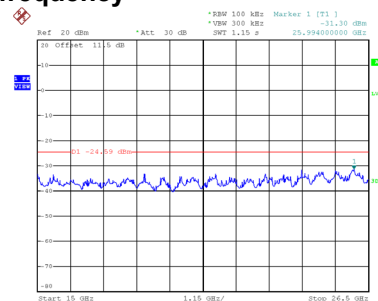
CH11 – 10th Harmonic of the fundamental frequency



Date: 8.APR.2024 12:57:11



Date: 8.APR.2024 12:57:19

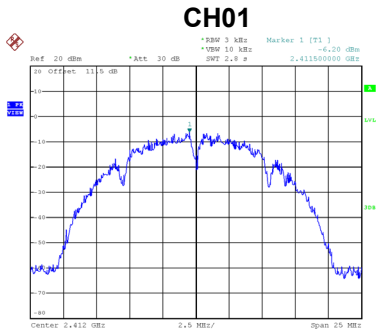


Date: 8.APR.2024 12:57:26

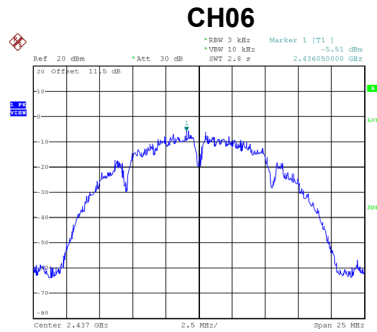
APPENDIX H - POWER SPECTRAL DENSITY

Test Mode	TX B Mode
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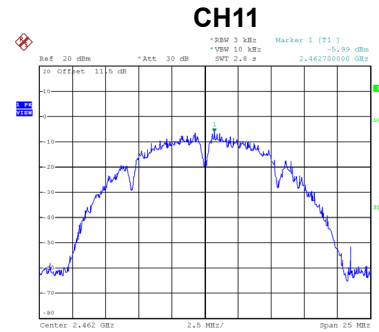
Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
01	2412	-6.20	8.00	Complies
06	2437	-5.51	8.00	Complies
11	2462	-5.99	8.00	Complies



Date: 4.APR.2024 10:08:21



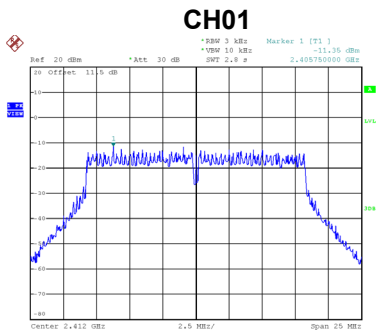
Date: 4.APR.2024 10:10:57



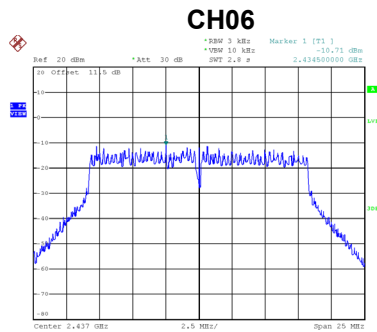
Date: 4.APR.2024 10:12:32

Test Mode	TX G Mode
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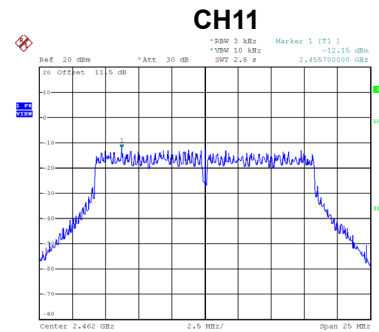
Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
01	2412	-11.35	8.00	Complies
06	2437	-10.71	8.00	Complies
11	2462	-12.15	8.00	Complies



Date: 4.APR.2024 10:14:34



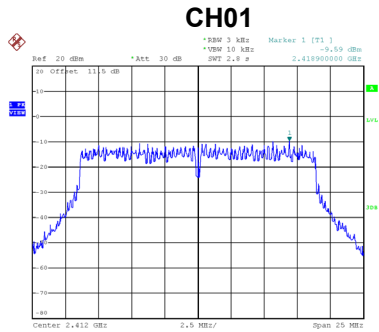
Date: 4.APR.2024 10:16:01



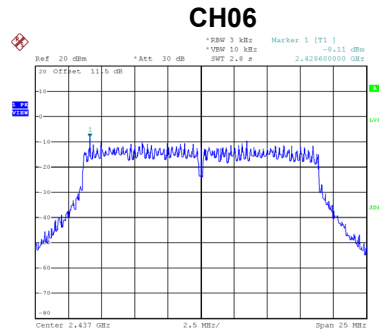
Date: 4.APR.2024 10:17:52

Test Mode	TX N(HT20) Mode
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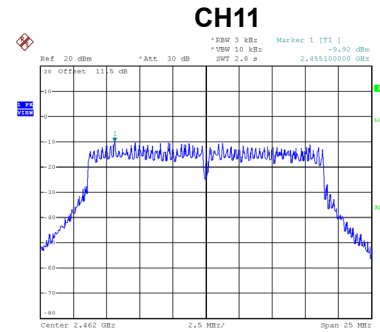
Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
01	2412	-9.59	8.00	Complies
06	2437	-8.11	8.00	Complies
11	2462	-9.92	8.00	Complies



Date: 4.APR.2024 10:19:44



Date: 4.APR.2024 10:20:58



Date: 4.APR.2024 10:22:18

End of Test Report