



FCC Radio Test Report

FCC ID: 2APRGMS30

This report concerns: Original Grant

Project No. : 2403G073
Equipment : AX3000 Whole-Home Wi-Fi 6 Mesh System with 2.5G Port
Brand Name : Cudy
Test Model : M3000
Series Model : N/A
Applicant : Shenzhen Cudy Technology Co., Ltd.
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Manufacturer : Shenzhen Cudy Technology Co., Ltd.
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Address : Room A606, Gaoxinqi Industrial Park, Liuxianyi Road, Baoan District, Shenzhen, China
Date of Receipt : Mar. 14, 2024
Date of Test : Mar. 19, 2024 ~ May 29, 2024
Issued Date : Jun. 19, 2024
Report Version : R01
Test Sample : Engineering Sample No.: SSL2024031413 for radiated and ac power line conducted emissions, SL2024031414 for others.
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. The report must not be used by the client to claim product certification, approval, or endorsement by A2LA or any agency of the U.S. Government.

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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-1-2403G073	R00	Original Report.	Jun. 06, 2024	Invalid
BTL-FCCP-1-2403G073	R01	Modified the comments of Timco.	Jun. 19, 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

KDB 662911 D01 Multiple Transmitter Output v02r01

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:

For Output Power item: Room 108, Building 2, No.1, Yile Road, Songshan Lake Zone, Dongguan City, Guangdong, People's Republic of China.

For other items: 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. AC power line 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	0.95 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	25°C	66%	AC 120V/60Hz	Hayden Chen	Apr. 08, 2024
Radiated Emissions -9kHz to 30 MHz	24°C	56%	AC 120V/60Hz	Hayden Chen	May 16, 2024
Radiated Emissions -30MHz to 1000MHz	23°C	44%	AC 120V/60Hz	Jensen Zhou	Mar. 26, 2024
Radiated Emissions -Above 1000MHz	23°C	56%	AC 120V/60Hz	Allen Tong	May 12, 2024
	25°C	48%	AC 120V/60Hz	Jensen Zhou	Apr. 04, 2024
Bandwidth	24°C	57%	DC 12V	Parker Yang	Apr. 17, 2024- May 13, 2024
Maximum Output Power	24°C	51-53%	DC 12V	Evan Fang	Apr. 01, 2024- May 16, 2024
Conducted Spurious Emissions	24°C	57%	DC 12V	Parker Yang	Apr. 17, 2024- May 13, 2024
Power Spectral Density	24°C	57%	DC 12V	Parker Yang	Apr. 17, 2024- May 13, 2024

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	AX3000 Whole-Home Wi-Fi 6 Mesh System with 2.5G Port
Brand Name	Cudy
Test Model	M3000
Series Model	N/A
Model Difference(s)	N/A
Software Version	2.0.0
Hardware Version	V2
Power Source	DC Voltage supplied from AC adapter. Model: DSA-12PF11-12 FUS 120100
Power Rating	I/P:100-240V ~ 50/60Hz 0.5A O/P:+12.0V --- 1.0A
Operation Frequency	2412 MHz ~ 2462 MHz
Modulation Type	IEEE 802.11b: DSSS IEEE 802.11g: OFDM IEEE 802.11n: OFDM IEEE 802.11ax: OFDMA
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 300 Mbps IEEE 802.11ax: up to 573.6 Mbps
Maximum Output Power Non Beamforming	IEEE 802.11b: 25.81 dBm (0.3811 W)
Maximum Output Power Beamforming	IEEE 802.11ax(HE20): 23.49 dBm (0.2234 W)

Note:

- 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), IEEE 802.11ax(HE20) CH03 - CH09 for IEEE 802.11n(HT40), IEEE 802.11ax(HE40)							
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		3.N101.1076	PCB	N/A	4.24
2		3.N101.1077	PCB	N/A	4.25

Note:

- This EUT supports MIMO 2X2, any transmit signals are correlated with each other, so Directional gain= $10\log[(10^{G1/20}+10^{G2/20}+...10^{GN/20})^2/N]$ dBi, that is Directional gain= $10\log[(10^{4.24/20}+10^{4.25/20})^2/2]$ dBi =7.26. So, the output power limit is $30-(7.26-6)=28.74$, the power spectral density limit is $8-(7.26-6)=6.74$.
- Beamforming Gain: 3 dB, that is Directional gain= $3+4.25=7.25$. So, the output power limit is $30-(7.25-6)=28.75$.

4. Table for Antenna Configuration:
For Non Beamforming:

Operating Mode TX Mode	2TX
IEEE 802.11b	V(Ant. 1 + Ant. 2)
IEEE 802.11g	V(Ant. 1 + Ant. 2)
IEEE 802.11n(HT20)	V(Ant. 1 + Ant. 2)
IEEE 802.11n(HT40)	V(Ant. 1 + Ant. 2)
IEEE 802.11ax(HE20)	V(Ant. 1 + Ant. 2)
IEEE 802.11ax(HE40)	V(Ant. 1 + Ant. 2)

For Beamforming:

Operating Mode TX Mode	2TX
IEEE 802.11n(HT20)	V(Ant. 1 + Ant. 2)
IEEE 802.11n(HT40)	V(Ant. 1 + Ant. 2)
IEEE 802.11ax(HE20)	V(Ant. 1 + Ant. 2)
IEEE 802.11ax(HE40)	V(Ant. 1 + Ant. 2)

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(HT40) Mode Channel 03/06/09
Mode 5	TX AX(HE20) Mode Channel 01/06/11
Mode 6	TX AX(HE40) Mode Channel 03/06/09
Mode 7	TX B Mode Channel 11

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 7	TX B Mode Channel 11

Radiated emissions test - Below 1GHz	
Final Test Mode	Description
Mode 7	TX B Mode Channel 11

Radiated emissions test- Above 1GHz_Non Beamforming	
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
Mode 4	TX N(HT40) Mode Channel 03/06/09
Mode 5	TX AX(HE20) Mode Channel 01/06/11
Mode 6	TX AX(HE40) Mode Channel 03/06/09

Maximum Output Power test_Non Beamforming	
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
Mode 4	TX N(HT40) Mode Channel 03/06/09
Mode 5	TX AX(HE20) Mode Channel 01/06/11
Mode 6	TX AX(HE40) Mode Channel 03/06/09

Maximum Output Power test_Beamforming	
Final Test Mode	Description
Mode 3	TX N(HT20) Mode Channel 01/06/11
Mode 4	TX N(HT40) Mode Channel 03/06/09
Mode 5	TX AX(HE20) Mode Channel 01/06/11
Mode 6	TX AX(HE40) Mode Channel 03/06/09

Other Conducted test_Non Beamforming	
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
Mode 4	TX N(HT40) Mode Channel 03/06/09
Mode 5	TX AX(HE20) Mode Channel 01/06/11
Mode 6	TX AX(HE40) Mode Channel 03/06/09

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 B Mode Channel 11 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) The measurements for Output Power are tested, the Non Beamforming and Beamforming are recorded in the report. The worst case is Non Beamforming and only the worst case is documented for other test items.
- (6) IEEE 802.11ax mode only supports full RU, so only the full RU is evaluated and measured inside report.
- (7) For radiated emission above 1 GHz test, the polarization of Vertical and Horizontal are evaluated, the worst case is Vertical and recorded.

3.3 PARAMETERS OF TEST SOFTWARE

Non Beamforming

Test Software Version	QATool_UIv2.78_DLLv6.83		
Frequency (MHz)	2412	2437	2462
IEEE 802.11b	17	17	20
IEEE 802.11g	19	21.5	20
IEEE 802.11n(HT20)	19	20	20.5
IEEE 802.11ax(HE20)	18.5	21	19
Frequency (MHz)	2422	2437	2452
IEEE 802.11n(HT40)	18.5	20	17.5
IEEE 802.11ax(HE40)	16.5	18	17

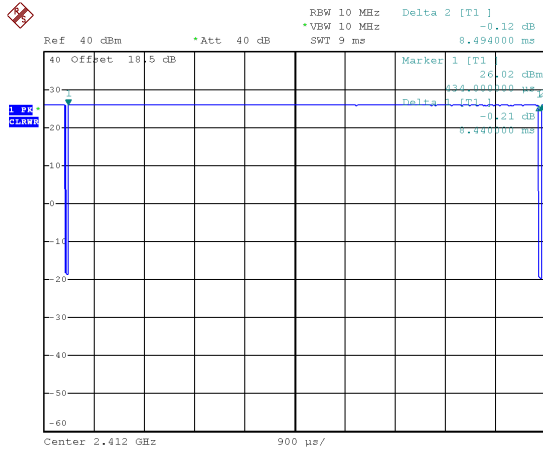
Beamforming

Test Software Version	QATool_UIv2.78_DLLv6.83		
Frequency (MHz)	2412	2437	2462
IEEE 802.11n(HT20)	18.5	19.5	20
IEEE 802.11ax(HE20)	18	20.5	18.5
Frequency (MHz)	2422	2437	2452
IEEE 802.11n(HT40)	18	19.5	17
IEEE 802.11ax(HE40)	16	17.5	16.5

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.

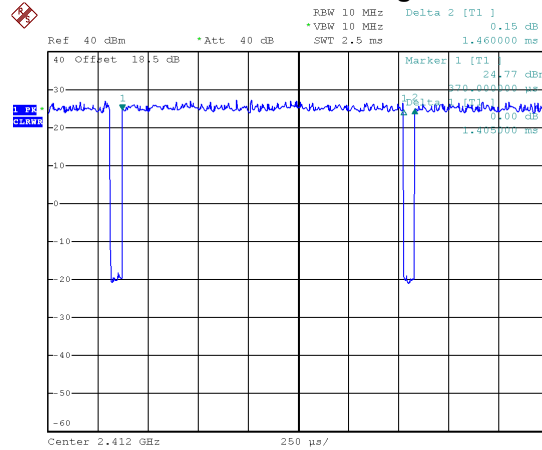
IEEE 802.11b



Date: 17.APR.2024 18:17:38

Duty cycle = $8.440 \text{ ms} / 8.494 \text{ ms} = 99.36\%$
 Duty Factor = $10 \log(1/\text{Duty cycle}) = 0.00$

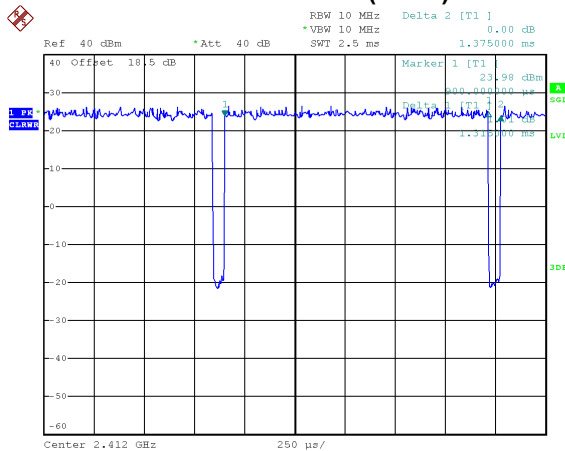
IEEE 802.11g



Date: 17.APR.2024 18:19:04

Duty cycle = $1.405 \text{ ms} / 1.460 \text{ ms} = 96.23\%$
 Duty Factor = $10 \log(1/\text{Duty cycle}) = 0.17$

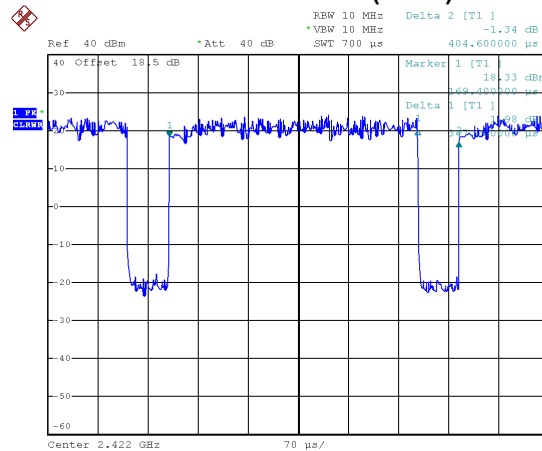
IEEE 802.11n(HT20)



Date: 17.APR.2024 18:20:08

Duty cycle = $1.315 \text{ ms} / 1.375 \text{ ms} = 95.64\%$
 Duty Factor = $10 \log(1/\text{Duty cycle}) = 0.19$

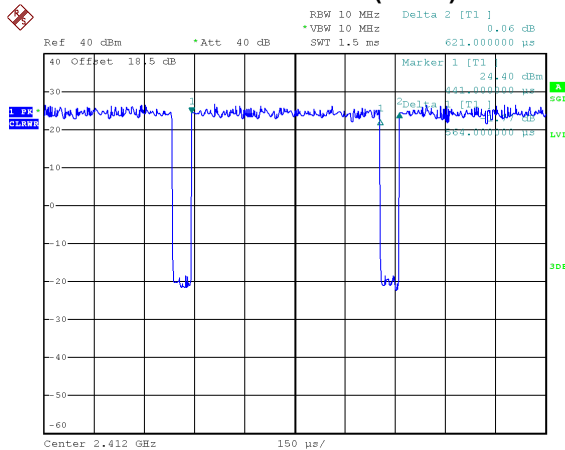
IEEE 802.11n(HT40)



Date: 17.APR.2024 18:24:27

Duty cycle = $0.347 \text{ ms} / 0.405 \text{ ms} = 85.81\%$
 Duty Factor = $10 \log(1/\text{Duty cycle}) = 0.66$

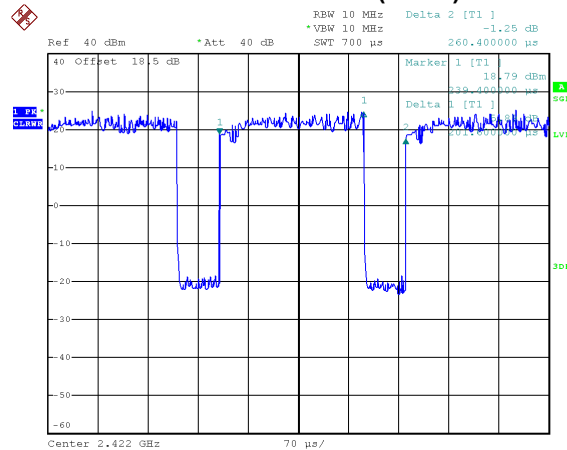
IEEE 802.11ax(HE20)



Date: 17.APR.2024 18:22:07

Duty cycle = 0.564 ms / 0.621 ms = 90.82%
Duty Factor = 10 log(1/Duty cycle) = 0.42

IEEE 802.11ax(HE40)



Date: 17.APR.2024 18:23:39

Duty cycle = 0.202 ms / 0.260 ms = 77.42%
Duty Factor = 10 log(1/Duty cycle) = 1.11

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 712 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 760 Hz.

For IEEE 802.11n(HT40):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 2880 Hz.

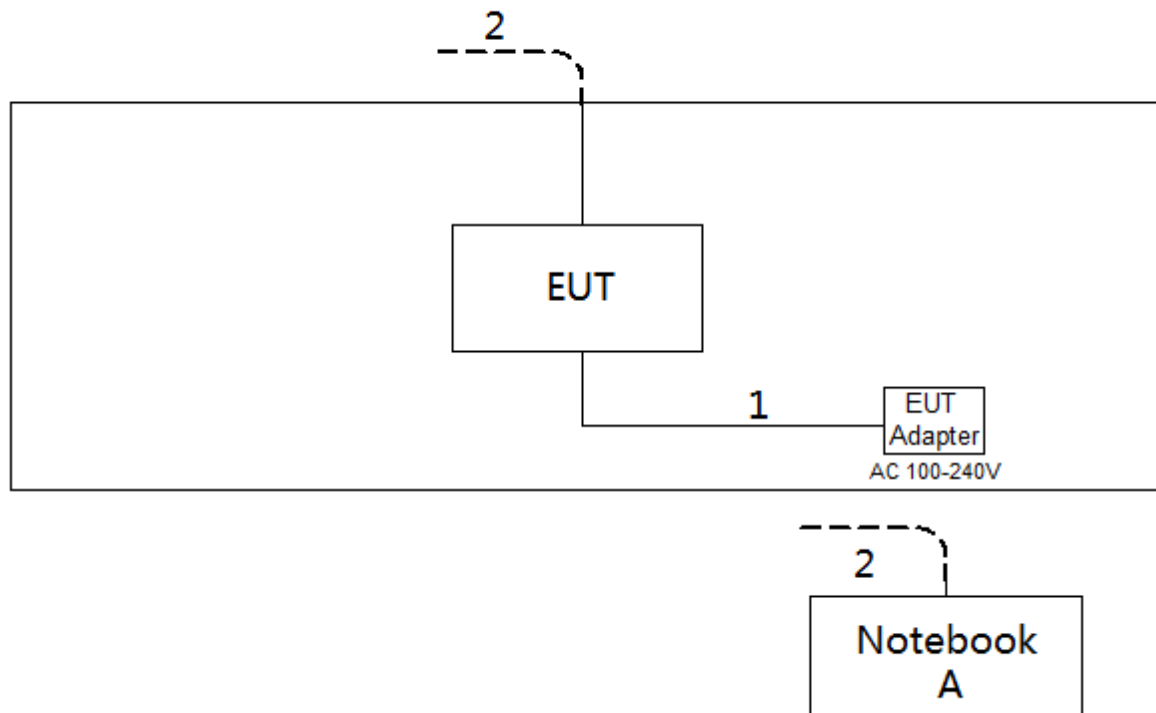
For IEEE 802.11ax(HE20):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 1773 Hz.

For IEEE 802.11ax(HE40):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 4960 Hz.

3.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



3.6 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.
A	Notebook	Dell	INSPIRON 5493	N/A

Item	Cable Type	Shielded Type	Ferrite Core	Length
1	DC Cable	NO	NO	1.5m
2	RJ45 Cable	NO	NO	10m

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.

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.

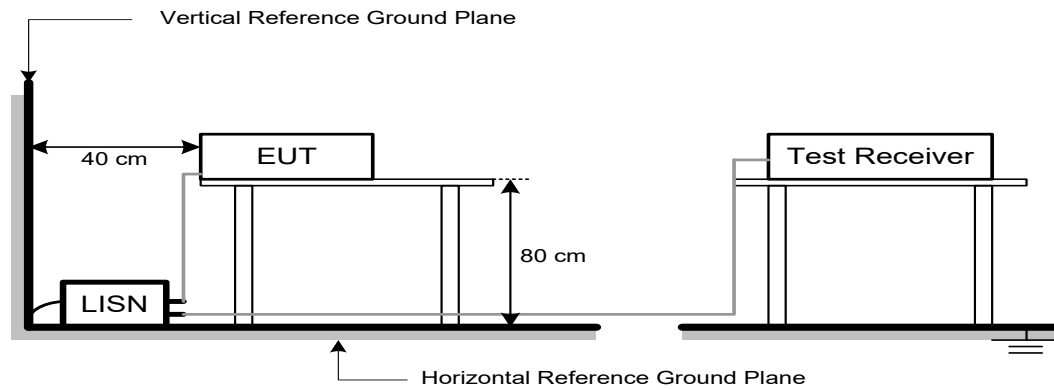
The following table is the setting of the receiver:

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 (dBμV/m)		Harmonic at 1m (dBμV/m)	
	Peak	Average	Peak	Average
Above 1000	74	54	83.5 (Note 4)	63.5 (Note 4)

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)

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

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

5.2 TEST PROCEDURE

- 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)
- The measuring distance of 3 m or 1 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)
- 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.
- 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).
- 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.
- 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.
- 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)
- 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)
- 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

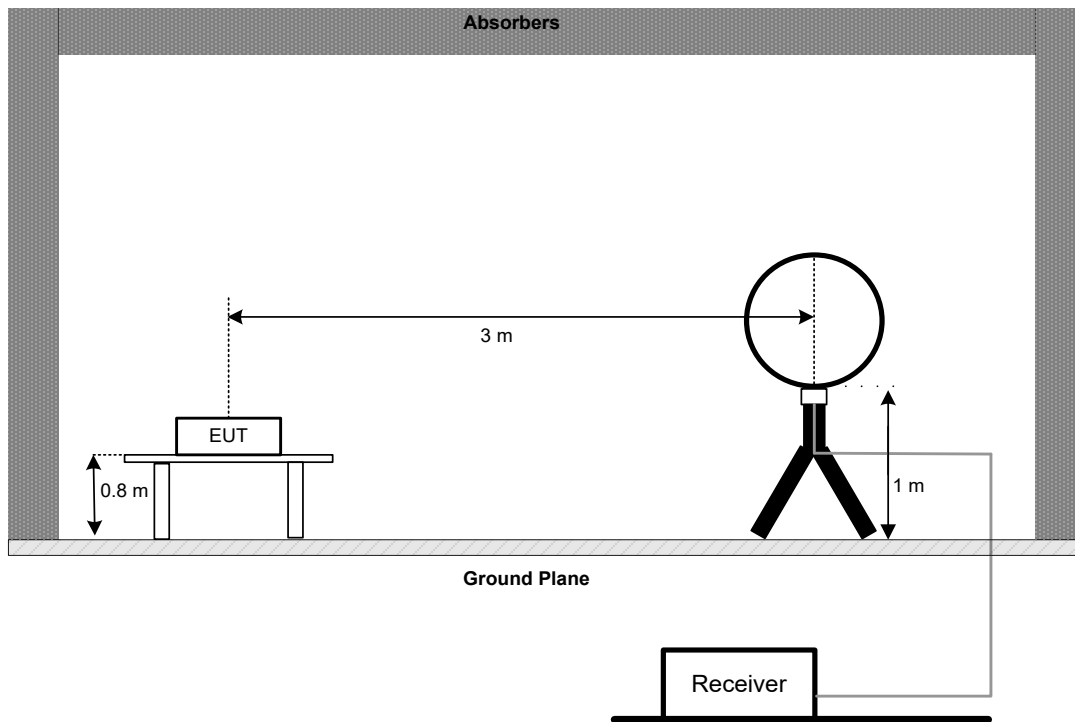
Receiver Parameters	Setting
Start ~ Stop Frequency	9 kHz~90 kHz for PK/AVG detector
Start ~ Stop Frequency	90 kHz~110 kHz for QP detector
Start ~ Stop Frequency	110 kHz~490 kHz for PK/AVG detector
Start ~ Stop Frequency	490 kHz~30 MHz for QP detector
Start ~ Stop Frequency	30 MHz~1000 MHz for QP detector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

5.3 DEVIATION FROM TEST STANDARD

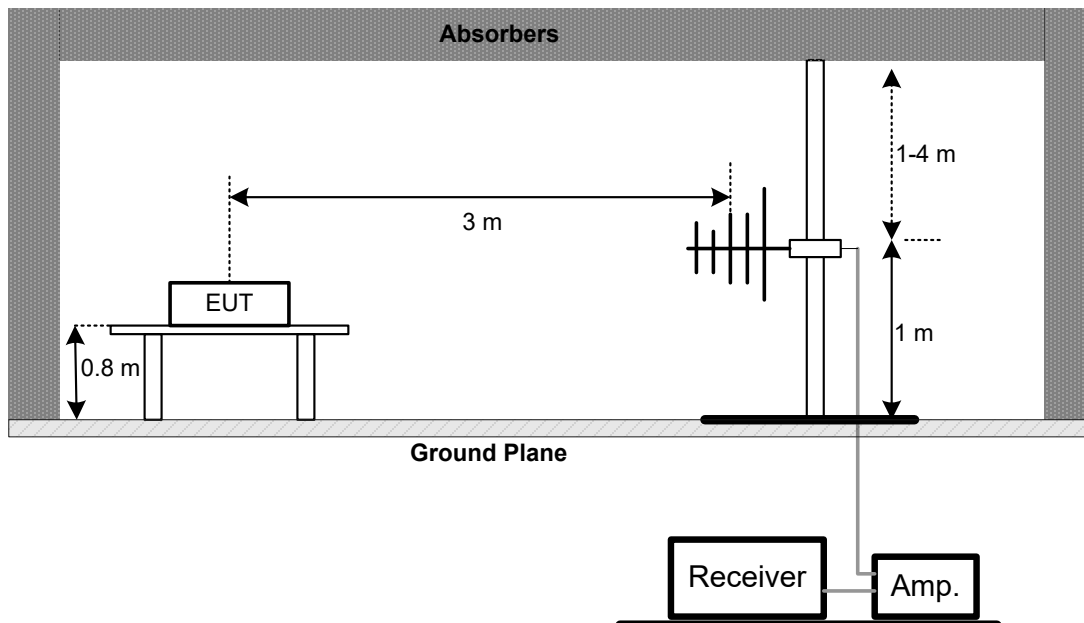
No deviation.

5.4 TEST SETUP

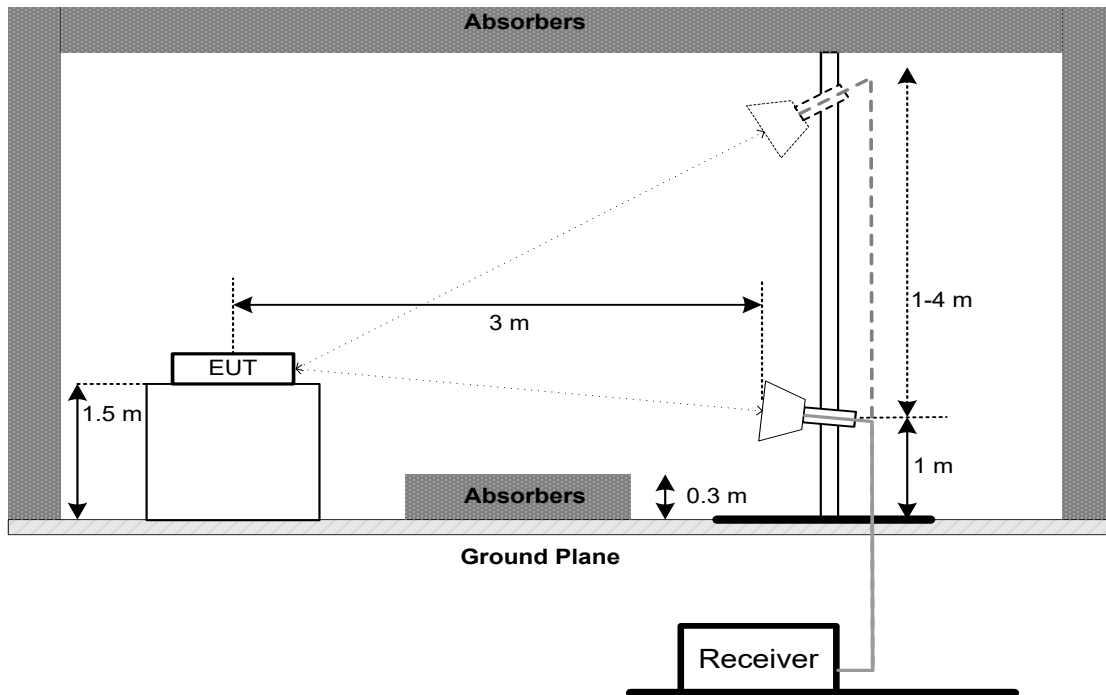
9 kHz to 30 MHz



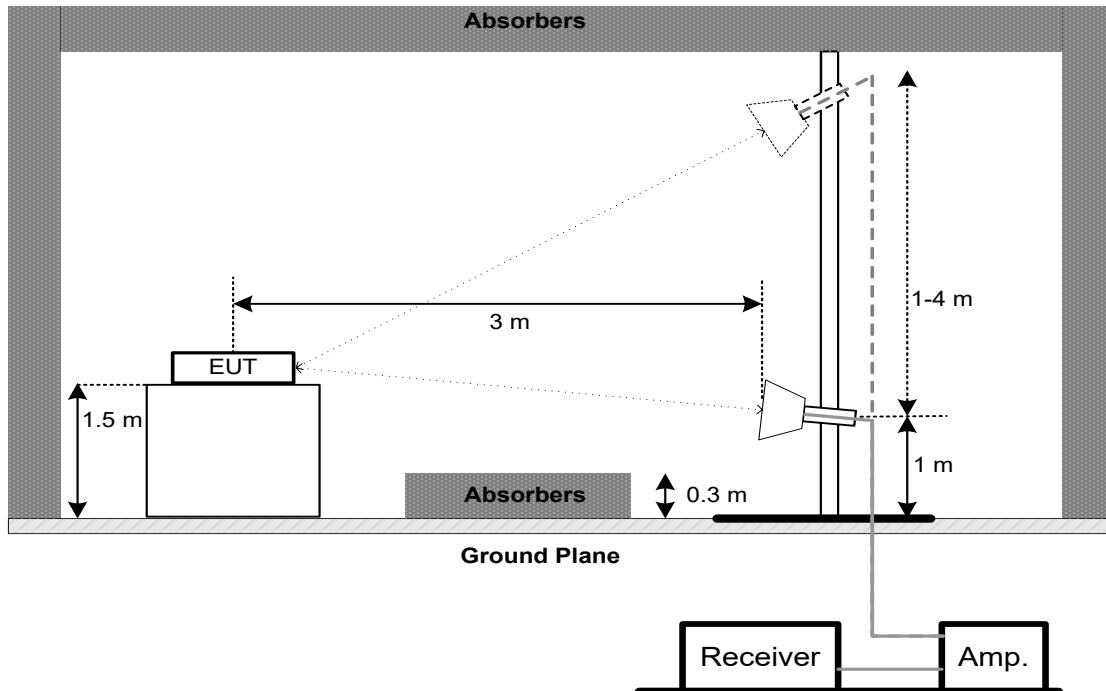
30 MHz to 1 GHz



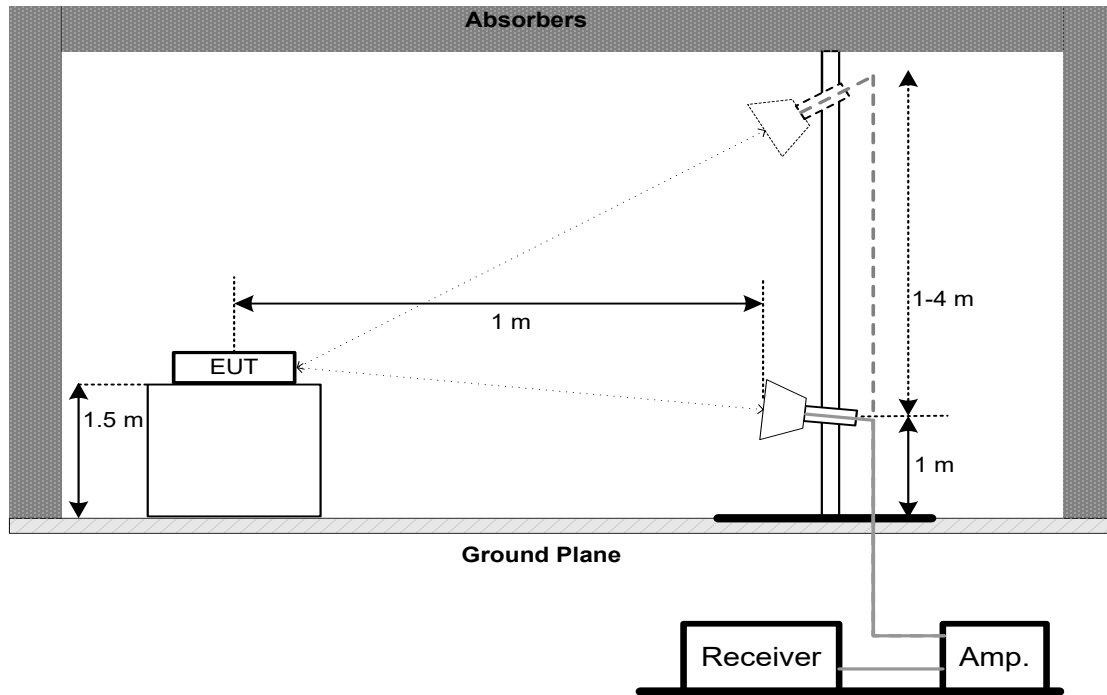
Above 1 GHz Band edge



Harmonic(1 GHz to 18 GHz)



Harmonic(Above 18 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

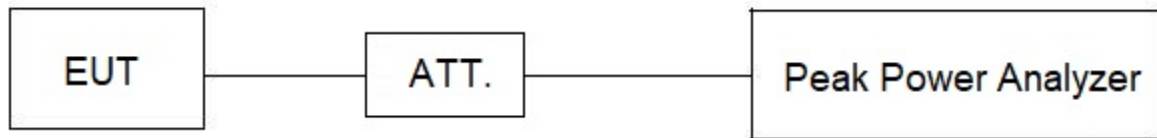
7.2 TEST PROCEDURE

- 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 and FCC KDB 662911 D01 v02r01 Multiple Transmitter Output.

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

- 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:

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

- 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:

Spectrum Parameters	Setting
Span Frequency	25 MHz (20 MHz) / 60 MHz (40 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-001	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 1513-60B	1513-60 B-034	Mar. 31, 2024 Mar. 30, 2025
2	MXE EMI Receiver	Keysight	N9038A	MY56400091	Dec. 22, 2024
3	Cable	N/A	RW2350-3.8A-NMB M-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 May 16, 2025

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-SMS M-12.5M	N/A	Feb. 19, 2025
6	Cable	RegalWay	RWLP50-4.0A-NM RASM-2.5M	N/A	Aug. 08, 2024
7	Cable	RegalWay	RWLP50-4.0A-NM RASMRA-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-2.92 M2.92M-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 May 16, 2025
13	Filter	STI	STI15-9912	N/A	Jun. 16, 2024
14	Positioning Controller	MF	MF-7802	N/A	N/A
15	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
16	Attenuator	Talent Microwave	TA10A2-S-18	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	FSP40	100185	Jun. 16, 2024
2	Attenuator	Talent Microwave	TA10A0-S-26.5	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
5	Measurement Software	BTL	BTL Conducted Test	N/A	N/A

Maximum Output Power

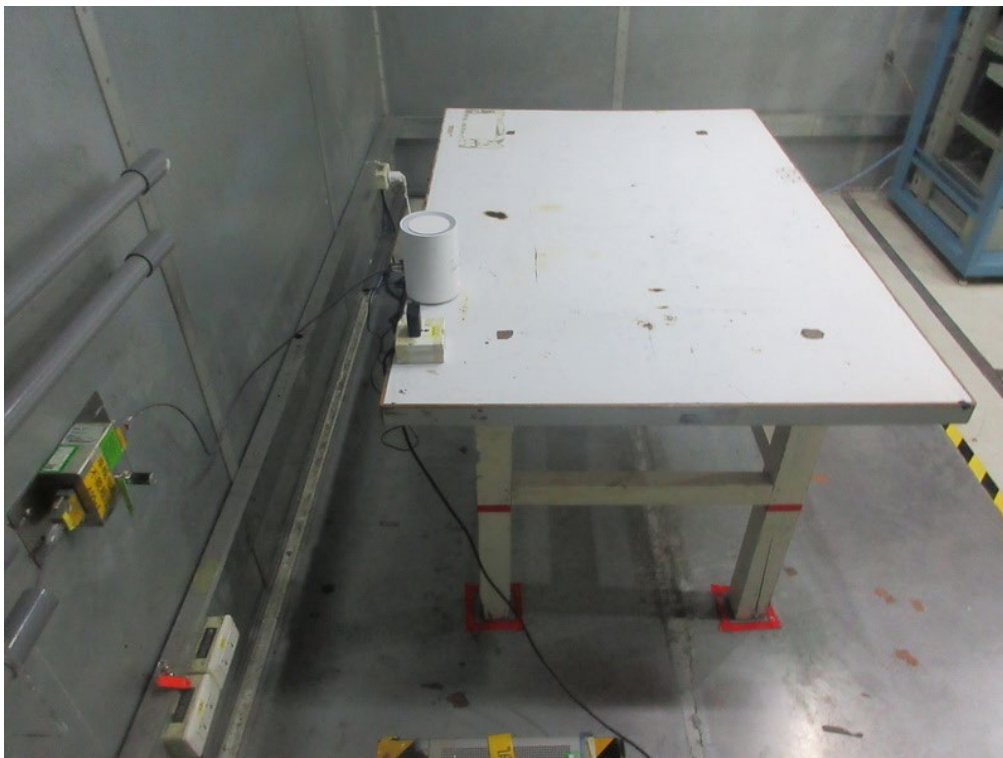
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Attenuator	RegalWay	RWA-201-S-10	NA	Sep. 26, 2024
2	Power sensors	MA24408A	12592	NA	Dec. 22, 2024
3	MA24400A PEAK POWER ANALYZER	VERSION 1.1.0.0	N/A	N/A	N/A

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

All calibration period of equipment list is one year.

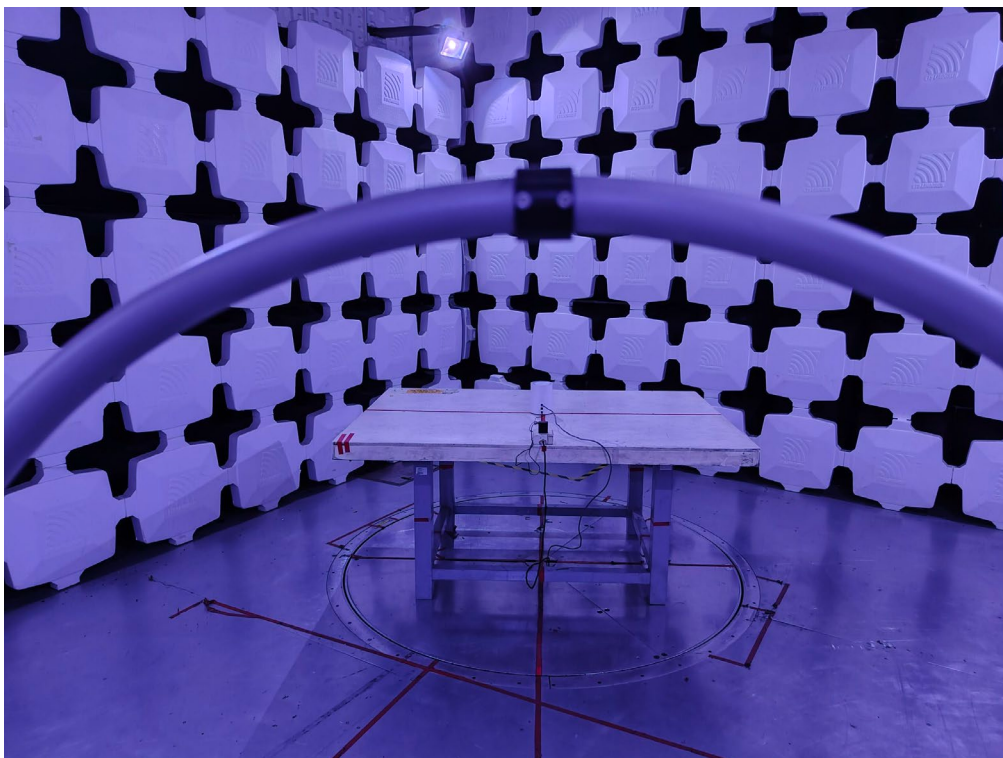
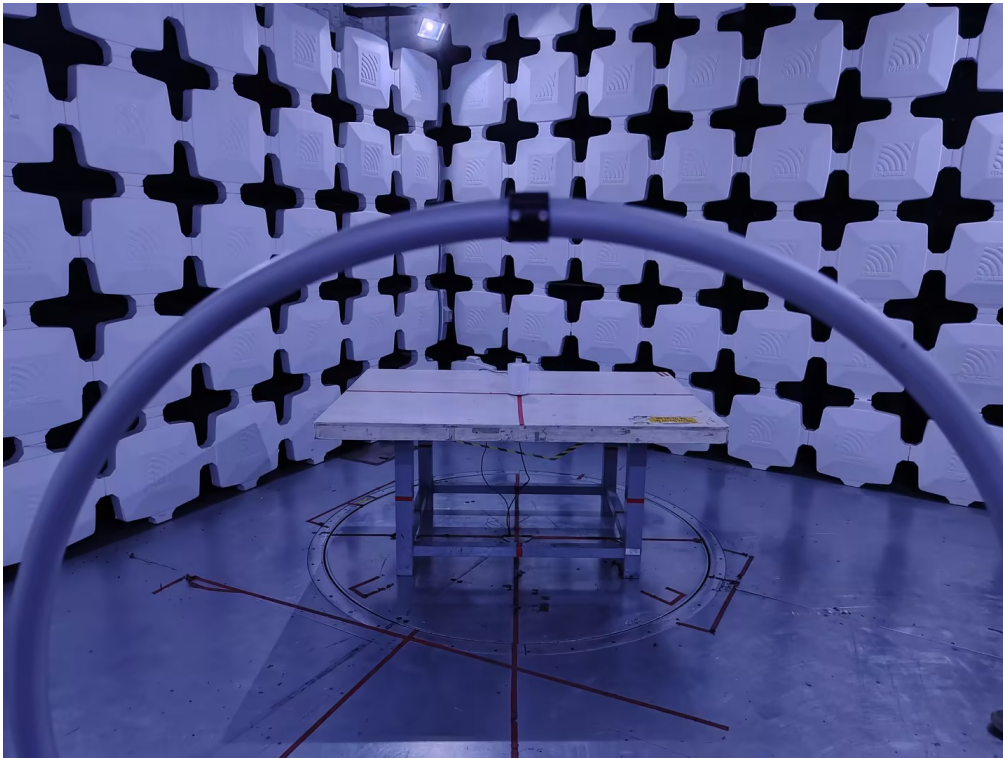
11. EUT TEST PHOTO

AC Power Line Conducted Emissions Test Photos



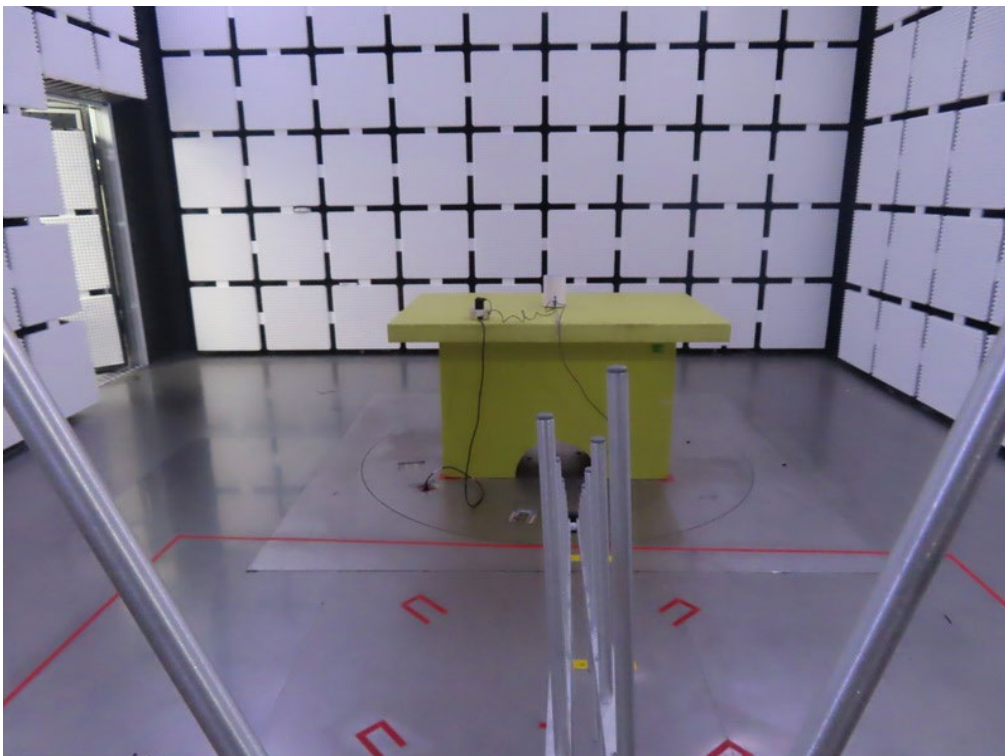
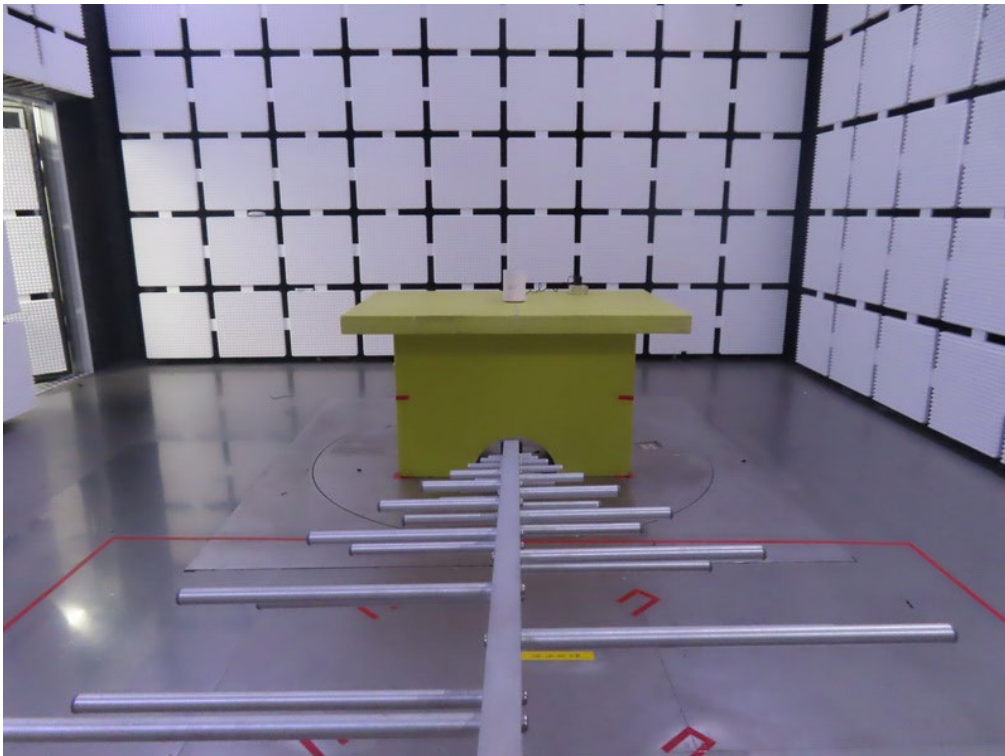
Radiated Emissions Test Photos

9 kHz to 30 MHz



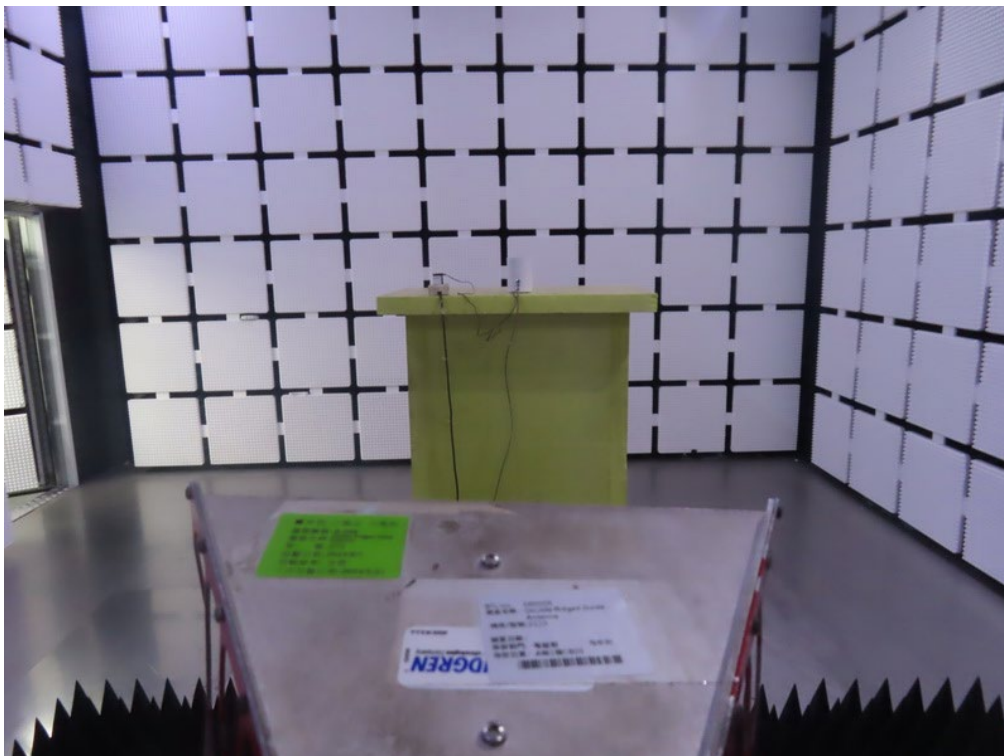
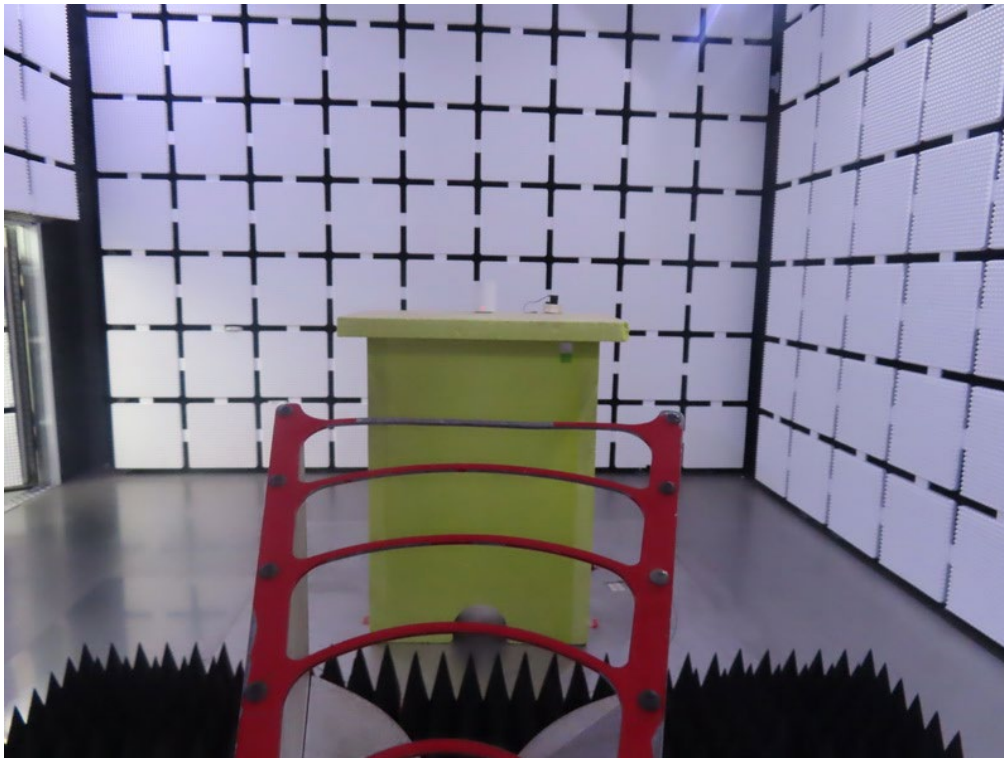
Radiated Emissions Test Photos

30 MHz to 1 GHz



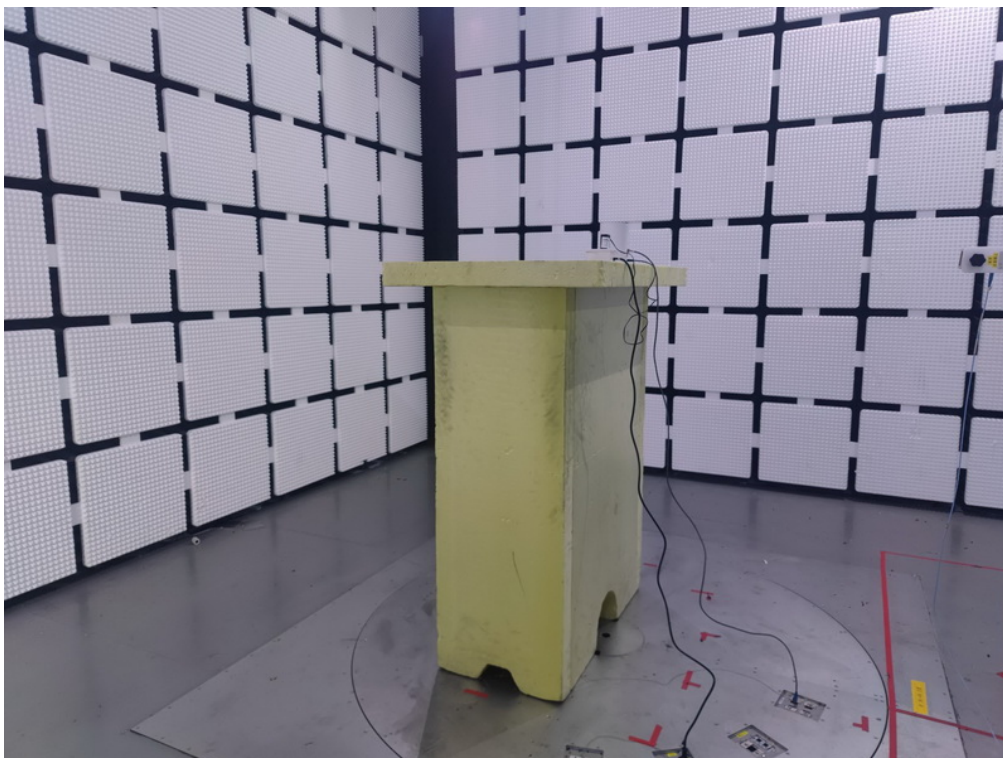
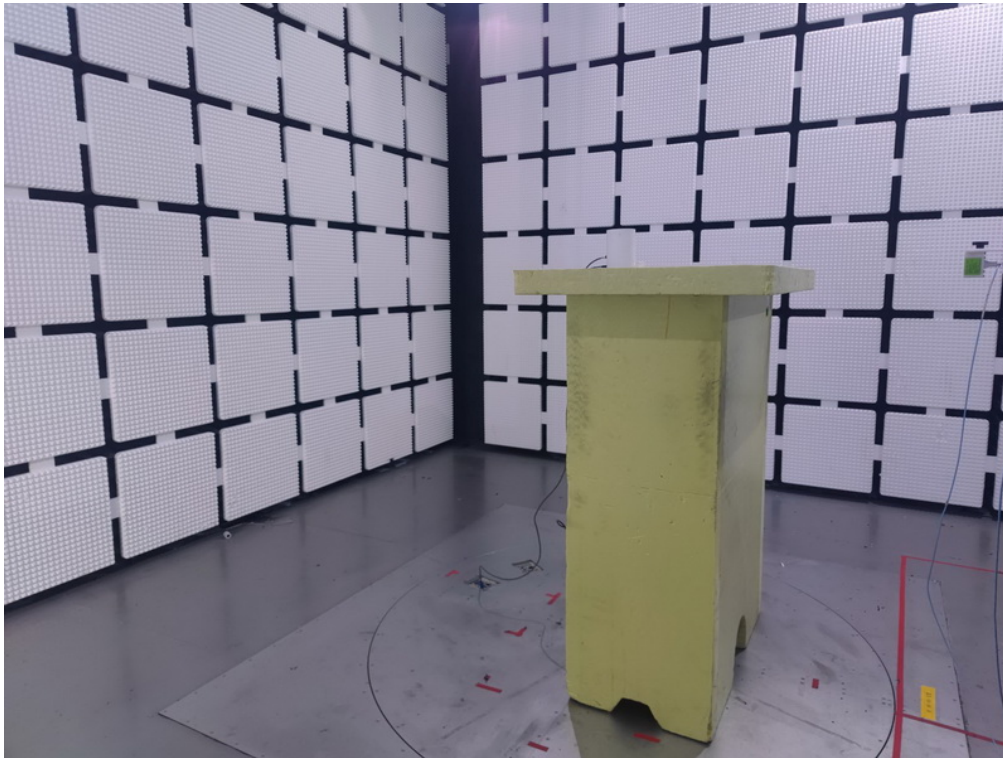
Radiated Emissions Test Photos

Band edge & Harmonic(1 GHz to 18 GHz)

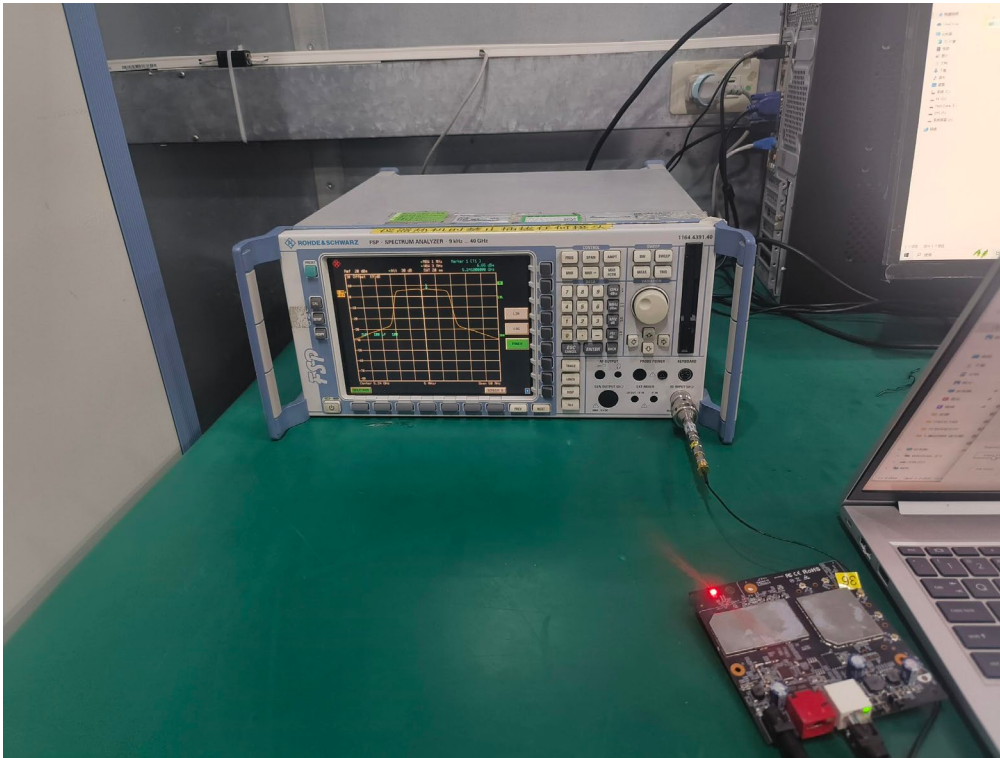


Radiated Emissions Test Photos

Harmonic(Above 18 GHz)

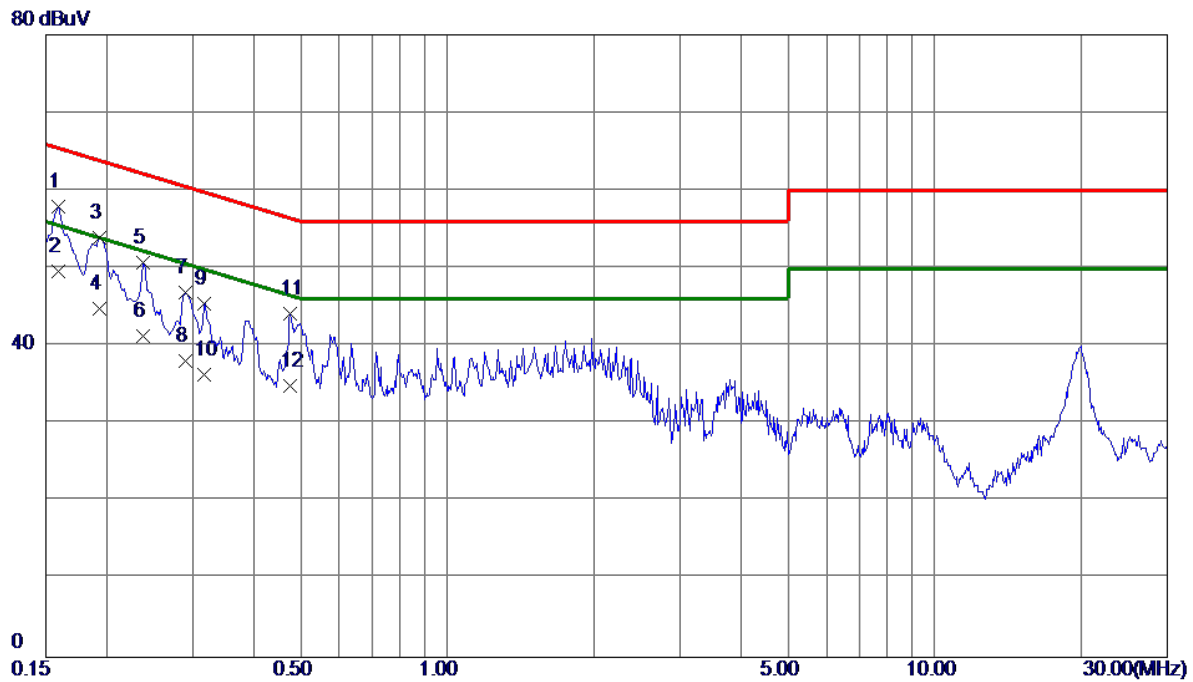


Conducted Test Photos



APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS

Test Mode	TX B Mode Channel 11	Phase	Line
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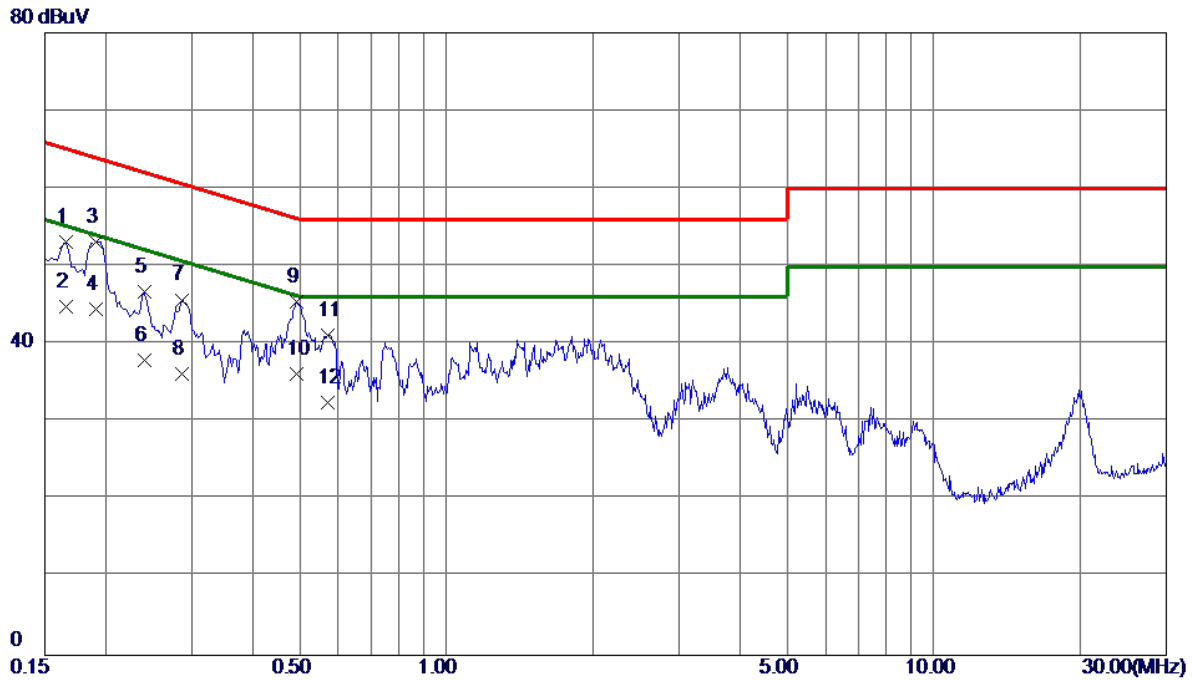


No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1590	48.01	9.97	57.98	65.52	-7.54	QP	
2 *	0.1590	39.60	9.97	49.57	55.52	-5.95	AVG	
3	0.1928	43.86	9.98	53.84	63.92	-10.08	QP	
4	0.1928	34.80	9.98	44.78	53.92	-9.14	AVG	
5	0.2378	40.71	10.04	50.75	62.17	-11.42	QP	
6	0.2378	31.20	10.04	41.24	52.17	-10.93	AVG	
7	0.2895	36.69	10.15	46.84	60.54	-13.70	QP	
8	0.2895	27.90	10.15	38.05	50.54	-12.49	AVG	
9	0.3165	35.28	10.21	45.49	59.80	-14.31	QP	
10	0.3165	26.10	10.21	36.31	49.80	-13.49	AVG	
11	0.4762	33.59	10.58	44.17	56.41	-12.24	QP	
12	0.4762	24.30	10.58	34.88	46.41	-11.53	AVG	

REMARKS:

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

Test Mode	TX B Mode Channel 11	Phase	Neutral
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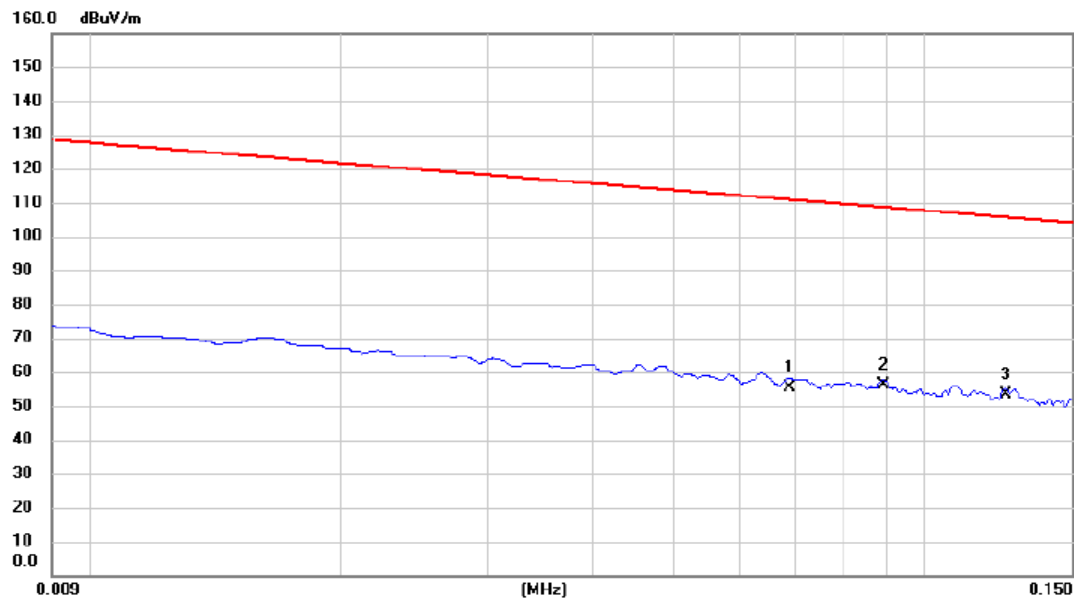
No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1658	43.17	9.93	53.10	65.17	-12.07	QP	
2	0.1658	34.80	9.93	44.73	55.17	-10.44	AVG	
3	0.1905	43.25	9.94	53.19	64.01	-10.82	QP	
4 *	0.1905	34.50	9.94	44.44	54.01	-9.57	AVG	
5	0.2400	36.77	10.01	46.78	62.10	-15.32	QP	
6	0.2400	27.89	10.01	37.90	52.10	-14.20	AVG	
7	0.2872	35.58	10.10	45.68	60.60	-14.92	QP	
8	0.2872	26.10	10.10	36.20	50.60	-14.40	AVG	
9	0.4920	34.84	10.57	45.41	56.13	-10.72	QP	
10	0.4920	25.60	10.57	36.17	46.13	-9.96	AVG	
11	0.5707	30.40	10.73	41.13	56.00	-14.87	QP	
12	0.5707	21.70	10.73	32.43	46.00	-13.57	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 B Mode Channel 11	Polarization	Ant 0°
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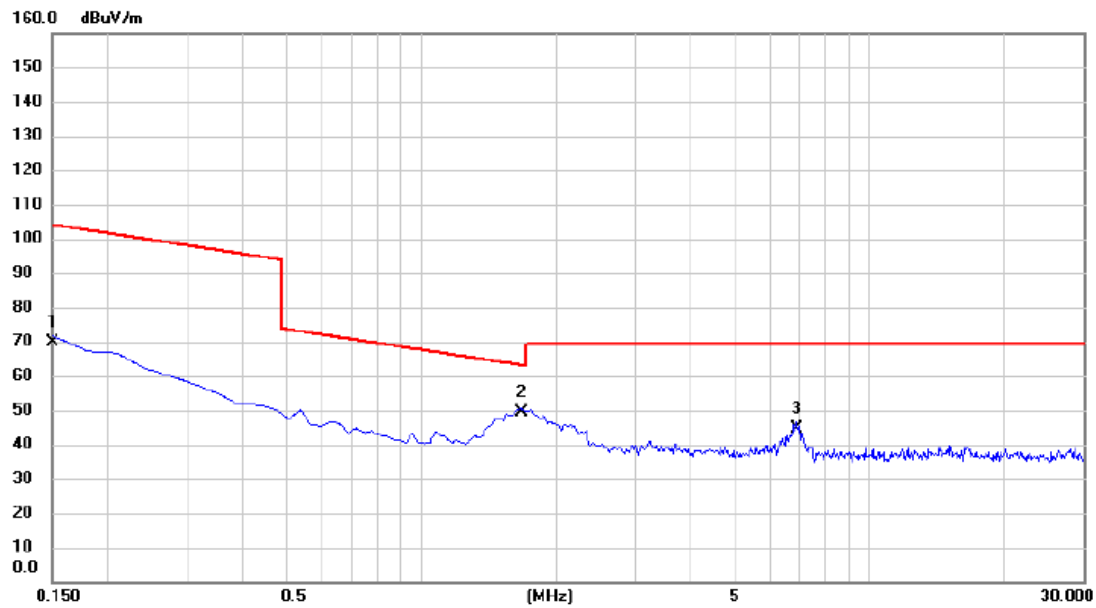


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.0690	34.16	21.26	55.42	110.83	-55.41	AVG	
2	*	0.0892	34.98	21.30	56.28	108.60	-52.32	AVG	
3		0.1250	31.94	21.29	53.23	105.67	-52.44	QP	

REMARKS:

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

Test Mode	TX B Mode Channel 11	Polarization	Ant 0°
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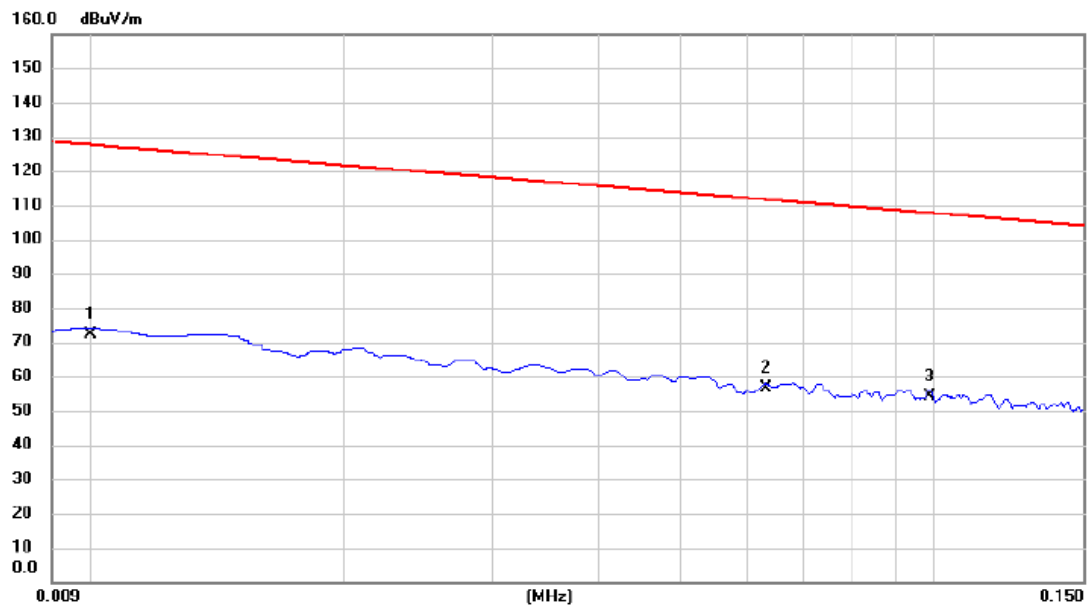
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.1500	48.65	21.26	69.91	104.09	-34.18	AVG	
2	*	1.6724	28.15	21.11	49.26	63.14	-13.88	QP	
3		6.8662	23.61	21.17	44.78	69.54	-24.76	QP	

REMARKS:

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

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

Test Mode	TX B Mode Channel 11	Polarization	Ant 90°
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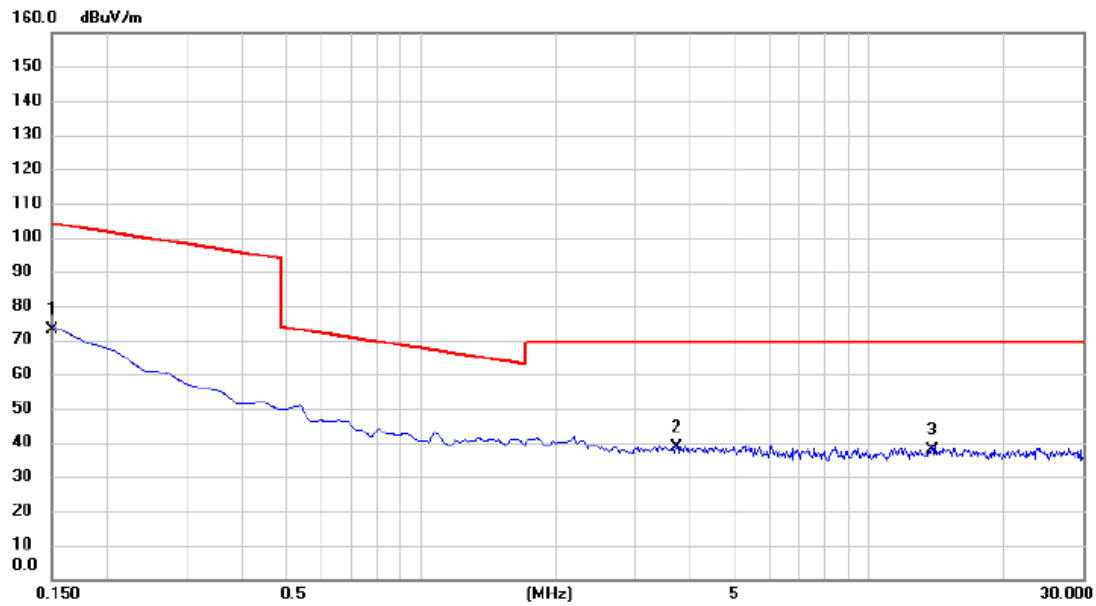
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.0100	51.68	20.50	72.18	127.60	-55.42	AVG	
2		0.0631	35.47	21.24	56.71	111.60	-54.89	AVG	
3	*	0.0988	32.84	21.33	54.17	107.71	-53.54	QP	

REMARKS:

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

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

Test Mode	TX B Mode Channel 11	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		0.1500	51.68	21.26	72.94	104.09	-31.15	AVG	
2	*	3.7320	17.36	21.13	38.49	69.54	-31.05	QP	
3		13.8810	16.57	21.24	37.81	69.54	-31.73	QP	

REMARKS:

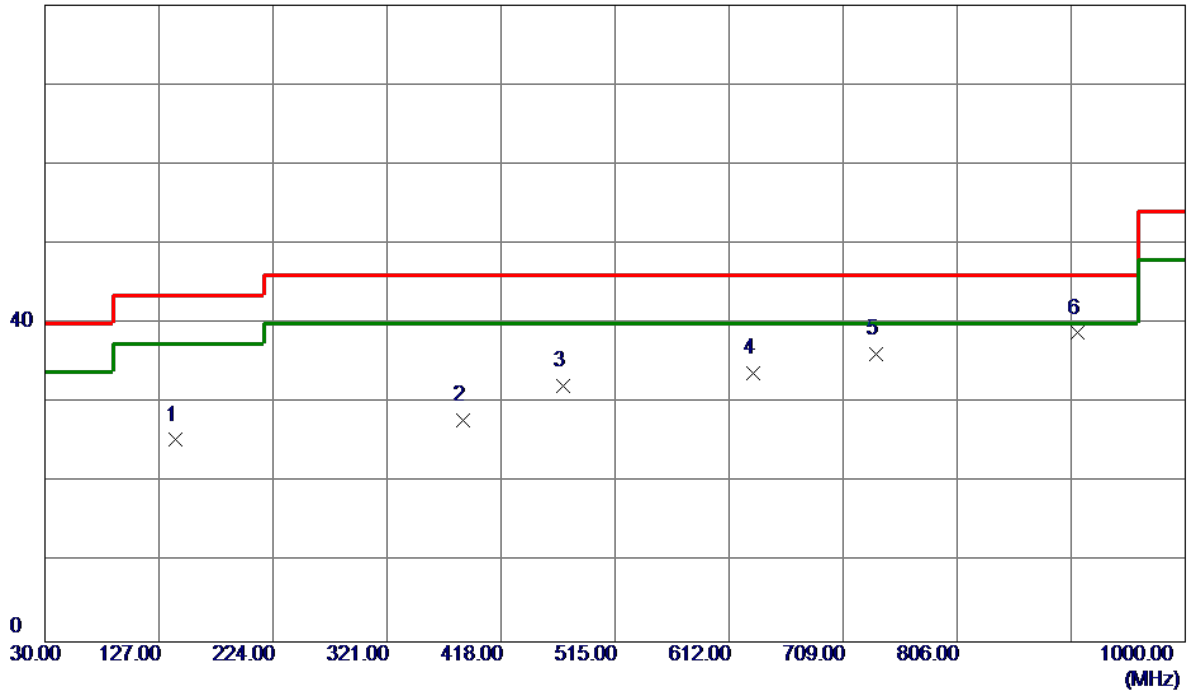
(1) Measurement Value = Reading Level + Correct Factor.

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

APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1000 MHZ

Test Mode	TX B Mode Channel 11	Polarization	Vertical
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80 dBuV/m



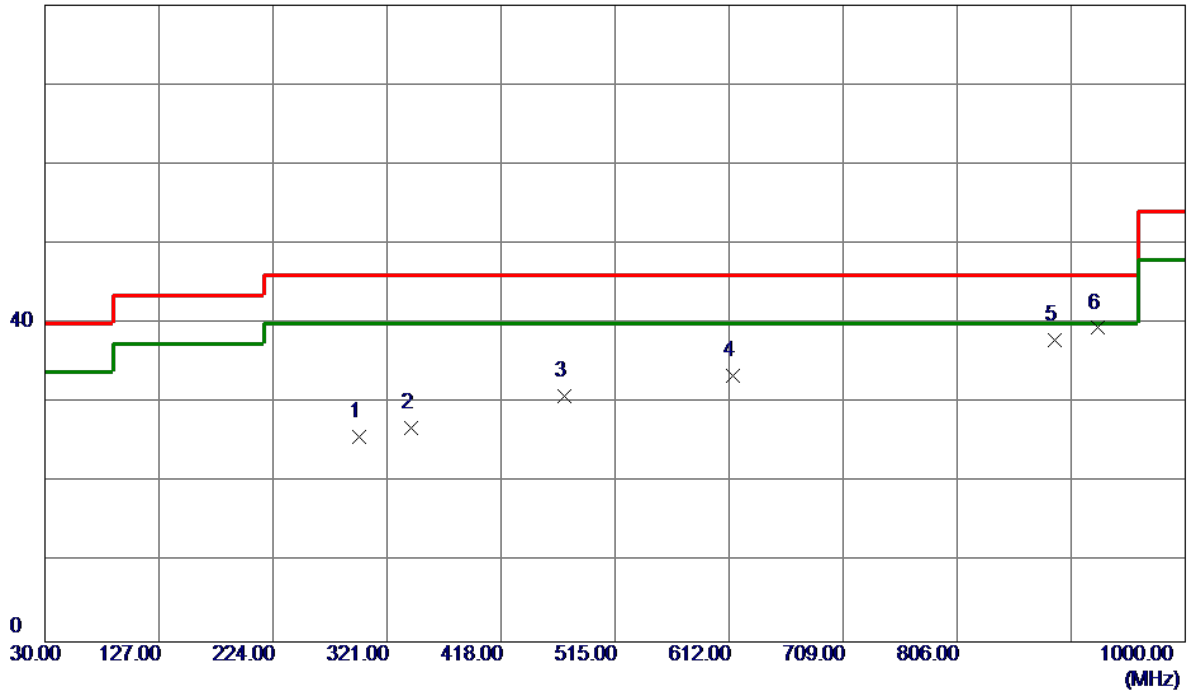
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	141.0650	37.05	-11.69	25.36	43.50	-18.14	Peak	
2	385.9900	36.31	-8.49	27.82	46.00	-18.18	Peak	
3	470.8650	38.67	-6.55	32.12	46.00	-13.88	Peak	
4	632.8550	37.00	-3.24	33.76	46.00	-12.24	Peak	
5	736.6450	37.78	-1.56	36.22	46.00	-9.78	Peak	
6 *	908.3350	38.64	0.16	38.80	46.00	-7.20	Peak	

REMARKS:

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

Test Mode	TX B Mode Channel 11	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	297.2349	36.42	-10.71	25.71	46.00	-20.29	Peak	
2	341.8550	36.45	-9.61	26.84	46.00	-19.16	Peak	
3	471.8350	37.45	-6.54	30.91	46.00	-15.09	Peak	
4	614.9099	37.03	-3.52	33.51	46.00	-12.49	Peak	
5	888.4500	37.89	-0.04	37.85	46.00	-8.15	Peak	
6 *	925.3100	39.20	0.24	39.44	46.00	-6.56	Peak	

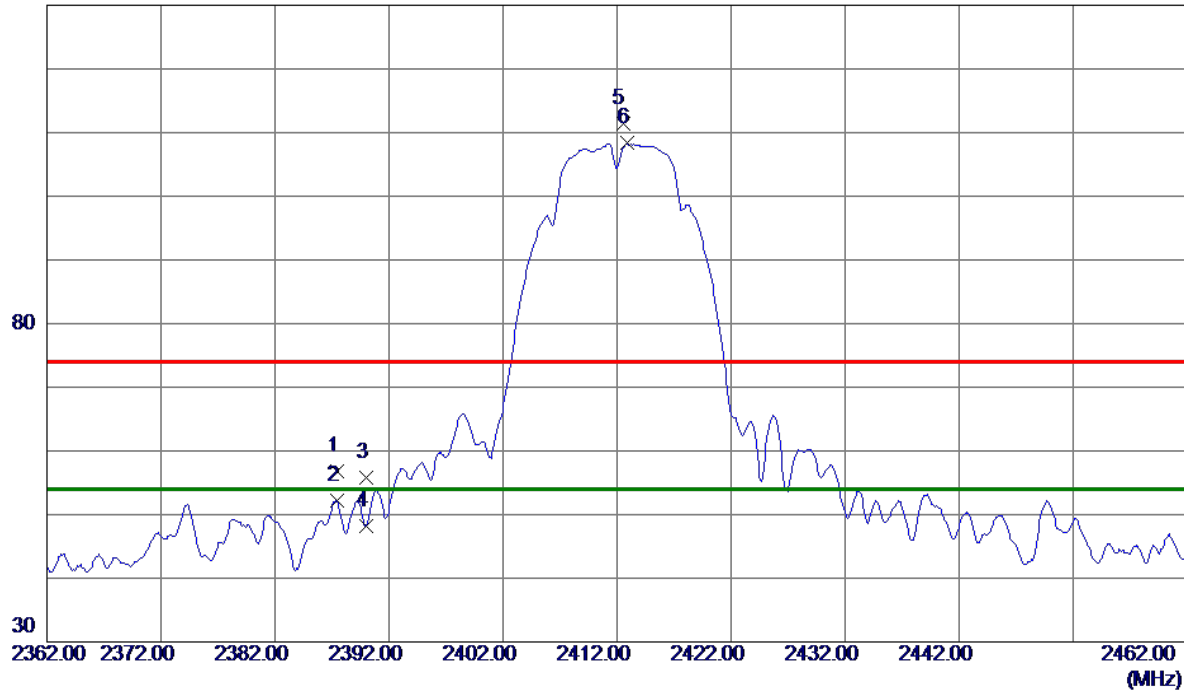
REMARKS:

- (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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130 dBuV/m



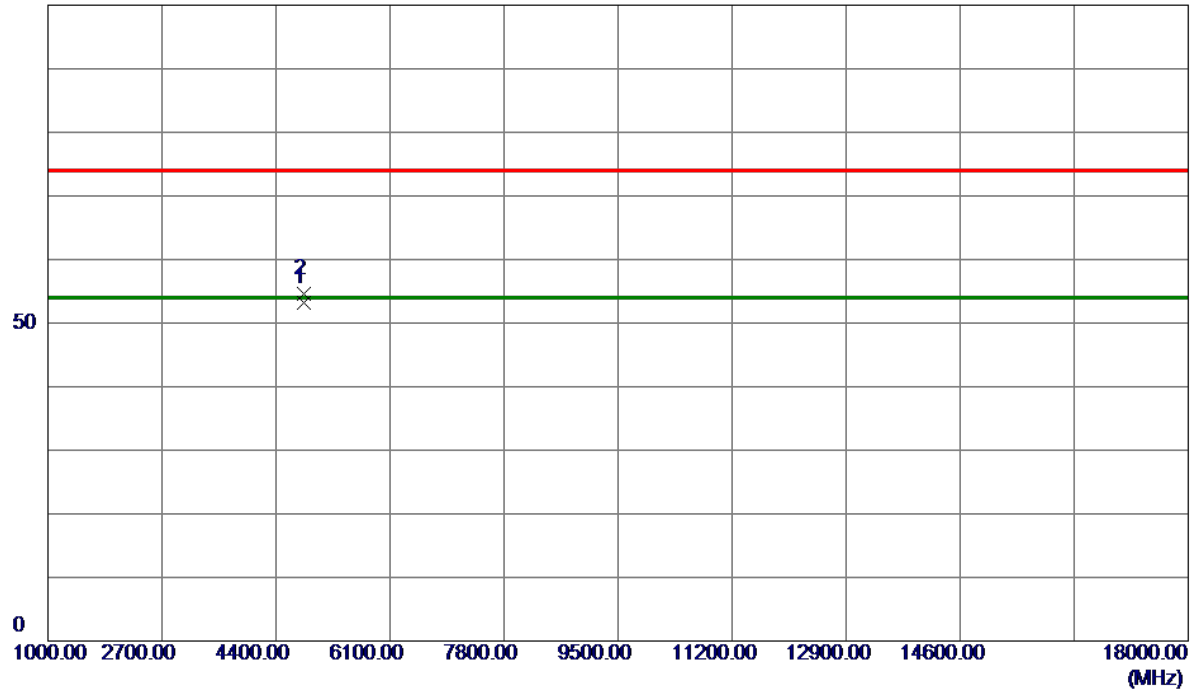
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2387.4000	50.75	6.00	56.75	74.00	-17.25	Peak	
2	2387.4000	46.18	6.00	52.18	54.00	-1.82	AVG	
3	2390.0000	49.80	6.00	55.80	74.00	-18.20	Peak	
4	2390.0000	42.22	6.00	48.22	54.00	-5.78	AVG	
5	2412.5000	105.45	6.00	111.45	74.00	37.45	Peak	No Limit
6 *	2412.9000	102.34	6.00	108.34	54.00	54.34	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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100 dBuV/m



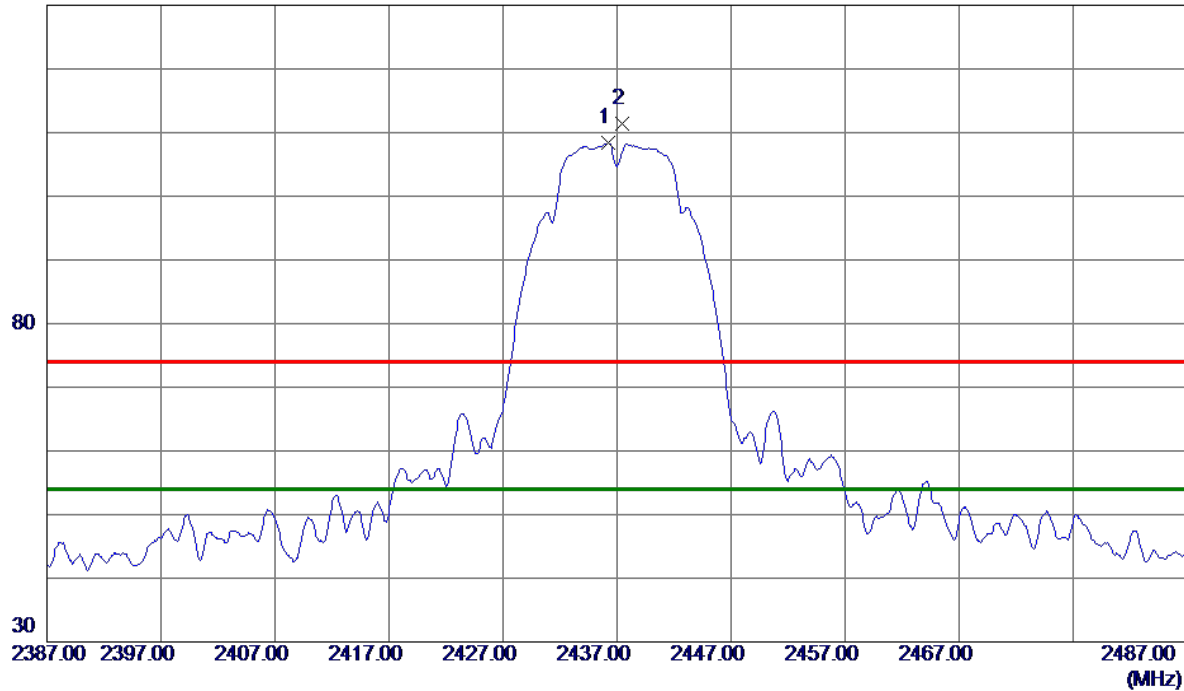
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4824.0350	52.55	0.72	53.27	54.00	-0.73	AVG	
2	4824.0400	53.80	0.72	54.52	74.00	-19.48	Peak	

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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130 dBuV/m



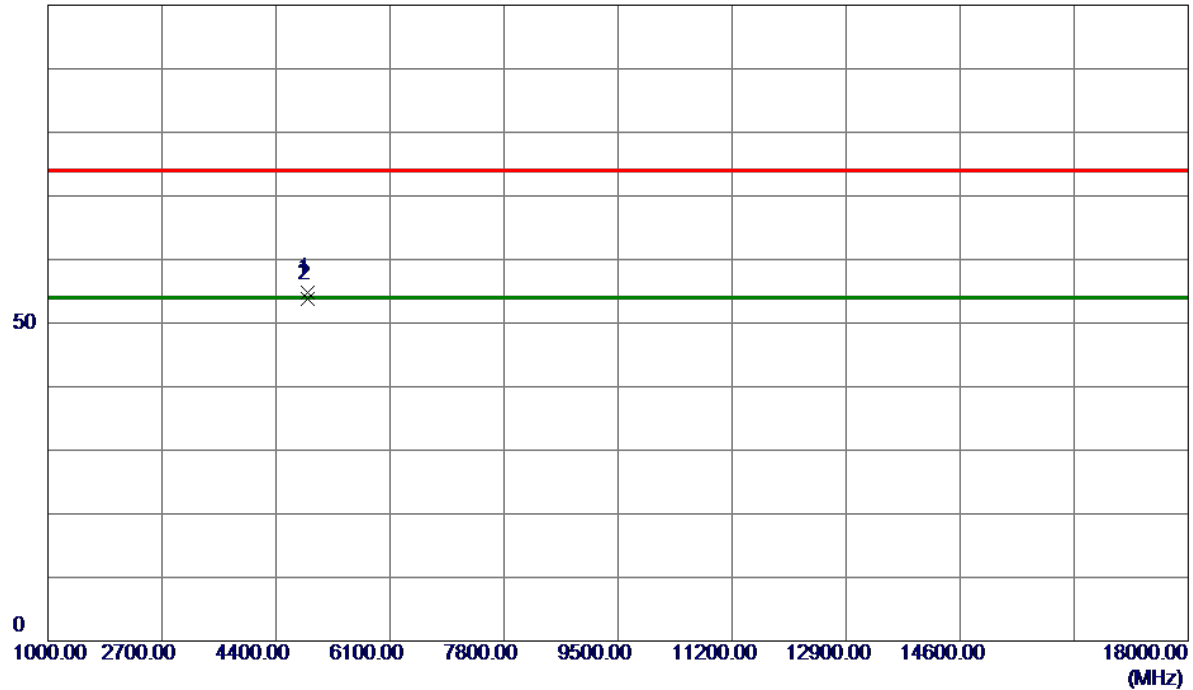
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2436.2500	102.38	6.00	108.38	54.00	54.38	AVG	No Limit
2	2437.4500	105.35	6.00	111.35	74.00	37.35	Peak	No Limit

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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100 dBuV/m



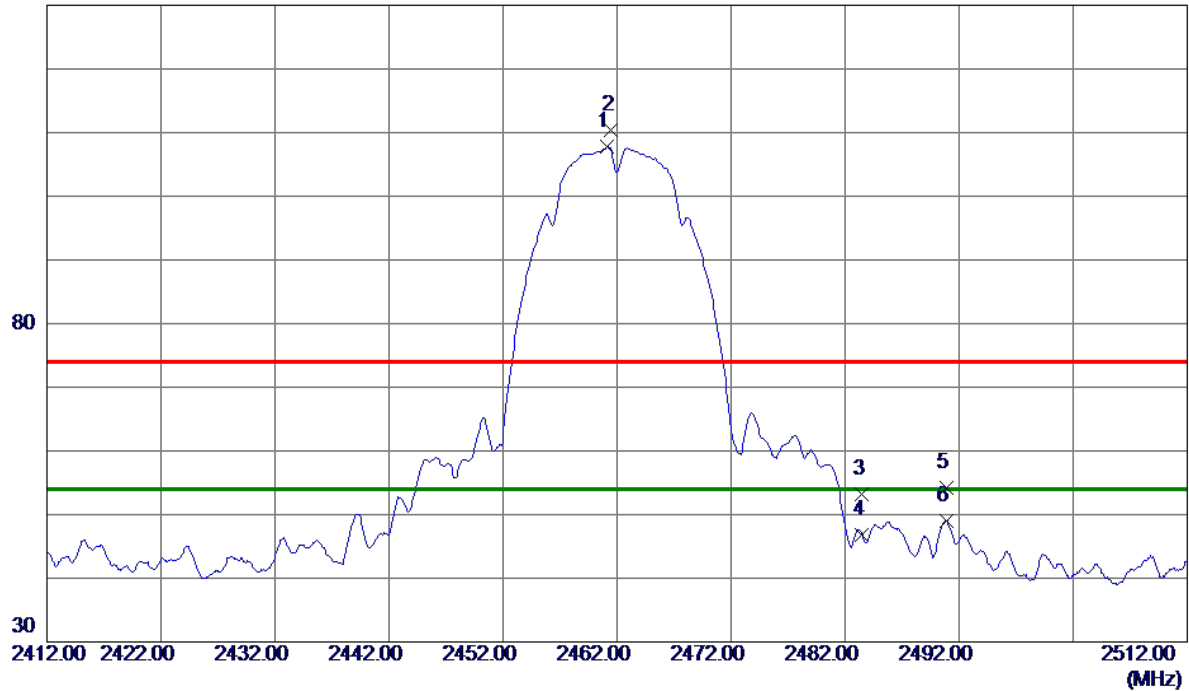
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4873.9500	53.87	0.86	54.73	74.00	-19.27	Peak	
2 *	4874.0000	53.00	0.86	53.86	54.00	-0.14	AVG	

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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130 dBuV/m



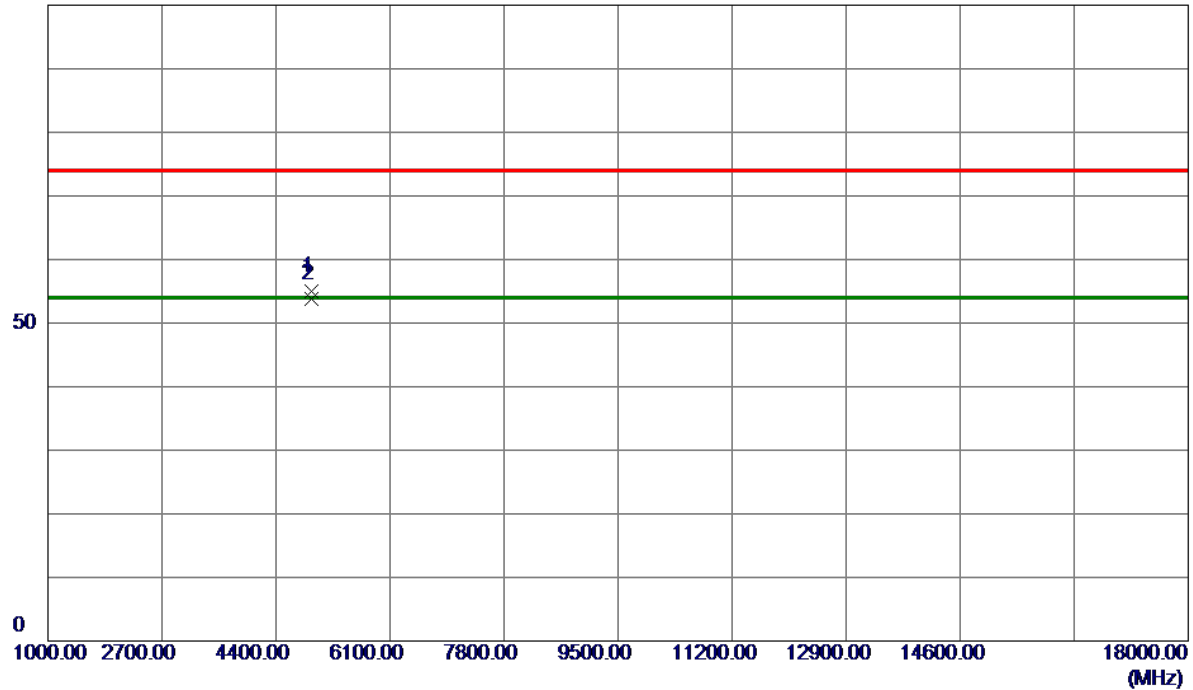
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2461.1500	101.71	6.00	107.71	54.00	53.71	AVG	No Limit
2	2461.5000	104.40	6.00	110.40	74.00	36.40	Peak	No Limit
3	2483.5000	47.20	6.00	53.20	74.00	-20.80	Peak	
4	2483.5000	40.73	6.00	46.73	54.00	-7.27	AVG	
5	2490.8500	48.27	6.00	54.27	74.00	-19.73	Peak	
6	2490.8500	43.02	6.00	49.02	54.00	-4.98	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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100 dBuV/m



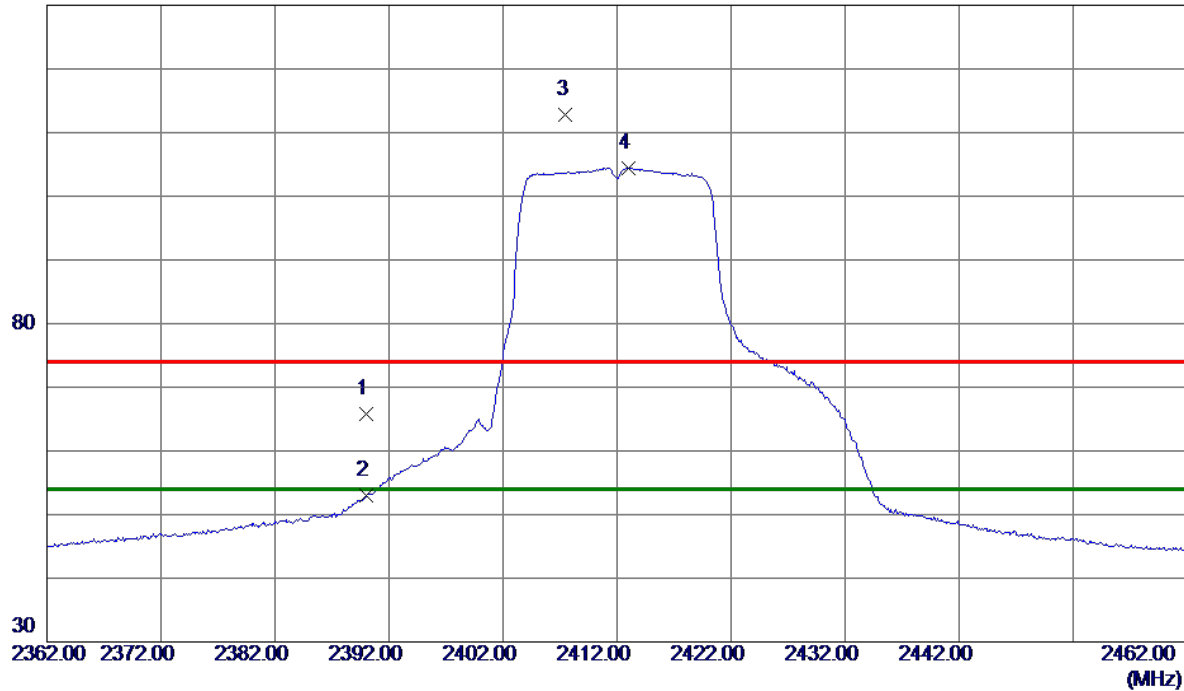
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4924.0000	53.99	1.00	54.99	74.00	-19.01	Peak	
2 *	4924.0000	52.82	1.00	53.82	54.00	-0.18	AVG	

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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130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	59.85	6.00	65.85	74.00	-8.15	Peak	
2	2390.0000	47.05	6.00	53.05	54.00	-0.95	AVG	
3	2407.5000	106.88	6.00	112.88	74.00	38.88	Peak	No Limit
4 *	2412.9500	98.47	6.00	104.47	54.00	50.47	AVG	No Limit

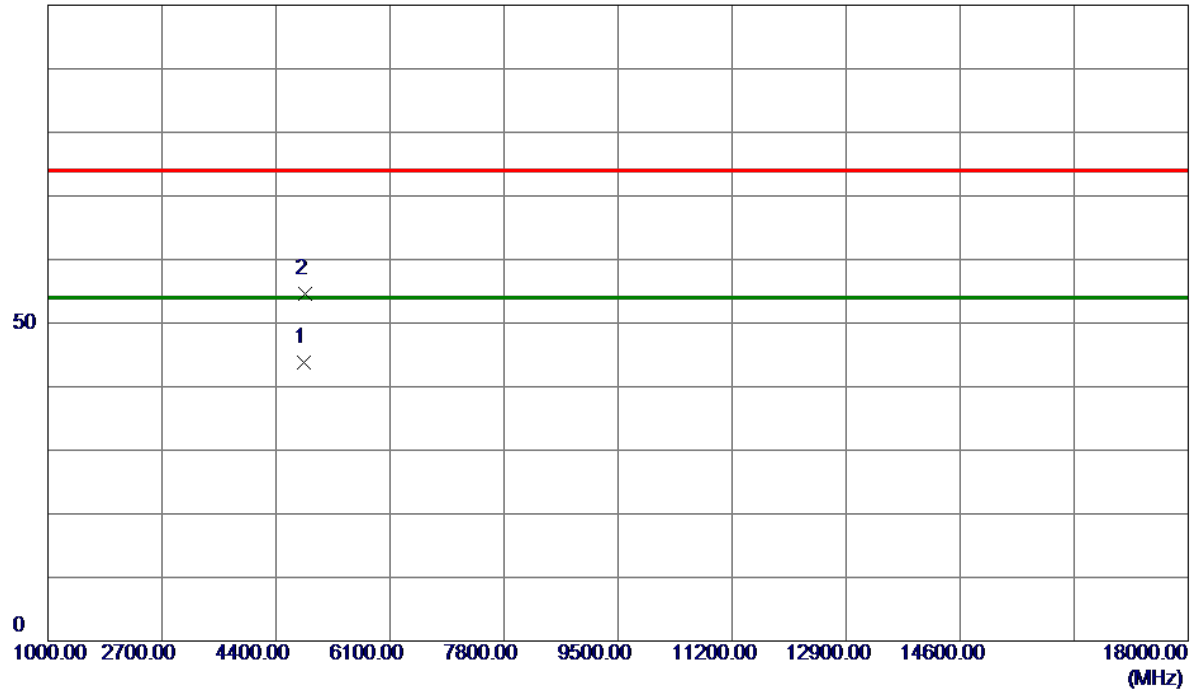
REMARKS:

(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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100 dBuV/m



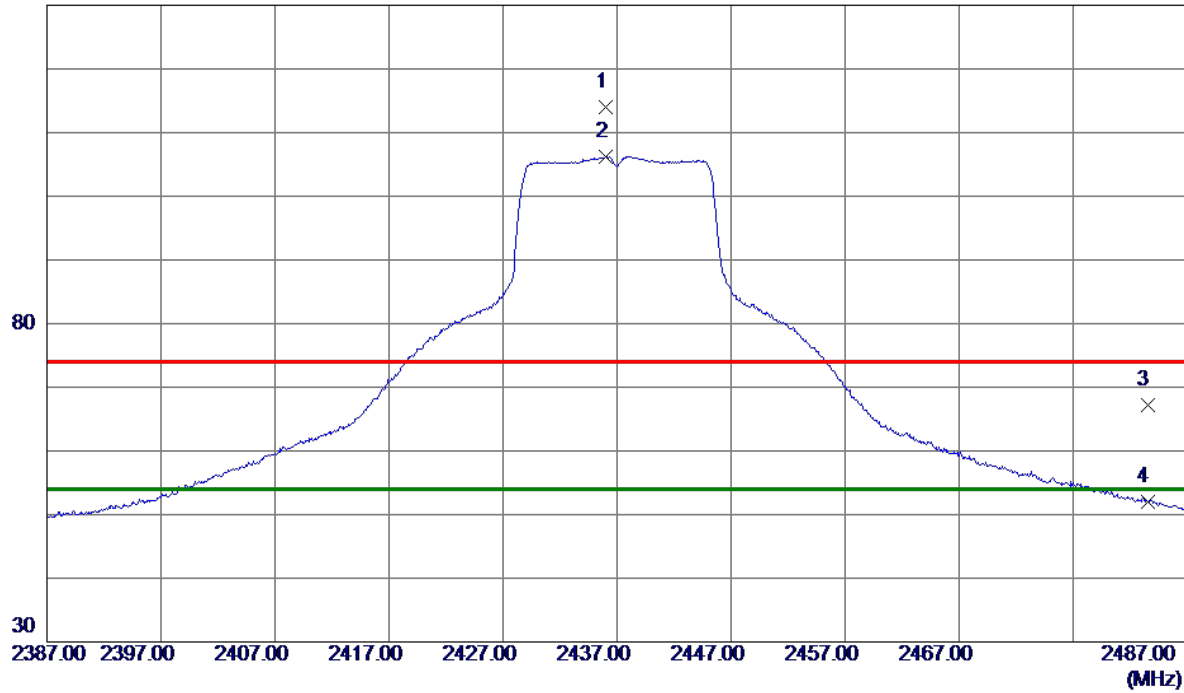
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4821.5750	43.10	0.71	43.81	54.00	-10.19	AVG	
2	4825.8000	53.94	0.72	54.66	74.00	-19.34	Peak	

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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130 dBuV/m



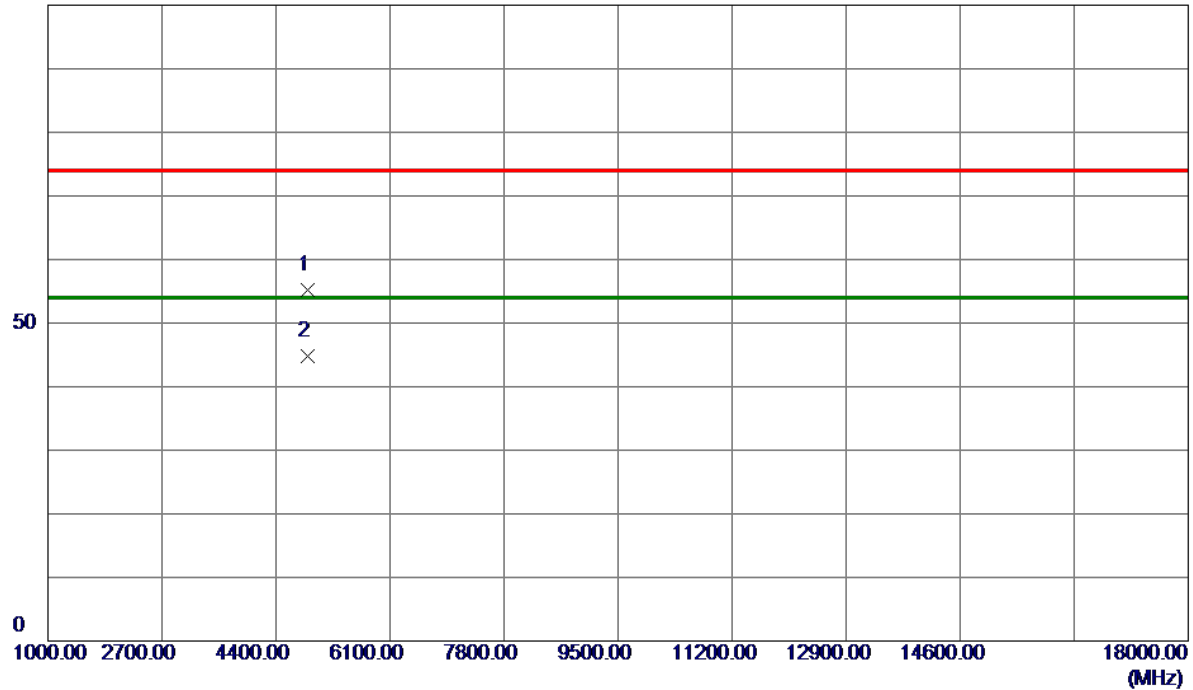
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2435.9500	108.09	6.00	114.09	74.00	40.09	Peak	No Limit
2 *	2435.9500	100.17	6.00	106.17	54.00	52.17	AVG	No Limit
3	2483.5000	61.19	6.00	67.19	74.00	-6.81	Peak	
4	2483.5000	46.02	6.00	52.02	54.00	-1.98	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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100 dBuV/m



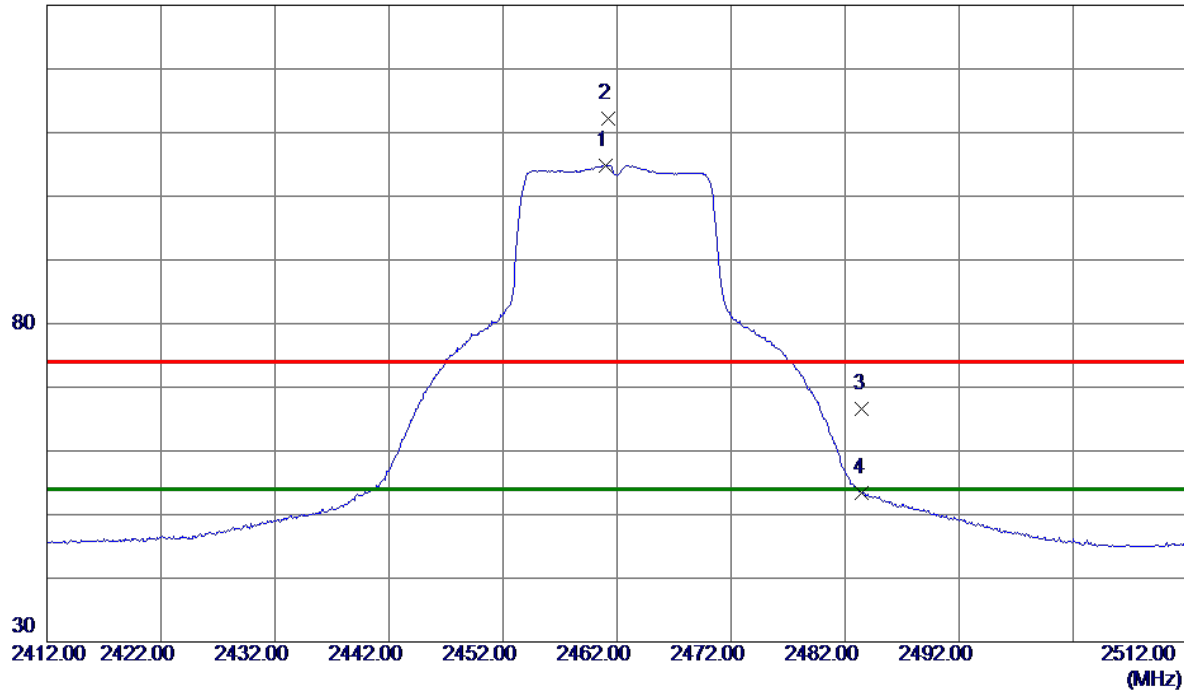
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4874.2750	54.25	0.86	55.11	74.00	-18.89	Peak	
2 *	4874.9250	43.89	0.86	44.75	54.00	-9.25	AVG	

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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130 dBuV/m



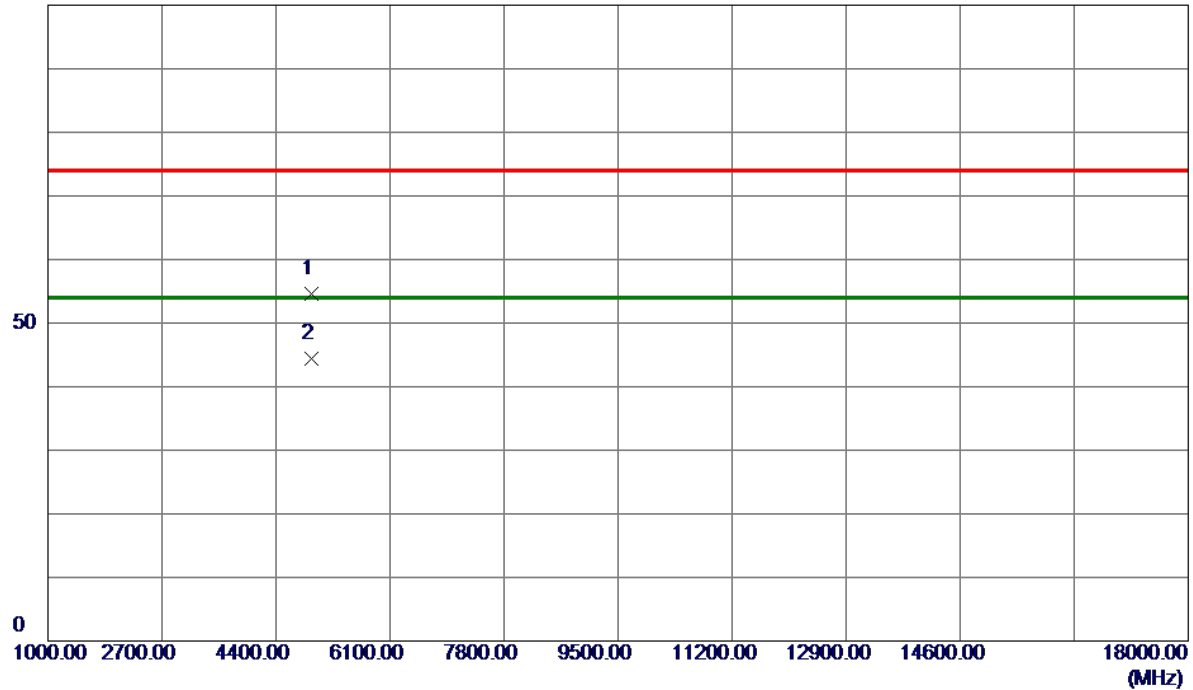
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2461.0000	98.87	6.00	104.87	54.00	50.87	AVG	No Limit
2	2461.2500	106.23	6.00	112.23	74.00	38.23	Peak	No Limit
3	2483.5000	60.65	6.00	66.65	74.00	-7.35	Peak	
4	2483.5000	47.35	6.00	53.35	54.00	-0.65	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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100 dBuV/m



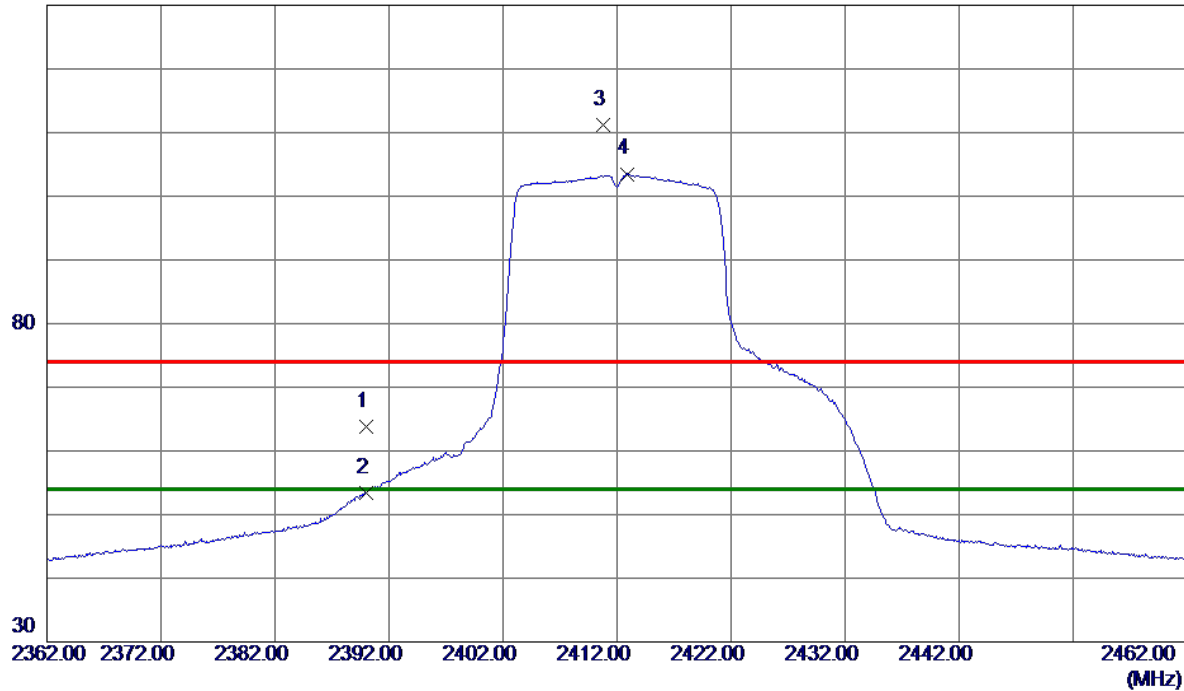
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4922.2250	53.51	1.00	54.51	74.00	-19.49	Peak	
2 *	4924.9250	43.34	1.01	44.35	54.00	-9.65	AVG	

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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130 dBuV/m



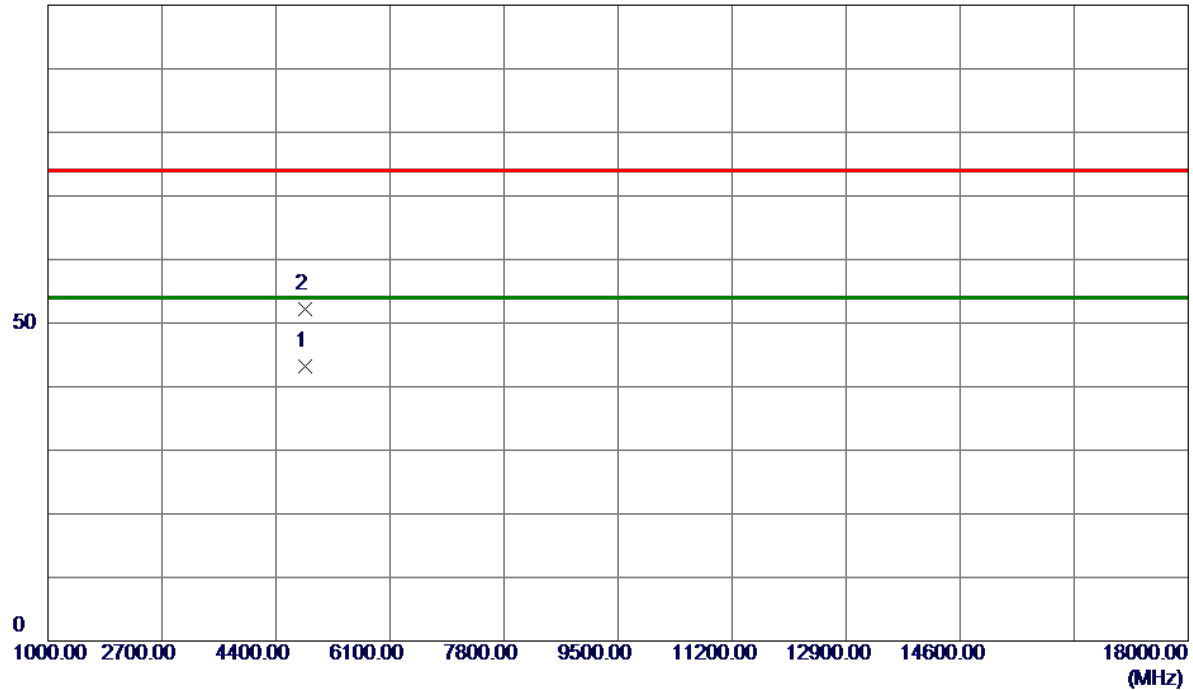
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	57.76	6.00	63.76	74.00	-10.24	Peak	
2	2390.0000	47.40	6.00	53.40	54.00	-0.60	AVG	
3	2410.7500	105.11	6.00	111.11	74.00	37.11	Peak	No Limit
4 *	2412.9000	97.50	6.00	103.50	54.00	49.50	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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100 dBuV/m



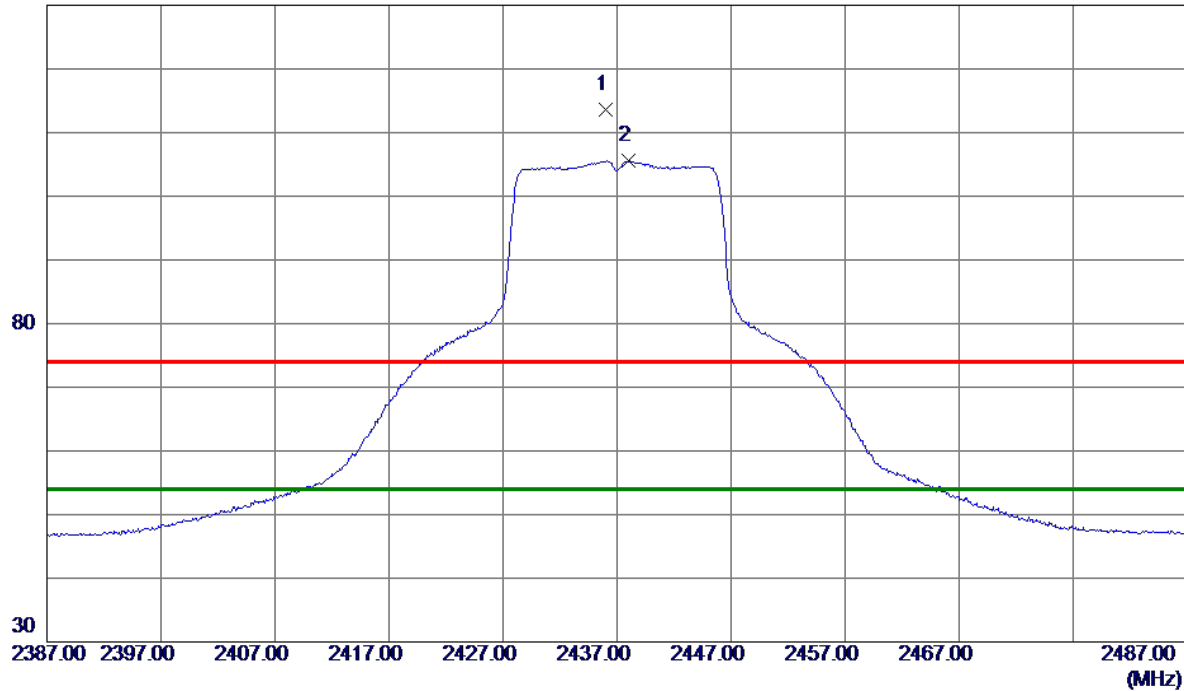
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4825.3500	42.47	0.72	43.19	54.00	-10.81	AVG	
2	4825.9500	51.56	0.72	52.28	74.00	-21.72	Peak	

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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130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2435.9500	107.65	6.00	113.65	74.00	39.65	Peak	No Limit
2 *	2438.0500	99.61	6.00	105.61	54.00	51.61	AVG	No Limit

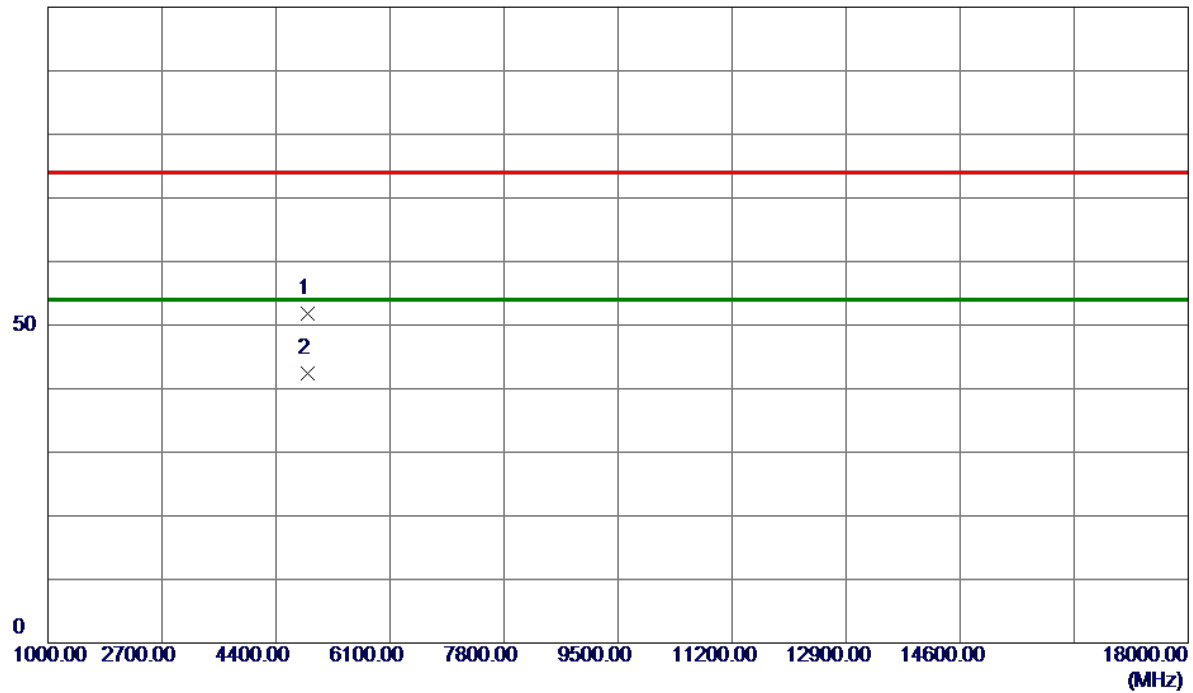
REMARKS:

(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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100 dBuV/m



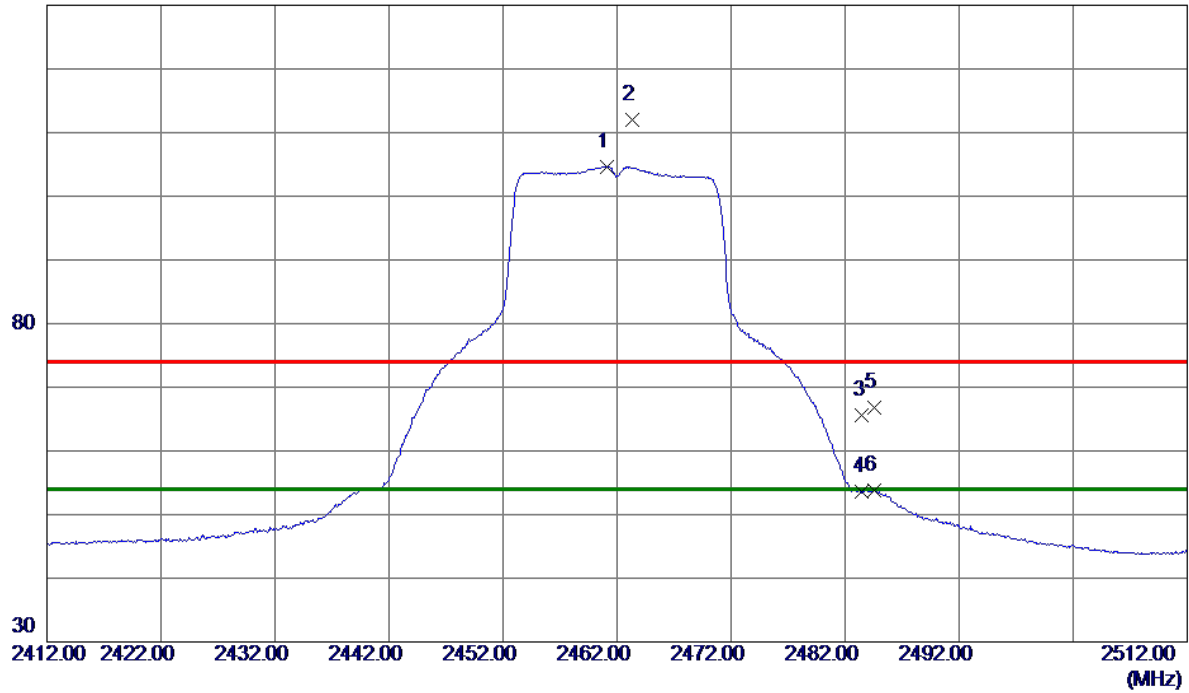
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4871.5000	50.97	0.85	51.82	74.00	-22.18	Peak	
2 *	4875.5500	41.47	0.87	42.34	54.00	-11.66	AVG	

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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130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2461.1500	98.67	6.00	104.67	54.00	50.67	AVG	No Limit
2	2463.3000	106.05	6.00	112.05	74.00	38.05	Peak	No Limit
3	2483.5000	59.63	6.00	65.63	74.00	-8.37	Peak	
4	2483.5000	47.68	6.00	53.68	54.00	-0.32	AVG	
5	2484.5500	60.77	6.00	66.77	74.00	-7.23	Peak	
6	2484.5500	47.87	6.00	53.87	54.00	-0.13	AVG	

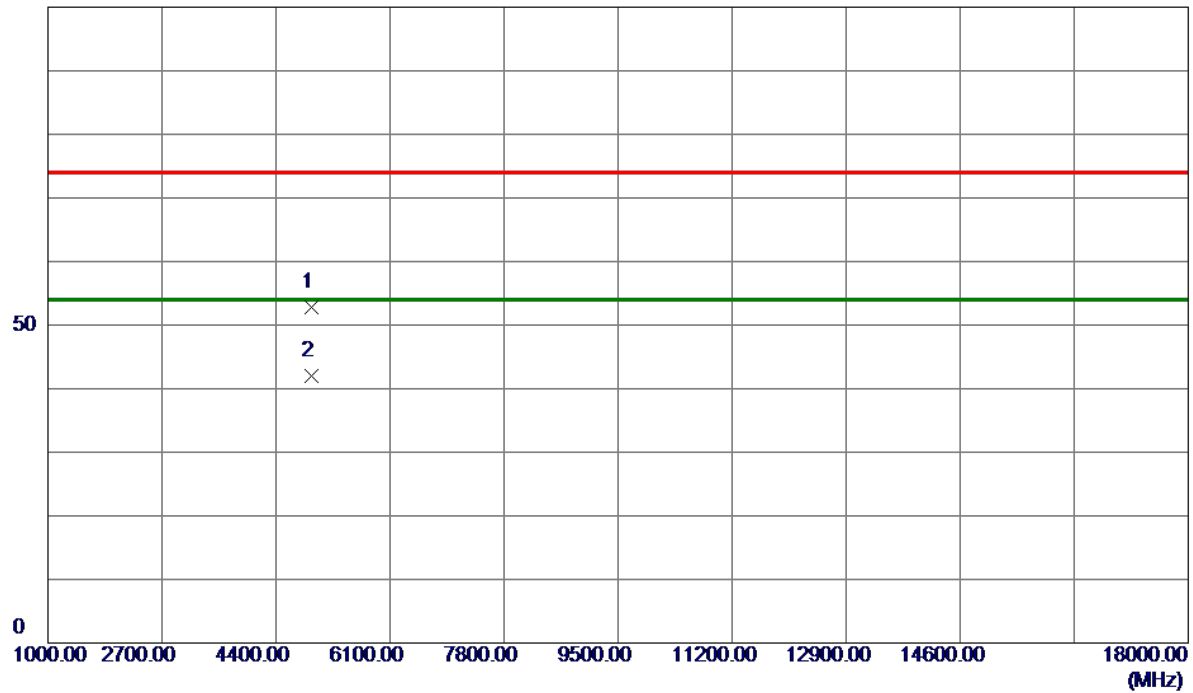
REMARKS:

(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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100 dBuV/m



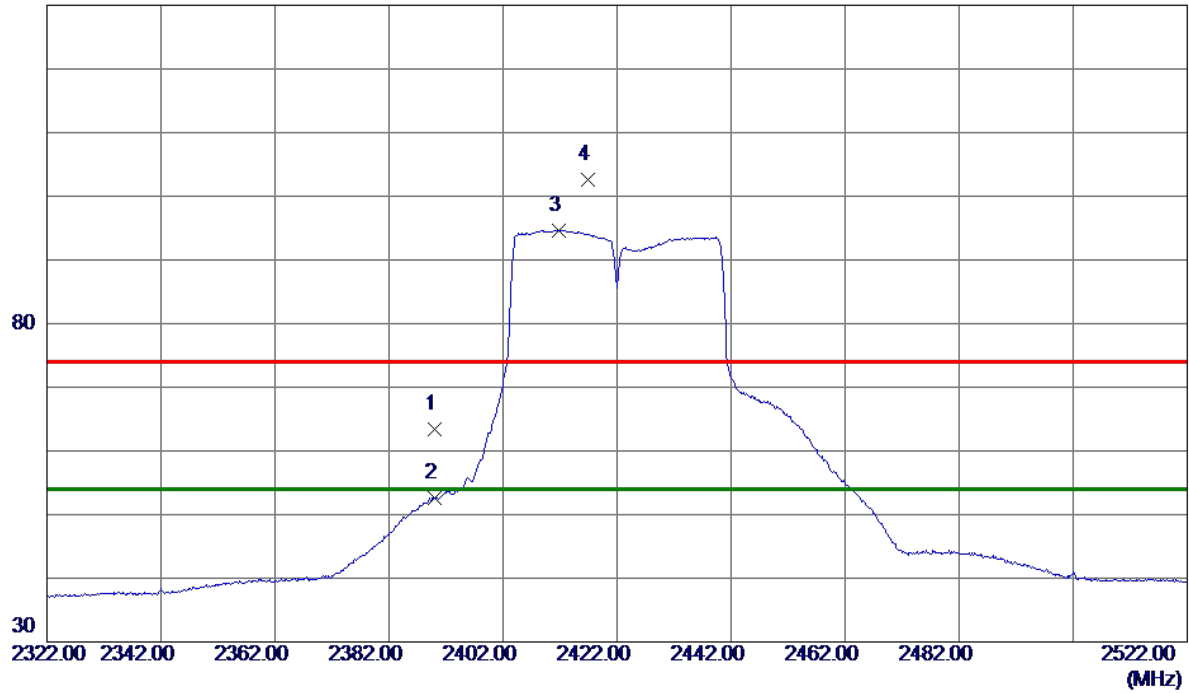
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4922.1000	51.74	1.00	52.74	74.00	-21.26	Peak	
2 *	4922.5500	40.91	1.00	41.91	54.00	-12.09	AVG	

REMARKS:

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

Test Mode	TX N(HT40) Mode 2422 MHz	Polarization	Vertical
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130 dBuV/m



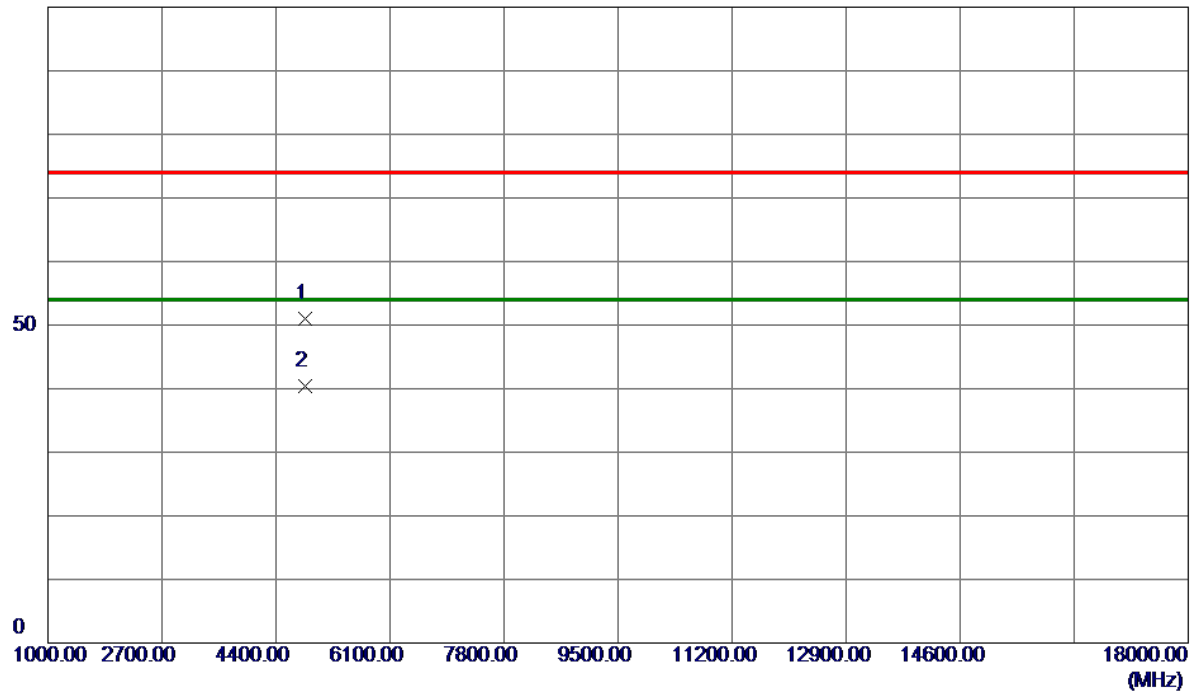
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	57.47	6.00	63.47	74.00	-10.53	Peak	
2	2390.0000	46.57	6.00	52.57	54.00	-1.43	AVG	
3 *	2411.8000	88.62	6.00	94.62	54.00	40.62	AVG	No Limit
4	2416.8000	96.57	6.00	102.57	74.00	28.57	Peak	No Limit

REMARKS:

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

Test Mode	TX N(HT40) Mode 2422 MHz	Polarization	Vertical
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100 dBuV/m

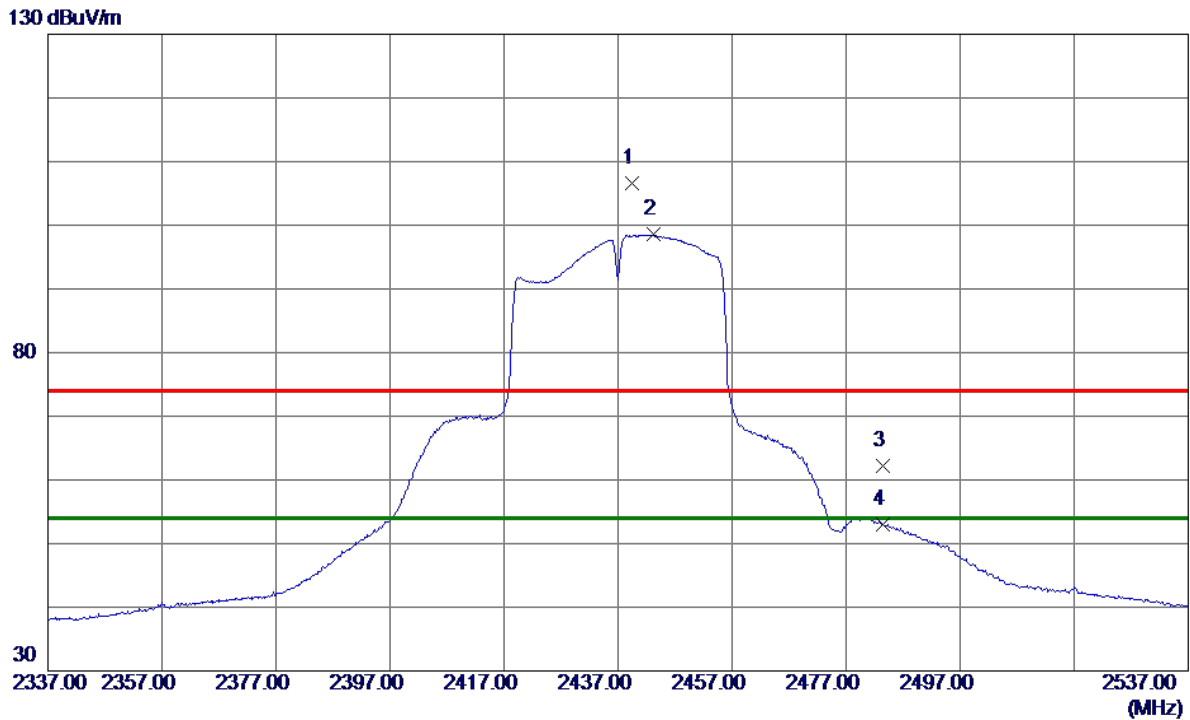


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4834.1000	50.31	0.75	51.06	74.00	-22.94	Peak	
2 *	4843.8500	39.61	0.77	40.38	54.00	-13.62	AVG	

REMARKS:

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

Test Mode	TX N(HT40) 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	2439.5000	100.62	6.00	106.62	74.00	32.62	Peak	No Limit
2 *	2443.2000	92.51	6.00	98.51	54.00	44.51	AVG	No Limit
3	2483.5000	56.12	6.00	62.12	74.00	-11.88	Peak	
4	2483.5000	46.92	6.00	52.92	54.00	-1.08	AVG	

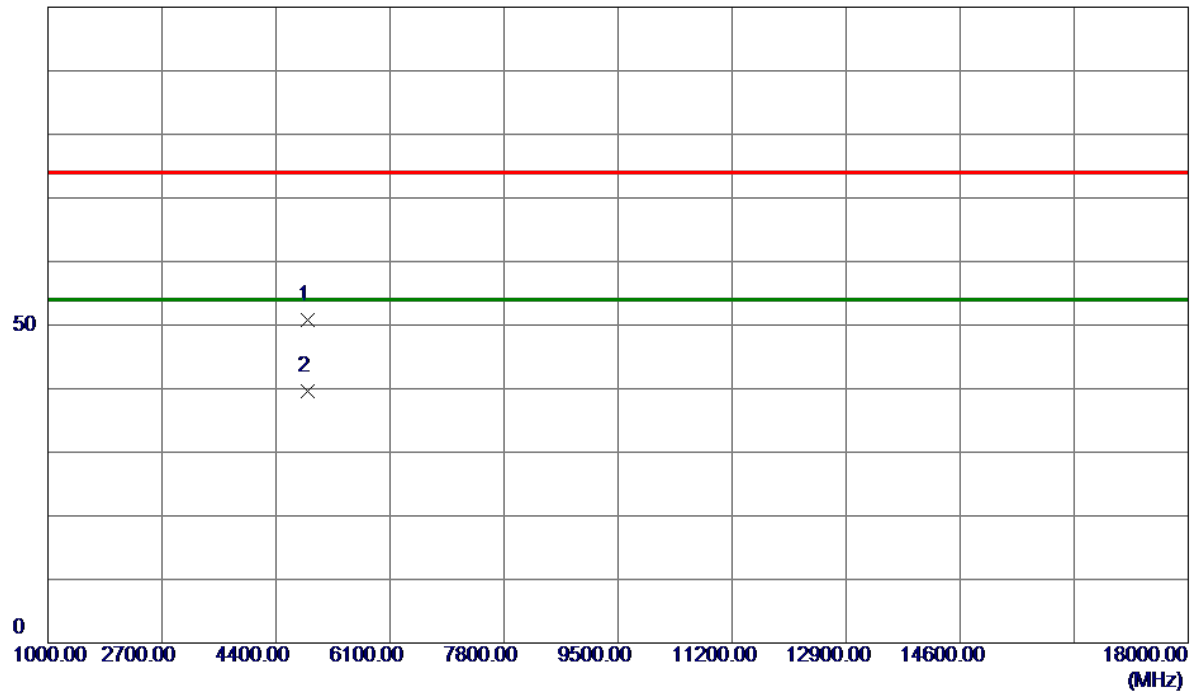
REMARKS:

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

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

Test Mode	TX N(HT40) Mode 2437 MHz	Polarization	Vertical
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100 dBuV/m



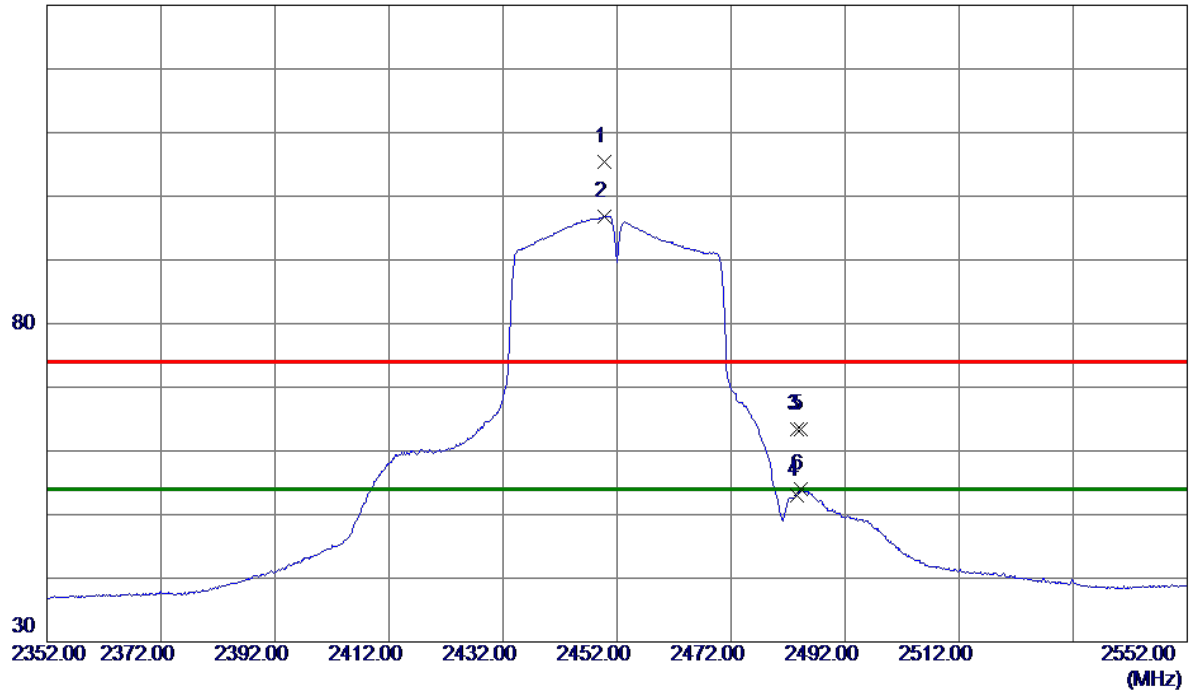
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4870.5500	50.00	0.85	50.85	74.00	-23.15	Peak	
2 *	4878.1000	38.73	0.87	39.60	54.00	-14.40	AVG	

REMARKS:

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

Test Mode	TX N(HT40) Mode 2452 MHz	Polarization	Vertical
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130 dBuV/m



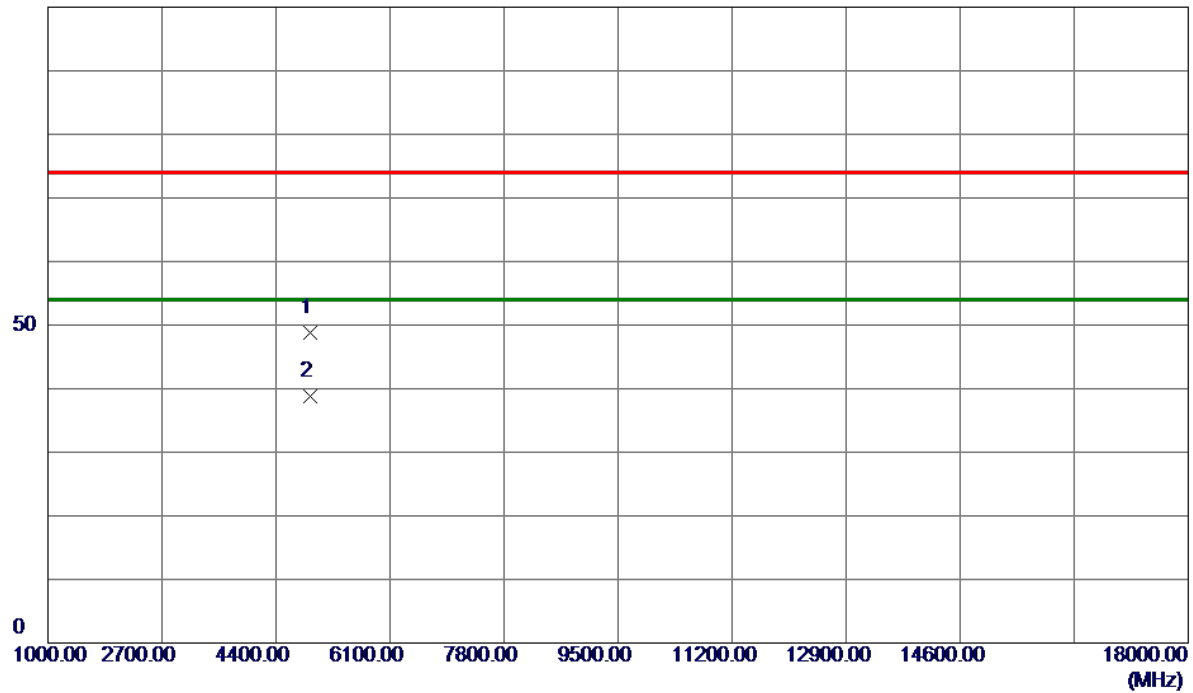
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2449.7000	99.38	6.00	105.38	74.00	31.38	Peak	No Limit
2 *	2449.7000	90.86	6.00	96.86	54.00	42.86	AVG	No Limit
3	2483.5000	57.35	6.00	63.35	74.00	-10.65	Peak	
4	2483.5000	47.02	6.00	53.02	54.00	-0.98	AVG	
5	2484.3000	57.49	6.00	63.49	74.00	-10.51	Peak	
6	2484.3000	47.94	6.00	53.94	54.00	-0.06	AVG	

REMARKS:

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

Test Mode	TX N(HT40) Mode 2452 MHz	Polarization	Vertical
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100 dBuV/m



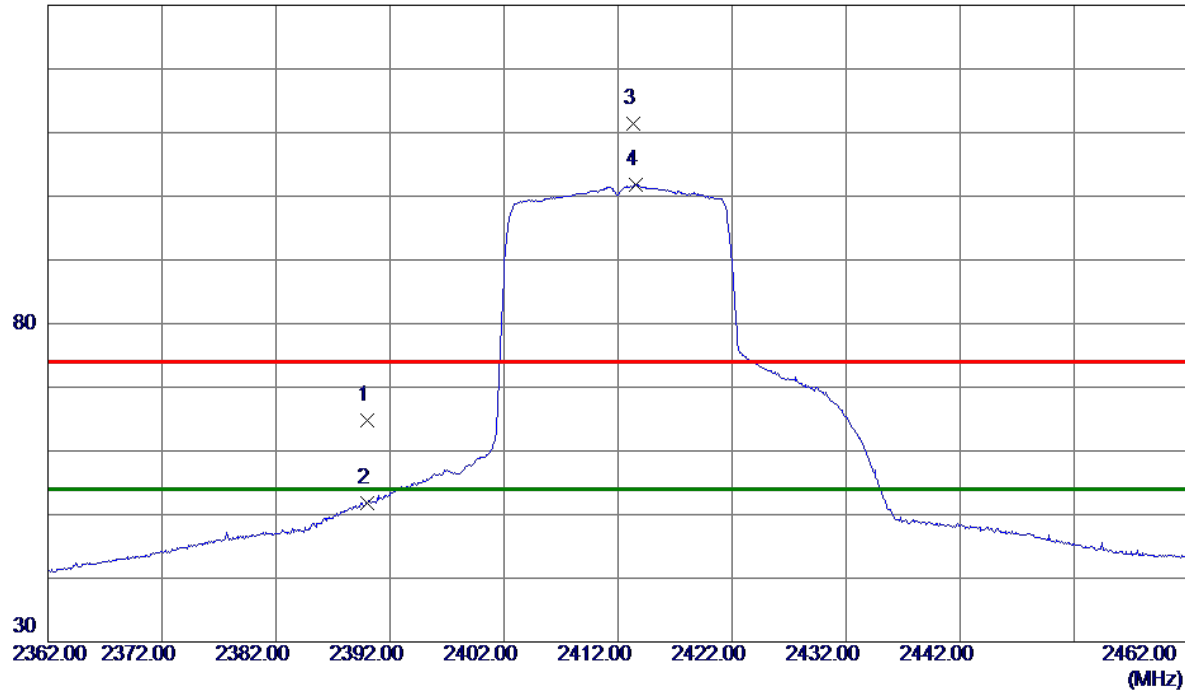
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4904.2000	47.89	0.95	48.84	74.00	-25.16	Peak	
2 *	4904.9500	37.91	0.95	38.86	54.00	-15.14	AVG	

REMARKS:

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

Test Mode	TX AX(HE20) Mode 2412 MHz	Polarization	Vertical
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130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	58.85	6.00	64.85	74.00	-9.15	Peak	
2	2390.0000	45.81	6.00	51.81	54.00	-2.19	AVG	
3	2413.3500	105.45	6.00	111.45	74.00	37.45	Peak	No Limit
4 *	2413.5500	95.72	6.00	101.72	54.00	47.72	AVG	No Limit

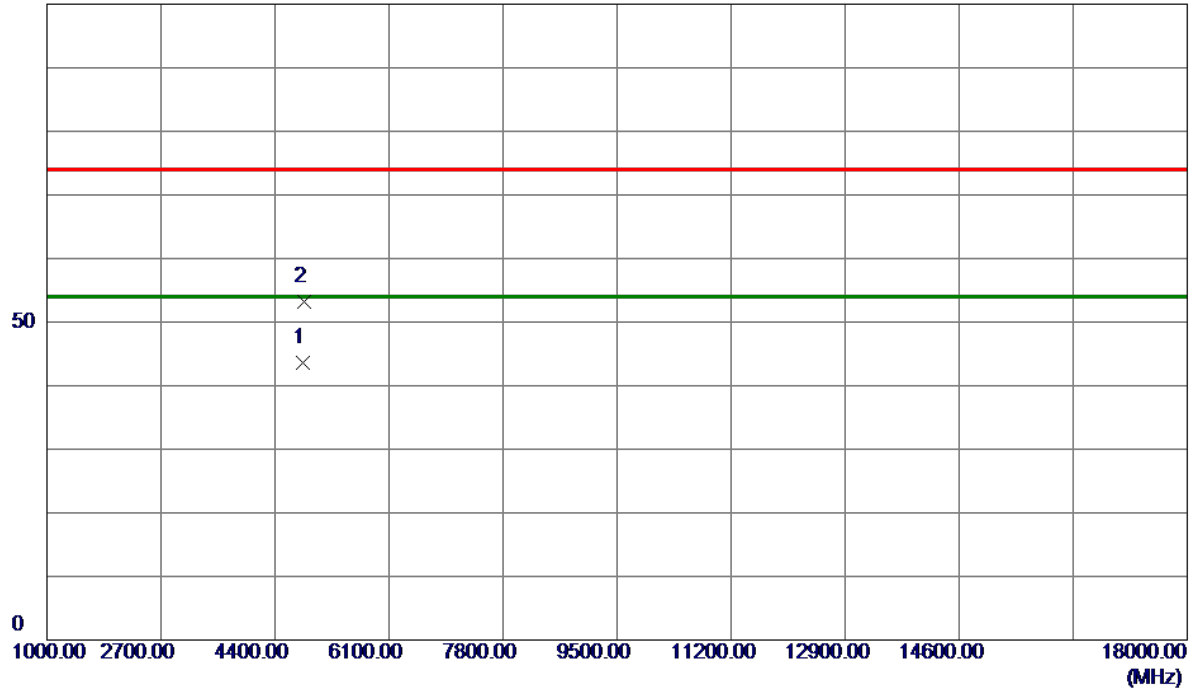
REMARKS:

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

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

Test Mode	TX AX(HE20) Mode 2412 MHz	Polarization	Vertical
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100 dBuV/m

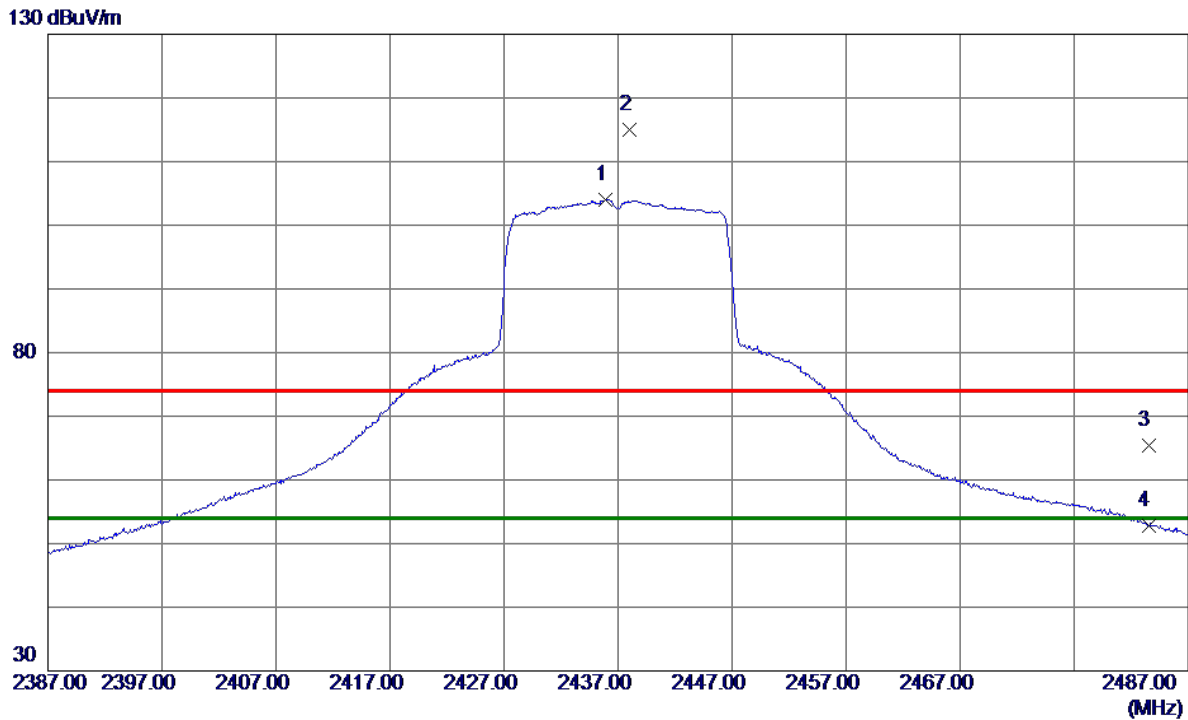


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4823.9000	42.80	0.72	43.52	54.00	-10.48	AVG	
2	4831.5500	52.42	0.74	53.16	74.00	-20.84	Peak	

REMARKS:

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

Test Mode	TX AX(HE20) Mode 2437 MHz	Polarization	Vertical
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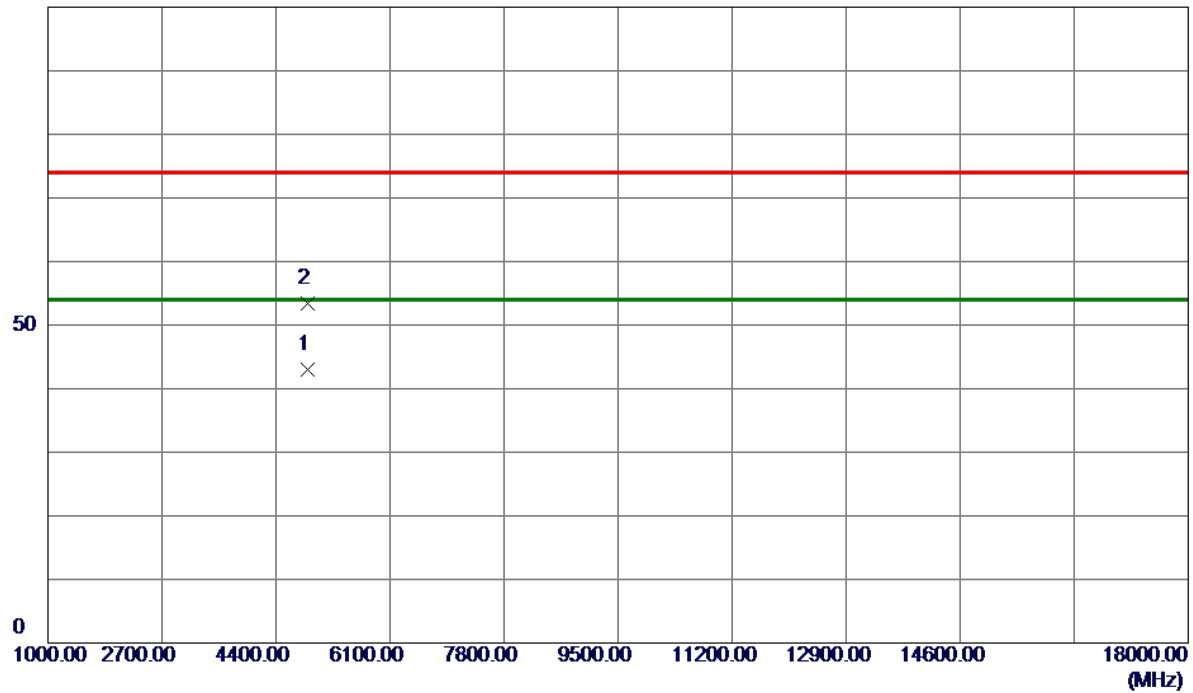
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2435.9000	98.02	6.00	104.02	54.00	50.02	AVG	No Limit
2	2438.0000	108.93	6.00	114.93	74.00	40.93	Peak	No Limit
3	2483.5000	59.47	6.00	65.47	74.00	-8.53	Peak	
4	2483.5000	46.82	6.00	52.82	54.00	-1.18	AVG	

REMARKS:

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

Test Mode	TX AX(HE20) Mode 2437 MHz	Polarization	Vertical
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100 dBuV/m



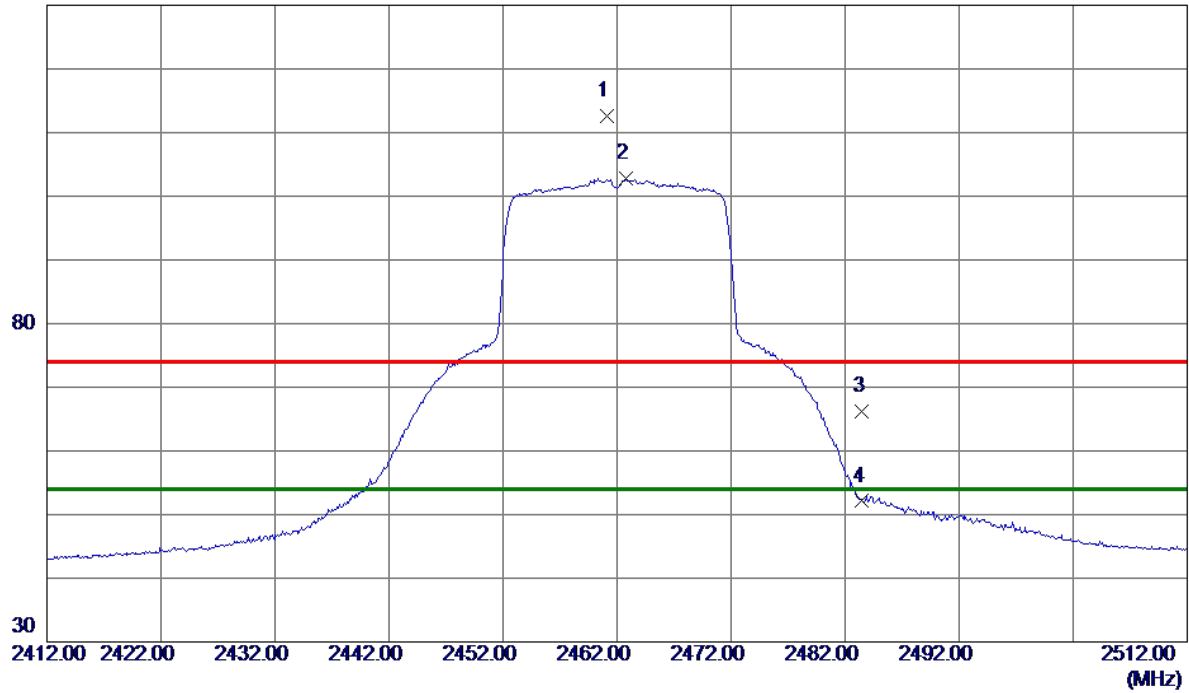
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4873.6500	42.16	0.86	43.02	54.00	-10.98	AVG	
2	4881.4000	52.52	0.88	53.40	74.00	-20.60	Peak	

REMARKS:

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

Test Mode	TX AX(HE20) Mode 2462 MHz	Polarization	Vertical
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130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2461.1500	106.52	6.00	112.52	74.00	38.52	Peak	No Limit
2 *	2462.7500	96.75	6.00	102.75	54.00	48.75	AVG	No Limit
3	2483.5000	60.15	6.00	66.15	74.00	-7.85	Peak	
4	2483.5000	46.10	6.00	52.10	54.00	-1.90	AVG	

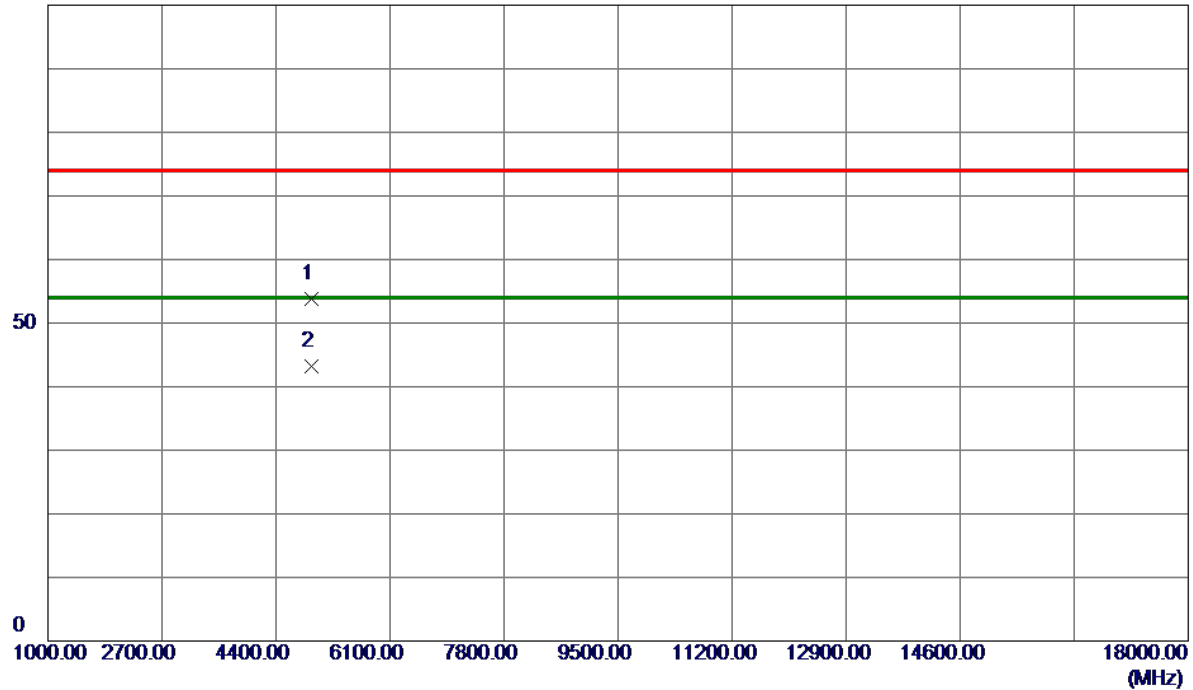
REMARKS:

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

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

Test Mode	TX AX(HE20) Mode 2462 MHz	Polarization	Vertical
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100 dBuV/m



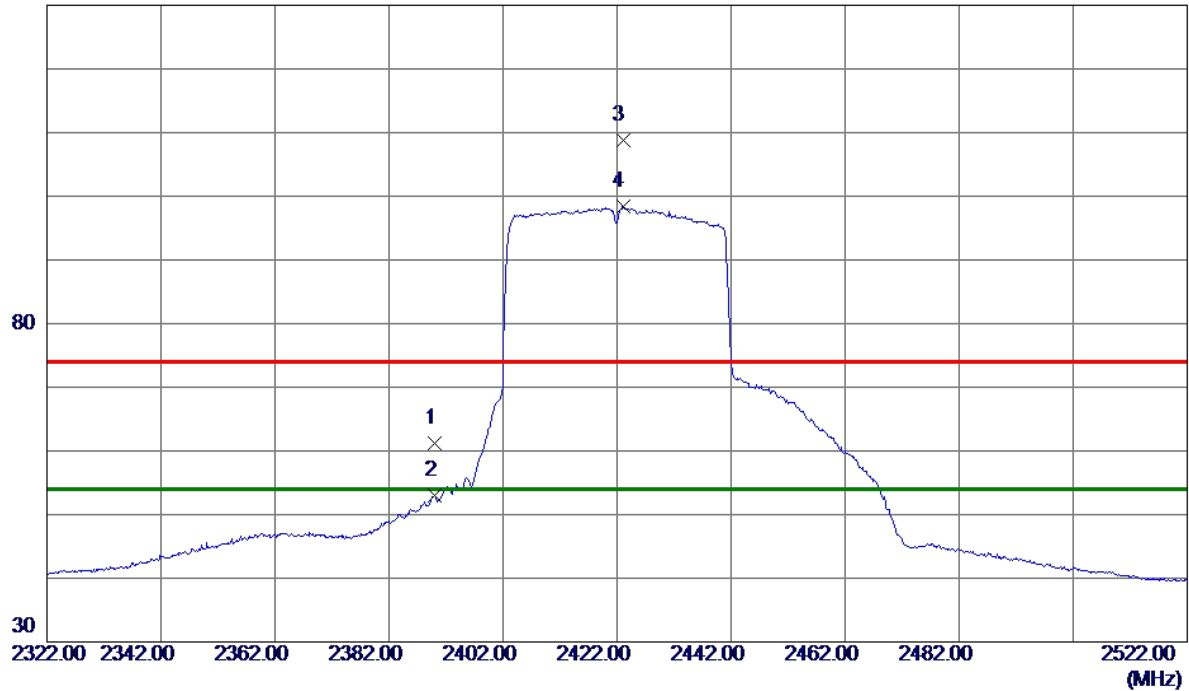
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4920.3500	52.77	0.99	53.76	74.00	-20.24	Peak	
2 *	4923.0000	42.20	1.00	43.20	54.00	-10.80	AVG	

REMARKS:

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

Test Mode	TX AX(HE40) Mode 2422 MHz	Polarization	Vertical
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130 dBuV/m



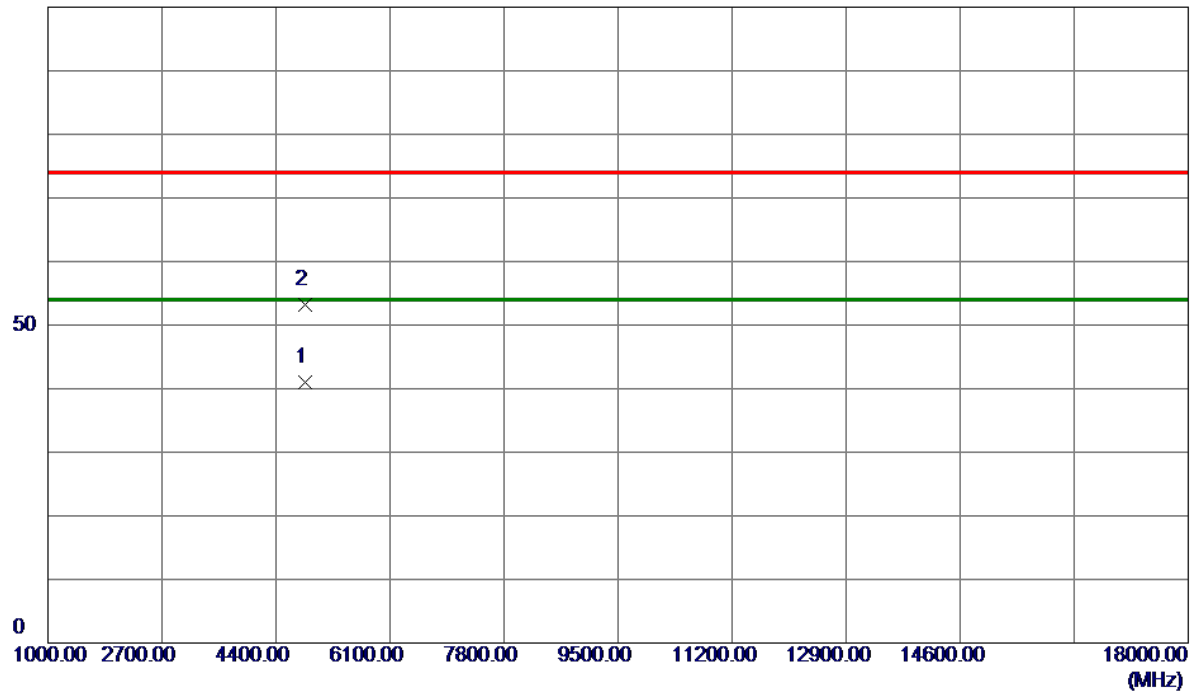
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	55.25	6.00	61.25	74.00	-12.75	Peak	
2	2390.0000	47.05	6.00	53.05	54.00	-0.95	AVG	
3	2423.0000	102.86	6.00	108.86	74.00	34.86	Peak	No Limit
4 *	2423.0000	92.34	6.00	98.34	54.00	44.34	AVG	No Limit

REMARKS:

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

Test Mode	TX AX(HE40) Mode 2422 MHz	Polarization	Vertical
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100 dBuV/m



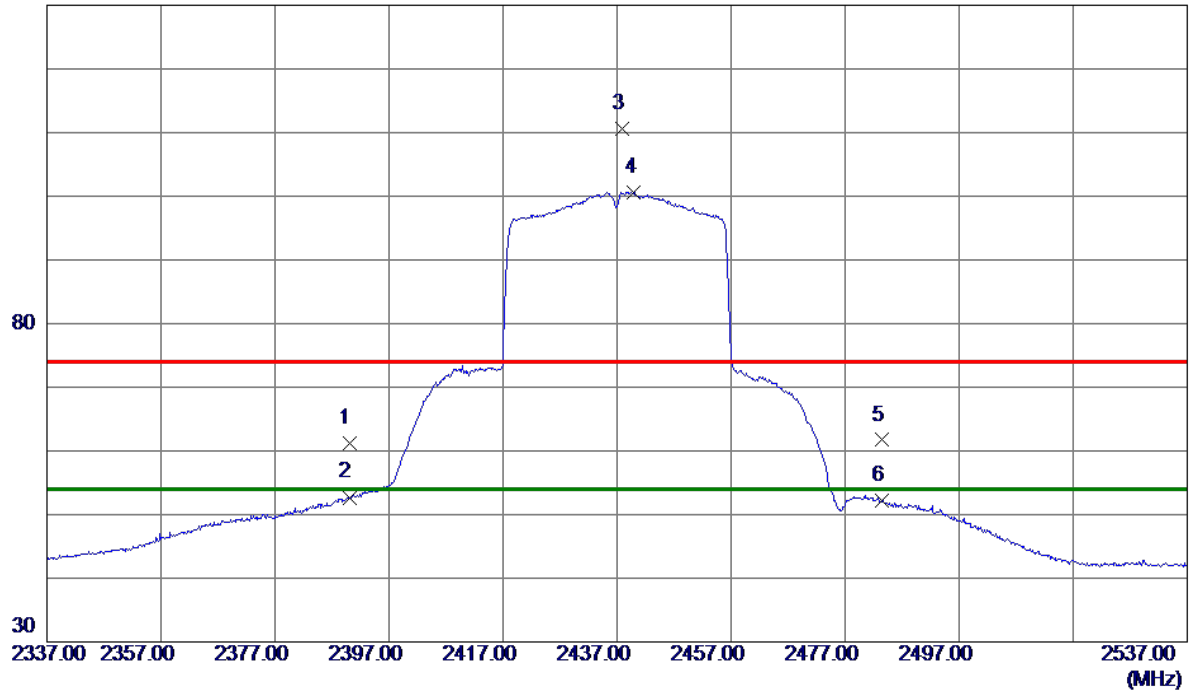
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4840.1000	40.16	0.76	40.92	54.00	-13.08	AVG	
2	4840.7000	52.39	0.77	53.16	74.00	-20.84	Peak	

REMARKS:

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

Test Mode	TX AX(HE40) Mode 2437 MHz	Polarization	Vertical
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130 dBuV/m



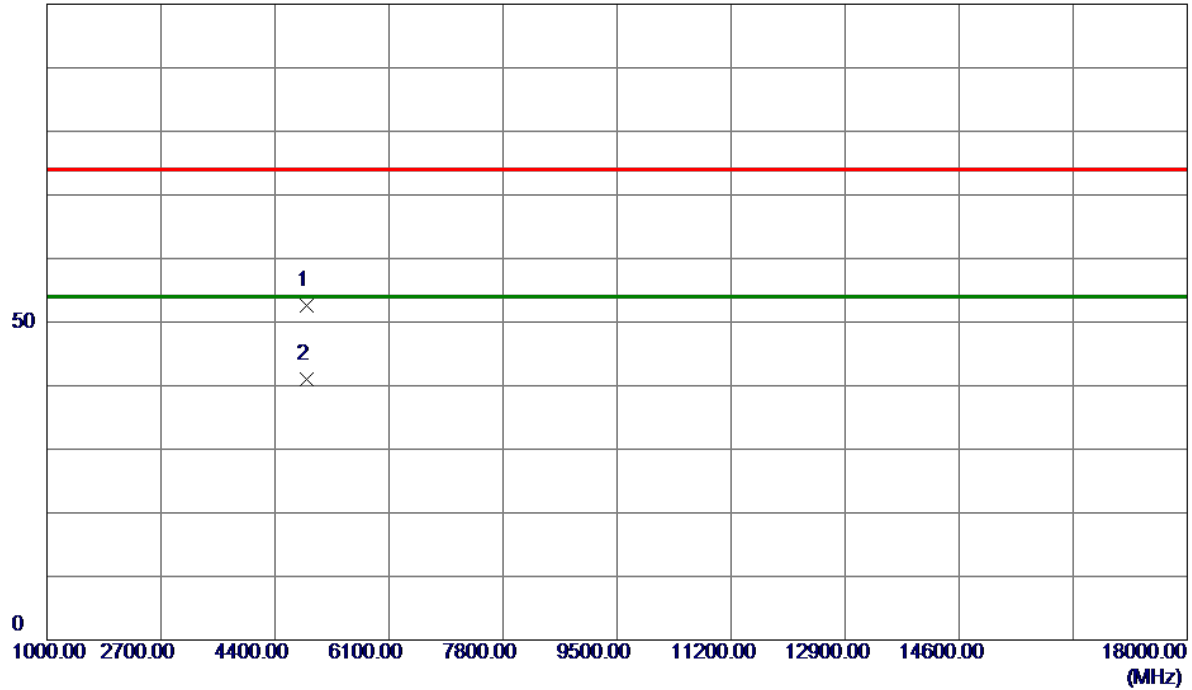
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	55.16	6.00	61.16	74.00	-12.84	Peak	
2	2390.0000	46.70	6.00	52.70	54.00	-1.30	AVG	
3	2437.9000	104.60	6.00	110.60	74.00	36.60	Peak	No Limit
4 *	2440.0000	94.66	6.00	100.66	54.00	46.66	AVG	No Limit
5	2483.5000	55.70	6.00	61.70	74.00	-12.30	Peak	
6	2483.5000	46.12	6.00	52.12	54.00	-1.88	AVG	

REMARKS:

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

Test Mode	TX AX(HE40) Mode 2437 MHz	Polarization	Vertical
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100 dBuV/m



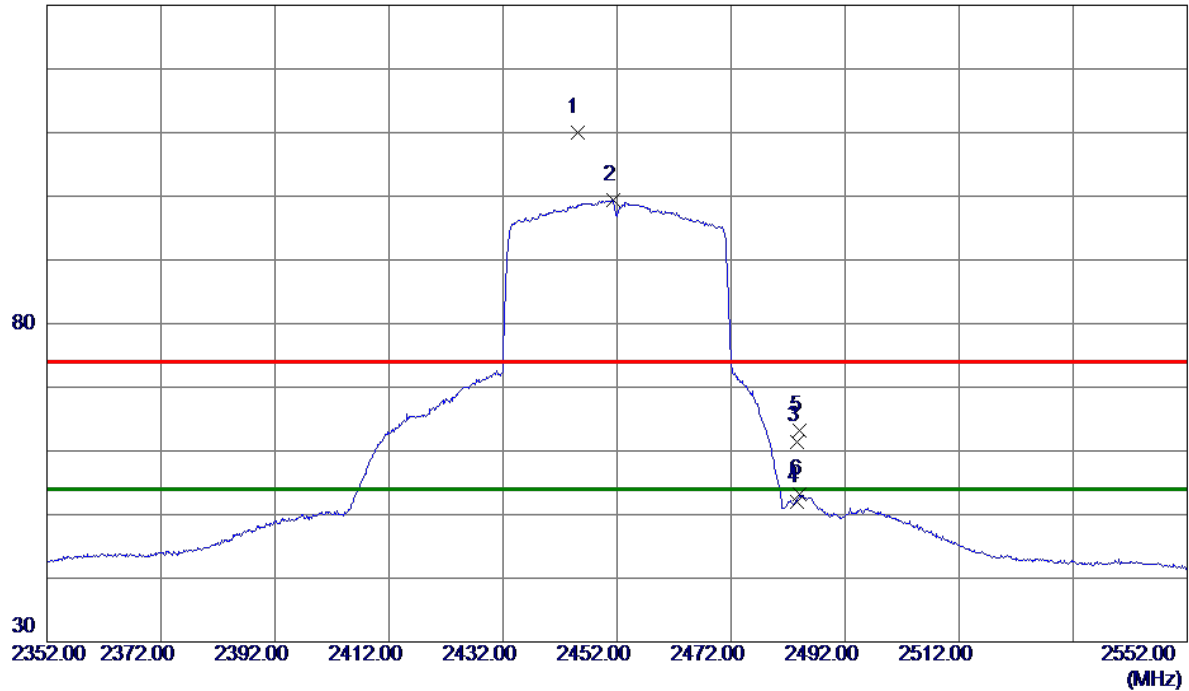
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4870.5000	51.76	0.85	52.61	74.00	-21.39	Peak	
2 *	4879.9000	40.13	0.88	41.01	54.00	-12.99	AVG	

REMARKS:

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

Test Mode	TX AX(HE40) Mode 2452 MHz	Polarization	Vertical
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130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2445.0000	104.10	6.00	110.10	74.00	36.10	Peak	No Limit
2 *	2451.3000	93.44	6.00	99.44	54.00	45.44	AVG	No Limit
3	2483.5000	55.50	6.00	61.50	74.00	-12.50	Peak	
4	2483.5000	45.97	6.00	51.97	54.00	-2.03	AVG	
5	2484.0000	57.24	6.00	63.24	74.00	-10.76	Peak	
6	2484.0000	47.11	6.00	53.11	54.00	-0.89	AVG	

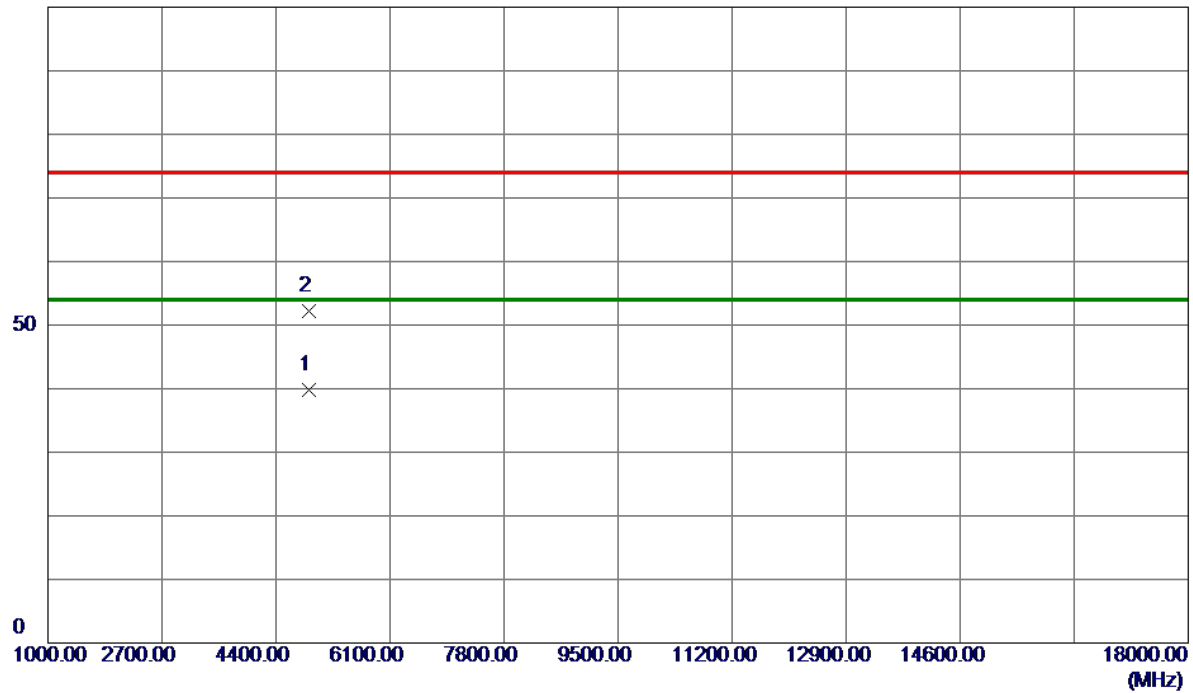
REMARKS:

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

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

Test Mode	TX AX(HE40) Mode 2452 MHz	Polarization	Vertical
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100 dBuV/m

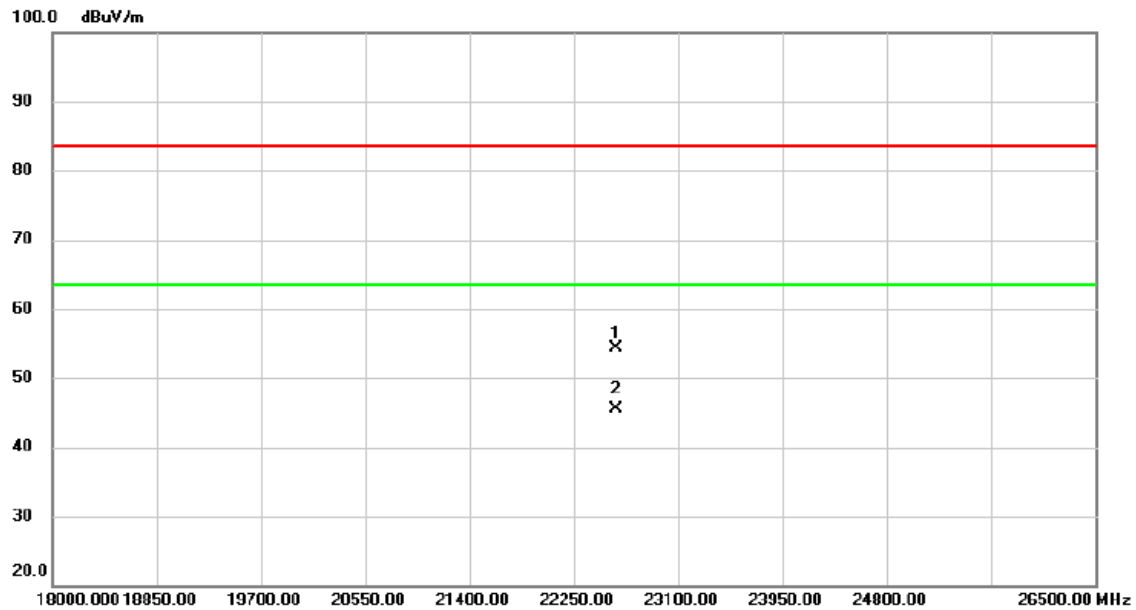


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4895.5500	38.86	0.92	39.78	54.00	-14.22	AVG	
2	4900.5000	51.29	0.94	52.23	74.00	-21.77	Peak	

REMARKS:

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

Test Mode	TX B Mode Channel 11	Polarization	Vertical
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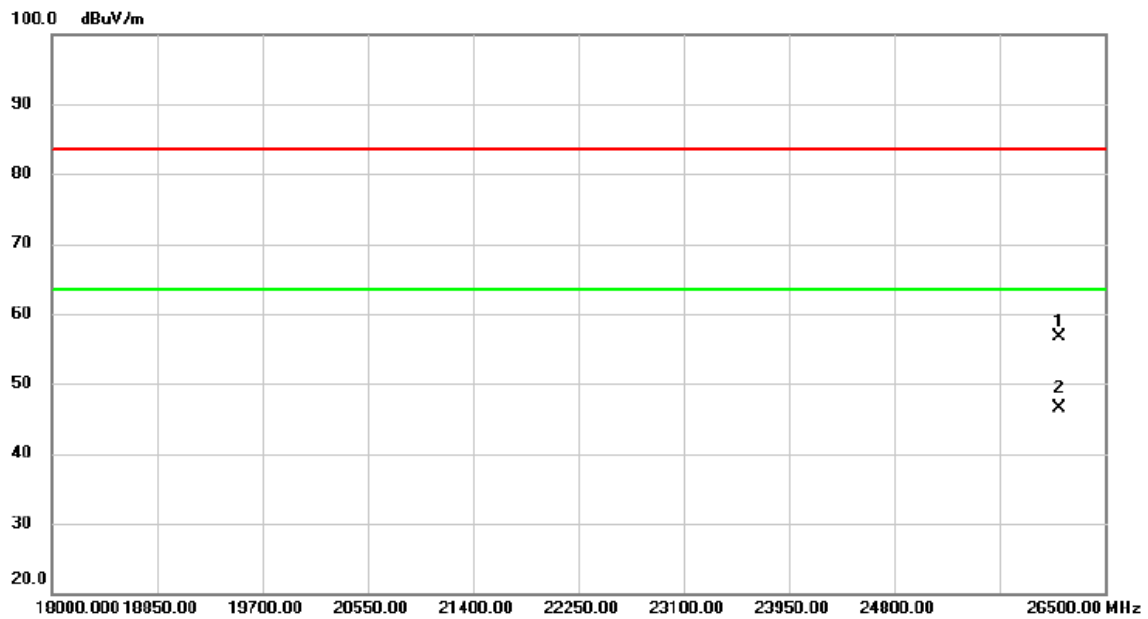


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		22598.50	45.56	8.68	54.24	83.50	-29.26	peak	
2	*	22598.50	36.86	8.68	45.54	63.50	-17.96	AVG	

REMARKS:

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

Test Mode	TX B Mode Channel 11	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		26134.50	46.19	10.42	56.61	83.50	-26.89	peak	
2	*	26134.50	35.99	10.42	46.41	63.50	-17.09	AVG	

REMARKS:

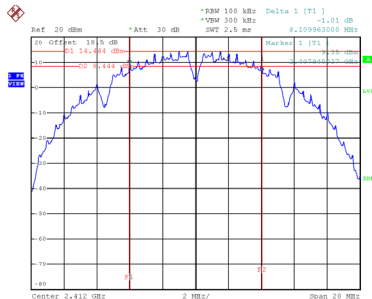
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

APPENDIX E - BANDWIDTH

Test Mode	TX B Mode
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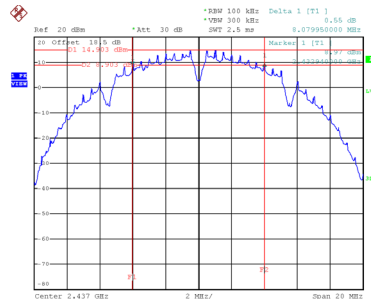
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	8.110	12.400	0.5	Complies
06	2437	8.080	12.560	0.5	Complies
11	2462	8.020	12.480	0.5	Complies

CH01



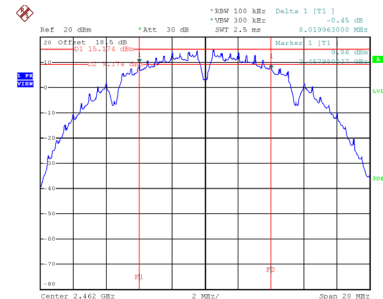
Date: 17.APR.2024 20:14:42

CH06
6 dB Bandwidth



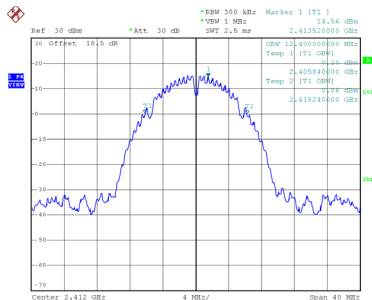
Date: 17.APR.2024 20:18:04

CH11

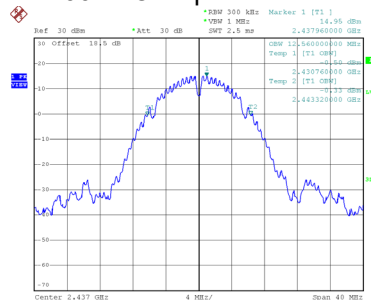


Date: 17.APR.2024 20:19:13

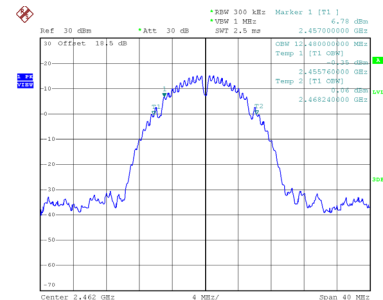
99 % Occupied Bandwidth



Date: 13.MAY.2024 10:48:24



Date: 13.MAY.2024 10:49:52

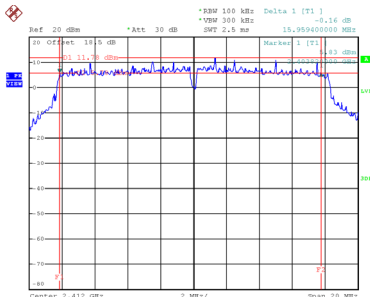


Date: 13.MAY.2024 10:50:32

Test Mode	TX G Mode
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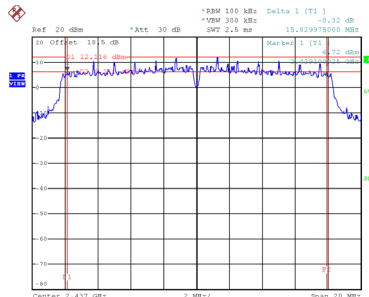
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	15.959	18.880	0.5	Complies
06	2437	15.830	18.160	0.5	Complies
11	2462	15.390	18.400	0.5	Complies

CH01



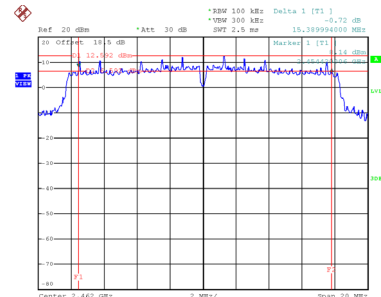
Date: 17.APR.2024 20:19:42

CH06
6 dB Bandwidth



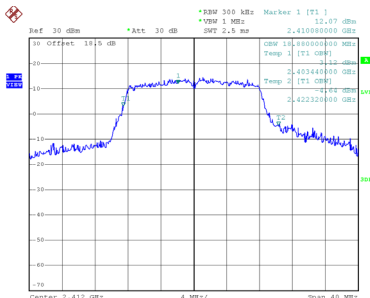
Date: 17.APR.2024 20:20:11

CH11

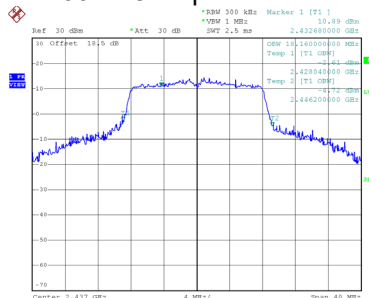


Date: 17.APR.2024 20:20:48

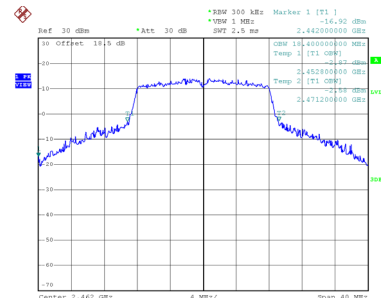
99 % Occupied Bandwidth



Date: 13.MAY.2024 10:37:07



Date: 13.MAY.2024 10:46:35

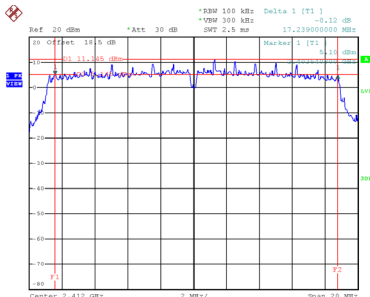


Date: 13.MAY.2024 10:44:11

Test Mode	TX N(HT20) Mode
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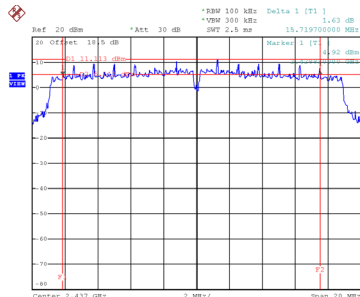
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	17.239	18.240	0.5	Complies
06	2437	15.720	18.320	0.5	Complies
11	2462	17.230	18.480	0.5	Complies

CH01



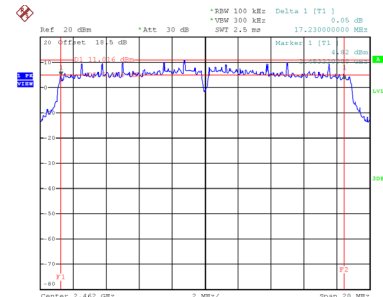
Date: 17.APR.2024 20:21:13

CH06
6 dB Bandwidth



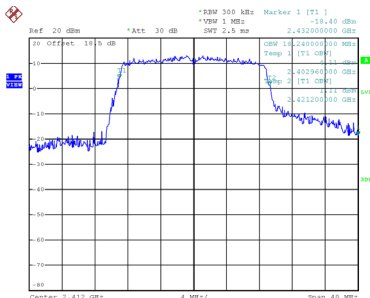
Date: 17.APR.2024 20:21:37

CH11

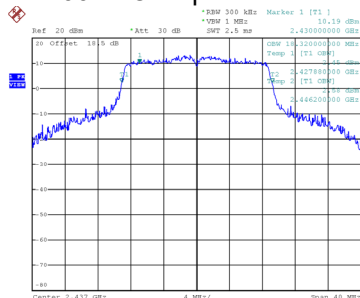


Date: 17.APR.2024 20:21:58

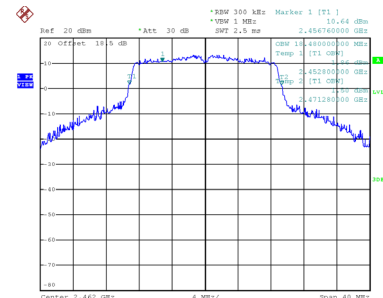
99 % Occupied Bandwidth



Date: 17.APR.2024 20:07:58



Date: 17.APR.2024 20:08:15

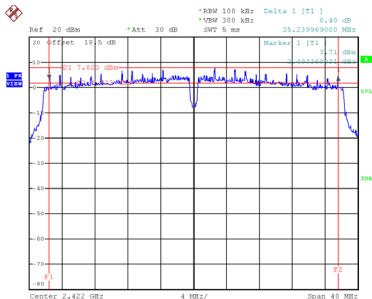


Date: 17.APR.2024 20:08:30

Test Mode	TX N(HT40) Mode
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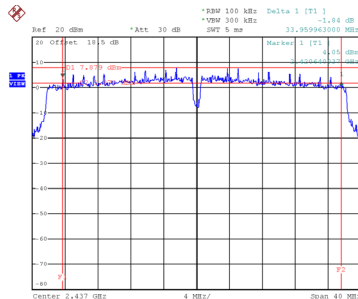
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
03	2422	35.240	36.960	0.5	Complies
06	2437	33.960	37.440	0.5	Complies
09	2452	35.280	36.960	0.5	Complies

CH03



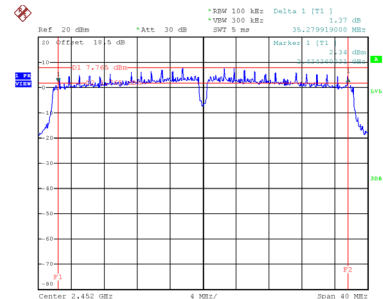
Date: 17.APR.2024 20:24:42

CH06
6 dB Bandwidth



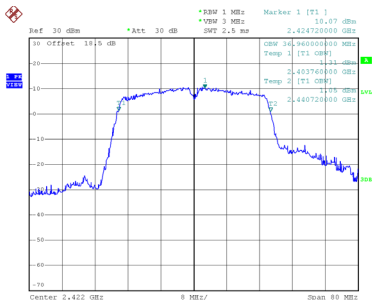
Date: 17.APR.2024 20:25:16

CH09

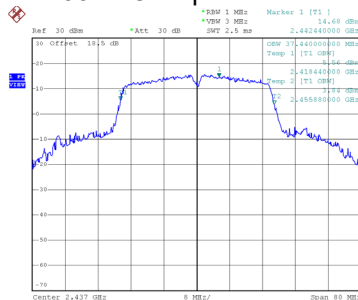


Date: 17.APR.2024 20:25:35

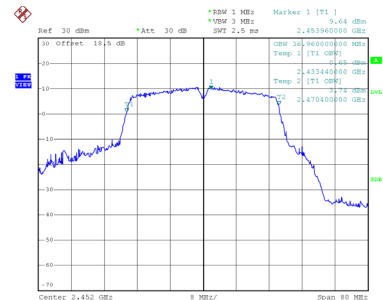
99 % Occupied Bandwidth



Date: 13.MAY.2024 10:25:21



Date: 13.MAY.2024 10:28:25

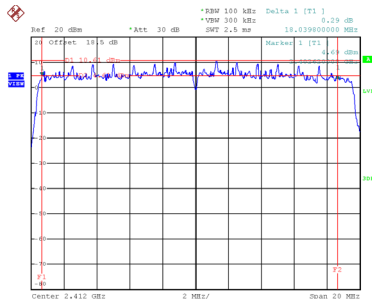


Date: 13.MAY.2024 10:31:05

Test Mode	TX AX(HE20) Mode
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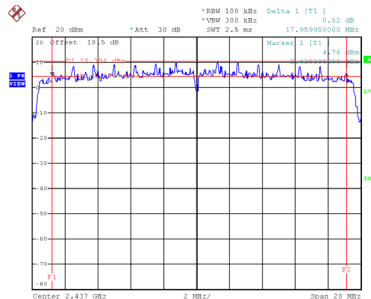
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	18.040	19.040	0.5	Complies
06	2437	17.960	19.200	0.5	Complies
11	2462	17.760	19.120	0.5	Complies

CH01



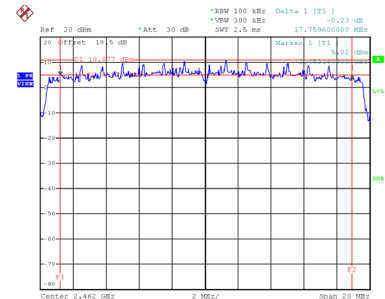
Date: 17.APR.2024 20:22:20

CH06
6 dB Bandwidth



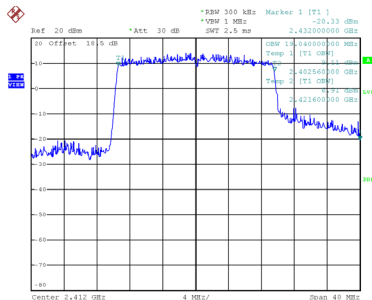
Date: 17.APR.2024 20:22:40

CH11

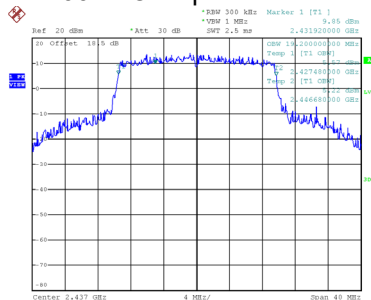


Date: 17.APR.2024 20:23:01

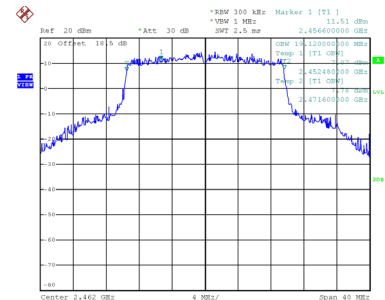
99 % Occupied Bandwidth



Date: 17.APR.2024 20:08:50



Date: 17.APR.2024 20:09:07

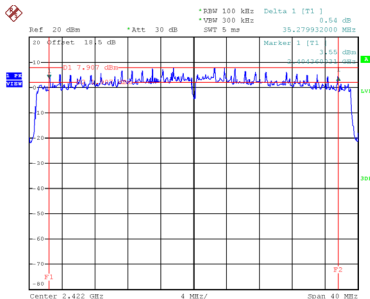


Date: 17.APR.2024 20:09:28

Test Mode	TX AX(HE40) Mode
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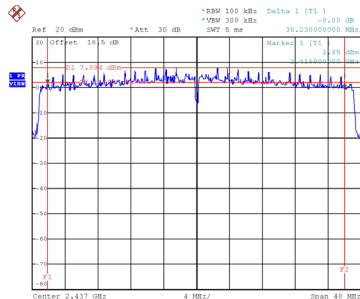
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
03	2422	35.280	38.080	0.5	Complies
06	2437	36.230	38.560	0.5	Complies
09	2452	35.440	38.560	0.5	Complies

CH03



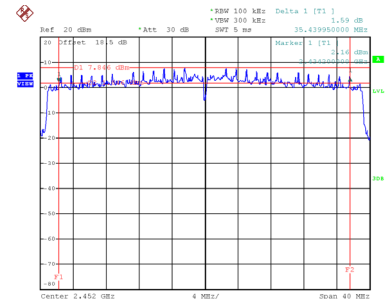
Date: 17.APR.2024 20:23:26

CH06
6 dB Bandwidth



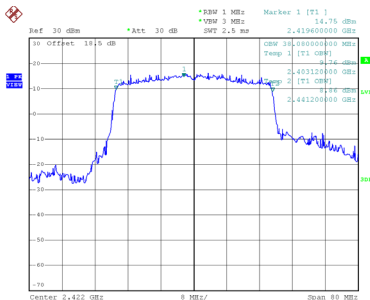
Date: 17.APR.2024 20:23:49

CH09

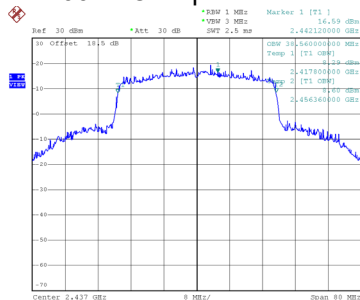


Date: 17.APR.2024 20:24:15

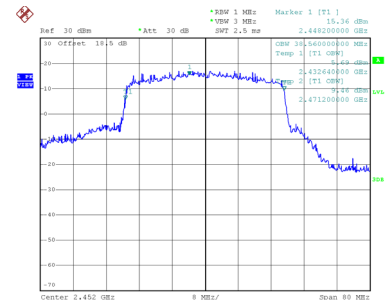
99 % Occupied Bandwidth



Date: 13.MAY.2024 10:15:49



Date: 13.MAY.2024 10:18:36



Date: 13.MAY.2024 10:19:30

APPENDIX F - MAXIMUM OUTPUT POWER

Non Beamforming

Test Mode	TX B Mode_Ant. 1
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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	19.23	0.00	19.23	28.74	0.7482	Complies
06	2437	19.16	0.00	19.16	28.74	0.7482	Complies
11	2462	22.49	0.00	22.49	28.74	0.7482	Complies

Test Mode	TX B Mode_Ant. 2
-----------	------------------

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	19.38	0.00	19.38	28.74	0.7482	Complies
06	2437	20.36	0.00	20.36	28.74	0.7482	Complies
11	2462	23.09	0.00	23.09	28.74	0.7482	Complies

Test Mode	TX B Mode_Total
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Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	22.32	28.74	0.7482	Complies
06	2437	22.81	28.74	0.7482	Complies
11	2462	25.81	28.74	0.7482	Complies

Test Mode	TX G Mode_Ant. 1
-----------	------------------

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	19.37	0.17	19.54	28.74	0.7482	Complies
06	2437	21.69	0.17	21.86	28.74	0.7482	Complies
11	2462	20.66	0.17	20.83	28.74	0.7482	Complies

Test Mode	TX G Mode_Ant. 2
-----------	------------------

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	19.71	0.17	19.88	28.74	0.7482	Complies
06	2437	22.49	0.17	22.66	28.74	0.7482	Complies
11	2462	21.28	0.17	21.45	28.74	0.7482	Complies

Test Mode	TX G Mode_Total
-----------	-----------------

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	22.72	28.74	0.7482	Complies
06	2437	25.29	28.74	0.7482	Complies
11	2462	24.16	28.74	0.7482	Complies

Test Mode	TX N(HT20) Mode_Ant. 1
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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	18.54	0.19	18.73	28.74	0.7482	Complies
06	2437	19.33	0.19	19.52	28.74	0.7482	Complies
11	2462	20.22	0.19	20.41	28.74	0.7482	Complies

Test Mode	TX N(HT20) Mode_Ant. 2
-----------	------------------------

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	18.57	0.19	18.76	28.74	0.7482	Complies
06	2437	20.51	0.19	20.70	28.74	0.7482	Complies
11	2462	20.74	0.19	20.93	28.74	0.7482	Complies

Test Mode	TX N(HT20) Mode_Total
-----------	-----------------------

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	21.76	28.74	0.7482	Complies
06	2437	23.16	28.74	0.7482	Complies
11	2462	23.69	28.74	0.7482	Complies

Test Mode	TX N(HT40) Mode_Ant. 1
-----------	------------------------

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	17.55	0.66	18.21	28.74	0.7482	Complies
06	2437	19.10	0.66	19.76	28.74	0.7482	Complies
09	2452	16.65	0.66	17.31	28.74	0.7482	Complies

Test Mode	TX N(HT40) Mode_Ant. 2
-----------	------------------------

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	17.70	0.66	18.36	28.74	0.7482	Complies
06	2437	20.03	0.66	20.69	28.74	0.7482	Complies
09	2452	17.55	0.66	18.21	28.74	0.7482	Complies

Test Mode	TX N(HT40) Mode_Total
-----------	-----------------------

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	21.30	28.74	0.7482	Complies
06	2437	23.26	28.74	0.7482	Complies
09	2452	20.80	28.74	0.7482	Complies

Test Mode	TX AX(HE20) Mode_Ant. 1
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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	17.79	0.42	18.21	28.74	0.7482	Complies
06	2437	19.89	0.42	20.31	28.74	0.7482	Complies
11	2462	18.26	0.42	18.68	28.74	0.7482	Complies

Test Mode	TX AX(HE20) Mode_Ant. 2
-----------	-------------------------

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	17.67	0.42	18.09	28.74	0.7482	Complies
06	2437	21.03	0.42	21.45	28.74	0.7482	Complies
11	2462	18.94	0.42	19.36	28.74	0.7482	Complies

Test Mode	TX AX(HE20) Mode_Total
-----------	------------------------

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	21.16	28.74	0.7482	Complies
06	2437	23.93	28.74	0.7482	Complies
11	2462	22.04	28.74	0.7482	Complies

Test Mode	TX AX(HE40) Mode_Ant. 1
-----------	-------------------------

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	15.98	1.11	17.09	28.74	0.7482	Complies
06	2437	17.32	1.11	18.43	28.74	0.7482	Complies
09	2452	16.34	1.11	17.45	28.74	0.7482	Complies

Test Mode	TX AX(HE40) Mode_Ant. 2
-----------	-------------------------

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	16.12	1.11	17.23	28.74	0.7482	Complies
06	2437	18.49	1.11	19.60	28.74	0.7482	Complies
09	2452	17.43	1.11	18.54	28.74	0.7482	Complies

Test Mode	TX AX(HE40) Mode_Total
-----------	------------------------

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	20.17	28.74	0.7482	Complies
06	2437	22.07	28.74	0.7482	Complies
09	2452	21.04	28.74	0.7482	Complies

Beamforming

Test Mode	TX N(HT20) Mode_Ant. 1
-----------	------------------------

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	17.88	0.19	18.07	28.75	0.7499	Complies
06	2437	18.86	0.19	19.05	28.75	0.7499	Complies
11	2462	19.61	0.19	19.80	28.75	0.7499	Complies

Test Mode	TX N(HT20) Mode_Ant. 2
-----------	------------------------

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	18.22	0.19	18.41	28.75	0.7499	Complies
06	2437	19.92	0.19	20.11	28.75	0.7499	Complies
11	2462	20.28	0.19	20.47	28.75	0.7499	Complies

Test Mode	TX N(HT20) Mode_Total
-----------	-----------------------

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	21.26	28.75	0.7499	Complies
06	2437	22.63	28.75	0.7499	Complies
11	2462	23.16	28.75	0.7499	Complies

Test Mode	TX N(HT40) Mode_Ant. 1
-----------	------------------------

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	17.25	0.66	17.91	28.75	0.7499	Complies
06	2437	18.64	0.66	19.30	28.75	0.7499	Complies
09	2452	16.17	0.66	16.83	28.75	0.7499	Complies

Test Mode	TX N(HT40) Mode_Ant. 2
-----------	------------------------

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	17.42	0.66	18.08	28.75	0.7499	Complies
06	2437	19.81	0.66	20.47	28.75	0.7499	Complies
09	2452	17.31	0.66	17.97	28.75	0.7499	Complies

Test Mode	TX N(HT40) Mode_Total
-----------	-----------------------

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	21.01	28.75	0.7499	Complies
06	2437	22.94	28.75	0.7499	Complies
09	2452	20.45	28.75	0.7499	Complies

Test Mode	TX AX(HE20) Mode_Ant. 1
-----------	-------------------------

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	17.14	0.42	17.56	28.75	0.7499	Complies
06	2437	19.43	0.42	19.85	28.75	0.7499	Complies
11	2462	17.77	0.42	18.19	28.75	0.7499	Complies

Test Mode	TX AX(HE20) Mode_Ant. 2
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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	17.46	0.42	17.88	28.75	0.7499	Complies
06	2437	20.62	0.42	21.04	28.75	0.7499	Complies
11	2462	18.51	0.42	18.93	28.75	0.7499	Complies

Test Mode	TX AX(HE20) Mode_Total
-----------	------------------------

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	20.73	28.75	0.7499	Complies
06	2437	23.49	28.75	0.7499	Complies
11	2462	21.58	28.75	0.7499	Complies

Test Mode	TX AX(HE40) Mode_Ant. 1
-----------	-------------------------

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	15.55	1.11	16.66	28.75	0.7499	Complies
06	2437	16.90	1.11	18.01	28.75	0.7499	Complies
09	2452	15.88	1.11	16.99	28.75	0.7499	Complies

Test Mode	TX AX(HE40) Mode_Ant. 2
-----------	-------------------------

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	15.63	1.11	16.74	28.75	0.7499	Complies
06	2437	18.03	1.11	19.14	28.75	0.7499	Complies
09	2452	16.97	1.11	18.08	28.75	0.7499	Complies

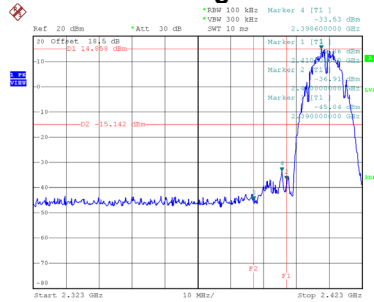
Test Mode	TX AX(HE40) Mode_Total
-----------	------------------------

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	19.71	28.75	0.7499	Complies
06	2437	21.62	28.75	0.7499	Complies
09	2452	20.58	28.75	0.7499	Complies

APPENDIX G - CONDUCTED SPURIOUS EMISSIONS

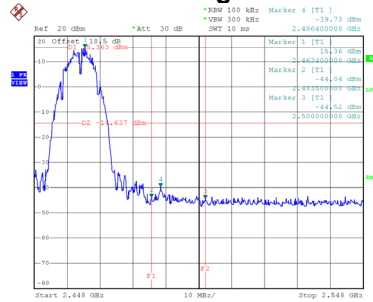
Test Mode TX B Mode_Ant. 1

Bandedge-CH01



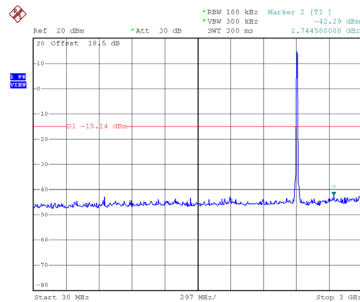
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Bandedge-CH11

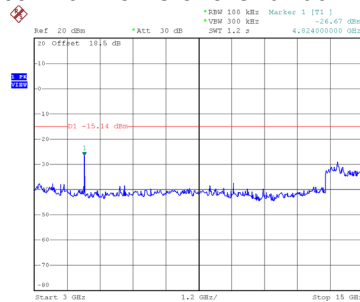


Date: 19.APR.2024 02:44:43

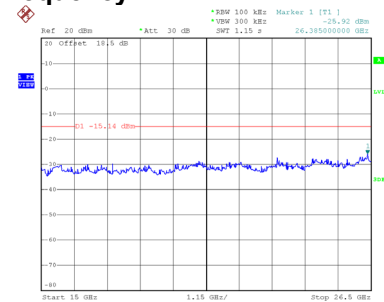
CH01 – 10th Harmonic of the fundamental frequency



Date: 19.APR.2024 02:43:08

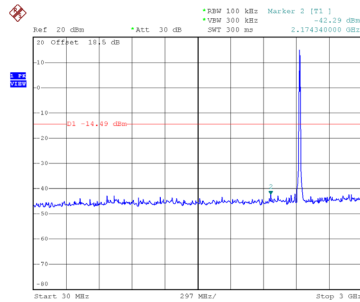


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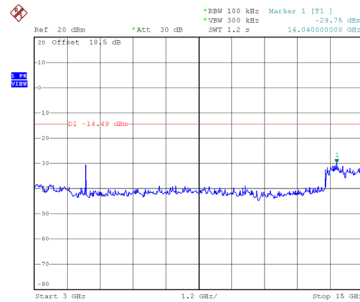


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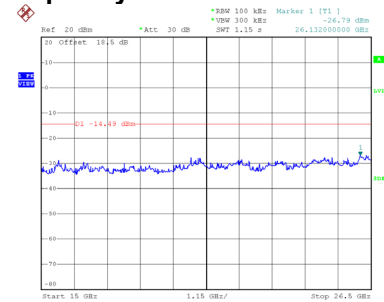
CH06 – 10th Harmonic of the fundamental frequency



Date: 19.APR.2024 02:44:03

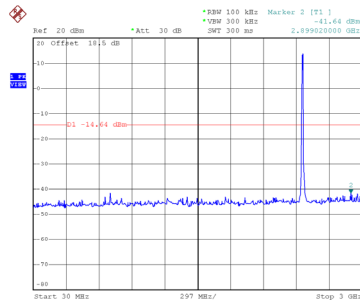


Date: 19.APR.2024 02:44:12

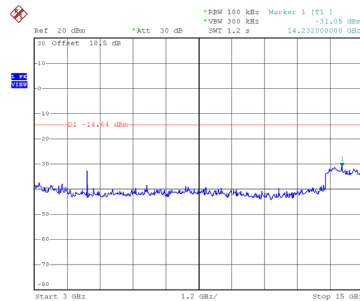


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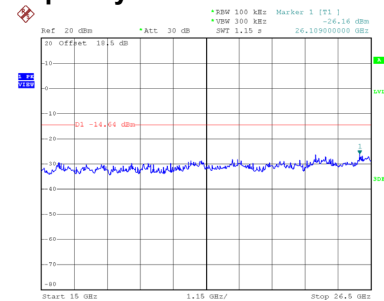
CH11 – 10th Harmonic of the fundamental frequency



Date: 19.APR.2024 02:44:57



Date: 19.APR.2024 02:45:06



Date: 19.APR.2024 02:45:15