



FCC Radio Test Report

FCC ID: 2APRGAP01

This report concerns: Original Grant

Project No. : 2310G131C
Equipment : AX3000 Ceiling Mount Wi-Fi 6 Access Point with 2.5G Port
Brand Name : Cudy
Test Model : AP3000
Series Model : N/A
Applicant : Shenzhen Cudy Technology Co., Ltd.
Address : Room A606, Gaoxinqi Industrial Park, Liuxianyi Road, Baoan District, Shenzhen, China
Manufacturer : Shenzhen Cudy Technology Co., Ltd.
Address : Room A606, Gaoxinqi Industrial Park, Liuxianyi Road, Baoan District, Shenzhen, China
Factory : Shenzhen Cudy Technology Co., Ltd.
Address : Room A606, Gaoxinqi Industrial Park, Liuxianyi Road, Baoan District, Shenzhen, China
Date of Receipt : Dec. 15, 2023
Date of Test : Dec. 19, 2023 ~ Mar. 04, 2024
Issued Date : Mar. 18, 2024
Report Version : R01
Test Sample : Engineering Sample No.: SSL20231215195
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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BTL is not responsible for the sampling stage, so the results only apply to the sample as received.

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

Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.

Table of Contents	Page
REPORT ISSUED HISTORY	6
1 . APPLICABLE STANDARDS	7
2 . SUMMARY OF TEST RESULTS	7
2.1 TEST FACILITY	8
2.2 MEASUREMENT UNCERTAINTY	8
2.3 TEST ENVIRONMENT CONDITIONS	9
3 . GENERAL INFORMATION	10
3.1 GENERAL DESCRIPTION OF EUT	10
3.2 DESCRIPTION OF TEST MODES	12
3.3 PARAMETERS OF TEST SOFTWARE	14
3.4 DUTY CYCLE	15
3.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED	17
3.6 SUPPORT UNITS	17
3.7 CUSTOMER INFORMATION DESCRIPTION	17
4 . AC POWER LINE CONDUCTED EMISSIONS	18
4.1 LIMIT	18
4.2 TEST PROCEDURE	18
4.3 DEVIATION FROM TEST STANDARD	18
4.4 TEST SETUP	19
4.5 EUT OPERATION CONDITIONS	19
4.6 TEST RESULTS	19
5 . RADIATED EMISSIONS	20
5.1 LIMIT	20
5.2 TEST PROCEDURE	21
5.3 DEVIATION FROM TEST STANDARD	22
5.4 TEST SETUP	22
5.5 EUT OPERATION CONDITIONS	23
5.6 TEST RESULTS - 9 KHZ TO 30 MHZ	23
5.7 TEST RESULTS - 30 MHZ TO 1000 MHZ	23
5.8 TEST RESULTS - ABOVE 1000 MHZ	23
6 . BANDWIDTH	24
6.1 LIMIT	24
6.2 TEST PROCEDURE	24

Table of Contents	Page
6.3 DEVIATION FROM STANDARD	24
6.4 TEST SETUP	24
6.5 EUT OPERATION CONDITIONS	24
6.6 TEST RESULTS	24
7 . MAXIMUM OUTPUT POWER	25
7.1 LIMIT	25
7.2 TEST PROCEDURE	25
7.3 DEVIATION FROM STANDARD	25
7.4 TEST SETUP	25
7.5 EUT OPERATION CONDITIONS	25
7.6 TEST RESULTS	25
8 . CONDUCTED SPURIOUS EMISSIONS	26
8.1 LIMIT	26
8.2 TEST PROCEDURE	26
8.3 DEVIATION FROM STANDARD	26
8.4 TEST SETUP	26
8.5 EUT OPERATION CONDITIONS	26
8.6 TEST RESULTS	26
9 . POWER SPECTRAL DENSITY	27
9.1 LIMIT	27
9.2 TEST PROCEDURE	27
9.3 DEVIATION FROM STANDARD	27
9.4 TEST SETUP	27
9.5 EUT OPERATION CONDITIONS	27
9.6 TEST RESULTS	27
10 . MEASUREMENT INSTRUMENTS LIST	28
11 . EUT TEST PHOTO	30
APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS	35
APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ	38
APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1000 MHZ	43
APPENDIX D - RADIATED EMISSION- ABOVE 1000 MHZ	46
APPENDIX E - BANDWIDTH	83
APPENDIX F - MAXIMUM OUTPUT POWER	90

Table of Contents**Page****APPENDIX G - CONDUCTED SPURIOUS EMISSIONS****101****APPENDIX H - POWER SPECTRAL DENSITY****114**

REPORT ISSUED HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-1-2310G131C	R00	Original Report.	Mar. 07, 2024	Invalid
BTL-FCCP-1-2310G131C	R01	Modified the comments.	Mar. 18, 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 NVLAP:

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 Radiated Emissions(30MHz~40GHz) and Conducted Items:

Room 108, Building 2, No. 1, Yile Road, Songshan Lake Zone, Dongguan City, Guangdong 523000.

BTL's Registration Number for FCC: 568794

BTL's Designation Number for FCC: CN5041

For Radiated Emissions(9KHz~30MHz) and AC power line conducted emissions Items:

No. 3 Jinshagang 1st Rd. Shixia, Dalang Town, Dongguan City, Guangdong 523792.

BTL's Registration Number for FCC: 162128

BTL's Designation Number for FCC: CN5042

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% 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)
SSL-CB01 (3m)	CISPR	30MHz ~ 200MHz	V	4.70
		30MHz ~ 200MHz	H	3.56
		200MHz ~ 1,000MHz	V	4.92
		200MHz ~ 1,000MHz	H	4.54

Test Site	Method	Measurement Frequency Range	U,(dB)
SSL-CB01 (3m)	CISPR	1GHz ~ 6GHz	4.56
		6GHz ~ 18GHz	5.14

Test Site	Method	Measurement Frequency Range	U,(dB)
SSL-CB01 (1m)	CISPR	18 ~ 26.5 GHz	3.30
		26.5 ~ 40 GHz	3.82

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	20°C	39%	AC 120V/60Hz	Hayden Chen	Dec. 26, 2023
Radiated Emissions-9kHz to 30 MHz	22°C	51%	AC 120V/60Hz	Hayden Chen	Jan. 23, 2024
Radiated Emissions-30MHz to 1000MHz	23°C	46%	AC 120V/60Hz	Max Wang	Jan. 26, 2024
Radiated Emissions-Above 1000MHz	24°C	42%	AC 120V/60Hz	Max Wang	Jan. 18, 2024, Jan. 21, 2024
Bandwidth	24°C	53%	DC 12V	Tember Zhuang	Jan. 18, 2024, Mar. 01, 2024
Maximum Output Power	21-24°C	47-51%	DC 12V	Evan Fang Oliver Wang	Jan. 17, 2024~ Jan. 26, 2024 Feb. 22, 2024
Conducted Spurious Emissions	24°C	53%	DC 12V	Tember Zhuang	Jan. 18, 2024, Mar. 01, 2024
Power Spectral Density	24°C	53%	DC 12V	Tember Zhuang	Jan. 18, 2024, Mar. 01, 2024

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	AX3000 Ceiling Mount Wi-Fi 6 Access Point with 2.5G Port
Brand Name	Cudy
Test Model	AP3000
Series Model	N/A
Model Difference(s)	N/A
Software Version	FW1.16.4
Hardware Version	V1
Power Source	1# DC Voltage supplied from AC adapter. Model: TPA259-18120-US 2# Supplied from PoE port.
Power Rating	1# I/P: 100-240V ~ 50/60Hz 0.6A O/P: 12V === 1.5A 2# PoE:48V === 0.32A
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 802.11n: up to 573.6 Mbps
Maximum Output Power Non Beamforming	IEEE 802.11b: 26.37 dBm (0.4335 W)
Maximum Output Power Beamforming	IEEE 802.11n(HT40): 24.53 dBm (0.2838 W)



Note:

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

2. Channel List:

CH01 - CH11 for IEEE 802.11b, IEEE 802.11g, IEEE 802.11n(HT20), 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	 South star	3.N101.1160	PCB	N/A	4.32
2	 South star	3.N101.1161	PCB	N/A	4.89

Note:

- This EUT supports MIMO, any transmit signals are correlated with each other, so Directional gain= $10\log[(10^{G1/20}+10^{G2/20}+\dots+10^{GN/20})^2/N]$ dBi, that is Directional gain= $10\log[(10^{4.32/20}+10^{4.89/20})^2/2]$ dBi =7.62. So, the output power limit is $30-(7.62-6)=28.38$, the power spectral density limit is $8-(7.62-6)=6.38$.
- Beamforming gain is 3dB. So Directional gain= $3+4.89=7.89$.

4. Table for Antenna Configuration:

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)

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 01

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 01

Radiated emissions test - Below 1GHz	
Final Test Mode	Description
Mode 7	TX B Mode Channel 01

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
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_Beamforming test	
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

Maximum Output Power & Other Conducted_Non Beamforming 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
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 01 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 above 1 GHz test, the polarization of Vertical and Horizontal are evaluated, the worst case is Horizontal 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 spurious emissions below 1 GHz test, AC adapter supply and PoE supply had been evaluated. The worst case is AC adapter supply and recorded.

3.3 PARAMETERS OF TEST SOFTWARE

Non Beamforming

Test Software Version	QATool_Dbg 0.0.2.78		
Frequency (MHz)	2412	2437	2462
IEEE 802.11b	22	22	22
IEEE 802.11g	21.5	22.5	22.5
IEEE 802.11n(HT20)	22.5	22.5	22.5
IEEE 802.11ax(HE20)	21	22	22
Frequency (MHz)	2422	2437	2452
IEEE 802.11n(HT40)	22	23	23
IEEE 802.11ax(HE40)	20.5	21	21

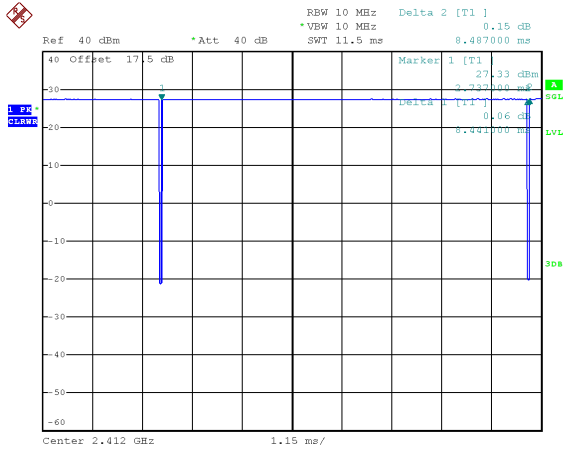
Beamforming

Test Software Version	QATool_Dbg 0.0.2.78		
Frequency (MHz)	2412	2437	2462
IEEE 802.11n(HT20)	21	21	21
IEEE 802.11ax(HE20)	19.5	20.5	20.5
Frequency (MHz)	2422	2437	2452
IEEE 802.11n(HT40)	21	21.5	21.5
IEEE 802.11ax(HE40)	19	19.5	19.5

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.

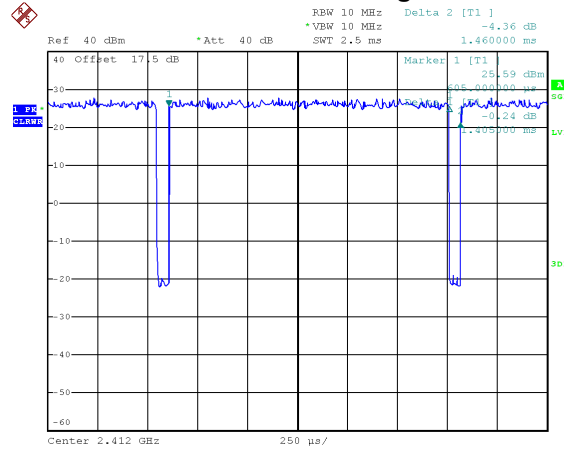
IEEE 802.11b



Date: 18.JAN.2024 10:03:38

Duty cycle = $8.441 \text{ ms} / 8.487 \text{ ms} = 99.46\%$
 Duty Factor = $10 \log(1/\text{Duty cycle}) = 0.00$

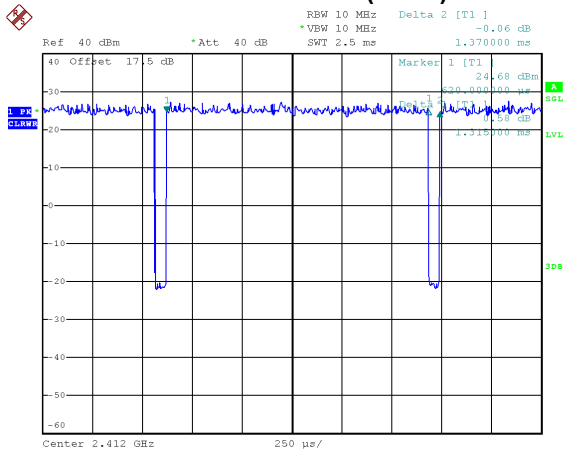
IEEE 802.11g



Date: 18.JAN.2024 10:03:54

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

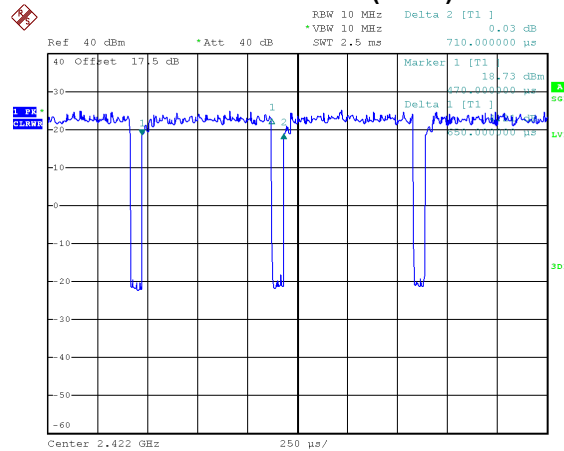
IEEE 802.11n(HT20)



Date: 18.JAN.2024 10:04:14

Duty cycle = $1.315 \text{ ms} / 1.370 \text{ ms} = 95.99\%$
 Duty Factor = $10 \log(1/\text{Duty cycle}) = 0.18$

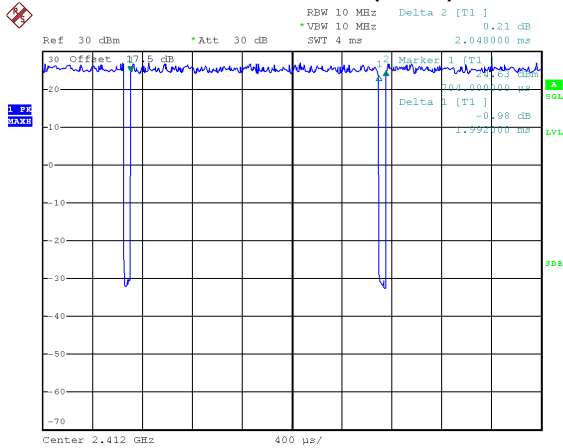
IEEE 802.11n(HT40)



Date: 18.JAN.2024 10:04:42

Duty cycle = $0.650 \text{ ms} / 0.710 \text{ ms} = 91.55\%$
 Duty Factor = $10 \log(1/\text{Duty cycle}) = 0.38$

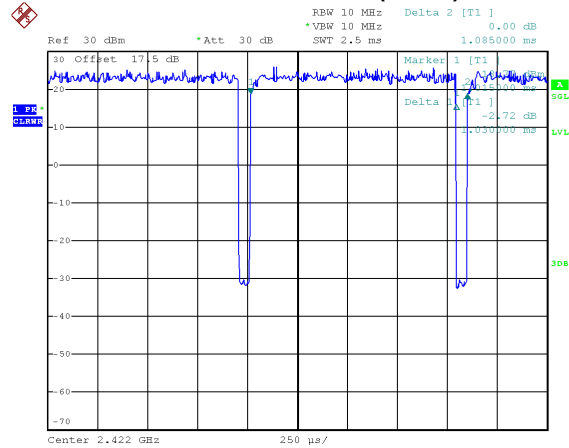
IEEE 802.11ax(HE20)



Date: 1.MAR.2024 10:15:49

Duty cycle = 1.992 ms / 2.048 ms = 97.27%
 Duty Factor = 10 log(1/Duty cycle) = 0.12

IEEE 802.11ax(HE40)



Date: 1.MAR.2024 10:16:42

Duty cycle = 1.030 ms / 1.085 ms = 94.93%
 Duty Factor = 10 log(1/Duty cycle) = 0.23

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 1538 Hz.

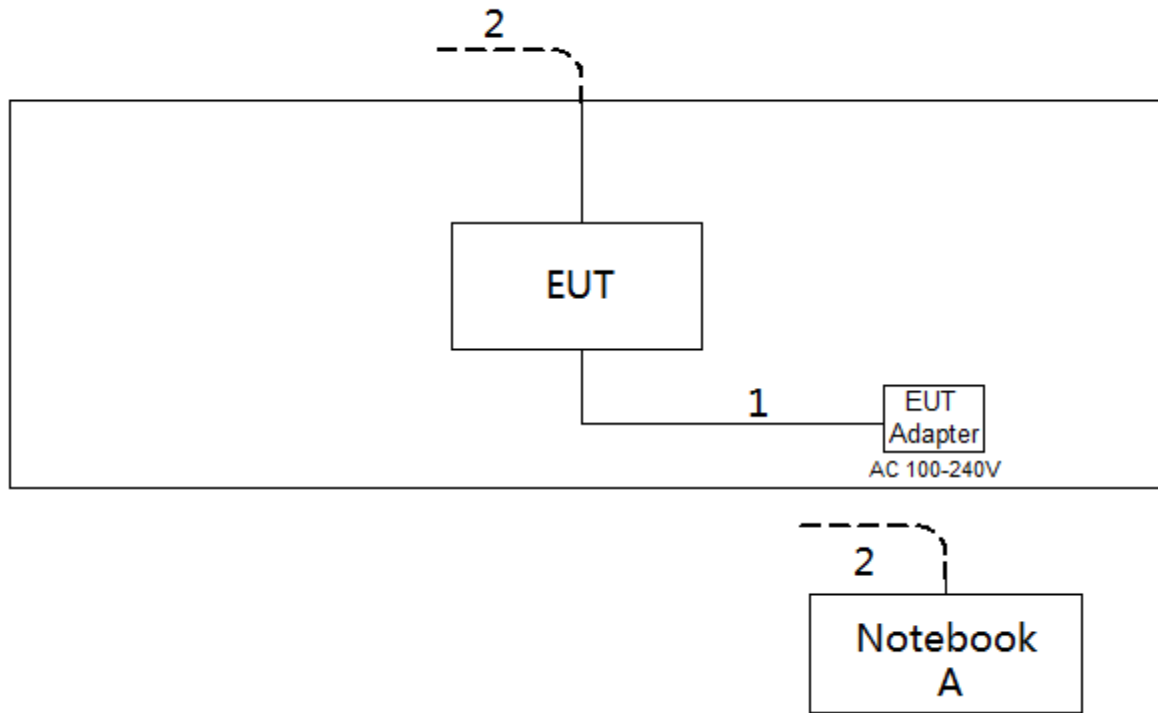
For IEEE 802.11ax(HE20):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 502 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 971 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 15-7559	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.

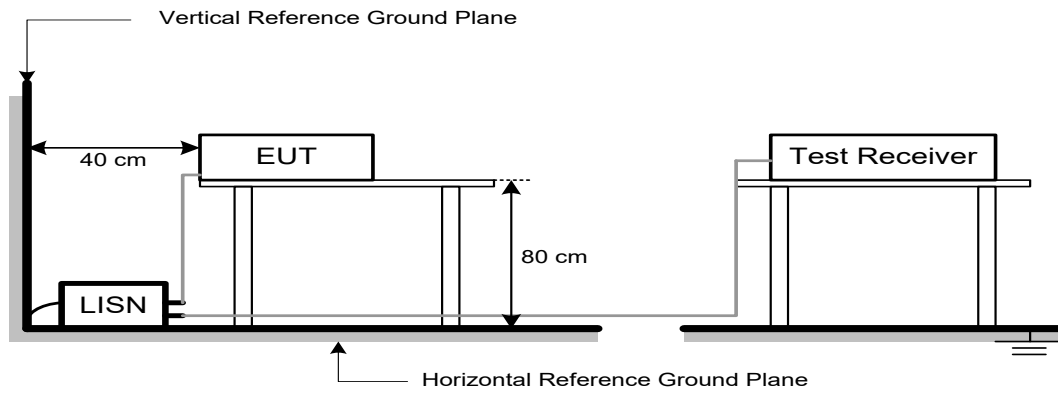
The following table is the setting of the receiver:

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

NOTE:

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

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

The following table is the setting of the receiver:

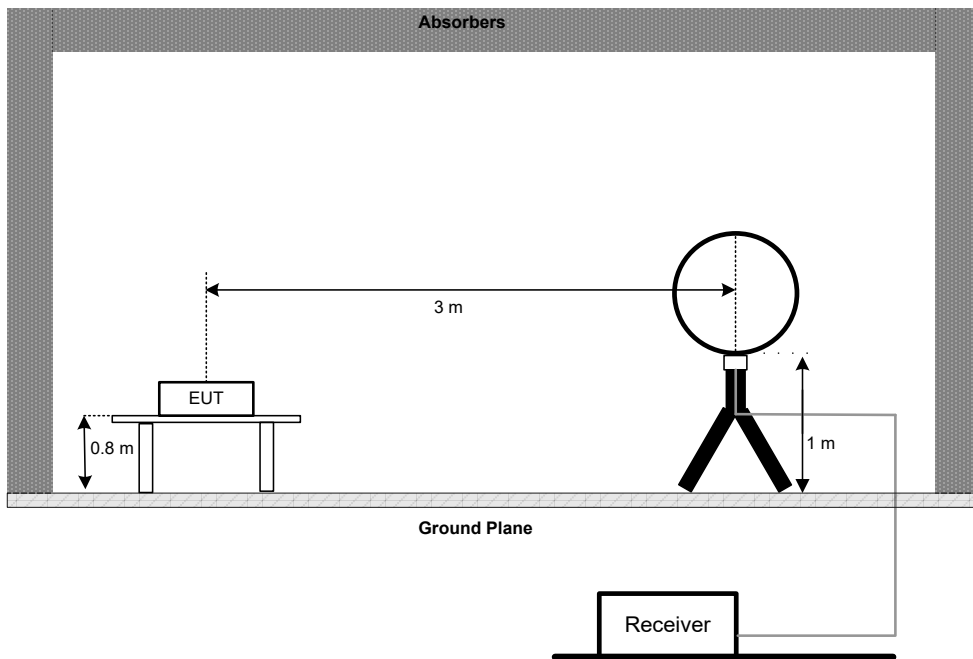
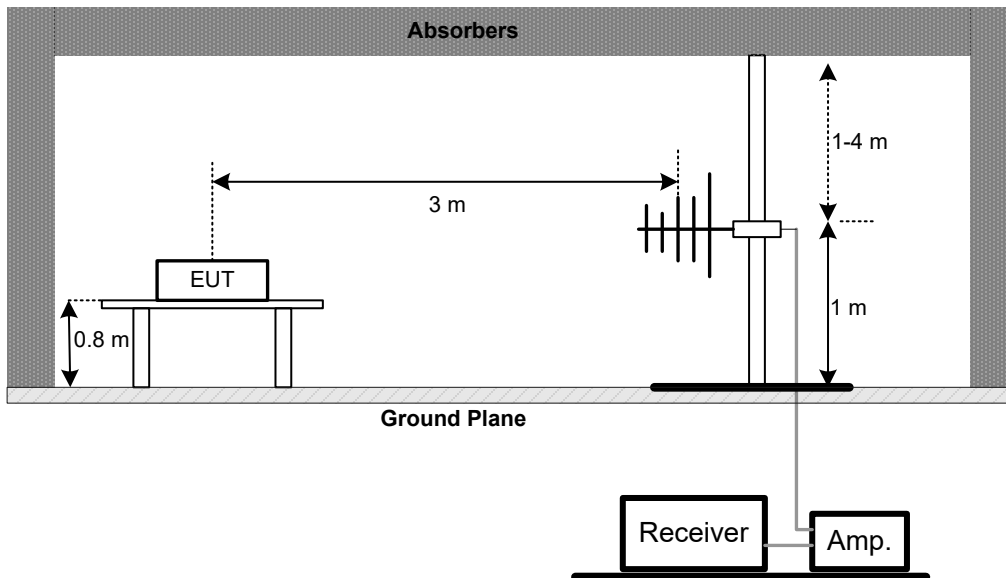
Spectrum Parameters	Setting
Start ~ Stop Frequency	9 kHz~150 kHz for RBW 200 Hz
Start ~ Stop Frequency	0.15 MHz~30 MHz for RBW 9 kHz
Start ~ Stop Frequency	30 MHz~1000 MHz for RBW 100 kHz

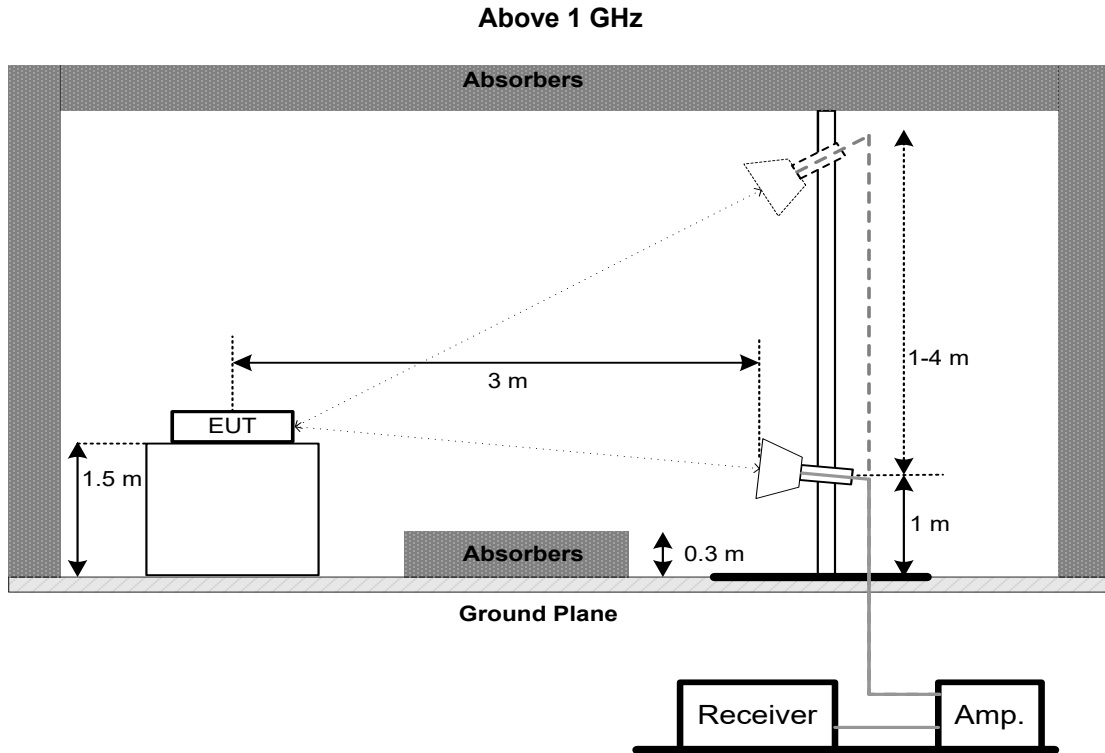
Spectrum Parameters	Setting
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RBW / VBW (Emission in restricted band)	1 MHz / 3 MHz for PK value 1 MHz / 1/T Hz for AVG value

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**



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

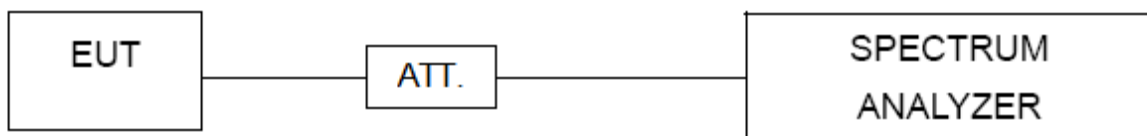
For 99% Emission Bandwidth:

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

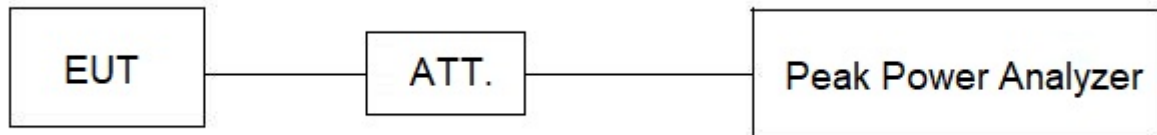
7.2 TEST PROCEDURE

- 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

- 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

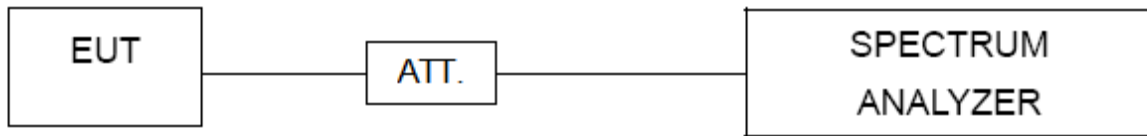
- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. The following table is the setting of the spectrum analyzer:

Spectrum Parameters	Setting
Span Frequency	25 MHz (20 MHz) / 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	Apr. 01, 2024
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	MXE EMI Receiver	Keysight	N9038A	MY59050118	Feb. 10, 2024
2	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
3	Preamplifier	EMC INSTRUMENT	EMC118A45SE	980739	Feb. 10, 2024
4	Cable	EMC INSTRUMENT	EMC104-SM-SM-10000	N/A	Jun. 08, 2024
5	Cable	EMC INSTRUMENT	EMC104-SM-SM-3000	N/A	Jun. 08, 2024
6	Cable	EMC INSTRUMENT	EMC104-SM-SM-800	N/A	Jun. 08, 2024
7	Double Ridged Broadband Horn Antenna	RF SPIN	DRH18-E	210106A18E	Jul. 04, 2024
8	Preamplifier	EMC INSTRUMENT	EMC184045SE	980793	Feb. 10, 2024
9	Cable	EMC INSTRUMENT	EMC101G-KM-KM-800	N/A	Aug. 13, 2024
10	Cable	EMC INSTRUMENT	EMC101G-KM-KM-6000	N/A	Aug. 13, 2024
11	Broad-Band Horn Antenna	Schwarzbeck	BBHA9170	1046	Jul. 05, 2024
12	Band Reject Filter	COM-MW	ZHPF6-M6500-18000-547	7213124	Jul. 07, 2024
13	Attenuator	Talent Microwave	ATT-18G2W-10	N/A	N/A
14	966 Chamber room	Tai He	9*6*6 (NSA&VSWR)	N/A	Jun. 07, 2024
15	Band Reject Filter	COM-MW	ZHPF6-C3000-18000-174	7213126	Jul. 07, 2024

Radiated Emissions - Above 1 GHz

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Trilog-Broadband Antenna	Schwarzbeck	VULB9168	01269	May 15, 2024
2	Attenuator	EMC INSTRUMENT	EMCI-N-6-06	AN-N0697	May 15, 2024
3	Preamplifier	EMC INSTRUMENT	EMC001330	4585/5/27	Feb. 10, 2024
4	Cable	EMC INSTRUMENT	EMCCFD400-NM-N M-2500	N/A	Jun. 08, 2024
5	Cable	EMC INSTRUMENT	EMCCFD400-NM-N M-7000	N/A	Jun. 08, 2024
6	Cable	EMC INSTRUMENT	EMCCFD400-NM-N M-3000	N/A	Jun. 08, 2024
7	MXE EMI Receiver	KEYSIGHT	N9038A	MY59050118	Feb. 10, 2024
8	Positioning Controller	MF	MF-7802BS	N/A	N/A
9	Max-Full Antenna Corp	MF	MFA-560BSN	N/A	N/A
10	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
11	966 Chamber room	Tai He	9*6*6 (NSA&VSWR)	N/A	Jun. 07, 2024

Bandwidth & Conducted Spurious Emissions & Power Spectral Density

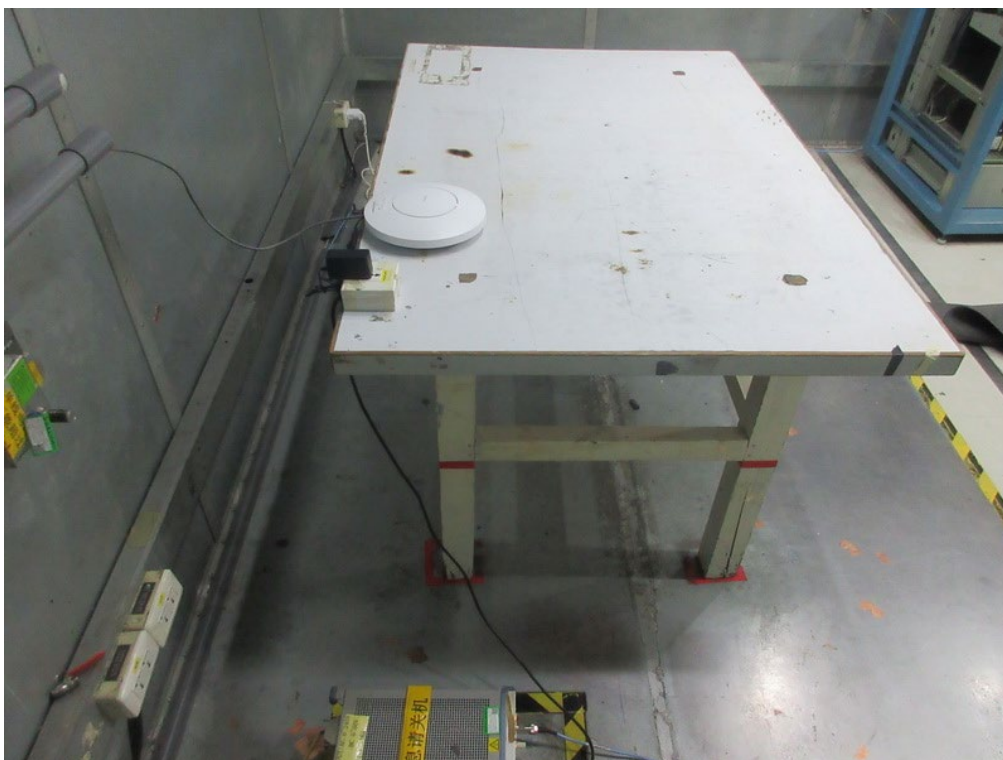
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP38	100852	Jun. 16, 2024
2	Attenuator	RegalWay	RWA-201-S-10	N/A	Sep. 26, 2024
3	Digital Multimeter	FLUKE	15B PRO	59056240WS	Sep. 25, 2024
4	Measurement Software	BTL	BTL Conducted Test	N/A	N/A
5	Attenuator	RegalWay	RWA-201-S-6	N/A	Sep. 26, 2024
6	Temperature Chamber	ESPEC CORP	SU-242	93018736	Jul. 07, 2024
7	ITECH	DC Power Supply	IT6332C	8034160117673300	May 10, 2024
8	DC Block	N/A	N/A	N/A	N/A

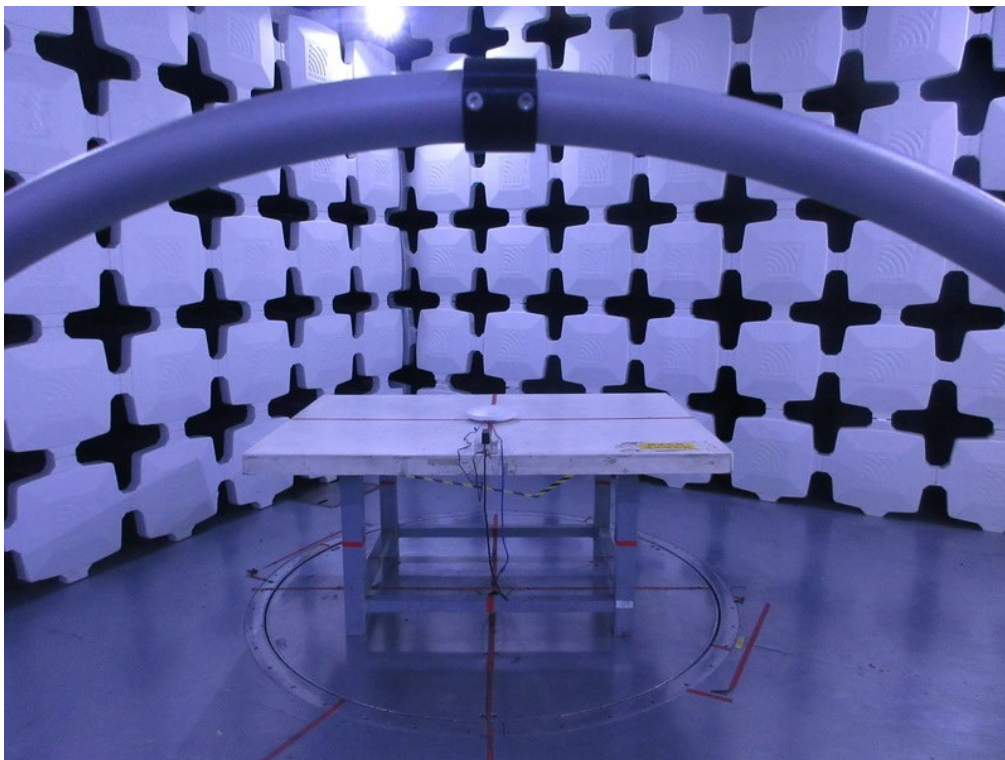
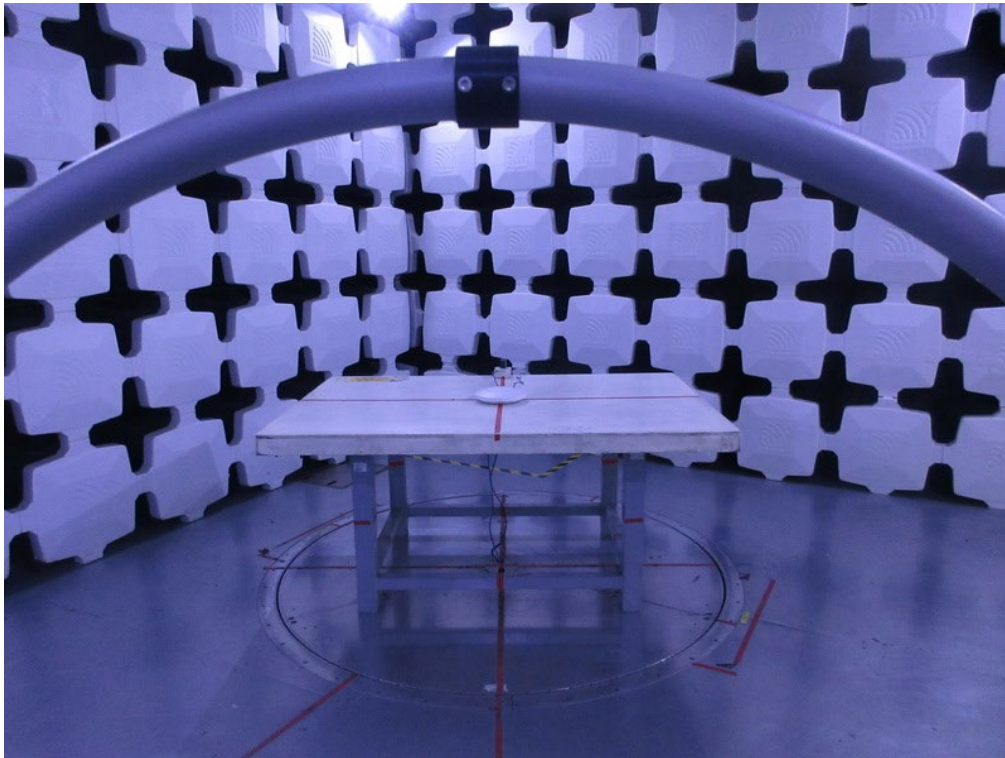
Maximum Output Power

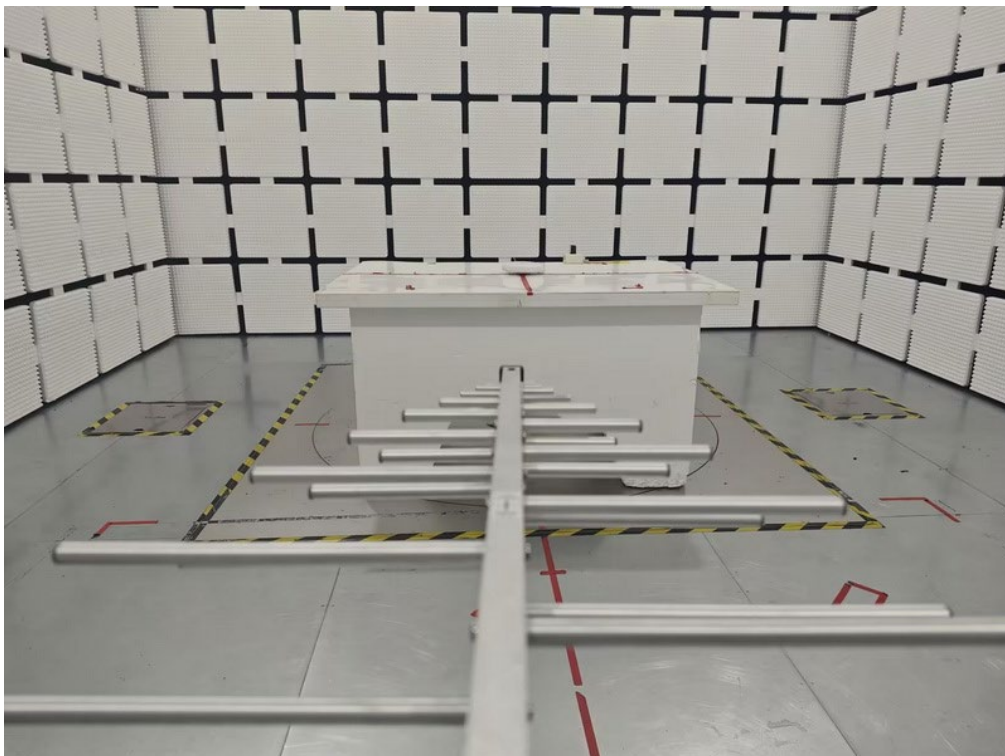
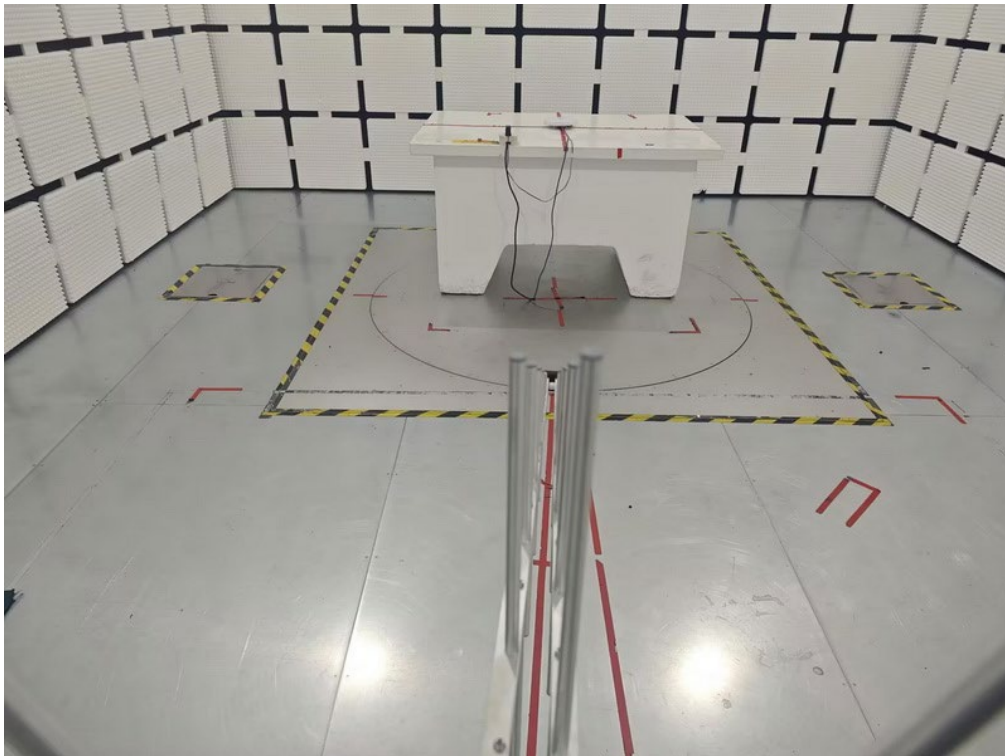
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Attenuator	RegalWay	RWA-201-S-10	NA	Sep. 26, 2024
2	Power sensors	MA24408A	12592	NA	Dec. 22, 2024
3	Measurement Software	BTL	BTL Conducted Test	N/A	N/A

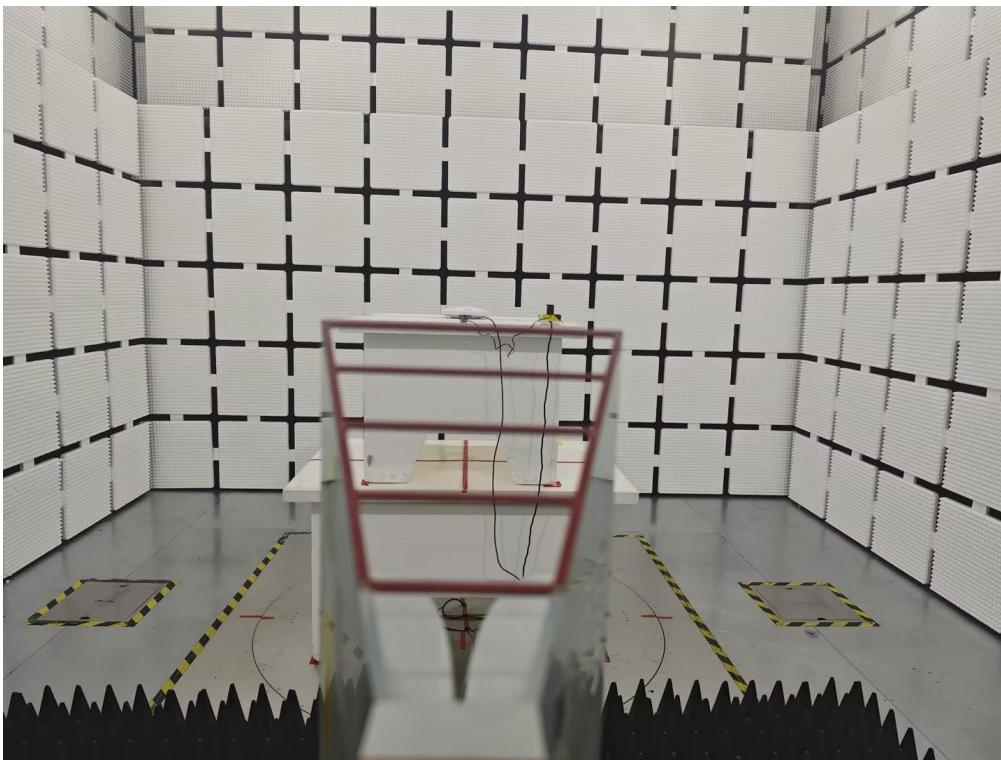
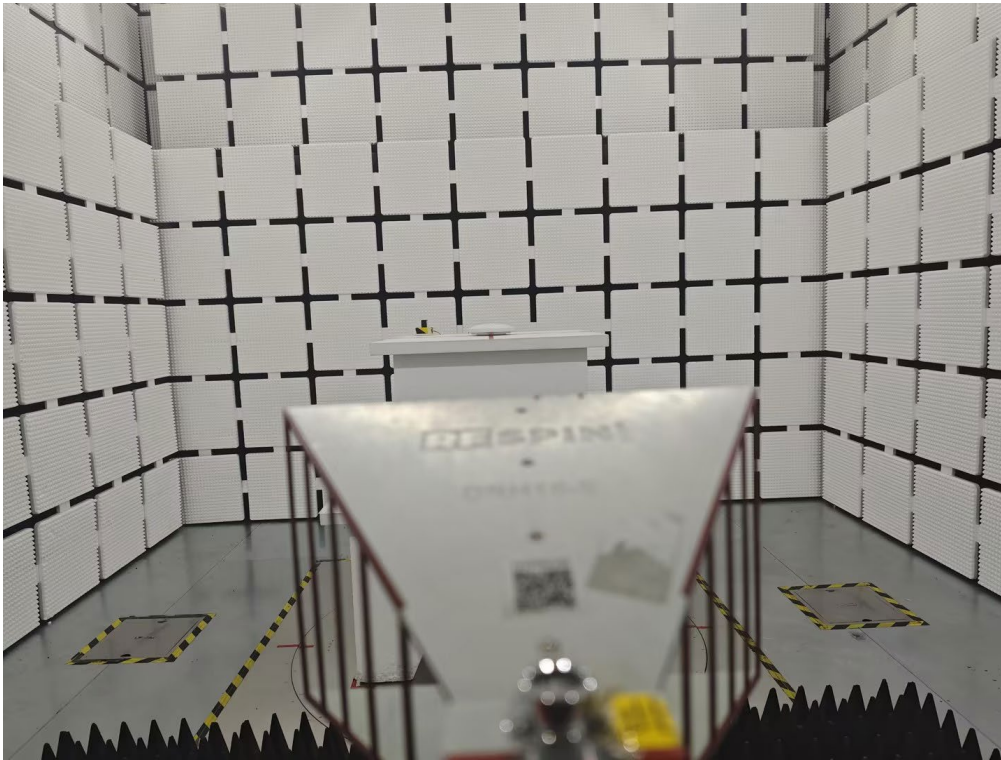
Remark: "N/A" denotes no model name, serial no. or calibration specified.

All calibration period of equipment list is one year.

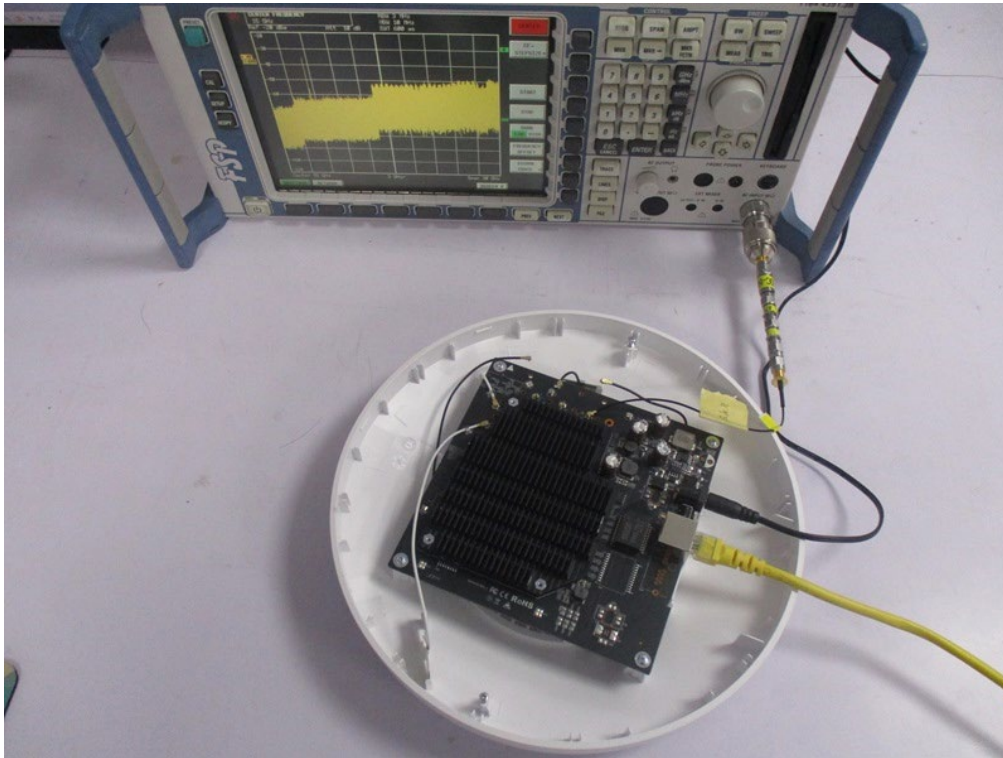
11. EUT TEST PHOTO**AC Power Line Conducted Emissions Test Photos**

Radiated Emissions Test Photos**9 kHz to 30 MHz**

Radiated Emissions Test Photos**30 MHz to 1 GHz**

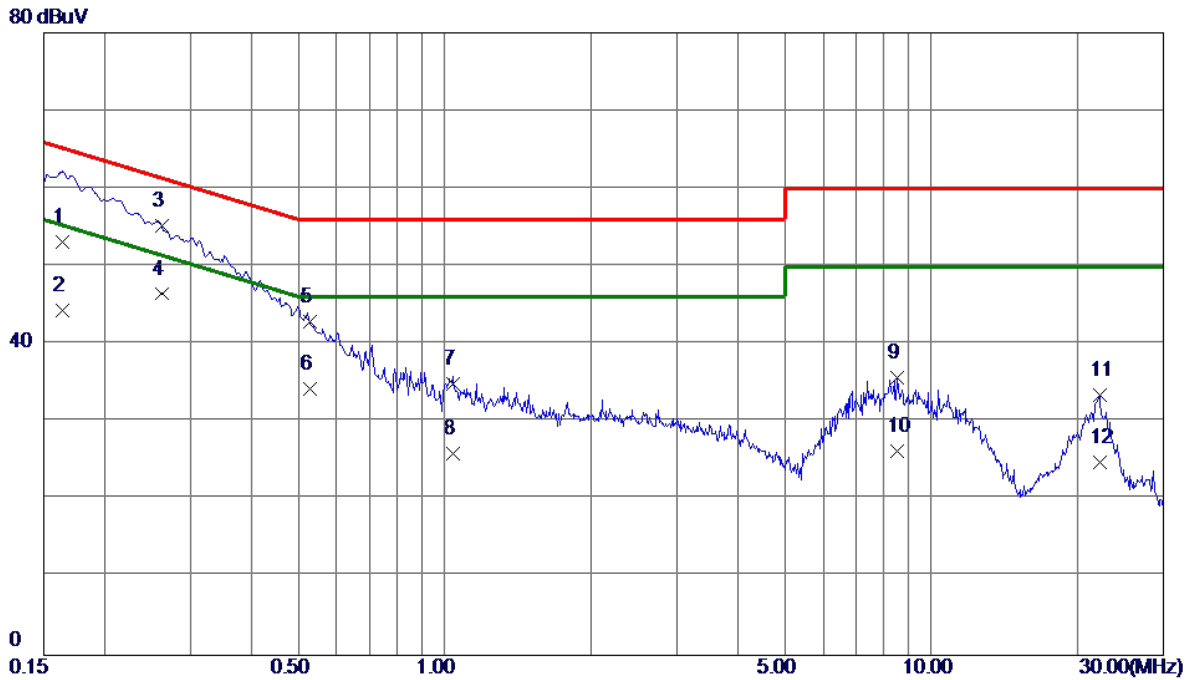
Radiated Emissions Test Photos**Above 1 GHz**

Conducted Test Photos



APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS

Test Mode	TX B Mode Channel 01	Phase	Line
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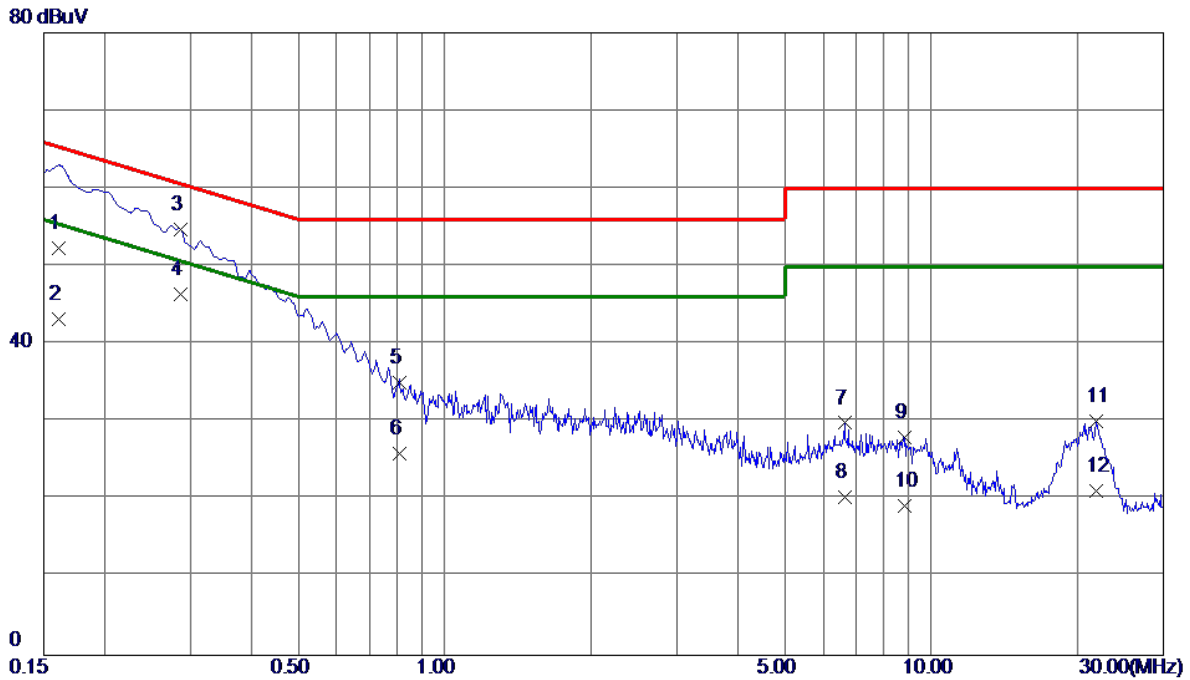


No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1635	43.50	9.68	53.18	65.28	-12.10	QP	
2	0.1635	34.60	9.68	44.28	55.28	-11.00	AVG	
3	0.2625	45.59	9.68	55.27	61.35	-6.08	QP	
4 *	0.2625	36.80	9.68	46.48	51.35	-4.87	AVG	
5	0.5280	33.14	9.70	42.84	56.00	-13.16	QP	
6	0.5280	24.60	9.70	34.30	46.00	-11.70	AVG	
7	1.0432	25.17	9.72	34.89	56.00	-21.11	QP	
8	1.0432	16.20	9.72	25.92	46.00	-20.08	AVG	
9	8.5268	25.72	9.95	35.67	60.00	-24.33	QP	
10	8.5268	16.30	9.95	26.25	50.00	-23.75	AVG	
11	22.1775	23.14	10.32	33.46	60.00	-26.54	QP	
12	22.1775	14.49	10.32	24.81	50.00	-25.19	AVG	

REMARKS:

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

Test Mode	TX B Mode Channel 01	Phase	Neutral
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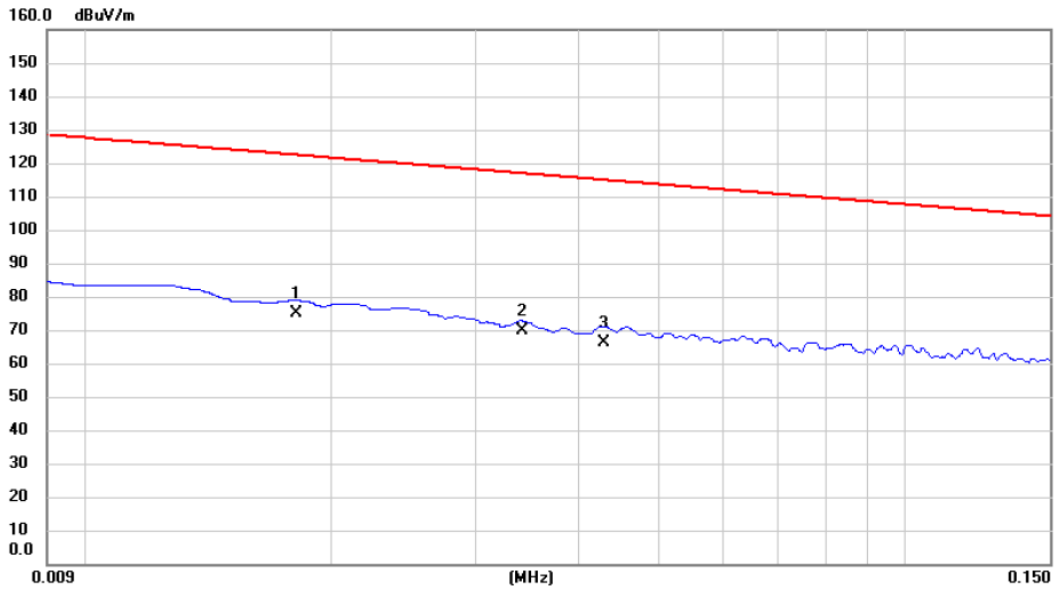
No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1613	42.60	9.66	52.26	65.40	-13.14	QP	
2	0.1613	33.50	9.66	43.16	55.40	-12.24	AVG	
3	0.2872	45.03	9.66	54.69	60.60	-5.91	QP	
4 *	0.2872	36.80	9.66	46.46	50.60	-4.14	AVG	
5	0.8092	25.39	9.68	35.07	56.00	-20.93	QP	
6	0.8092	16.30	9.68	25.98	46.00	-20.02	AVG	
7	6.6323	19.96	9.88	29.84	60.00	-30.16	QP	
8	6.6323	10.40	9.88	20.28	50.00	-29.72	AVG	
9	8.8125	18.12	9.94	28.06	60.00	-31.94	QP	
10	8.8125	9.20	9.94	19.14	50.00	-30.86	AVG	
11	21.8918	19.78	10.30	30.08	60.00	-29.92	QP	
12	21.8918	10.80	10.30	21.10	50.00	-28.90	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 01	Polarization	Ant 0°
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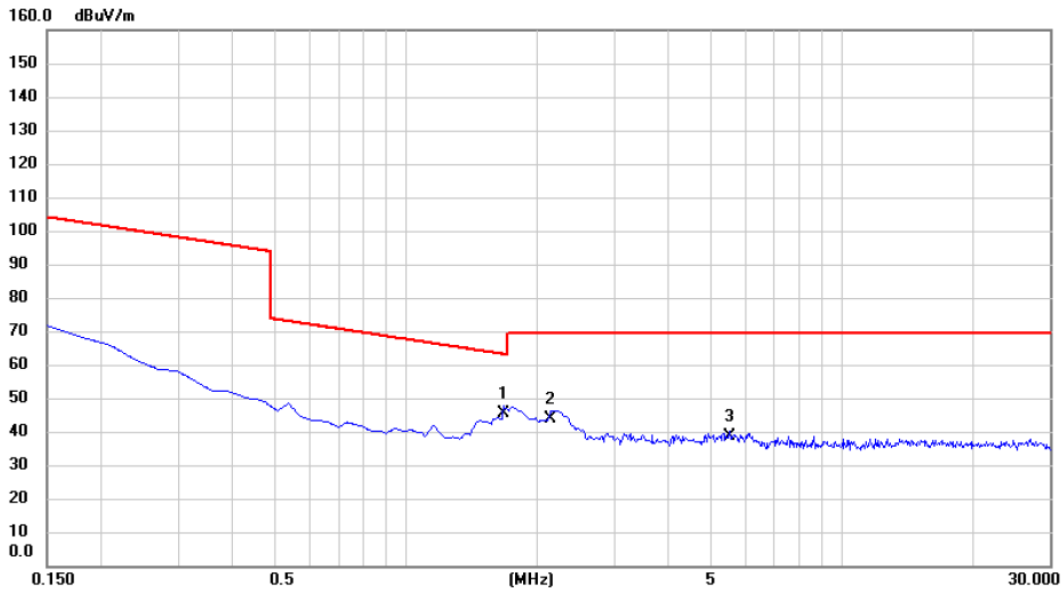


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		0.0181	54.62	20.45	75.07	122.45	-47.38	AVG	
2	*	0.0342	49.84	19.80	69.64	116.92	-47.28	AVG	
3		0.0430	46.38	19.80	66.18	114.94	-48.76	AVG	

REMARKS:

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

Test Mode	TX B Mode Channel 01	Polarization	Ant 0°
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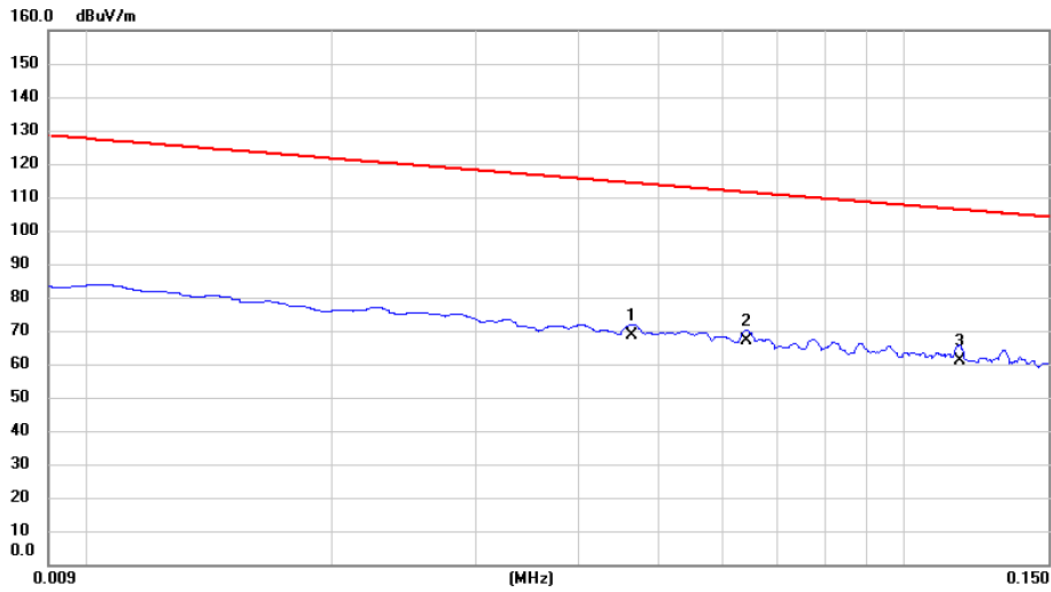


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	1.6724	25.43	19.81	45.24	63.14	-17.90	QP	
2		2.1500	24.12	19.80	43.92	69.54	-25.62	QP	
3		5.5230	18.69	19.96	38.65	69.54	-30.89	QP	

REMARKS:

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

Test Mode	TX B Mode Channel 01	Polarization	Ant 90°
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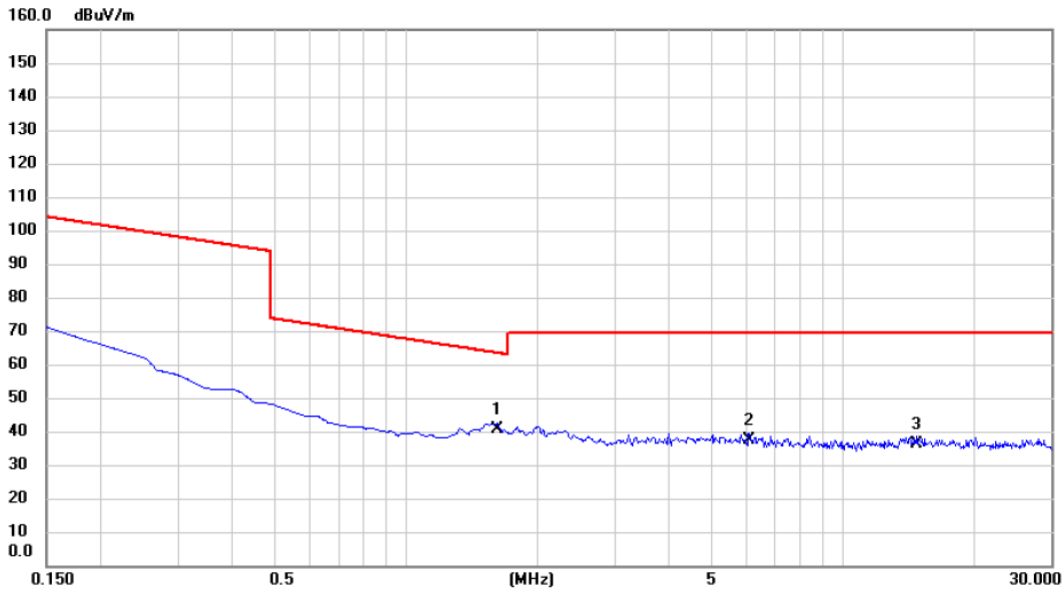


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	0.0464	48.69	19.80	68.49	114.27	-45.78	AVG	
2 *	0.0642	47.11	19.85	66.96	111.45	-44.49	AVG	
3	0.1167	41.36	19.83	61.19	106.27	-45.08	AVG	

REMARKS:

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

Test Mode	TX B Mode Channel 01	Polarization	Ant 90°
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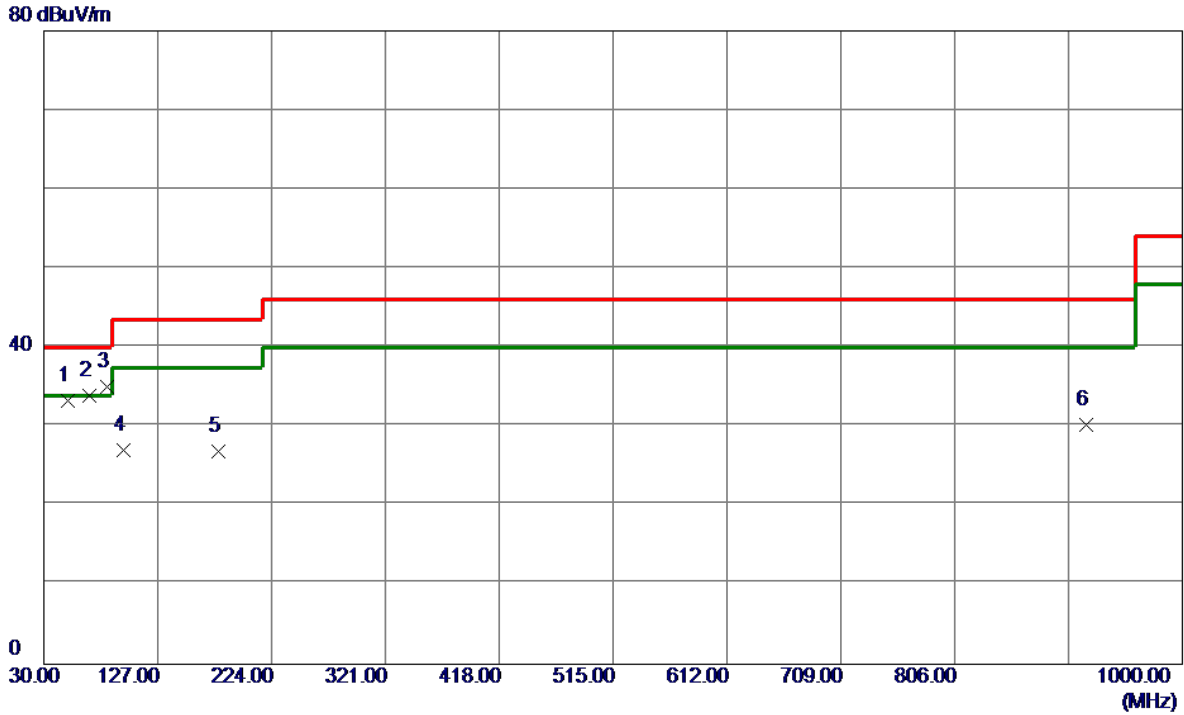
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	1.6126	20.63	19.82	40.45	63.45	-23.00	QP	
2		6.0901	17.42	19.96	37.38	69.54	-32.16	QP	
3		14.7168	16.00	20.30	36.30	69.54	-33.24	QP	

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 01	Polarization	Vertical
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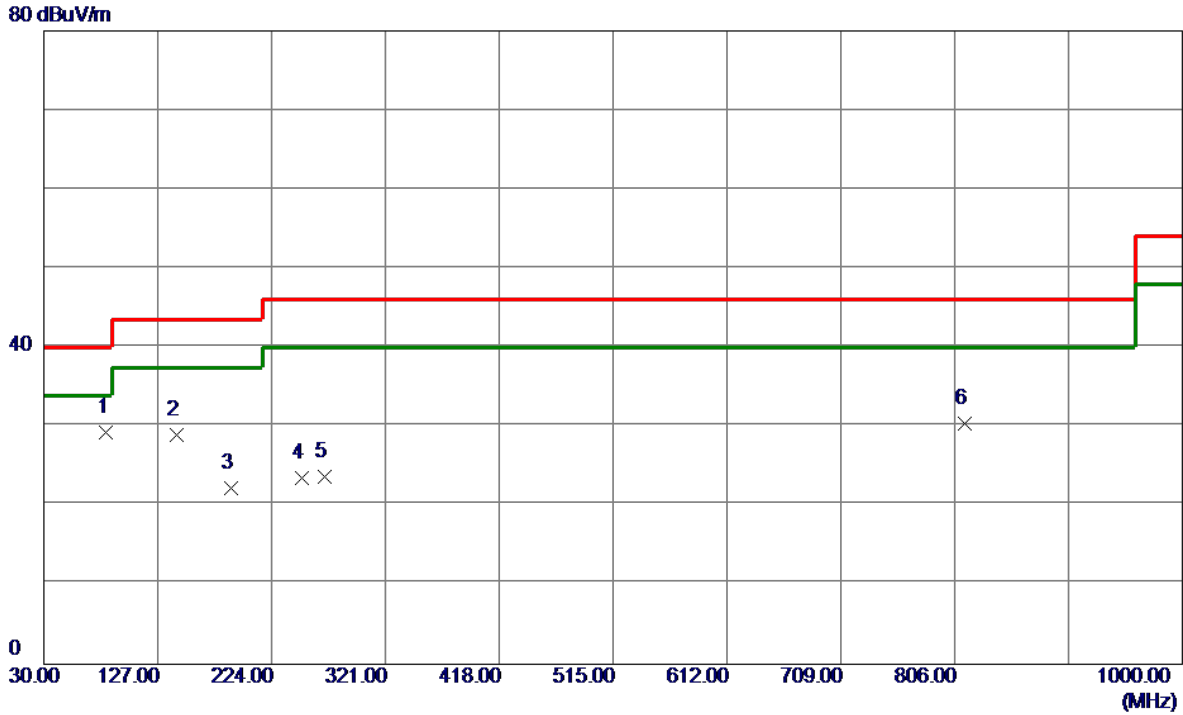


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	50.8550	45.20	-11.99	33.21	40.00	-6.79	Peak	
2	68.3150	47.71	-13.86	33.85	40.00	-6.15	Peak	
3 *	83.8350	52.33	-17.22	35.11	40.00	-4.89	Peak	
4	97.9000	43.81	-16.83	26.98	43.50	-16.52	Peak	
5	178.8950	39.89	-12.98	26.91	43.50	-16.59	Peak	
6	918.5200	30.25	-0.03	30.22	46.00	-15.78	Peak	

REMARKS:

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

Test Mode	TX B Mode Channel 01	Polarization	Horizontal
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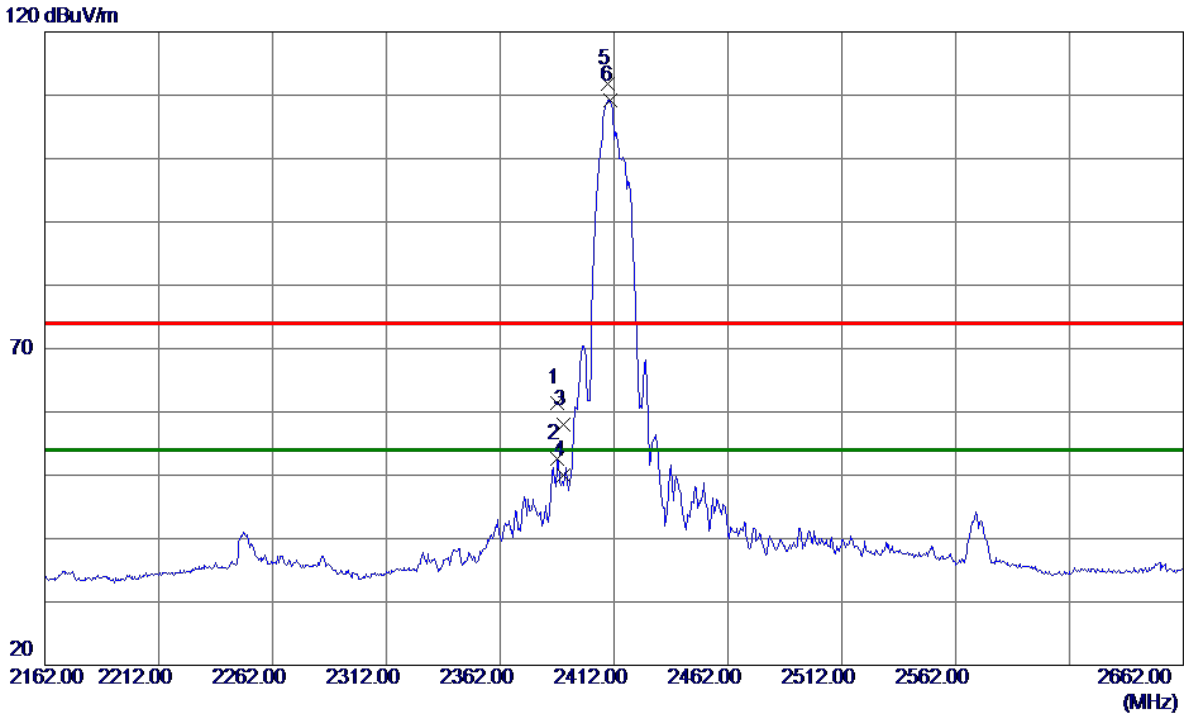
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	83.3500	46.46	-17.13	29.33	40.00	-10.67	Peak	
2	143.4900	41.09	-12.17	28.92	43.50	-14.58	Peak	
3	189.0800	36.34	-14.16	22.18	43.50	-21.32	Peak	
4	250.1900	36.56	-13.00	23.56	46.00	-22.44	Peak	
5	269.1050	35.93	-12.29	23.64	46.00	-22.36	Peak	
6	814.2450	31.39	-0.94	30.45	46.00	-15.55	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	Horizontal
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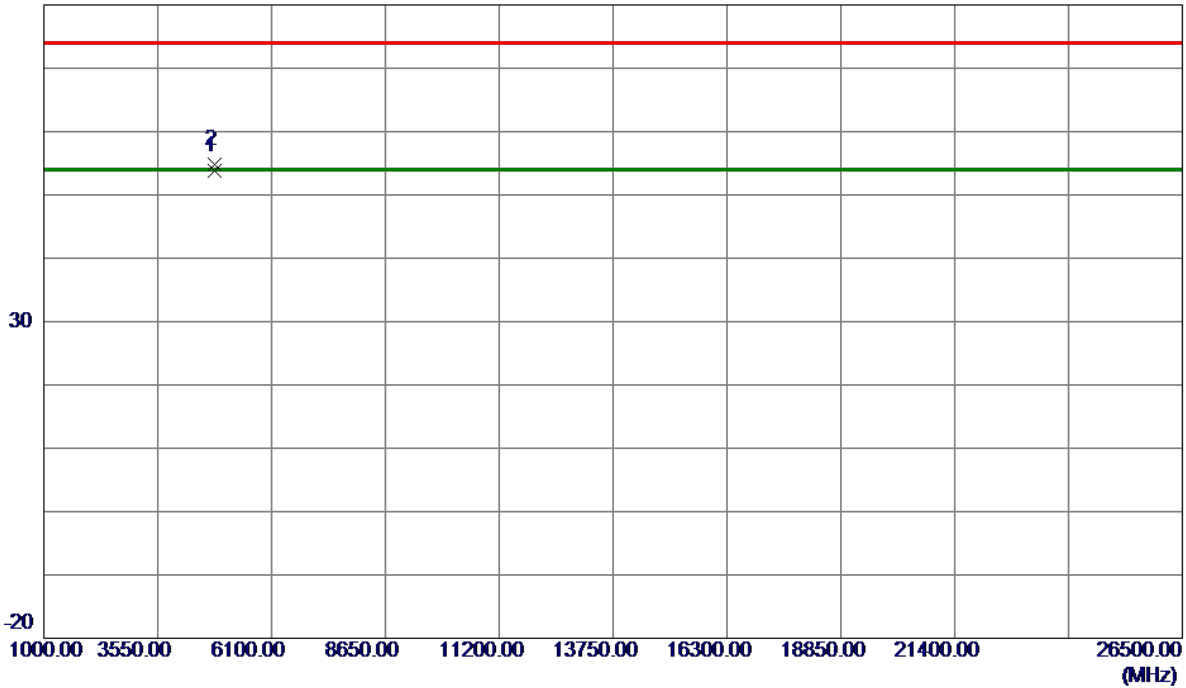
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2387.2500	56.33	5.09	61.42	74.00	-12.58	Peak	
2	2387.2500	47.46	5.09	52.55	54.00	-1.45	AVG	
3	2390.0000	52.92	5.10	58.02	74.00	-15.98	Peak	
4	2390.0000	44.90	5.10	50.00	54.00	-4.00	AVG	
5	2409.2500	106.68	5.12	111.80	74.00	37.80	Peak	No Limit
6 *	2410.2500	104.12	5.12	109.24	54.00	55.24	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	Horizontal
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80 dBuV/m

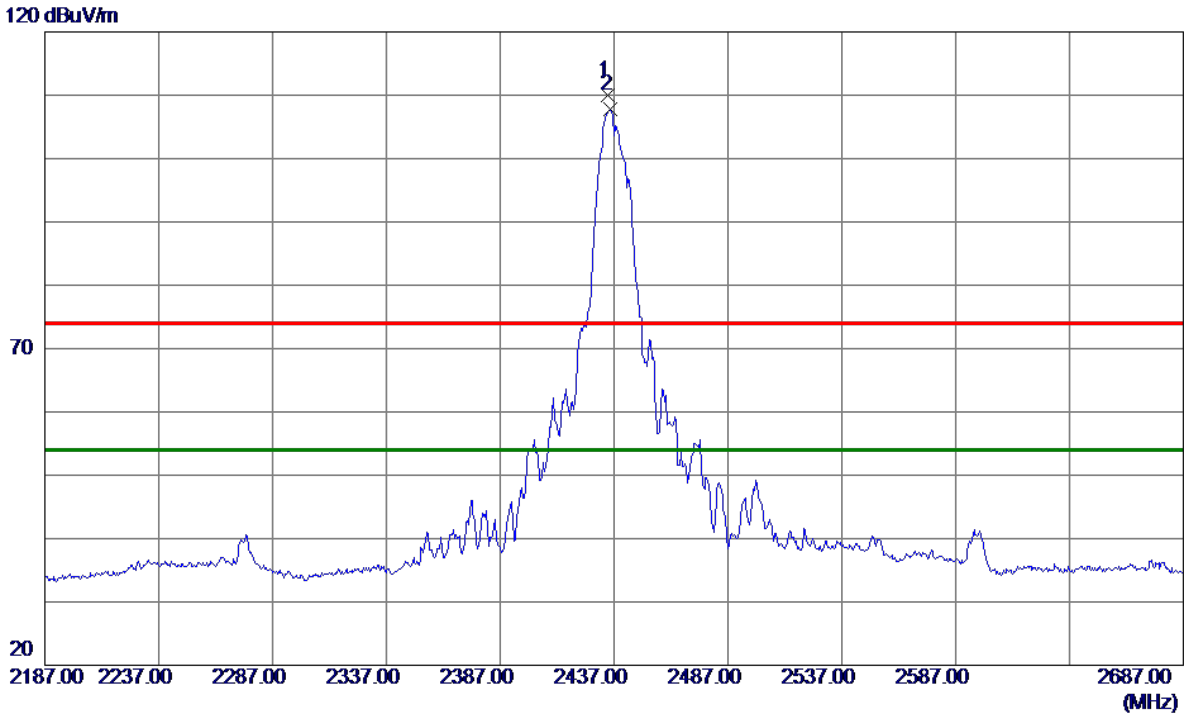


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4824.0000	52.01	1.78	53.79	54.00	-0.21	AVG	
2	4824.0500	53.09	1.78	54.87	74.00	-19.13	Peak	

REMARKS:

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

Test Mode	TX B Mode 2437 MHz	Polarization	Horizontal
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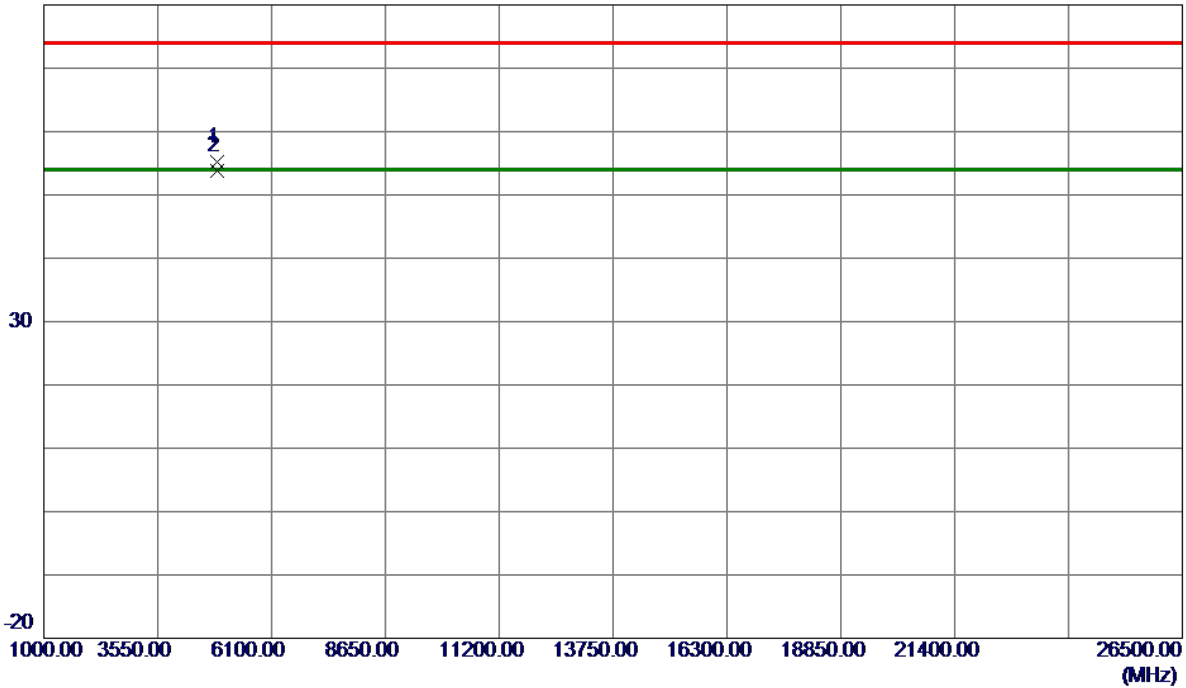
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2434.2500	104.83	5.16	109.99	74.00	35.99	Peak	No Limit
2 *	2435.2500	102.56	5.16	107.72	54.00	53.72	AVG	No Limit

REMARKS:

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

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

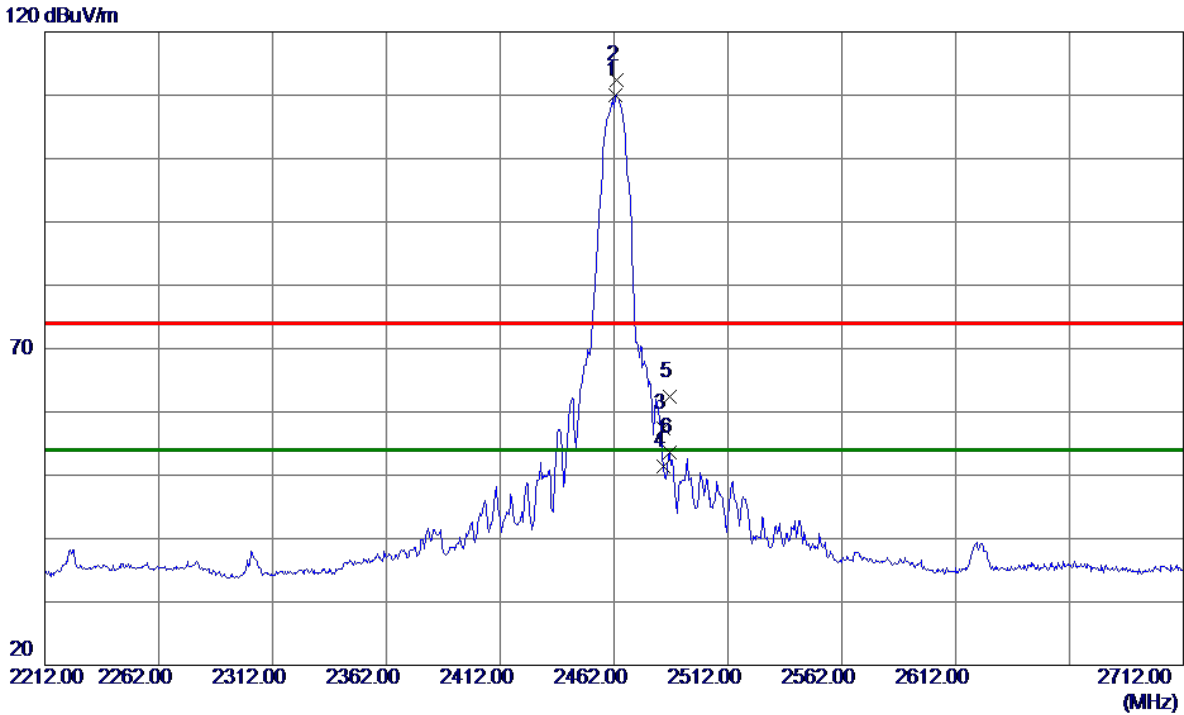


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4874.0000	53.35	1.94	55.29	74.00	-18.71	Peak	
2 *	4874.0000	51.80	1.94	53.74	54.00	-0.26	AVG	

REMARKS:

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

Test Mode	TX B Mode 2462 MHz	Polarization	Horizontal
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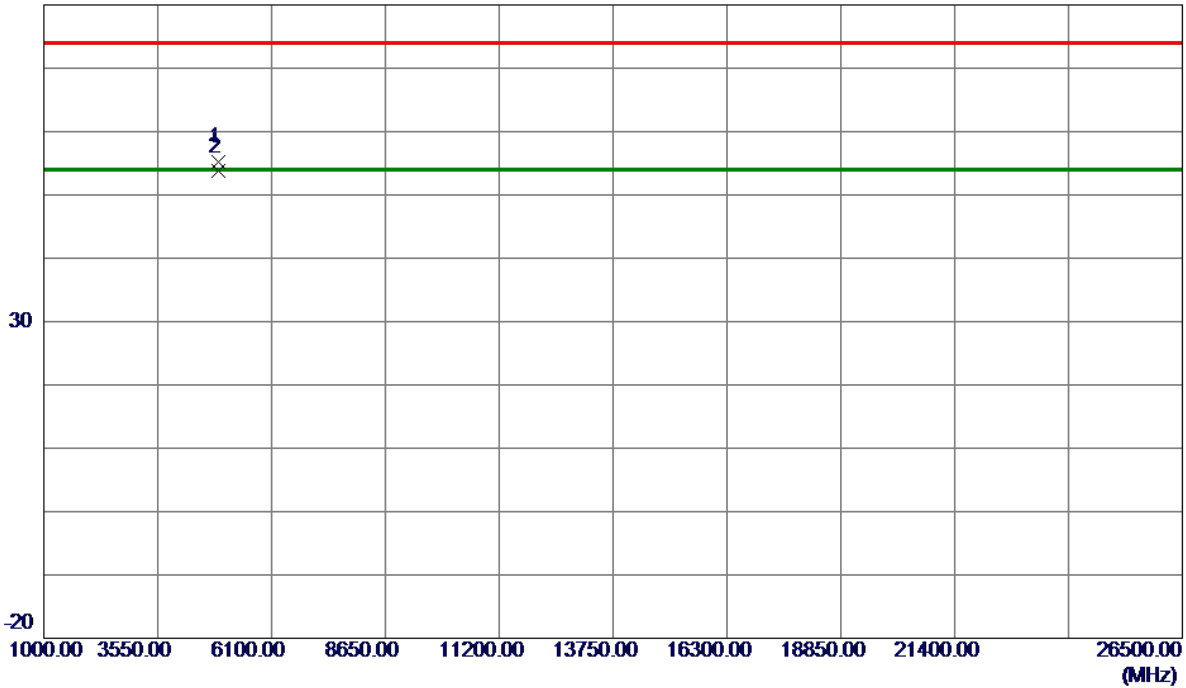
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2462.7500	104.79	5.20	109.99	54.00	55.99	AVG	No Limit
2	2463.0000	107.28	5.20	112.48	74.00	38.48	Peak	No Limit
3	2483.5000	52.24	5.23	57.47	74.00	-16.53	Peak	
4	2483.5000	46.21	5.23	51.44	54.00	-2.56	AVG	
5	2486.2500	57.23	5.24	62.47	74.00	-11.53	Peak	
6	2486.2500	48.31	5.24	53.55	54.00	-0.45	AVG	

REMARKS:

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

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

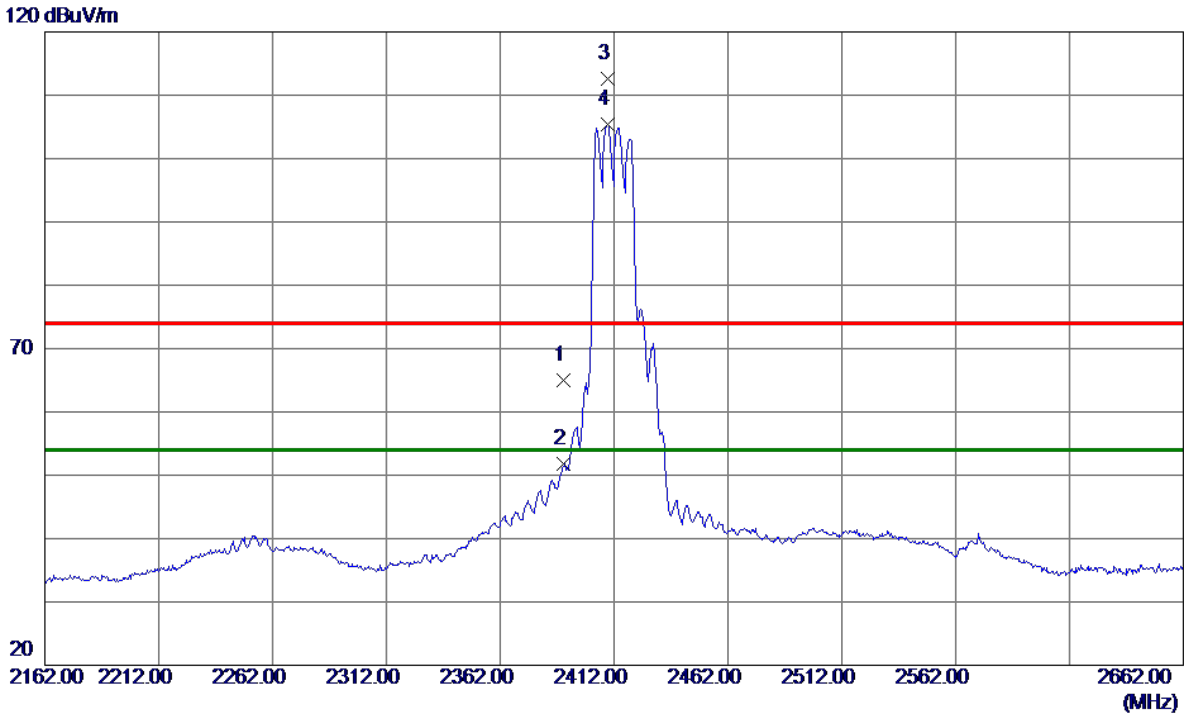


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4923.7500	53.16	2.09	55.25	74.00	-18.75	Peak	
2 *	4924.0000	51.61	2.09	53.70	54.00	-0.30	AVG	

REMARKS:

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

Test Mode	TX G Mode 2412 MHz	Polarization	Horizontal
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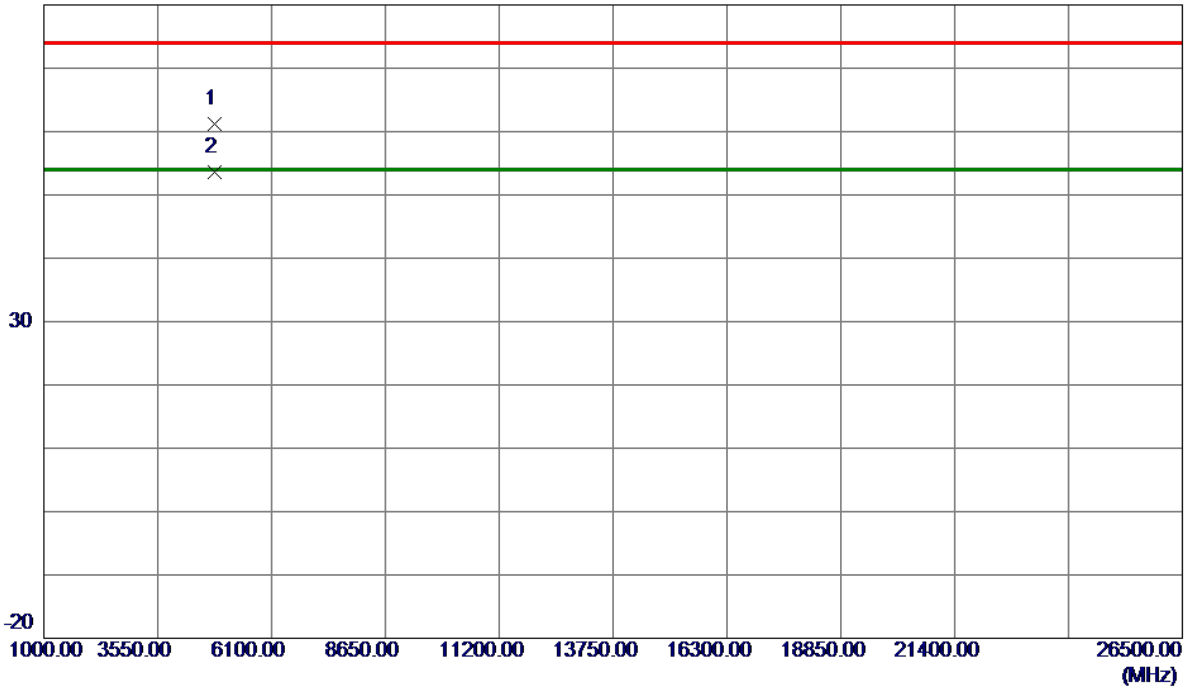
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	59.99	5.10	65.09	74.00	-8.91	Peak	
2	2390.0000	46.63	5.10	51.73	54.00	-2.27	AVG	
3	2409.0000	107.40	5.12	112.52	74.00	38.52	Peak	No Limit
4 *	2409.2500	100.27	5.12	105.39	54.00	51.39	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	Horizontal
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80 dBuV/m

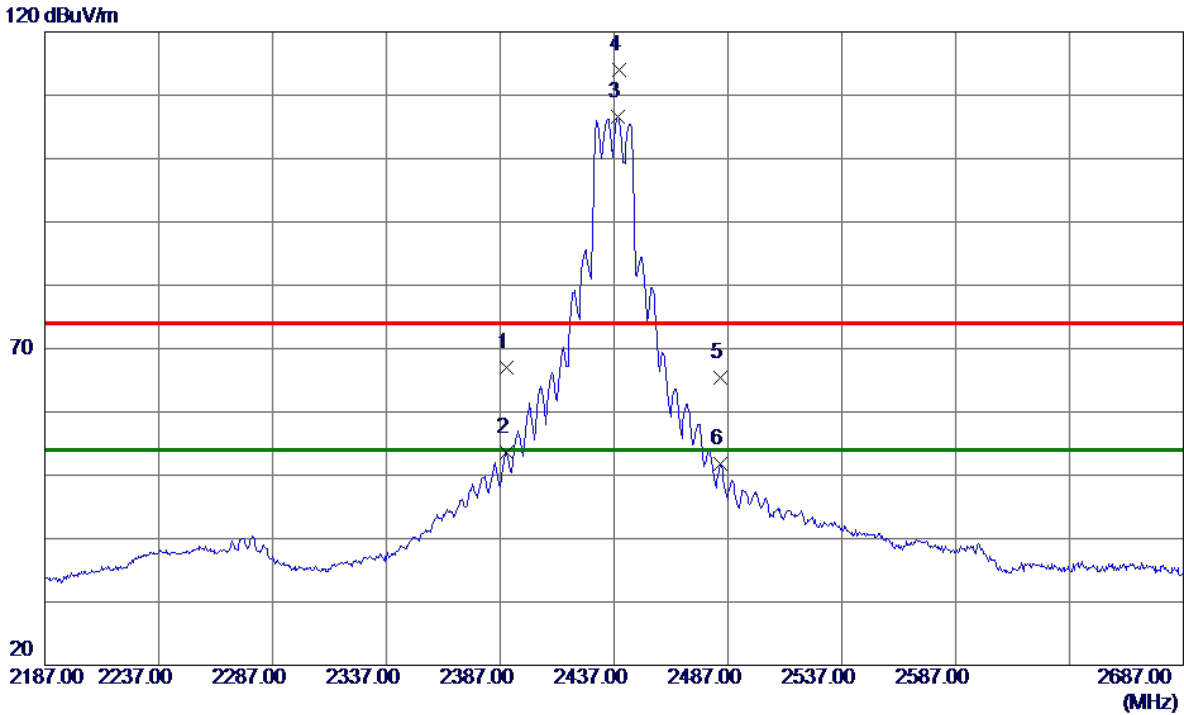


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4818.5000	59.36	1.77	61.13	74.00	-12.87	Peak	
2 *	4824.5000	51.77	1.79	53.56	54.00	-0.44	AVG	

REMARKS:

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

Test Mode	TX G Mode 2437 MHz	Polarization	Horizontal
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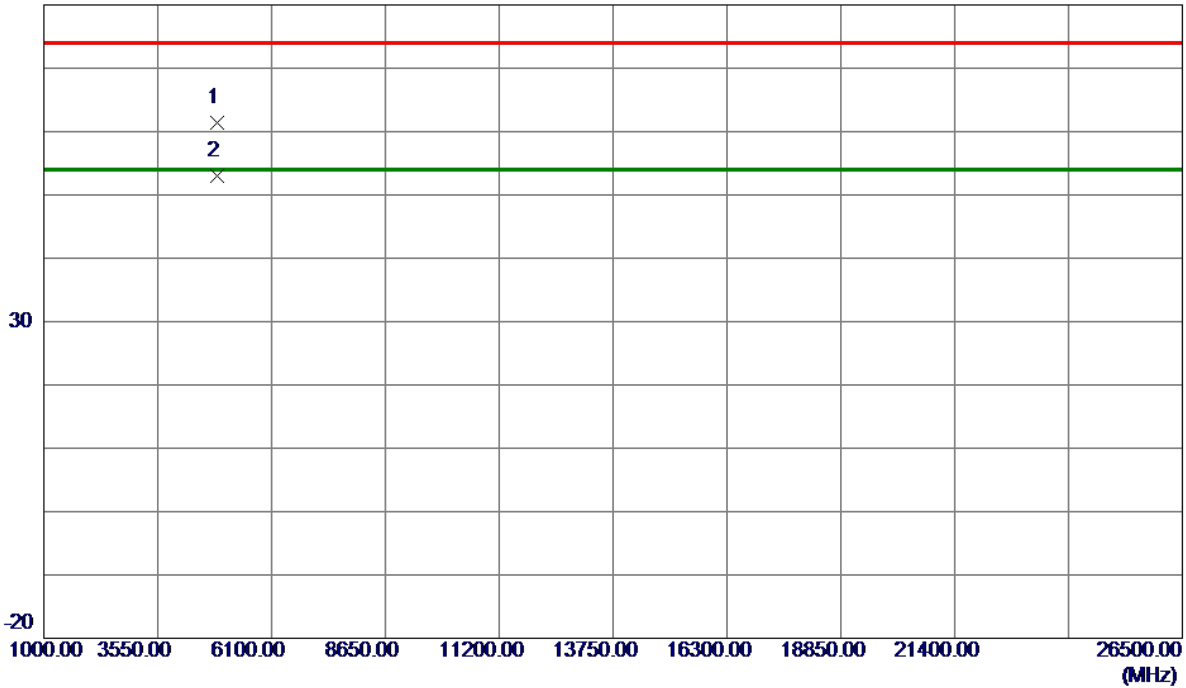
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	61.95	5.10	67.05	74.00	-6.95	Peak	
2	2390.0000	48.46	5.10	53.56	54.00	-0.44	AVG	
3 *	2438.7500	101.34	5.17	106.51	54.00	52.51	AVG	No Limit
4	2439.0000	108.84	5.17	114.01	74.00	40.01	Peak	No Limit
5	2483.5000	60.25	5.23	65.48	74.00	-8.52	Peak	
6	2483.5000	46.57	5.23	51.80	54.00	-2.20	AVG	

REMARKS:

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

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

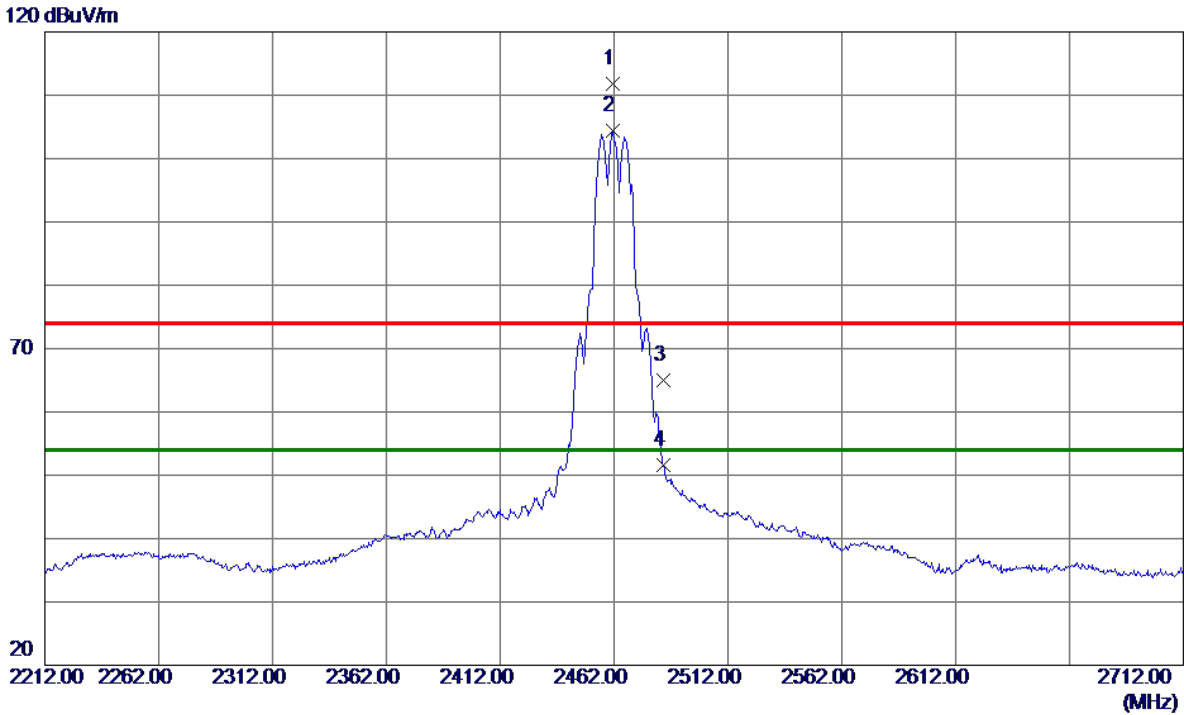


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4874.5000	59.50	1.94	61.44	74.00	-12.56	Peak	
2 *	4874.5000	51.07	1.94	53.01	54.00	-0.99	AVG	

REMARKS:

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

Test Mode	TX G Mode 2462 MHz	Polarization	Horizontal
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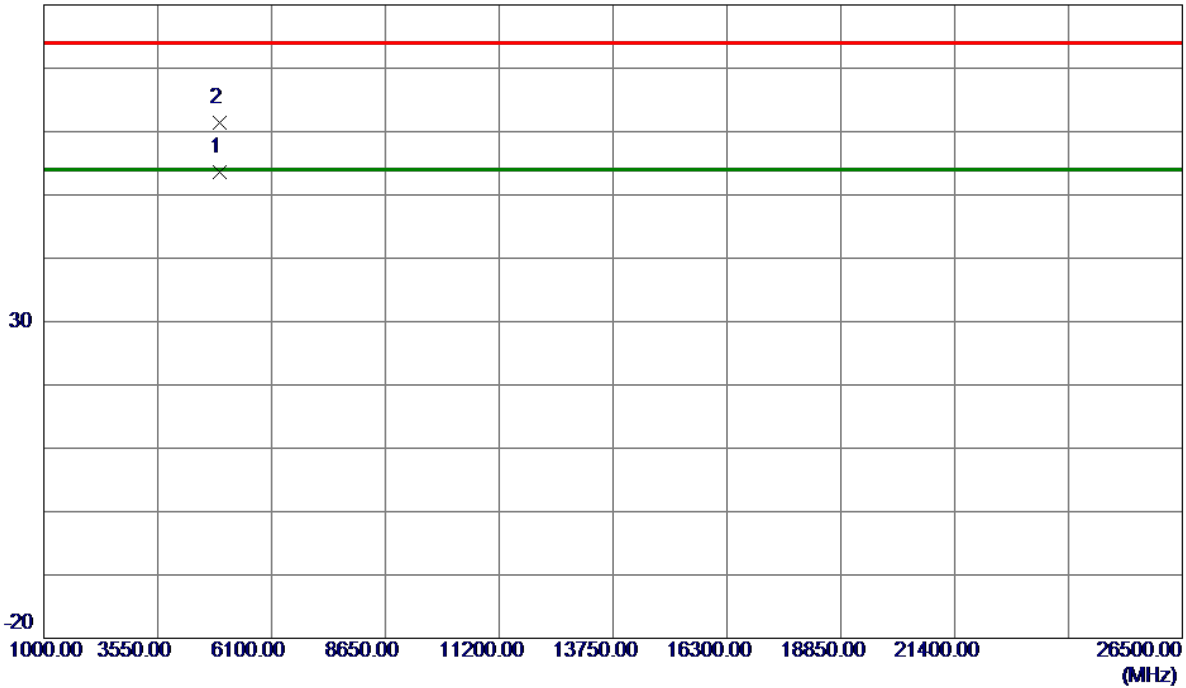
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2461.2500	106.64	5.20	111.84	74.00	37.84	Peak	No Limit
2 *	2461.2500	99.19	5.20	104.39	54.00	50.39	AVG	No Limit
3	2483.5000	59.80	5.23	65.03	74.00	-8.97	Peak	
4	2483.5000	46.42	5.23	51.65	54.00	-2.35	AVG	

REMARKS:

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

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

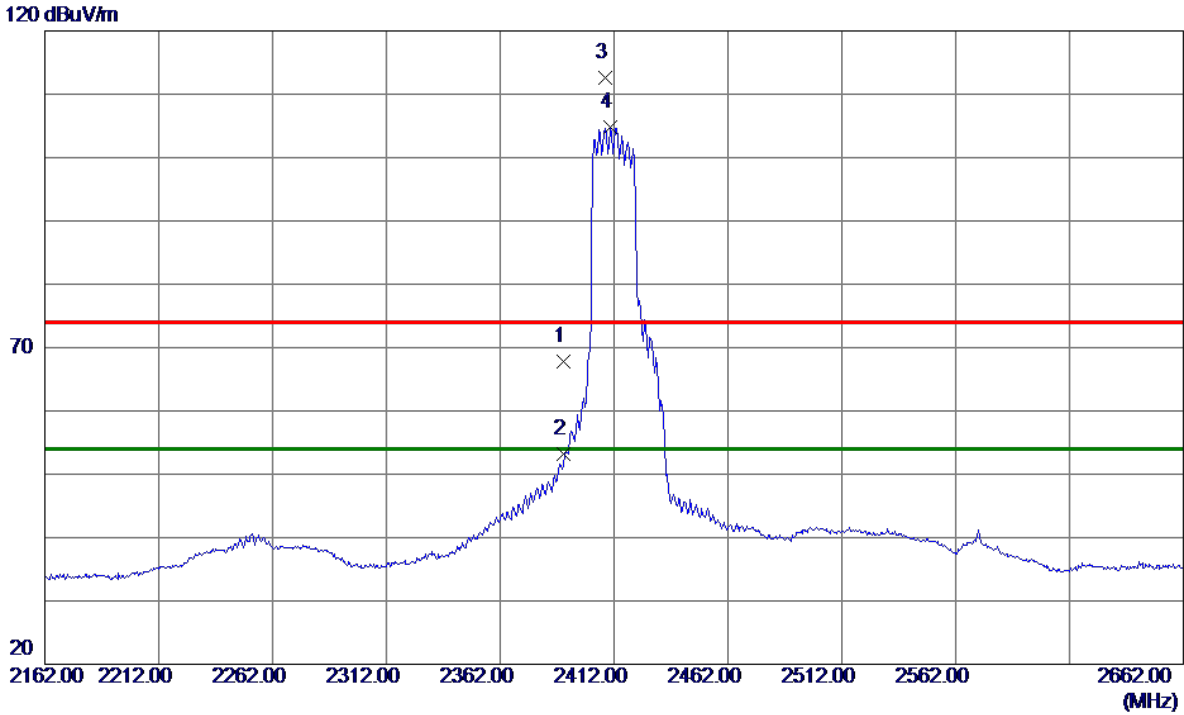


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4924.7500	51.50	2.09	53.59	54.00	-0.41	AVG	
2	4925.0000	59.34	2.09	61.43	74.00	-12.57	Peak	

REMARKS:

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

Test Mode	TX N(HT20) Mode 2412 MHz	Polarization	Horizontal
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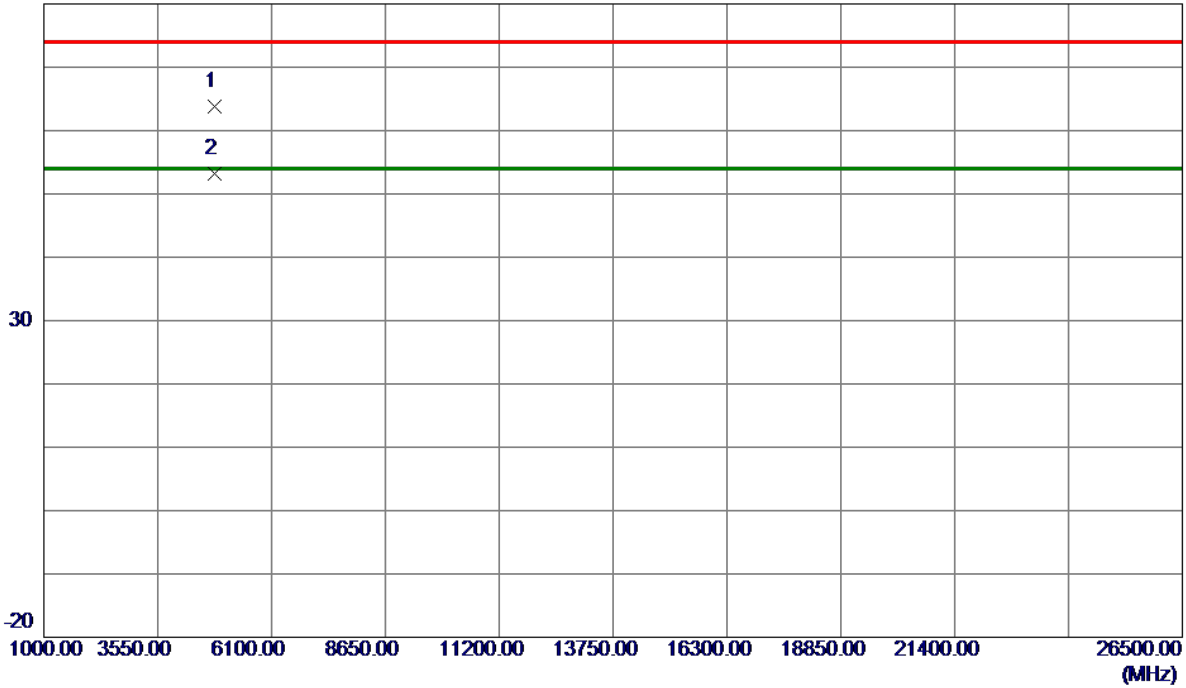
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	62.71	5.10	67.81	74.00	-6.19	Peak	
2	2390.0000	48.15	5.10	53.25	54.00	-0.75	AVG	
3	2408.0000	107.50	5.12	112.62	74.00	38.62	Peak	No Limit
4 *	2410.5000	99.60	5.13	104.73	54.00	50.73	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	Horizontal
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80 dBuV/m

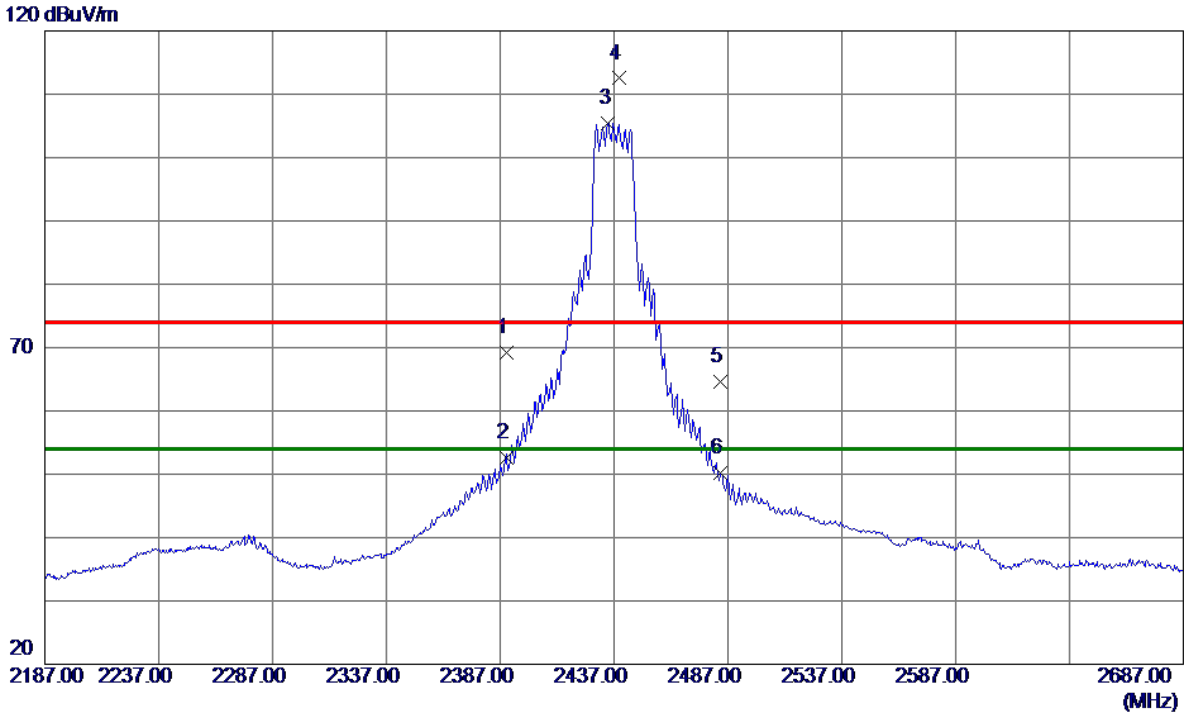


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4819.0000	62.06	1.77	63.83	74.00	-10.17	Peak	
2 *	4824.0000	51.39	1.78	53.17	54.00	-0.83	AVG	

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.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	64.14	5.10	69.24	74.00	-4.76	Peak	
2	2390.0000	47.47	5.10	52.57	54.00	-1.43	AVG	
3 *	2434.5000	100.25	5.16	105.41	54.00	51.41	AVG	No Limit
4	2439.2500	107.33	5.17	112.50	74.00	38.50	Peak	No Limit
5	2483.5000	59.40	5.23	64.63	74.00	-9.37	Peak	
6	2483.5000	44.93	5.23	50.16	54.00	-3.84	AVG	

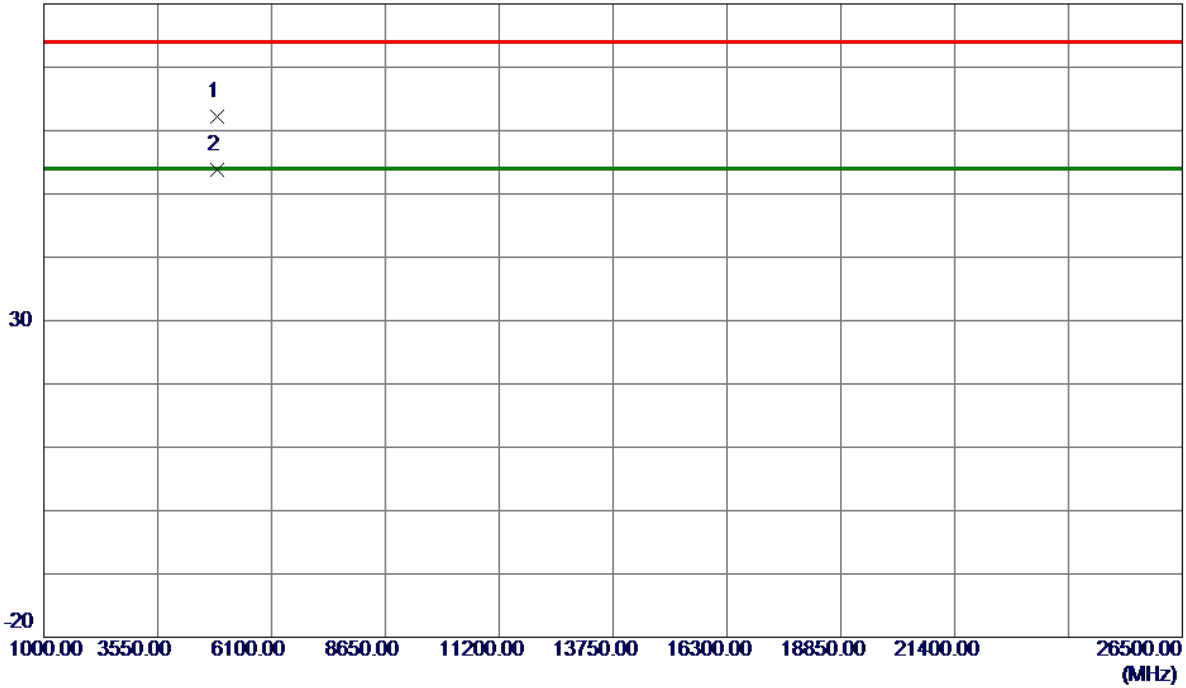
REMARKS:

(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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80 dBuV/m

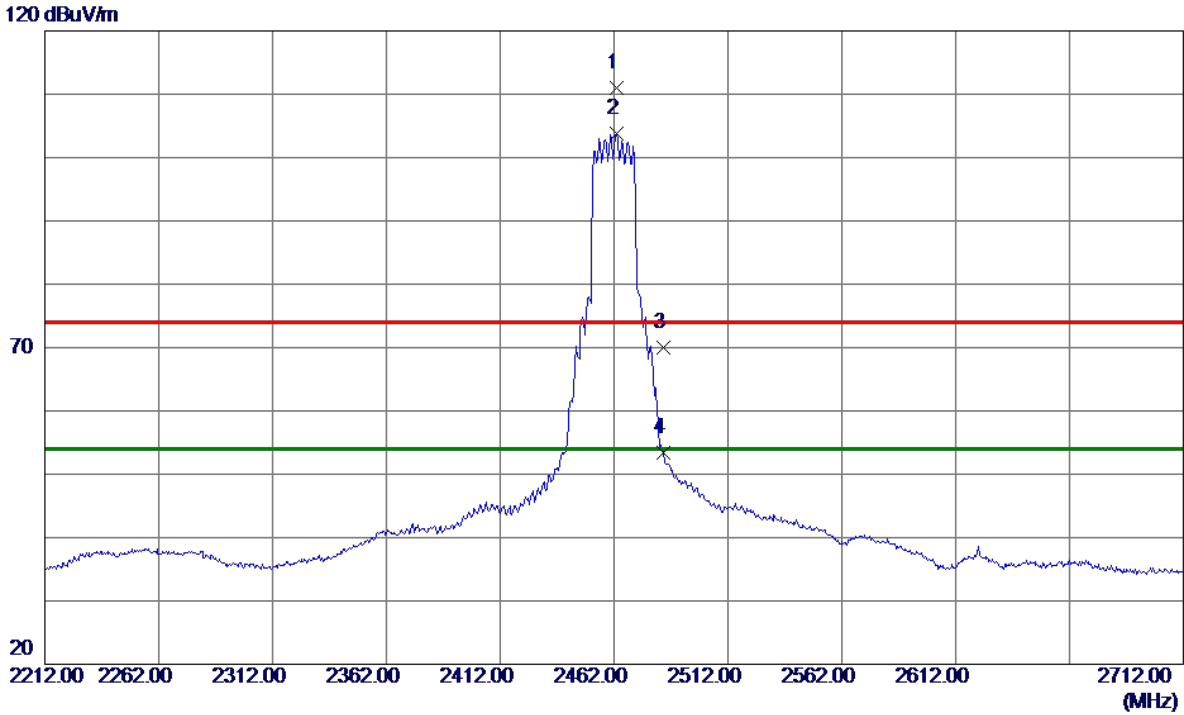


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4871.7500	60.19	1.93	62.12	74.00	-11.88	Peak	
2 *	4874.2500	51.93	1.94	53.87	54.00	-0.13	AVG	

REMARKS:

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

Test Mode	TX N(HT20) Mode 2462 MHz	Polarization	Horizontal
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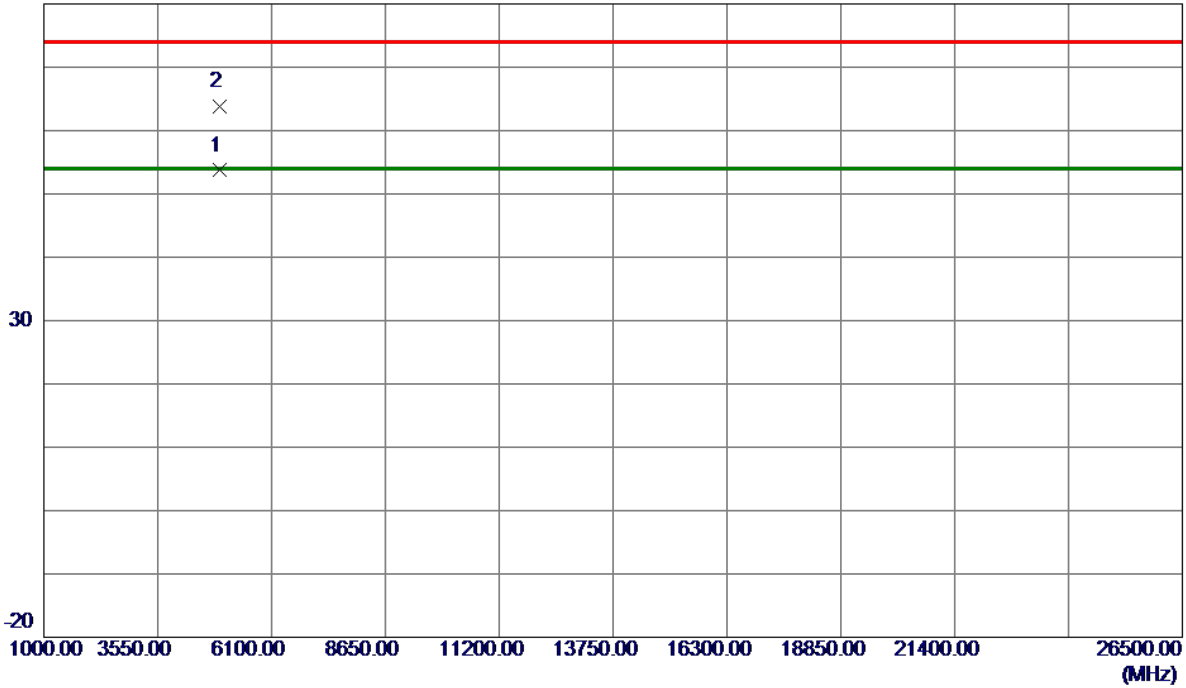
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2463.0000	105.77	5.20	110.97	74.00	36.97	Peak	No Limit
2 *	2463.0000	98.66	5.20	103.86	54.00	49.86	AVG	No Limit
3	2483.5000	64.80	5.23	70.03	74.00	-3.97	Peak	
4	2483.5000	48.22	5.23	53.45	54.00	-0.55	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	Horizontal
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80 dBuV/m

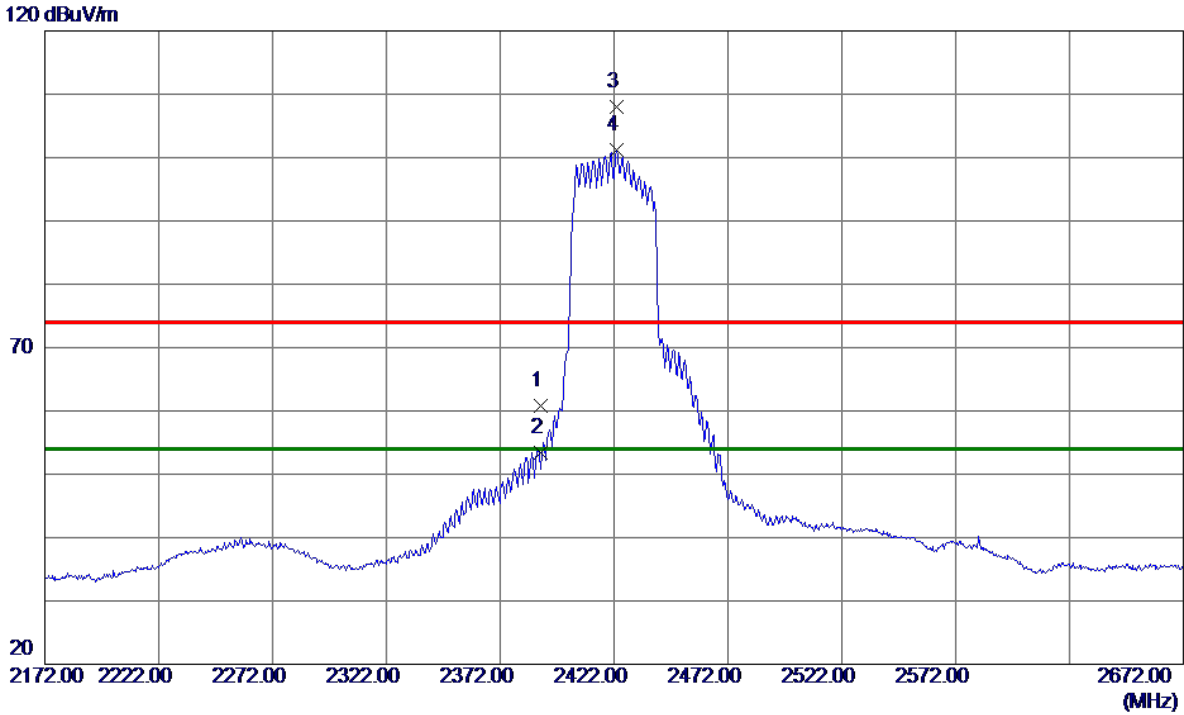


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4924.2500	51.61	2.09	53.70	54.00	-0.30	AVG	
2	4924.5000	61.79	2.09	63.88	74.00	-10.12	Peak	

REMARKS:

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

Test Mode	TX N(HT40) Mode 2422 MHz	Polarization	Horizontal
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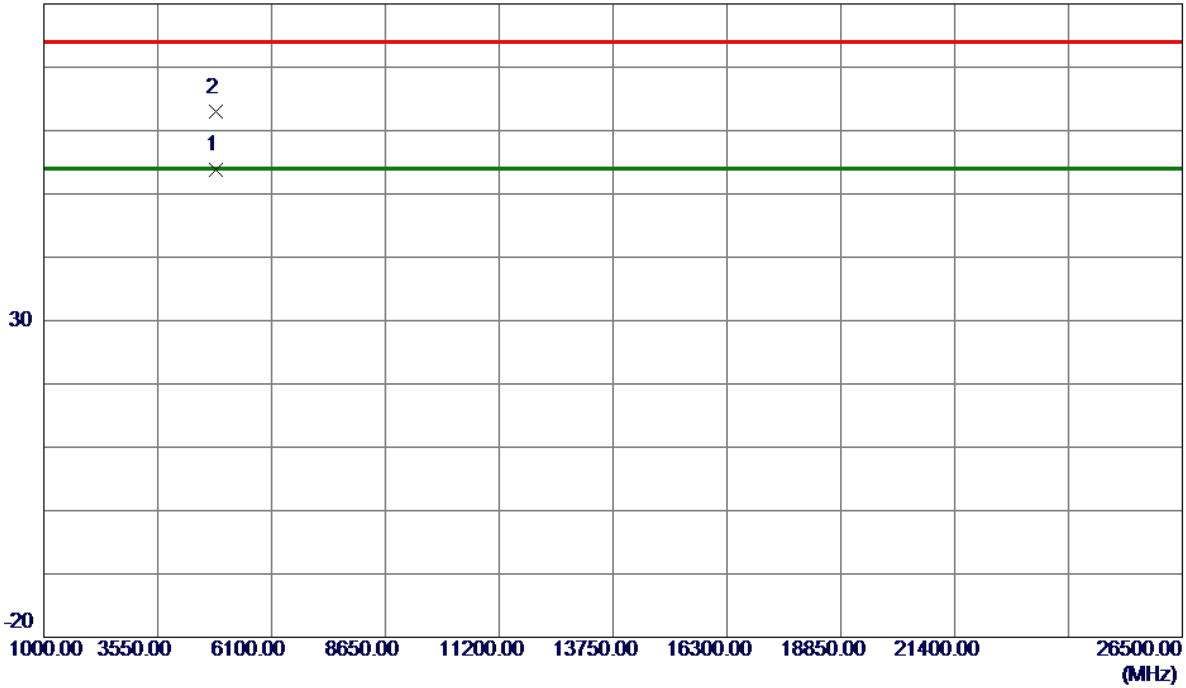
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	55.73	5.10	60.83	74.00	-13.17	Peak	
2	2390.0000	48.27	5.10	53.37	54.00	-0.63	AVG	
3	2423.0000	102.82	5.14	107.96	74.00	33.96	Peak	No Limit
4 *	2423.0000	95.98	5.14	101.12	54.00	47.12	AVG	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	Horizontal
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80 dBuV/m

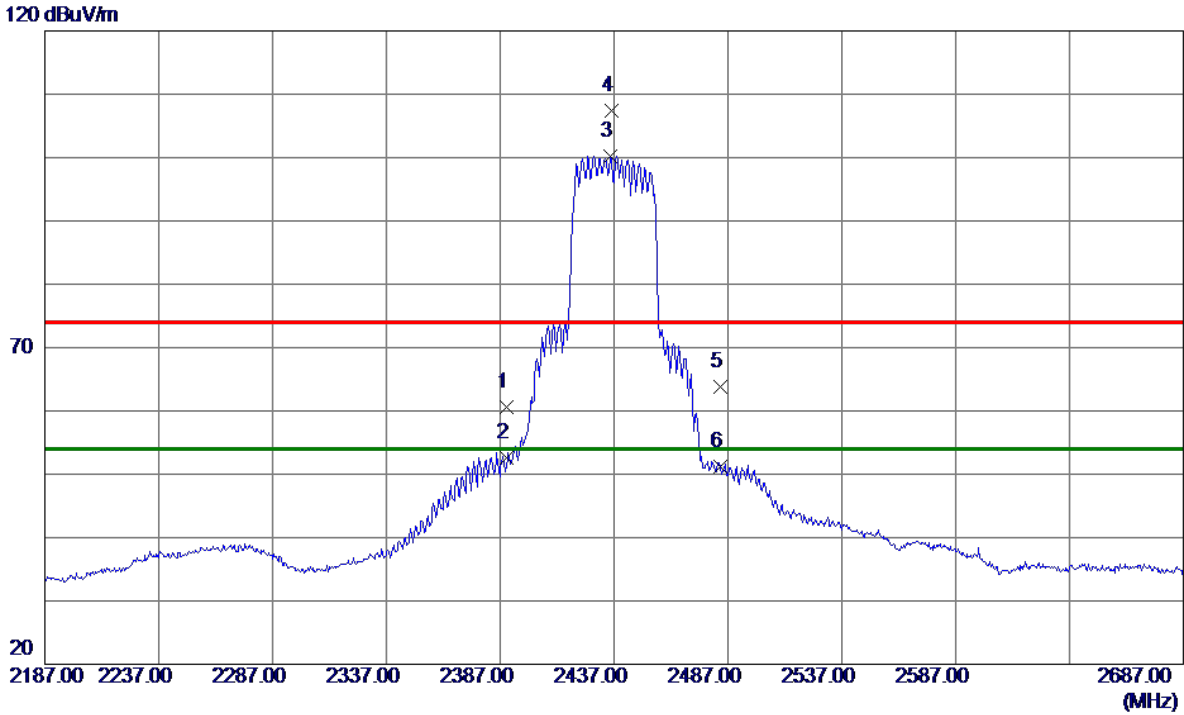


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4849.0000	51.95	1.86	53.81	54.00	-0.19	AVG	
2	4851.7500	61.03	1.87	62.90	74.00	-11.10	Peak	

REMARKS:

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

Test Mode	TX N(HT40) Mode 2437 MHz	Polarization	Horizontal
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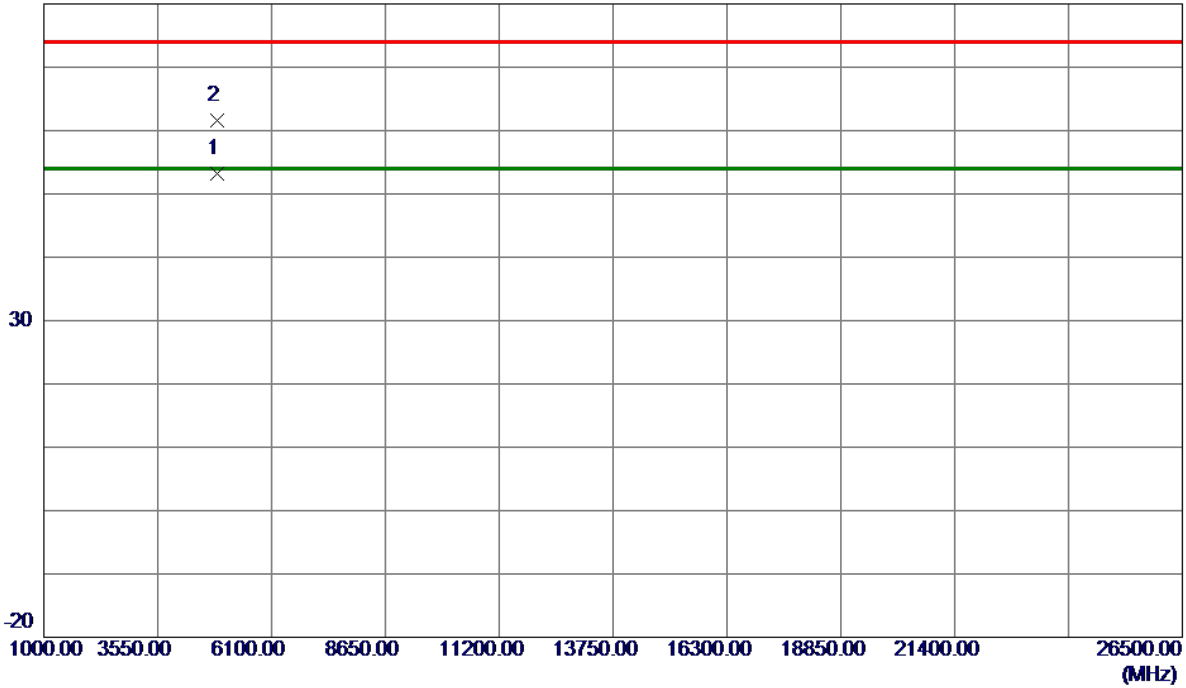
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	55.44	5.10	60.54	74.00	-13.46	Peak	
2	2390.0000	47.54	5.10	52.64	54.00	-1.36	AVG	
3 *	2435.5000	95.07	5.16	100.23	54.00	46.23	AVG	No Limit
4	2435.7500	102.27	5.16	107.43	74.00	33.43	Peak	No Limit
5	2483.5000	58.66	5.23	63.89	74.00	-10.11	Peak	
6	2483.5000	45.89	5.23	51.12	54.00	-2.88	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	Horizontal
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80 dBuV/m

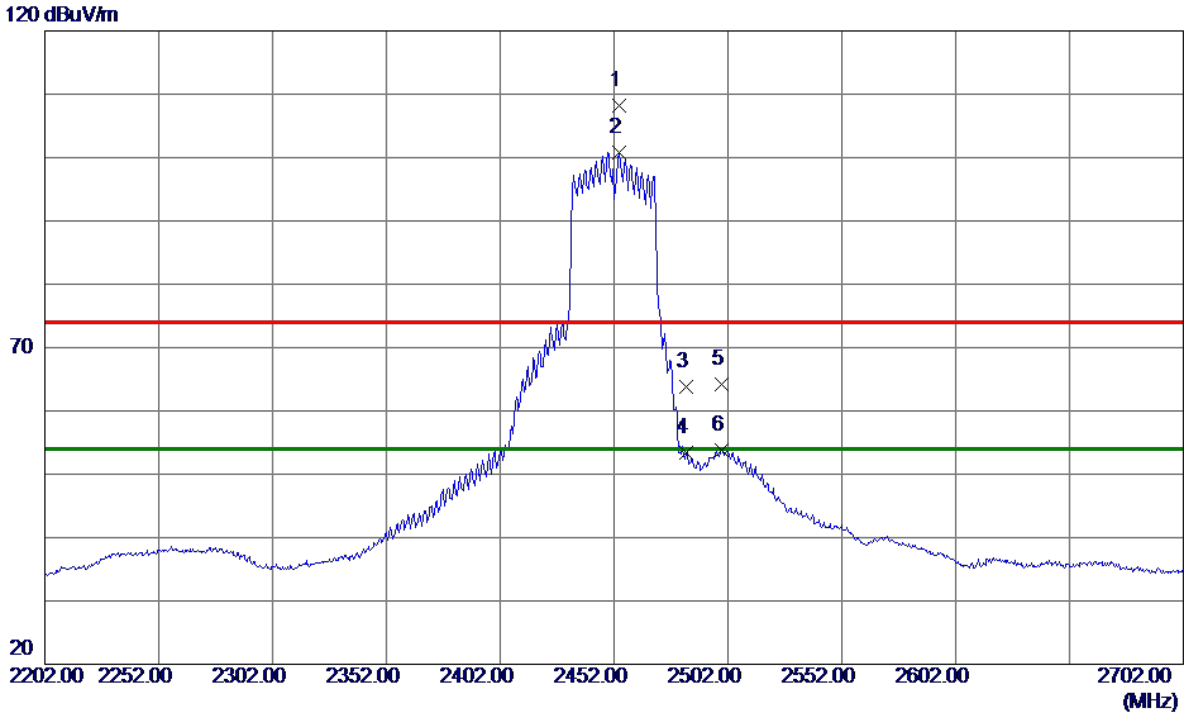


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4874.2500	51.33	1.94	53.27	54.00	-0.73	AVG	
2	4881.5000	59.72	1.96	61.68	74.00	-12.32	Peak	

REMARKS:

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

Test Mode	TX N(HT40) Mode 2452 MHz	Polarization	Horizontal
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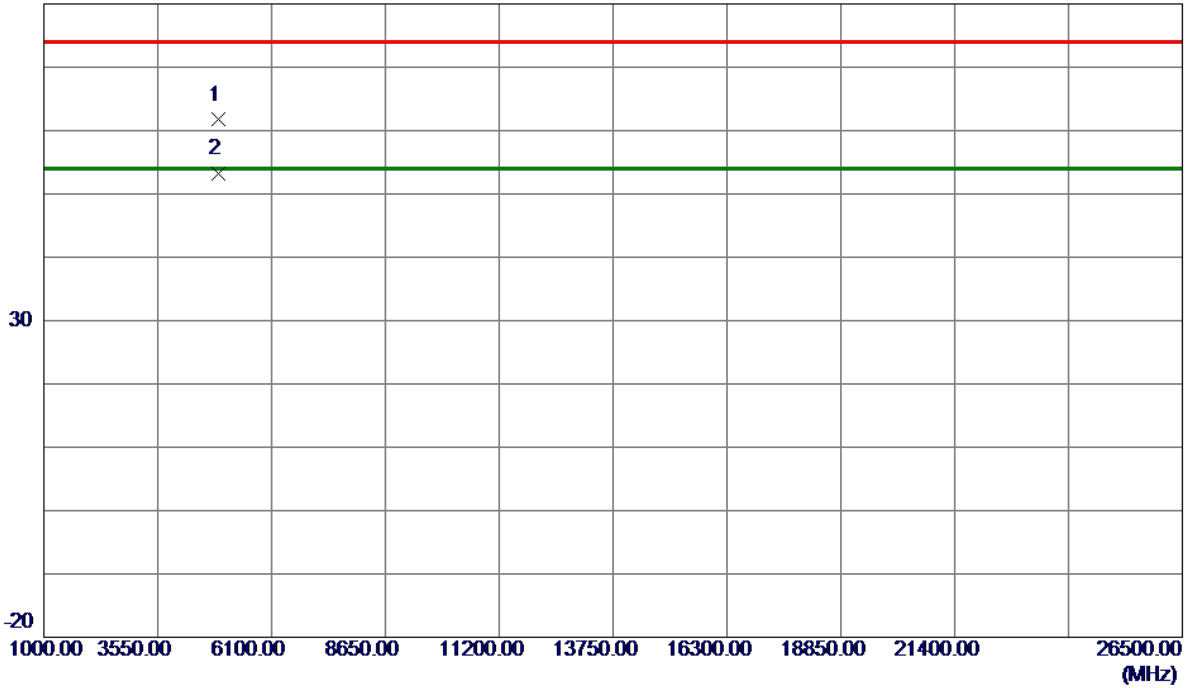
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2454.2500	102.98	5.19	108.17	74.00	34.17	Peak	No Limit
2 *	2454.2500	95.67	5.19	100.86	54.00	46.86	AVG	No Limit
3	2483.5000	58.60	5.23	63.83	74.00	-10.17	Peak	
4	2483.5000	48.12	5.23	53.35	54.00	-0.65	AVG	
5	2499.2500	58.86	5.25	64.11	74.00	-9.89	Peak	
6	2499.2500	48.57	5.25	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 N(HT40) Mode 2452 MHz	Polarization	Horizontal
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80 dBuV/m

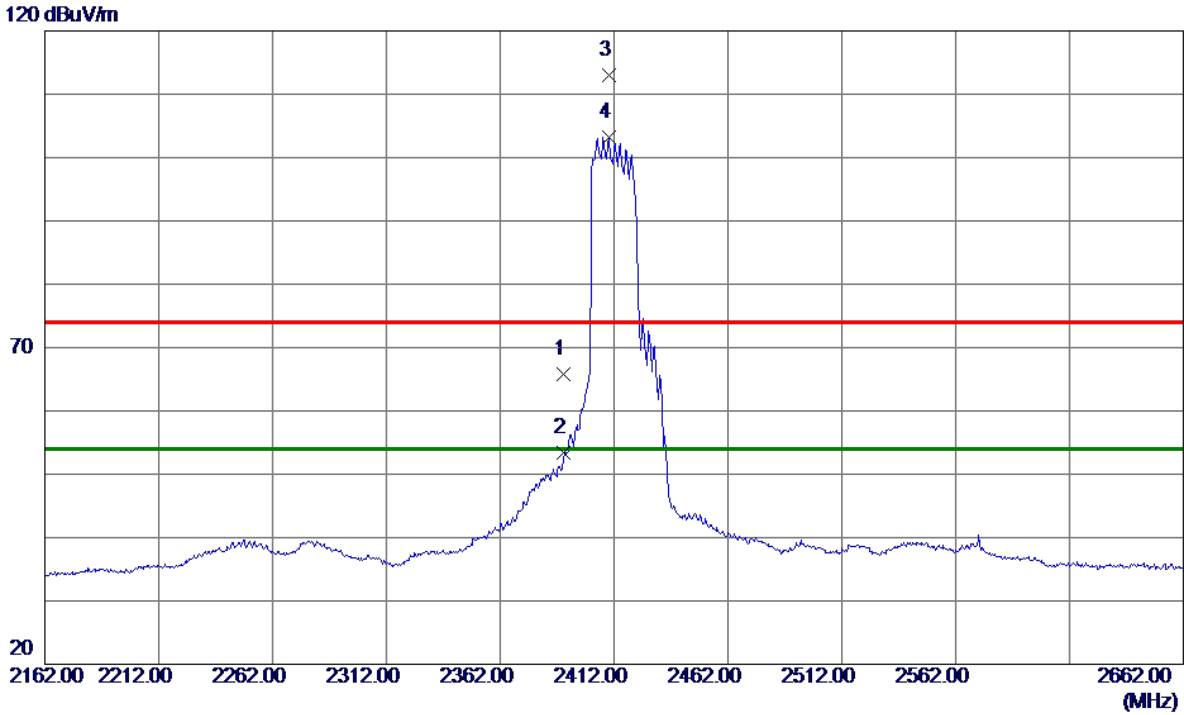


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4899.0000	59.69	2.01	61.70	74.00	-12.30	Peak	
2 *	4901.7500	51.16	2.02	53.18	54.00	-0.82	AVG	

REMARKS:

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

Test Mode	TX AX(HE20) Mode 2412 MHz	Polarization	Horizontal
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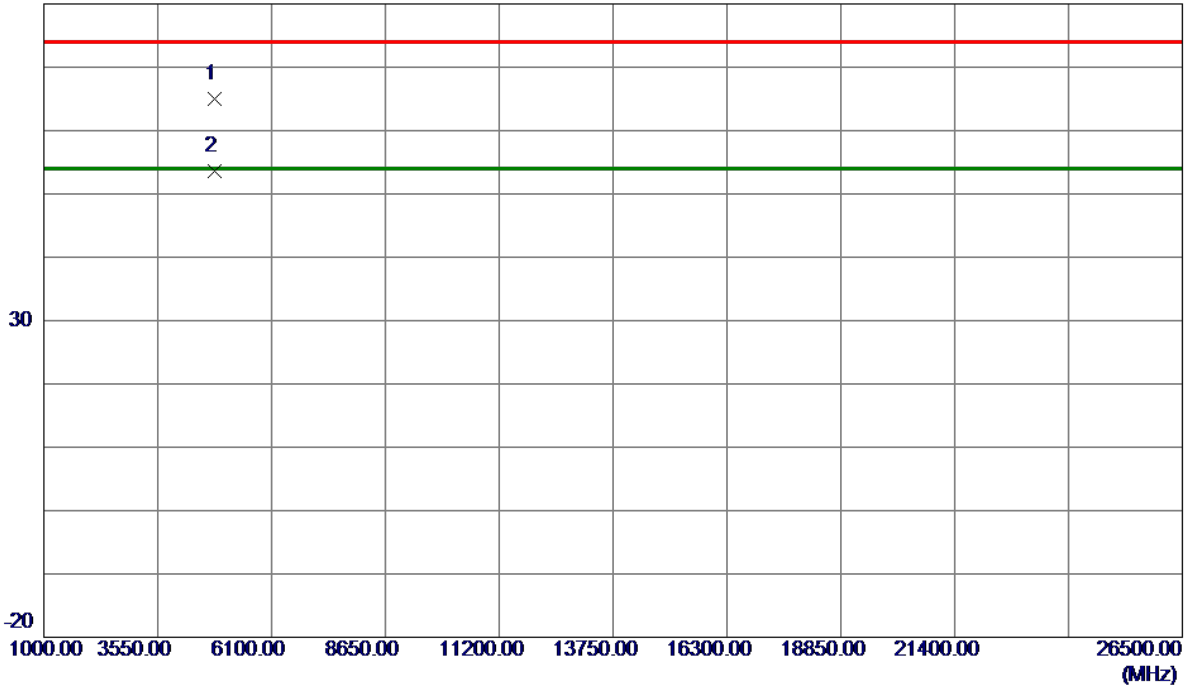
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	60.22	5.61	65.83	74.00	-8.17	Peak	
2	2390.0000	47.76	5.61	53.37	54.00	-0.63	AVG	
3	2409.7500	107.27	5.64	112.91	74.00	38.91	Peak	No Limit
4 *	2409.7500	97.58	5.64	103.22	54.00	49.22	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	Horizontal
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80 dBuV/m

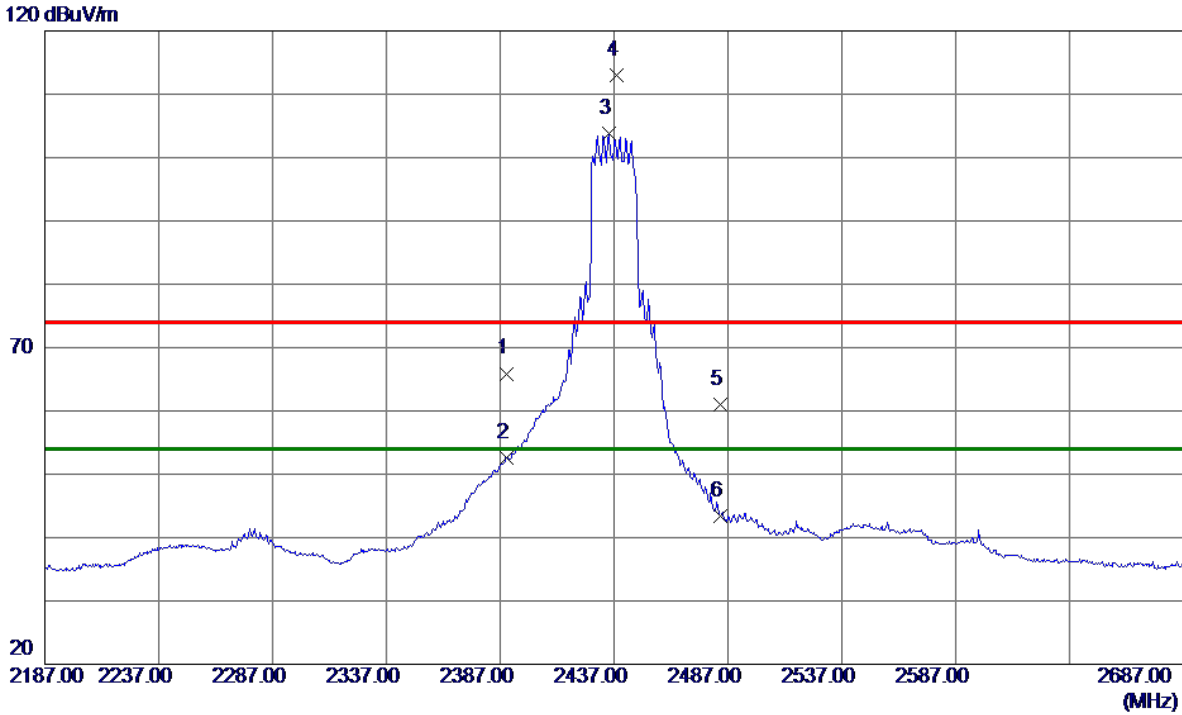


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4818.5250	62.79	2.22	65.01	74.00	-8.99	Peak	
2 *	4823.0750	51.46	2.23	53.69	54.00	-0.31	AVG	

REMARKS:

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

Test Mode	TX AX(HE20) Mode 2437 MHz	Polarization	Horizontal
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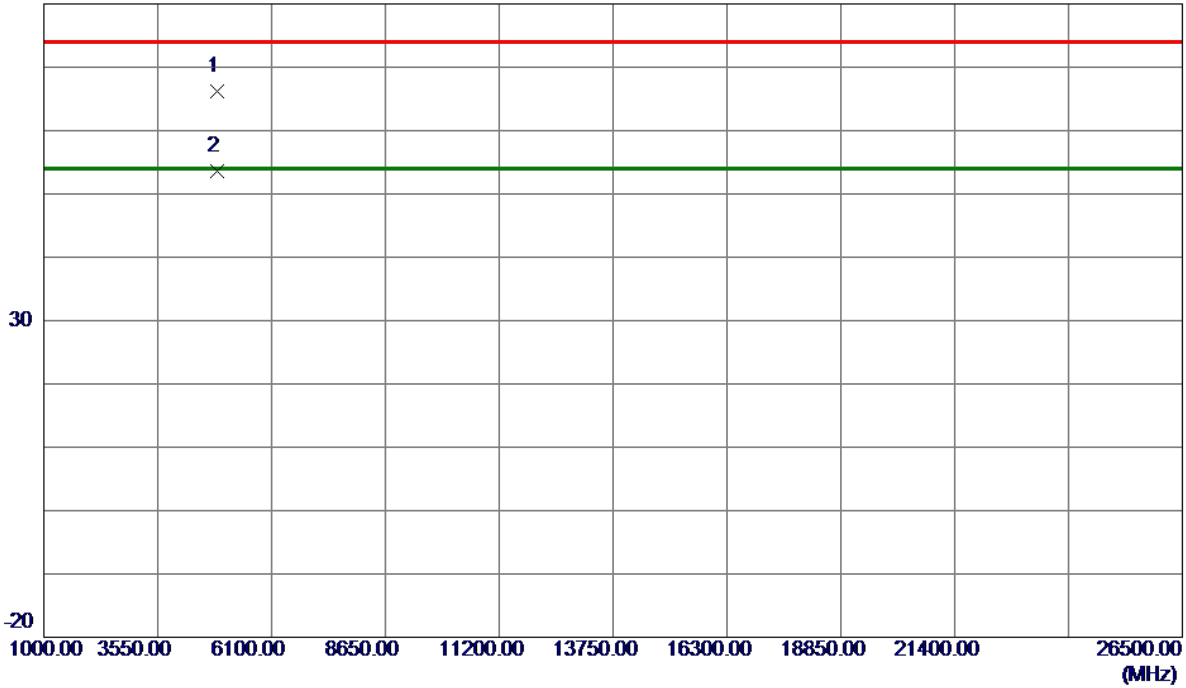
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	60.29	5.61	65.90	74.00	-8.10	Peak	
2	2390.0000	47.02	5.61	52.63	54.00	-1.37	AVG	
3 *	2434.7500	98.01	5.69	103.70	54.00	49.70	AVG	No Limit
4	2438.0000	107.25	5.70	112.95	74.00	38.95	Peak	No Limit
5	2483.5000	55.25	5.78	61.03	74.00	-12.97	Peak	
6	2483.5000	37.65	5.78	43.43	54.00	-10.57	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	Horizontal
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80 dBuV/m

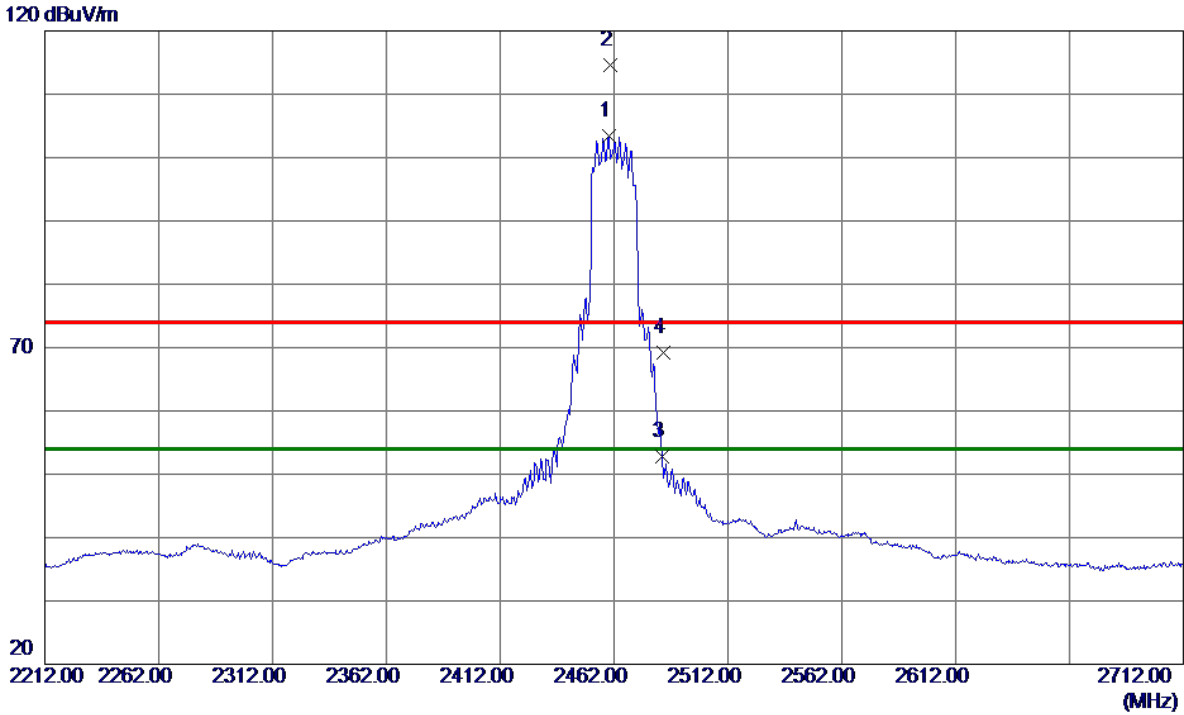


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4868.0000	63.87	2.38	66.25	74.00	-7.75	Peak	
2 *	4868.4000	51.25	2.38	53.63	54.00	-0.37	AVG	

REMARKS:

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

Test Mode	TX AX(HE20) Mode 2462 MHz	Polarization	Horizontal
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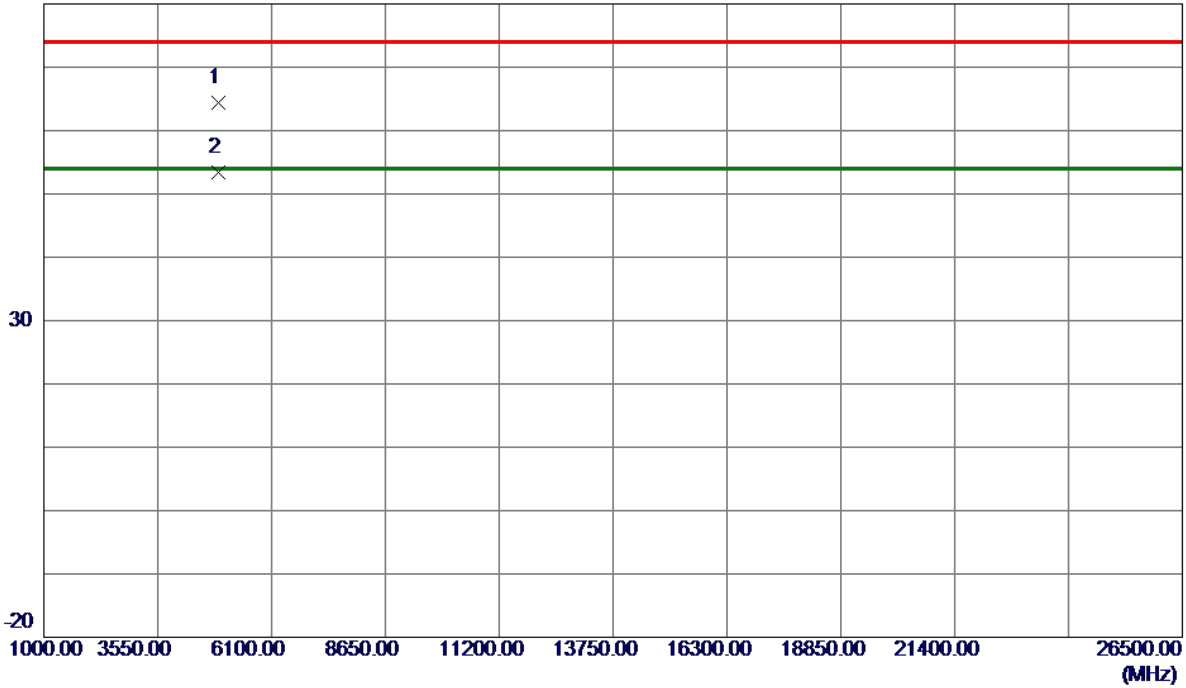
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2459.7500	97.57	5.74	103.31	54.00	49.31	AVG	No Limit
2	2460.2500	108.92	5.74	114.66	74.00	40.66	Peak	No Limit
3	2483.0000	47.05	5.78	52.83	54.00	-1.17	AVG	
4	2483.5000	63.38	5.78	69.16	74.00	-4.84	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	Horizontal
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80 dBuV/m

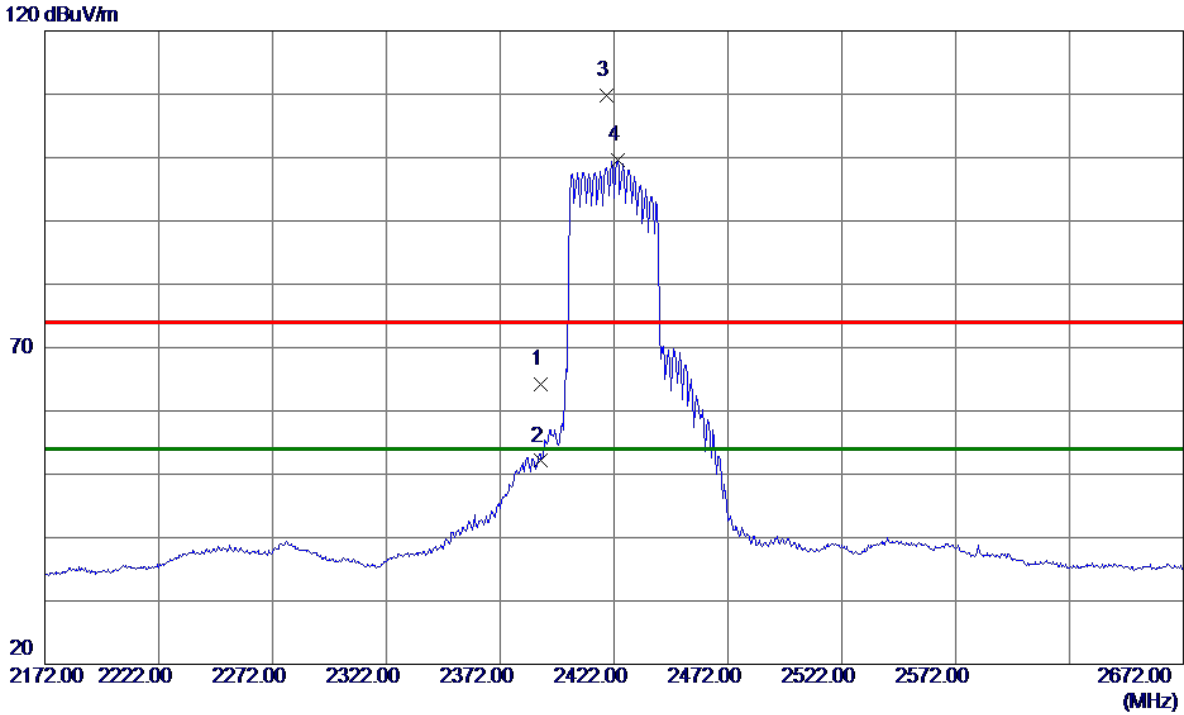


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4918.7500	61.78	2.55	64.33	74.00	-9.67	Peak	
2 *	4923.0000	50.88	2.56	53.44	54.00	-0.56	AVG	

REMARKS:

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

Test Mode	TX AX(HE40) Mode 2422 MHz	Polarization	Horizontal
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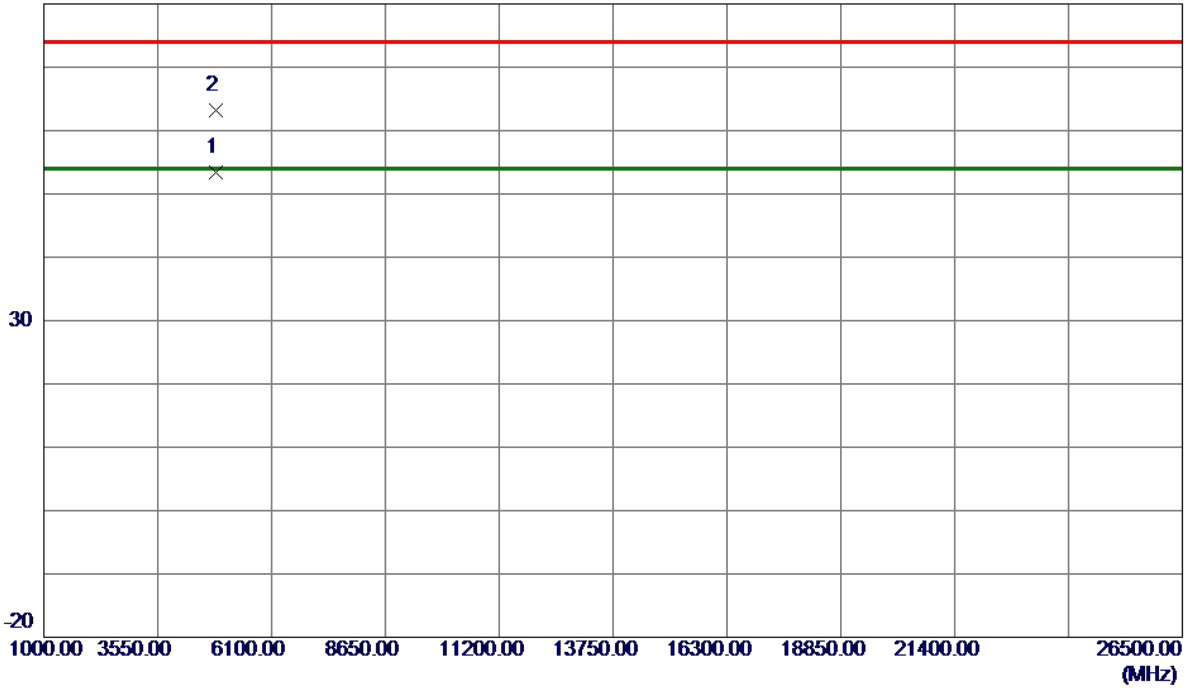
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	58.56	5.61	64.17	74.00	-9.83	Peak	
2	2390.0000	46.49	5.61	52.10	54.00	-1.90	AVG	
3	2418.7500	104.11	5.66	109.77	74.00	35.77	Peak	No Limit
4 *	2423.5000	93.87	5.67	99.54	54.00	45.54	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	Horizontal
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80 dBuV/m

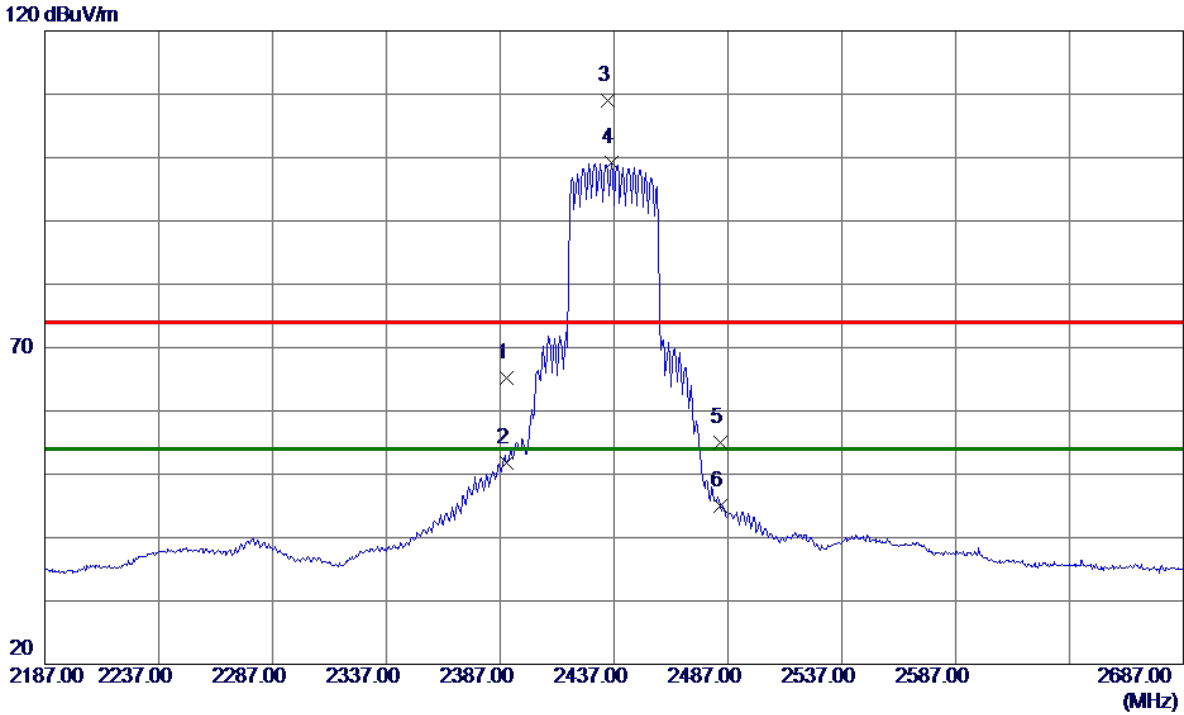


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4843.0000	51.05	2.30	53.35	54.00	-0.65	AVG	
2	4844.0000	60.95	2.30	63.25	74.00	-10.75	Peak	

REMARKS:

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

Test Mode	TX AX(HE40) Mode 2437 MHz	Polarization	Horizontal
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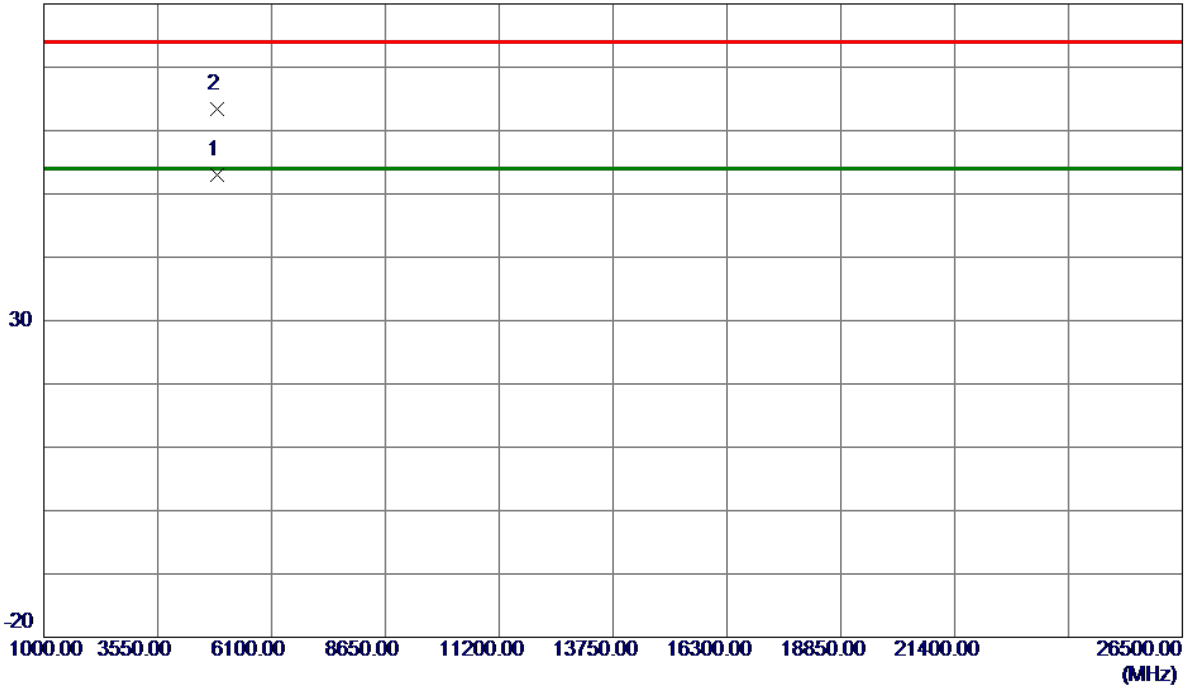
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	59.50	5.61	65.11	74.00	-8.89	Peak	
2	2390.0000	46.15	5.61	51.76	54.00	-2.24	AVG	
3	2434.0000	103.28	5.69	108.97	74.00	34.97	Peak	No Limit
4 *	2435.7500	93.43	5.69	99.12	54.00	45.12	AVG	No Limit
5	2483.5000	49.18	5.78	54.96	74.00	-19.04	Peak	
6	2483.5000	39.14	5.78	44.92	54.00	-9.08	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	Horizontal
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80 dBuV/m

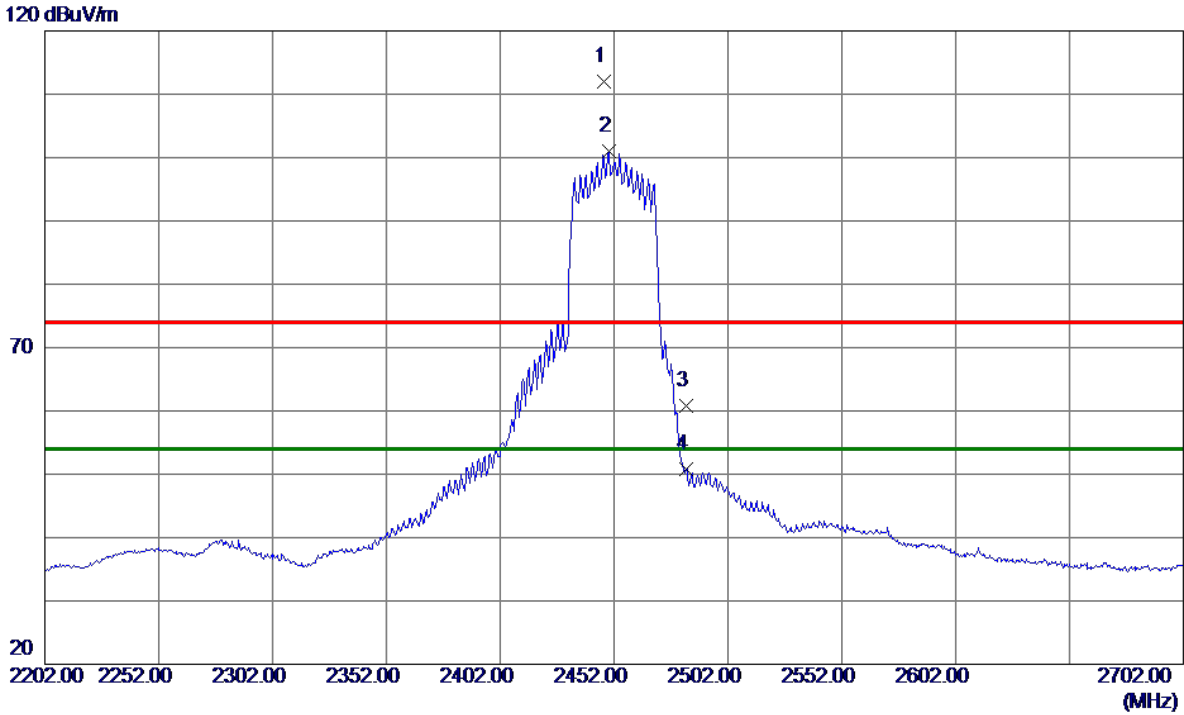


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4868.2500	50.59	2.38	52.97	54.00	-1.03	AVG	
2	4871.2500	61.03	2.39	63.42	74.00	-10.58	Peak	

REMARKS:

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

Test Mode	TX AX(HE40) Mode 2452 MHz	Polarization	Horizontal
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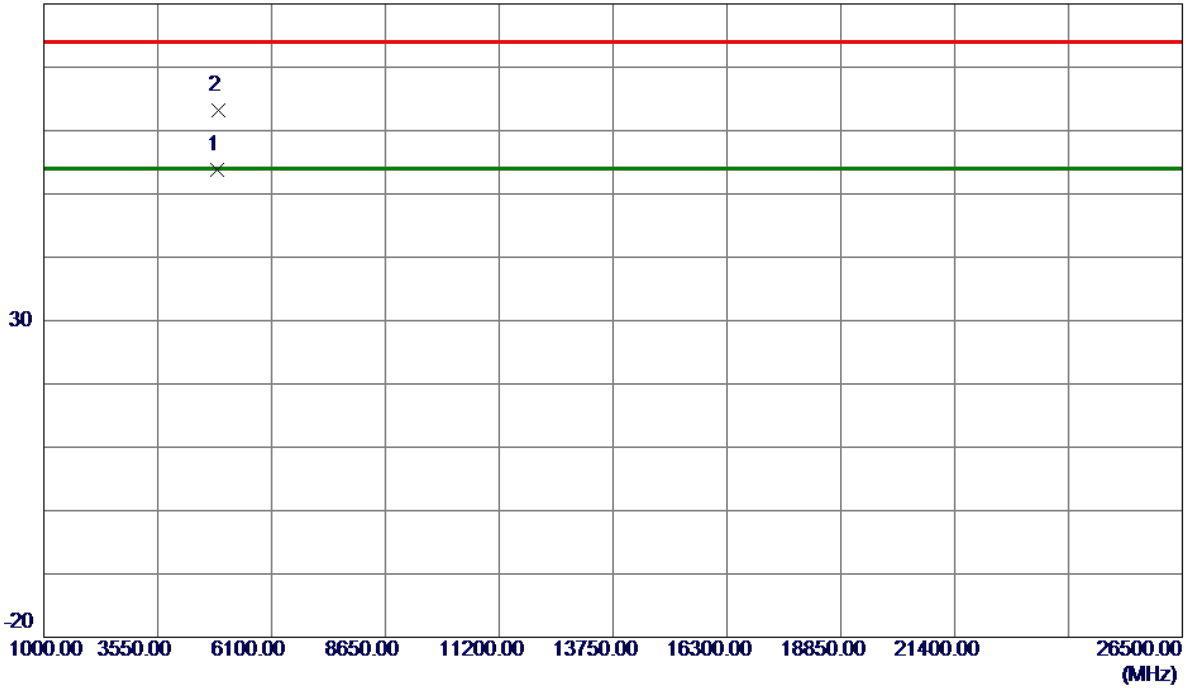
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2447.7500	106.23	5.72	111.95	74.00	37.95	Peak	No Limit
2 *	2449.7500	95.36	5.72	101.08	54.00	47.08	AVG	No Limit
3	2483.5000	55.07	5.78	60.85	74.00	-13.15	Peak	
4	2483.5000	45.05	5.78	50.83	54.00	-3.17	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	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 *	4893.2500	51.27	2.46	53.73	54.00	-0.27	AVG	
2	4898.5000	60.76	2.48	63.24	74.00	-10.76	Peak	

REMARKS:

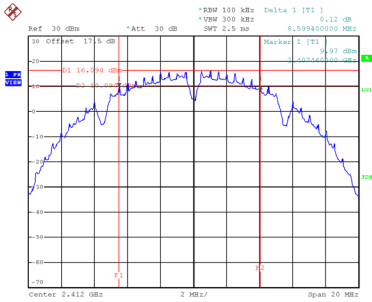
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

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	8.599	12.640	0.5	Complies
06	2437	8.030	12.640	0.5	Complies
11	2462	8.020	12.400	0.5	Complies

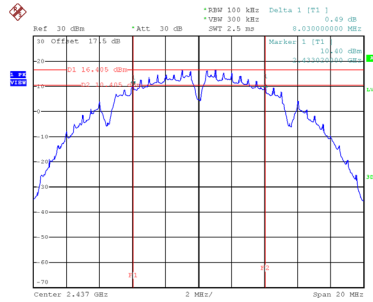
CH01



Date: 18.JAN.2024 09:10:48

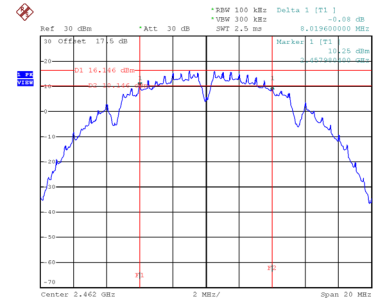
CH06

6 dB Bandwidth



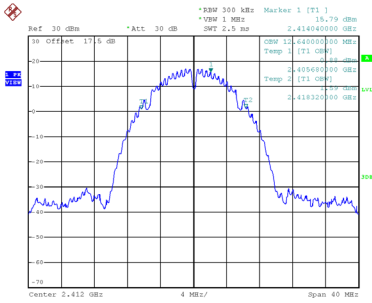
Date: 18.JAN.2024 09:12:37

CH11

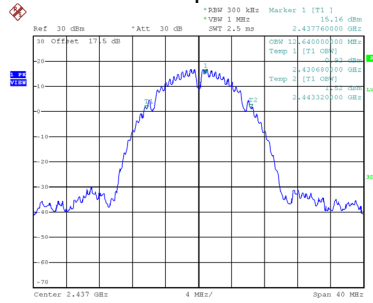


Date: 18.JAN.2024 09:14:18

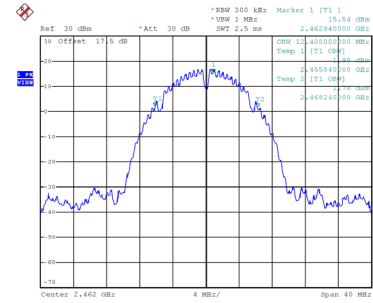
99 % Occupied Bandwidth



Date: 18.JAN.2024 09:10:57



Date: 18.JAN.2024 09:12:45

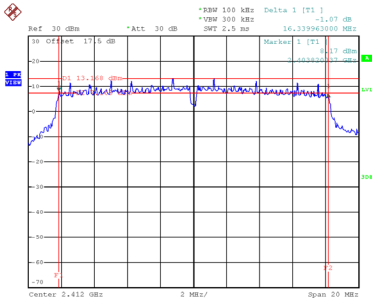


Date: 18.JAN.2024 09:14:26

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	16.340	19.360	0.5	Complies
06	2437	15.949	20.080	0.5	Complies
11	2462	16.350	19.760	0.5	Complies

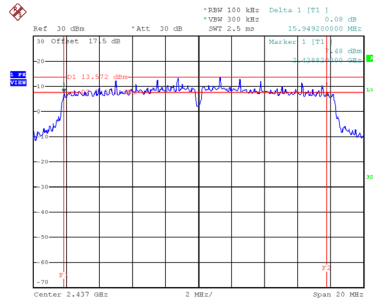
CH01



Date: 18.JAN.2024 09:16:11

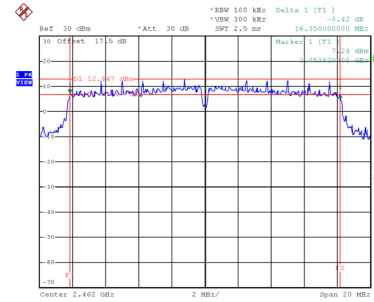
CH06

6 dB Bandwidth



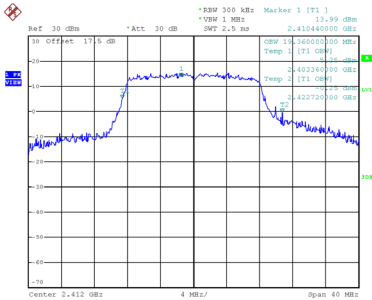
Date: 18.JAN.2024 09:18:47

CH11

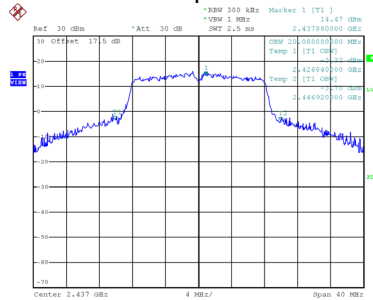


Date: 18.JAN.2024 09:21:05

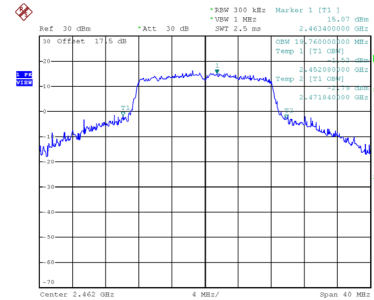
99 % Occupied Bandwidth



Date: 18.JAN.2024 09:16:20



Date: 18.JAN.2024 09:18:56

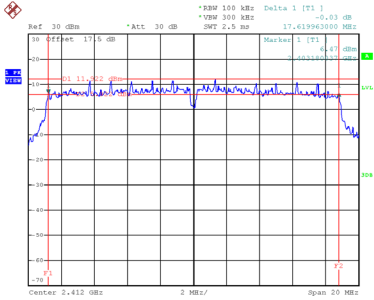


Date: 18.JAN.2024 09:21:14

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	17.620	18.640	0.5	Complies
06	2437	16.840	18.720	0.5	Complies
11	2462	17.620	18.880	0.5	Complies

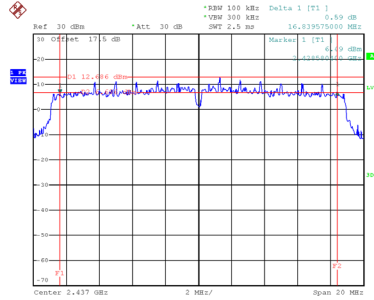
CH01



Date: 18.JAN.2024 09:23:56

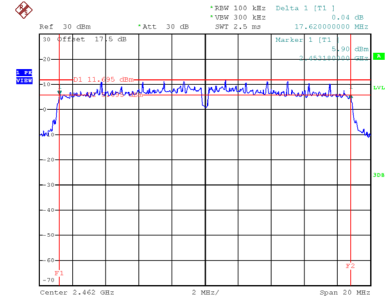
CH06

6 dB Bandwidth



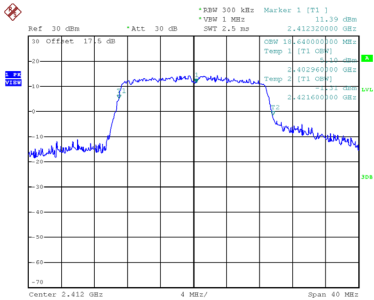
Date: 18.JAN.2024 09:25:27

CH11

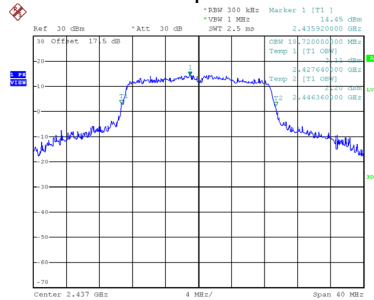


Date: 18.JAN.2024 09:26:51

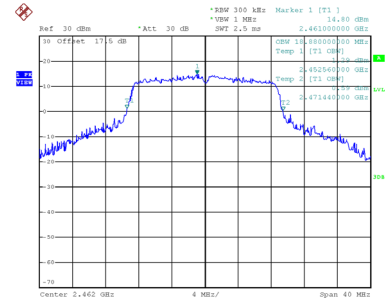
99 % Occupied Bandwidth



Date: 18.JAN.2024 09:24:05



Date: 18.JAN.2024 09:25:35

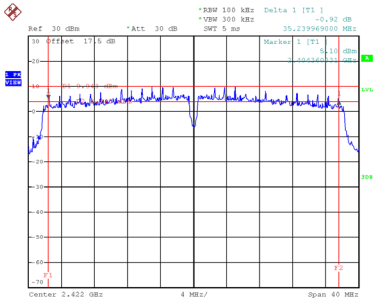


Date: 18.JAN.2024 09:27:00

Test Mode TX N(HT40) Mode

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
03	2422	35.240	37.760	0.5	Complies
06	2437	35.200	38.400	0.5	Complies
09	2452	35.160	38.400	0.5	Complies

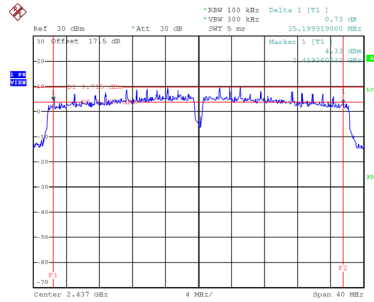
CH03



Date: 18.JAN.2024 09:29:30

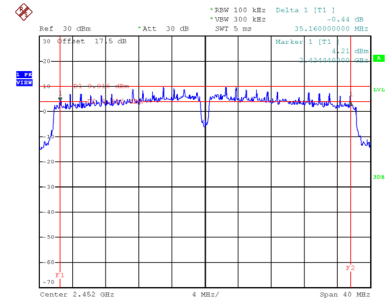
CH06

6 dB Bandwidth



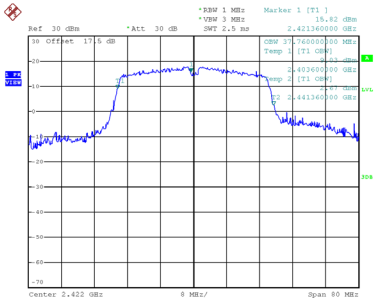
Date: 18.JAN.2024 09:31:27

CH09

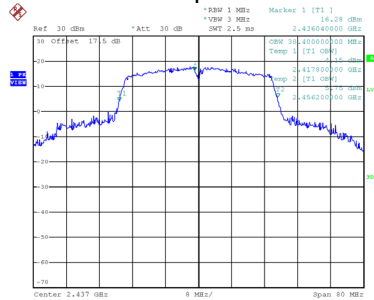


Date: 18.JAN.2024 09:32:55

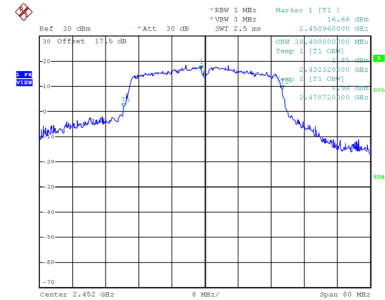
99 % Occupied Bandwidth



Date: 18.JAN.2024 09:29:39



Date: 18.JAN.2024 09:31:36

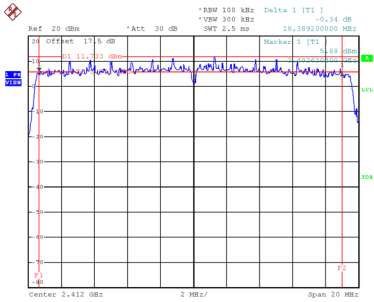


Date: 18.JAN.2024 09:33:04

Test Mode	TX AX(HE20) Mode
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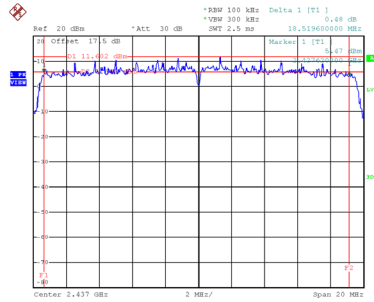
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	18.389	19.120	0.5	Complies
06	2437	18.520	19.440	0.5	Complies
11	2462	17.790	19.360	0.5	Complies

CH01



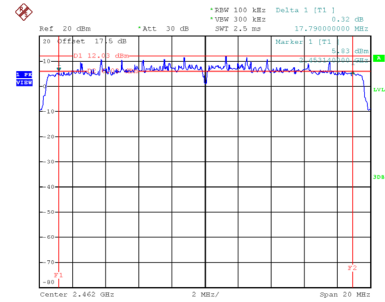
Date: 1.MAR.2024 09:54:35

CH06
6 dB Bandwidth



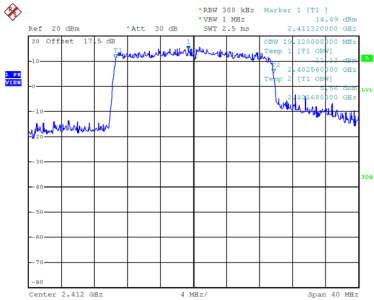
Date: 1.MAR.2024 09:56:07

CH11

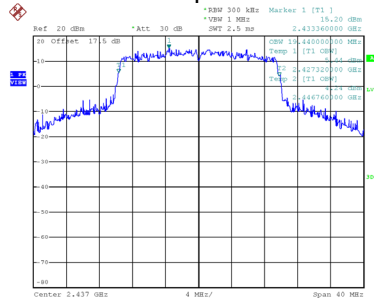


Date: 1.MAR.2024 09:57:34

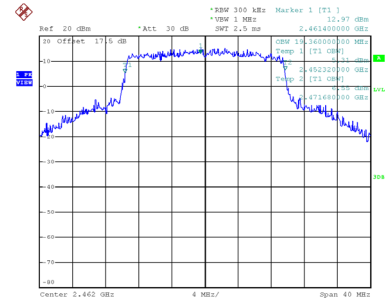
99 % Occupied Bandwidth



Date: 1.MAR.2024 09:54:44



Date: 1.MAR.2024 09:56:16

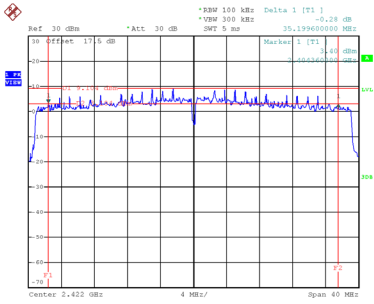


Date: 1.MAR.2024 09:57:43

Test Mode TX AX(HE40) Mode

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
03	2422	35.200	38.400	0.5	Complies
06	2437	35.200	39.680	0.5	Complies
09	2452	36.240	39.840	0.5	Complies

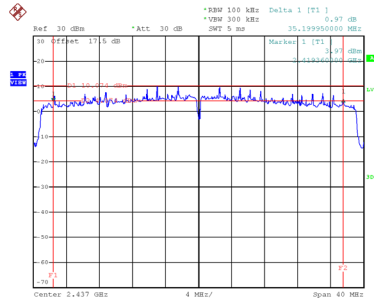
CH03



Date: 1.MAR.2024 10:09:40

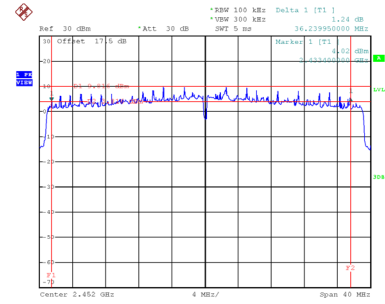
CH06

6 dB Bandwidth



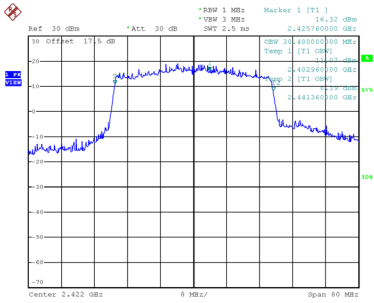
Date: 1.MAR.2024 10:11:58

CH09

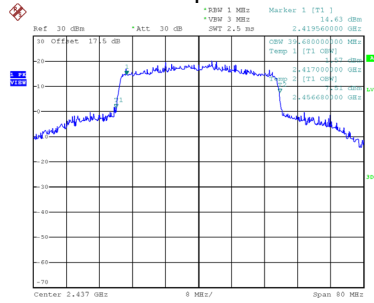


Date: 1.MAR.2024 10:13:28

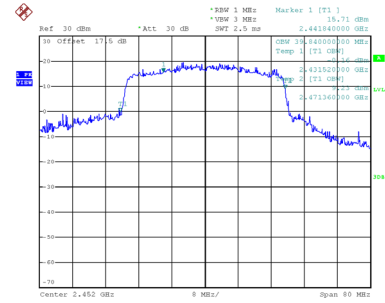
99 % Occupied Bandwidth



Date: 1.MAR.2024 10:09:49



Date: 1.MAR.2024 10:12:07



Date: 1.MAR.2024 10:13:36

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	23.37	0.00	23.37	30.00	1.0000	Complies
06	2437	23.38	0.00	23.38	30.00	1.0000	Complies
11	2462	23.31	0.00	23.31	30.00	1.0000	Complies

Test Mode	TX B 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	23.34	0.00	23.34	30.00	1.0000	Complies
06	2437	23.27	0.00	23.27	30.00	1.0000	Complies
11	2462	23.17	0.00	23.17	30.00	1.0000	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	26.37	28.38	0.6887	Complies
06	2437	26.34	28.38	0.6887	Complies
11	2462	26.25	28.38	0.6887	Complies

Test Mode	TX G 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	22.04	0.17	22.21	30.00	1.0000	Complies
06	2437	22.28	0.17	22.45	30.00	1.0000	Complies
11	2462	22.18	0.17	22.35	30.00	1.0000	Complies

Test Mode	TX G 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	21.98	0.17	22.15	30.00	1.0000	Complies
06	2437	22.26	0.17	22.43	30.00	1.0000	Complies
11	2462	22.15	0.17	22.32	30.00	1.0000	Complies

Test Mode	TX G Mode_Total
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Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	25.19	28.38	0.6887	Complies
06	2437	25.45	28.38	0.6887	Complies
11	2462	25.34	28.38	0.6887	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	21.58	0.18	21.76	30.00	1.0000	Complies
06	2437	21.51	0.18	21.69	30.00	1.0000	Complies
11	2462	21.36	0.18	21.54	30.00	1.0000	Complies

Test Mode	TX N(HT20) 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	21.46	0.18	21.64	30.00	1.0000	Complies
06	2437	21.43	0.18	21.61	30.00	1.0000	Complies
11	2462	21.22	0.18	21.40	30.00	1.0000	Complies

Test Mode	TX N(HT20) Mode_Total
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Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	24.71	28.38	0.6887	Complies
06	2437	24.66	28.38	0.6887	Complies
11	2462	24.48	28.38	0.6887	Complies

Test Mode	TX N(HT40) 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
03	2422	21.23	0.38	21.61	30.00	1.0000	Complies
06	2437	21.47	0.38	21.85	30.00	1.0000	Complies
09	2452	21.52	0.38	21.90	30.00	1.0000	Complies

Test Mode	TX N(HT40) 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
03	2422	21.19	0.38	21.57	30.00	1.0000	Complies
06	2437	21.42	0.38	21.80	30.00	1.0000	Complies
09	2452	21.37	0.38	21.75	30.00	1.0000	Complies

Test Mode	TX N(HT40) Mode_Total
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Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	24.60	28.38	0.6887	Complies
06	2437	24.84	28.38	0.6887	Complies
09	2452	24.84	28.38	0.6887	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	20.45	0.12	20.57	30.00	1.0000	Complies
06	2437	20.40	0.12	20.52	30.00	1.0000	Complies
11	2462	20.24	0.12	20.36	30.00	1.0000	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	20.34	0.12	20.46	30.00	1.0000	Complies
06	2437	20.41	0.12	20.53	30.00	1.0000	Complies
11	2462	20.24	0.12	20.36	30.00	1.0000	Complies

Test Mode	TX AX(HE20) Mode_Total
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Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	23.53	28.38	0.6887	Complies
06	2437	23.54	28.38	0.6887	Complies
11	2462	23.37	28.38	0.6887	Complies

Test Mode	TX AX(HE40) 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
03	2422	20.10	0.23	20.33	30.00	1.0000	Complies
06	2437	20.35	0.23	20.58	30.00	1.0000	Complies
09	2452	20.41	0.23	20.64	30.00	1.0000	Complies

Test Mode	TX AX(HE40) 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
03	2422	20.01	0.23	20.24	30.00	1.0000	Complies
06	2437	20.30	0.23	20.53	30.00	1.0000	Complies
09	2452	20.42	0.23	20.65	30.00	1.0000	Complies

Test Mode	TX AX(HE40) Mode_Total
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Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	23.29	28.38	0.6887	Complies
06	2437	23.56	28.38	0.6887	Complies
09	2452	23.65	28.38	0.6887	Complies

Beamforming

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	21.13	0.18	21.31	30.00	1.0000	Complies
06	2437	20.93	0.18	21.11	30.00	1.0000	Complies
11	2462	20.97	0.18	21.15	30.00	1.0000	Complies

Test Mode	TX N(HT20) 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	21.07	0.18	21.25	30.00	1.0000	Complies
06	2437	21.05	0.18	21.23	30.00	1.0000	Complies
11	2462	21.02	0.18	21.20	30.00	1.0000	Complies

Test Mode	TX N(HT20) Mode_Total
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Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	24.29	28.11	0.6471	Complies
06	2437	24.18	28.11	0.6471	Complies
11	2462	24.19	28.11	0.6471	Complies

Test Mode	TX N(HT40) 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
03	2422	20.68	0.35	21.06	30.00	1.0000	Complies
06	2437	21.11	0.35	21.49	30.00	1.0000	Complies
09	2452	21.08	0.35	21.46	30.00	1.0000	Complies

Test Mode	TX N(HT40) 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
03	2422	20.67	0.35	21.05	30.00	1.0000	Complies
06	2437	21.17	0.35	21.55	30.00	1.0000	Complies
09	2452	20.97	0.35	21.35	30.00	1.0000	Complies

Test Mode	TX N(HT40) Mode_Total
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Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	24.07	28.11	0.6471	Complies
06	2437	24.53	28.11	0.6471	Complies
09	2452	24.42	28.11	0.6471	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	21.03	0.12	21.15	30.00	1.0000	Complies
06	2437	20.82	0.12	20.94	30.00	1.0000	Complies
11	2462	20.86	0.12	20.98	30.00	1.0000	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	21.00	0.12	21.12	30.00	1.0000	Complies
06	2437	20.74	0.12	20.86	30.00	1.0000	Complies
11	2462	20.82	0.12	20.94	30.00	1.0000	Complies

Test Mode	TX AX(HE20) Mode_Total
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Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	24.15	28.11	0.6471	Complies
06	2437	23.91	28.11	0.6471	Complies
11	2462	23.97	28.11	0.6471	Complies

Test Mode	TX AX(HE40) 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
03	2422	20.53	0.23	20.76	30.00	1.0000	Complies
06	2437	20.96	0.23	21.19	30.00	1.0000	Complies
09	2452	20.95	0.23	21.18	30.00	1.0000	Complies

Test Mode	TX AX(HE40) 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
03	2422	20.42	0.23	20.65	30.00	1.0000	Complies
06	2437	20.89	0.23	21.12	30.00	1.0000	Complies
09	2452	20.87	0.23	21.10	30.00	1.0000	Complies

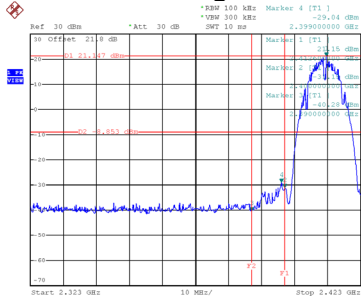
Test Mode	TX AX(HE40) Mode_Total
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Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	23.71	28.11	0.6471	Complies
06	2437	24.16	28.11	0.6471	Complies
09	2452	24.15	28.11	0.6471	Complies

APPENDIX G - CONDUCTED SPURIOUS EMISSIONS

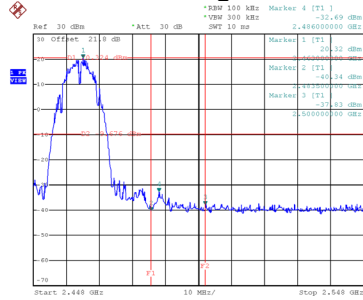
Test Mode TX B Mode_Ant. 1

Bandedge-CH01



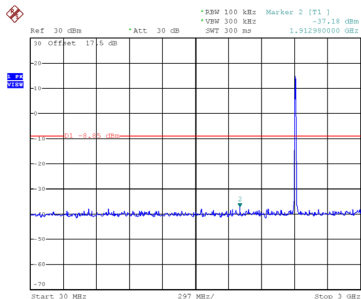
Date: 18.JAN.2024 09:11:06

Bandedge-CH11

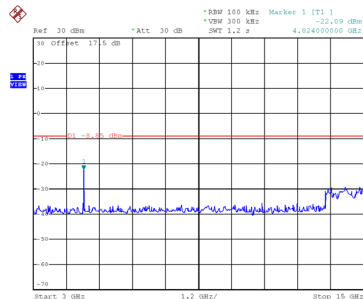


Date: 18.JAN.2024 09:14:36

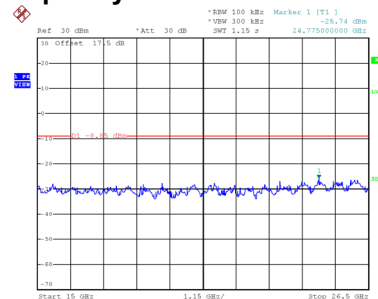
CH01 – 10th Harmonic of the fundamental frequency



Date: 18.JAN.2024 09:11:21

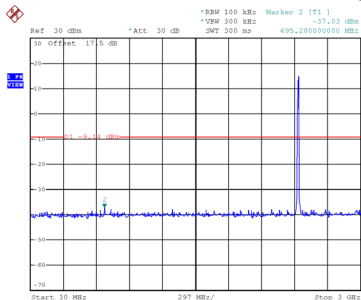


Date: 18.JAN.2024 09:11:31

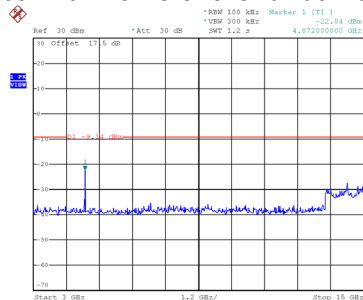


Date: 18.JAN.2024 09:11:40

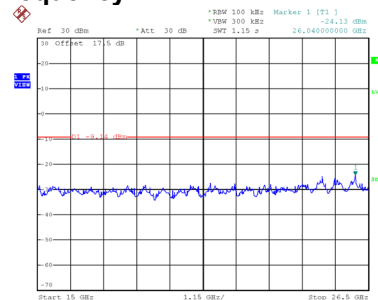
CH06 – 10th Harmonic of the fundamental frequency



Date: 18.JAN.2024 09:13:10

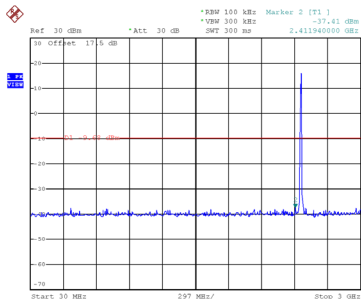


Date: 18.JAN.2024 09:13:19

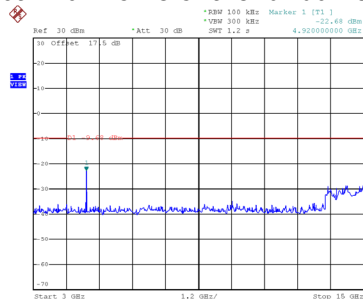


Date: 18.JAN.2024 09:13:28

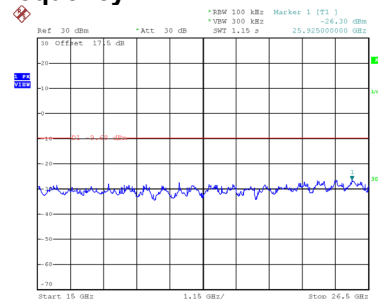
CH11 – 10th Harmonic of the fundamental frequency



Date: 18.JAN.2024 09:14:51



Date: 18.JAN.2024 09:15:00



Date: 18.JAN.2024 09:15:09