



FCC Radio Test Report

FCC ID: 2BFXS-J5601

This report concerns: **Original Grant**

Project No. : 2404G060
Equipment : Pan/Tilt Smart Home Camera
Brand Name : JUOVI
Test Model : J5601
Series Model : N/A
Applicant : ZOWEE TECHNOLOGY (HEYUAN) Co., Ltd
Address : Runye Precision Manufacturing Industrial Park, among the north of Xiangjing Road, the west of Xinpi Road and the south of Yangzi Road, located in the High-tech Zone, Heyuan City, Guangdong Province
Manufacturer : ZOWEE TECHNOLOGY (HEYUAN) Co., Ltd
Address : Runye Precision Manufacturing Industrial Park, among the north of Xiangjing Road, the west of Xinpi Road and the south of Yangzi Road, located in the High-tech Zone, Heyuan City, Guangdong Province
Factory : ZOWEE TECHNOLOGY (HEYUAN) Co., Ltd
Address : Runye Precision Manufacturing Industrial Park, among the north of Xiangjing Road, the west of Xinpi Road and the south of Yangzi Road, located in the High-tech Zone, Heyuan City, Guangdong Province
Date of Receipt : Apr. 15, 2024
Date of Test : Apr. 16, 2024 ~ Apr. 28, 2024
Issued Date : May 13, 2024
Report Version : R00
Test Sample : Engineering Sample No.: SSL2024041561 for power, SSL2024041559 for AC power line conducted emissions and radiated emissions below 1000MHz, SSL2024041560 for other items.
Standard(s) : FCC CFR Title 47, Part 15, Subpart C

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

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Declaration

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

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

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

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

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

Limitation

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

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

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REPORT ISSUED HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-1-2404G060	R00	Original Report.	May 13, 2024	Valid

1. APPLICABLE STANDARDS

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

ANSI C63.10-2013

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

KDB 558074 D01 15.247 Meas Guidance v05r02

2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

FCC CFR Title 47, Part 15, Subpart C				
Standard(s) Section	Test Item	Test Result	Judgment	Remark
15.207	AC Power Line Conducted Emissions	APPENDIX A	PASS	-----
15.247(d) 15.205(a) 15.209(a)	Radiated Emissions	APPENDIX B APPENDIX C APPENDIX D	PASS	-----
15.247(a)(2)	Bandwidth	APPENDIX E	PASS	-----
15.247(b)(3)	Maximum Output Power	APPENDIX F	PASS	-----
15.247(d)	Conducted Spurious Emissions	APPENDIX G	PASS	-----
15.247(e)	Power Spectral Density	APPENDIX H	PASS	-----
15.203	Antenna Requirement	-----	PASS	Note(2)

Note:

(1) "N/A" denotes test is not applicable in this test report.

(2) The device what use a permanently attached antenna were considered sufficient to comply with the provisions of 15.203.

2.1 TEST FACILITY

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

BTL's Registration Number for FCC: 747969

BTL's Designation Number for FCC: CN1377

2.2 MEASUREMENT UNCERTAINTY

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95.45% confidence level (based on a coverage factor (k=2))

The BTL measurement uncertainty as below table:

A. 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-CB02	CISPR	9kHz ~ 30MHz	2.36

Test Site	Method	Measurement Frequency Range	Ant. H / V	U,(dB)
DG-CB03 (3m)	CISPR	30MHz ~ 200MHz	V	4.40
		30MHz ~ 200MHz	H	3.62
		200MHz ~ 1,000MHz	V	4.58
		200MHz ~ 1,000MHz	H	3.98

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

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

C. Other Measurement:

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


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

2.3 TEST ENVIRONMENT CONDITIONS

Test Item	Temperature	Humidity	Test Voltage	Tested By	Test Date
AC Power Line Conducted Emissions	24°C	74%	AC 120V/60Hz	Hayden Chen	Apr. 24, 2024
Radiated Emissions -9kHz to 30 MHz	23°C	59%	AC 120V/60Hz	Hayden Chen	Apr. 28, 2024
Radiated Emissions -30MHz to 1000MHz	20°C	55%	AC 120V/60Hz	Chen Mo	Apr. 19, 2024
Radiated Emissions -Above 1000MHz	21°C	55%	AC 120V/60Hz	Allen Tong	Apr. 27, 2024
	21°C	55%	AC 120V/60Hz	Chen Mo	Apr. 27, 2024
Bandwidth	23°C	55%	DC 5V	Hayden Chen	Apr. 24, 2024
Maximum Output Power	22-23°C	53-61%	DC 5V	Oliver Wang	Apr. 24, 2024- Apr. 28, 2024
Conducted Spurious Emissions	23°C	55%	DC 5V	Hayden Chen	Apr. 24, 2024
Power Spectral Density	23°C	55%	DC 5V	Hayden Chen	Apr. 24, 2024

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	Pan/Tilt Smart Home Camera
Brand Name	JUOVI
Test Model	J5601
Series Model	N/A
Model Difference(s)	N/A
HVIN	MA1811C-4336-E
FVIN	105
Power Source	DC voltage supplied from AC adapter. Model: TPA-46B050100UU
Power Rating	I/P: 100-240V~ 50/60Hz 0.2A O/P: 5.0V  1000mA
Operation Frequency Band	2400 MHz ~ 2483.5 MHz
Modulation Type	IEEE 802.11b: DSSS IEEE 802.11g: OFDM IEEE 802.11n: OFDM
Bit Rate of Transmitter	IEEE 802.11b: 11/5.5/2/1 Mbps IEEE 802.11g: 54/48/36/24/18/12/9/6 Mbps IEEE 802.11n: up to 72.2 Mbps
Maximum Output Power	IEEE 802.11g: 20.07 dBm (0.1016 W)

Note:

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

2. Channel List:

CH01 - CH13 for IEEE 802.11b, IEEE 802.11g, IEEE 802.11n(HT20)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	05	2432	09	2452	13	2472
02	2417	06	2437	10	2457		
03	2422	07	2442	11	2462		
04	2427	08	2447	12	2467		

3. Antenna Specification:

Ant.	Brand	P/N	Antenna Type	Connector	Gain (dBi)
1	NHAIT	549AA-HT-0412-2	FPC	N/A	2.15

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 01/06/11/12/13
Mode 2	TX G Mode Channel 01/06/11/12/13
Mode 3	TX N(HT20) Mode Channel 01/06/11/12/13
Mode 4	TX G Mode Channel 06

Following mode(s) was (were) found to be the worst case(s) and selected for the final test.

AC power line conducted emissions test	
Final Test Mode	Description
Mode 4	TX G Mode Channel 06

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

Radiated emissions test- Above 1GHz	
Final Test Mode	Description
Mode 1	TX B Mode Channel 01/06/11/12/13
Mode 2	TX G Mode Channel 01/06/11/12/13
Mode 3	TX N(HT20) Mode Channel 01/06/11/12/13

Conducted test	
Final Test Mode	Description
Mode 1	TX B Mode Channel 01/06/11/12/13
Mode 2	TX G Mode Channel 01/06/11/12/13
Mode 3	TX N(HT20) Mode Channel 01/06/11/12/13

NOTE:

- (1) All the bit rate of transmitter have been tested and found the lowest rate is found to be the worst case and recorded.
- (2) For AC power line conducted emissions and radiated emission below 1 GHz test, the TX G Mode Channel 06 is found to be the worst case and recorded.
- (3) For radiated emission above 1 GHz test, the spurious points of 1GHz~26.5GHz have been pre-tested and in this report only recorded the worst case. The remaining spurious points are all below the limit value of 20dB.
- (4) For radiated emission Harmonic 18-26.5GHz test, only tested the worst case and recorded.
- (5) For radiated emission above 1 GHz test, the polarization of Vertical and Horizontal are evaluated, the worst case is Vertical for Band edge, Horizontal for Harmonic. In this report only recorded the worst case.

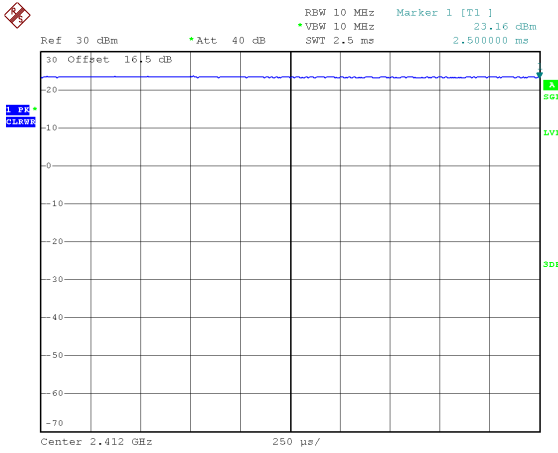
3.3 PARAMETERS OF TEST SOFTWARE

Test Software Version	IPOPV_4.0				
Frequency (MHz)	2412	2437	2462	2467	2472
IEEE 802.11b	20	19	16	16	13
IEEE 802.11g	18	20	16	13	10
IEEE 802.11n(HT20)	18	19	16	13	12

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.

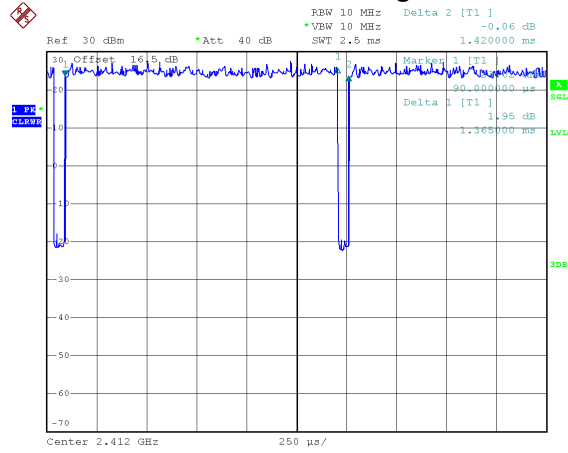
IEEE 802.11b



Date: 24.APR.2024 15:14:29

Duty cycle = 2.500 ms / 2.500 ms = 100%
 Duty Factor = $10 \log(1/\text{Duty cycle}) = 0.00$

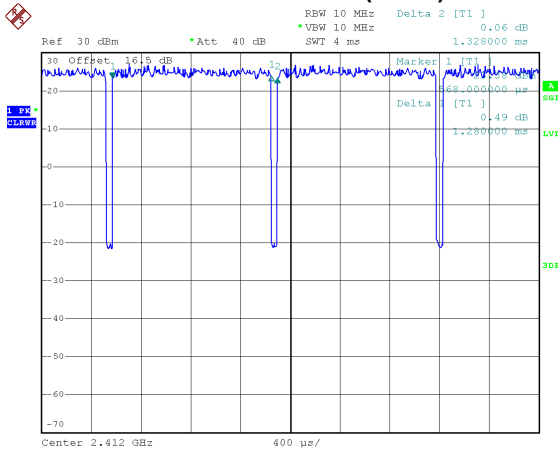
IEEE 802.11g



Date: 24.APR.2024 15:15:24

Duty cycle = 1.365 ms / 1.420 ms = 96.13%
 Duty Factor = $10 \log(1/\text{Duty cycle}) = 0.17$

IEEE 802.11n(HT20)



Date: 24.APR.2024 15:16:33

Duty cycle = 1.280 ms / 1.328 ms = 96.39%
 Duty Factor = $10 \log(1/\text{Duty cycle}) = 0.16$

NOTE:

For IEEE 802.11b:

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

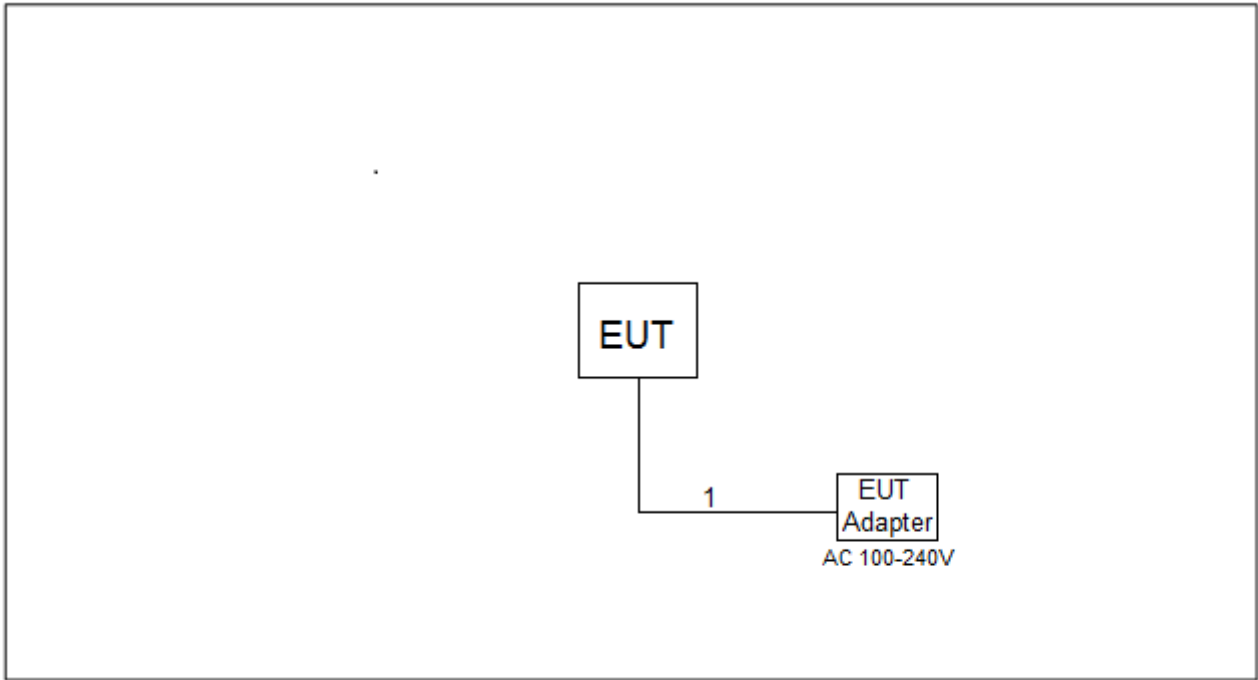
For IEEE 802.11g:

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 733 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 781 Hz.

3.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



3.6 SUPPORT UNITS

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

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

3.7 CUSTOMER INFORMATION DESCRIPTION

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

4. AC POWER LINE CONDUCTED EMISSIONS

4.1 LIMIT

Frequency of Emission (MHz)	Limit (dB μ V)	
	Quasi-peak	Average
0.15 - 0.5	66 to 56*	56 to 46*
0.5 - 5.0	56	46
5.0 - 30.0	60	50

NOTE:

- (1) The tighter limit applies at the band edges.
- (2) The limit of "*" marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

4.2 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

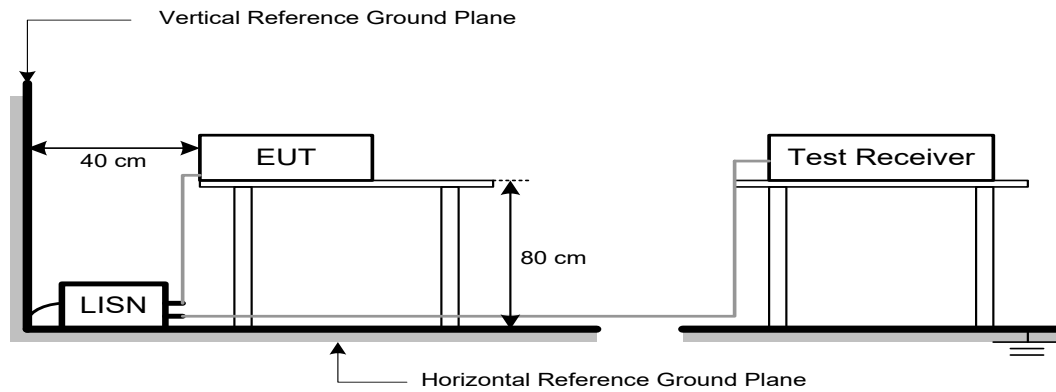
The following table is the setting of the receiver:

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

4.3 DEVIATION FROM TEST STANDARD

No deviation.

4.4 TEST SETUP



4.5 EUT OPERATION CONDITIONS

EUT was programmed to be in continuously transmitting mode.

4.6 TEST RESULTS

Please refer to the APPENDIX A.

5. RADIATED EMISSIONS

5.1 LIMIT

In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

LIMITS OF RADIATED EMISSION MEASUREMENT (9 kHz-1000 MHz)

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

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000 MHz)

Frequency (MHz)	Band edge/ Harmonic at 3m (dB μ V/m)		Harmonic at 1m (dB μ V/m)	
	Peak	Average	Peak	Average
Above 1000	74	54	83.5 (Note 4)	63.5 (Note 4)

NOTE:

- (1) The limit for radiated test was performed according to FCC CFR Title 47, Part 15, Subpart C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dB μ V/m)=20log Emission level (uV/m).
- (4)

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

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

5.2 TEST PROCEDURE

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

The following table is the setting of the receiver:

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

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

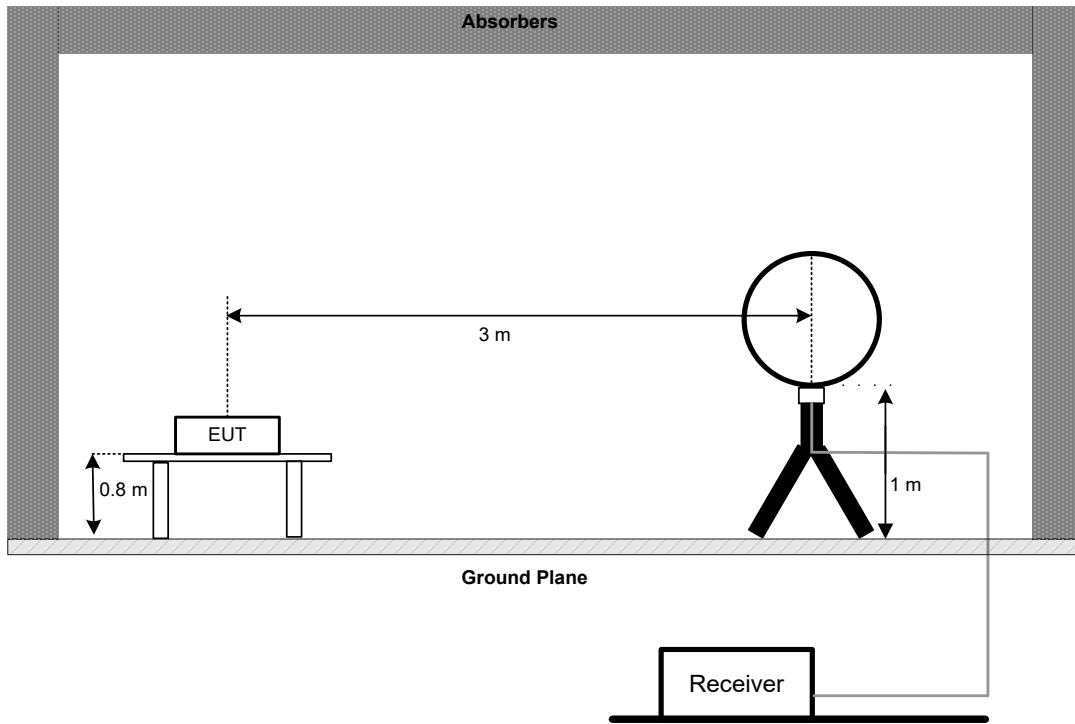
Receiver Parameters	Setting
Start ~ Stop Frequency	9 kHz~90 kHz for PK/AVG detector
Start ~ Stop Frequency	90 kHz~110 kHz for QP detector
Start ~ Stop Frequency	110 kHz~490 kHz for PK/AVG detector
Start ~ Stop Frequency	490 kHz~30 MHz for QP detector
Start ~ Stop Frequency	30 MHz~1000 MHz for QP detector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

5.3 DEVIATION FROM TEST STANDARD

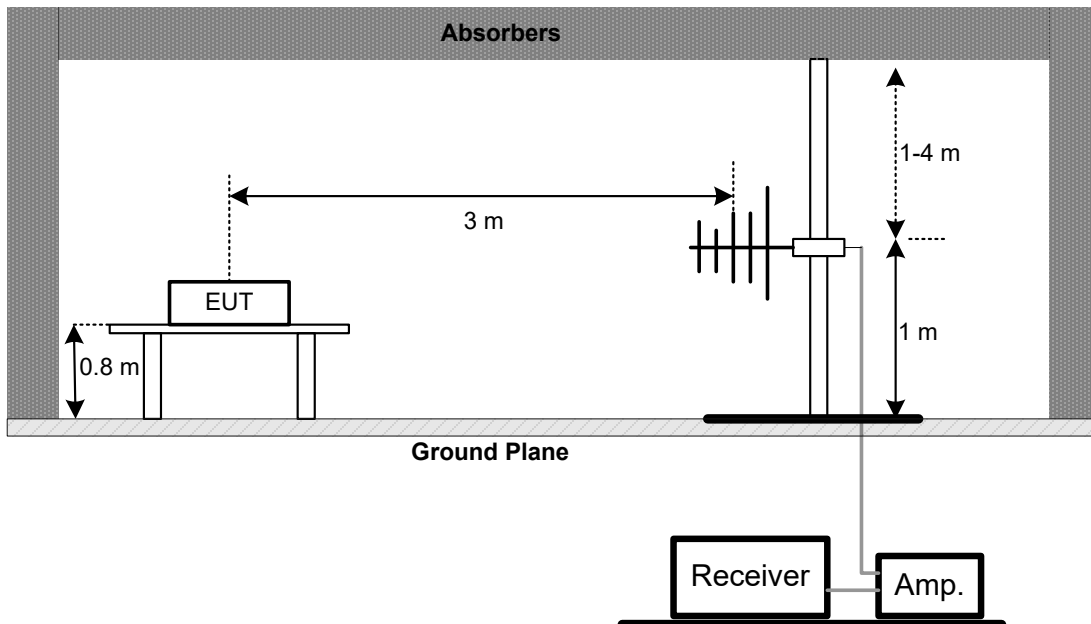
No deviation.

5.4 TEST SETUP

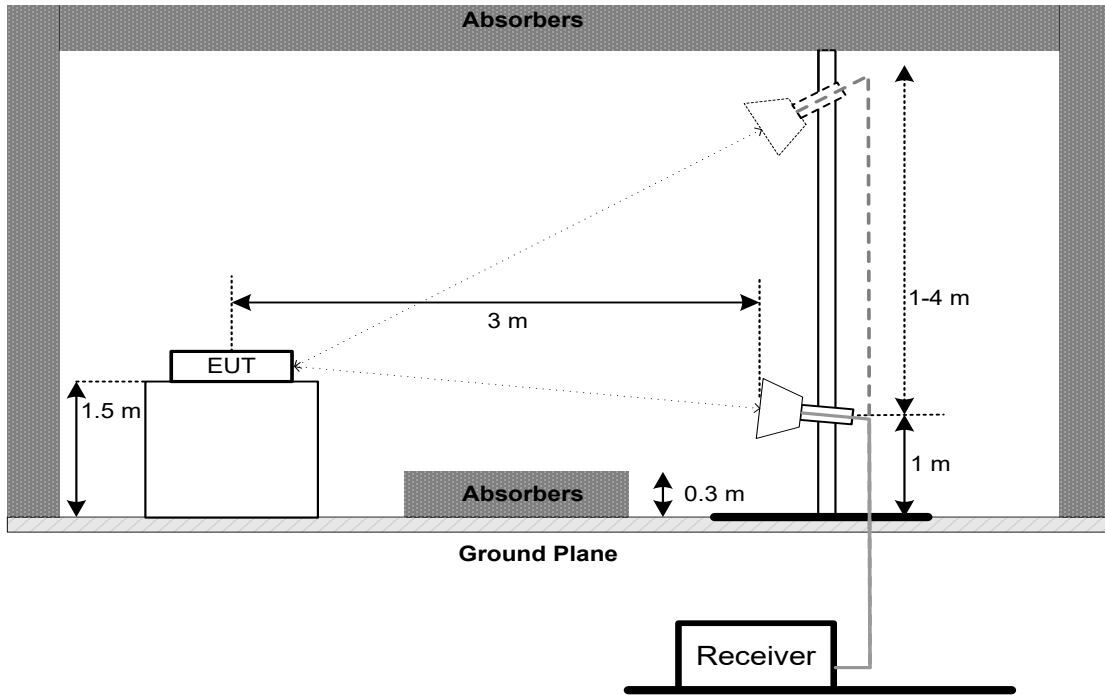
9 kHz to 30 MHz



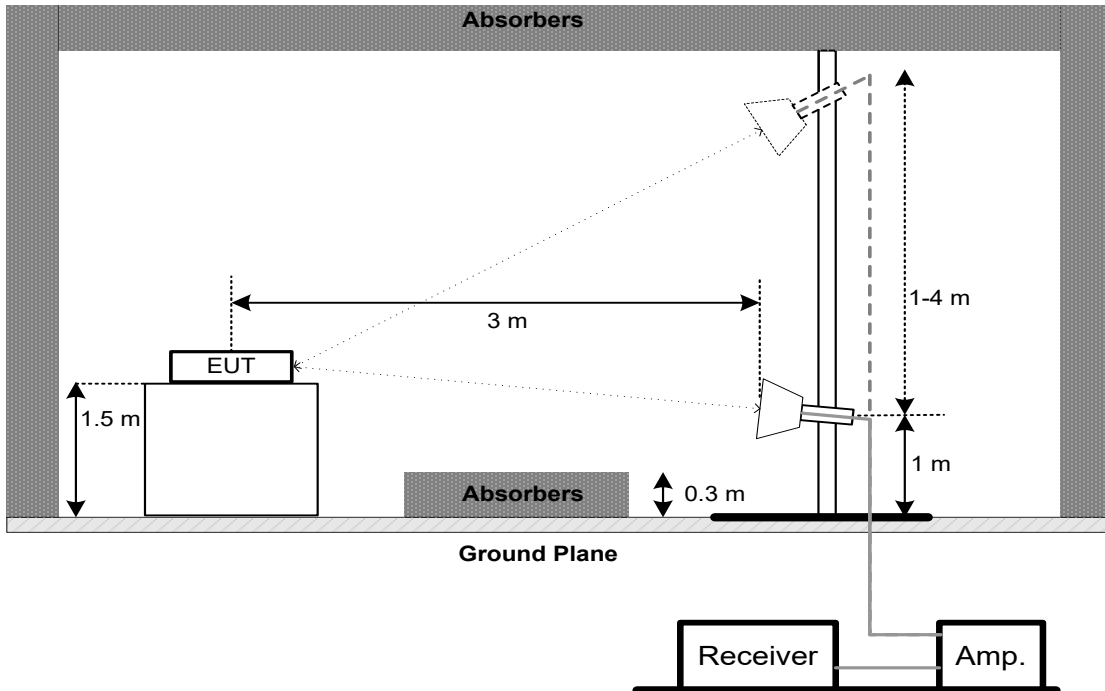
30 MHz to 1 GHz

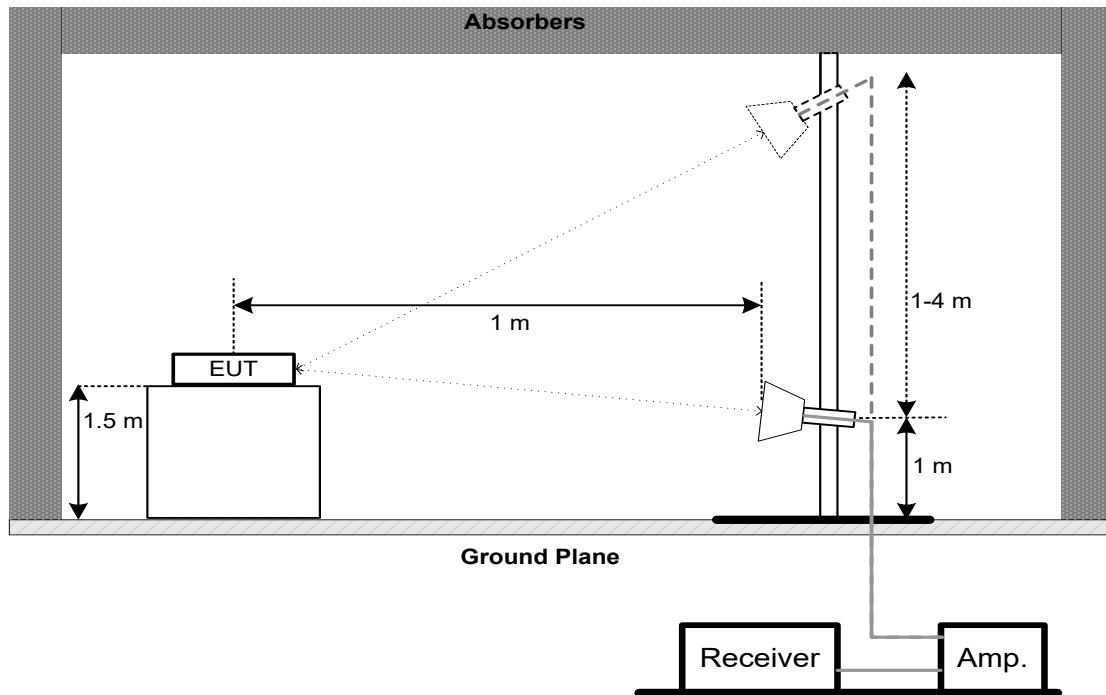


Above 1 GHz Band edge



Harmonic(1 GHz to 18 GHz)



Harmonic(18 GHz to 26.5 GHz)**5.5 EUT OPERATION CONDITIONS**

The EUT was programmed to be in continuously transmitting mode.

5.6 TEST RESULTS - 9 KHZ TO 30 MHZ

Please refer to the APPENDIX B.

Remark:

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

5.7 TEST RESULTS - 30 MHZ TO 1000 MHZ

Please refer to the APPENDIX C.

5.8 TEST RESULTS - ABOVE 1000 MHZ

Please refer to the APPENDIX D.

Remark:

- (1) No limit: This is fundamental signal, the judgment is not applicable.
For fundamental signal judgment was referred to Peak output test.

6. BANDWIDTH

6.1 LIMIT

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

6.2 TEST PROCEDURE

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

For 6 dB Bandwidth:

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

For 99% Emission Bandwidth:

Spectrum Parameters	Setting
Span Frequency	Between 1.5 times and 5.0 times the OBW
RBW	300 kHz
VBW	1 MHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP



6.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

6.6 TEST RESULTS

Please refer to the APPENDIX E.

7. MAXIMUM OUTPUT POWER

7.1 LIMIT

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

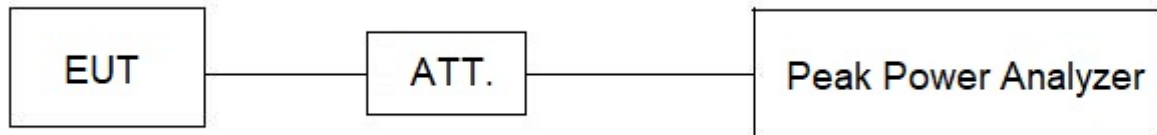
7.2 TEST PROCEDURE

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

7.3 DEVIATION FROM STANDARD

No deviation.

7.4 TEST SETUP



7.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

7.6 TEST RESULTS

Please refer to the APPENDIX F.

8. CONDUCTED SPURIOUS EMISSIONS

8.1 LIMIT

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak Output Power limits. If the transmitter complies with the Output Power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required.

8.2 TEST PROCEDURE

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

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

8.3 DEVIATION FROM STANDARD

No deviation.

8.4 TEST SETUP



8.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

8.6 TEST RESULTS

Please refer to the APPENDIX G.

9. POWER SPECTRAL DENSITY

9.1 LIMIT

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

9.2 TEST PROCEDURE

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

Spectrum Parameters	Setting
Span Frequency	25 MHz
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	EMI Test Receiver	Keysight	N9038A	MY56400060	Dec. 22, 2024
3	Cable	RW	LMR-400(30MHz-1GHz)(10m+2.5m+0.8M)	N/A	Jul. 04, 2024
4	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
5	1266 Chamber room	ETS	12*6*6	N/A	May 21, 2024

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

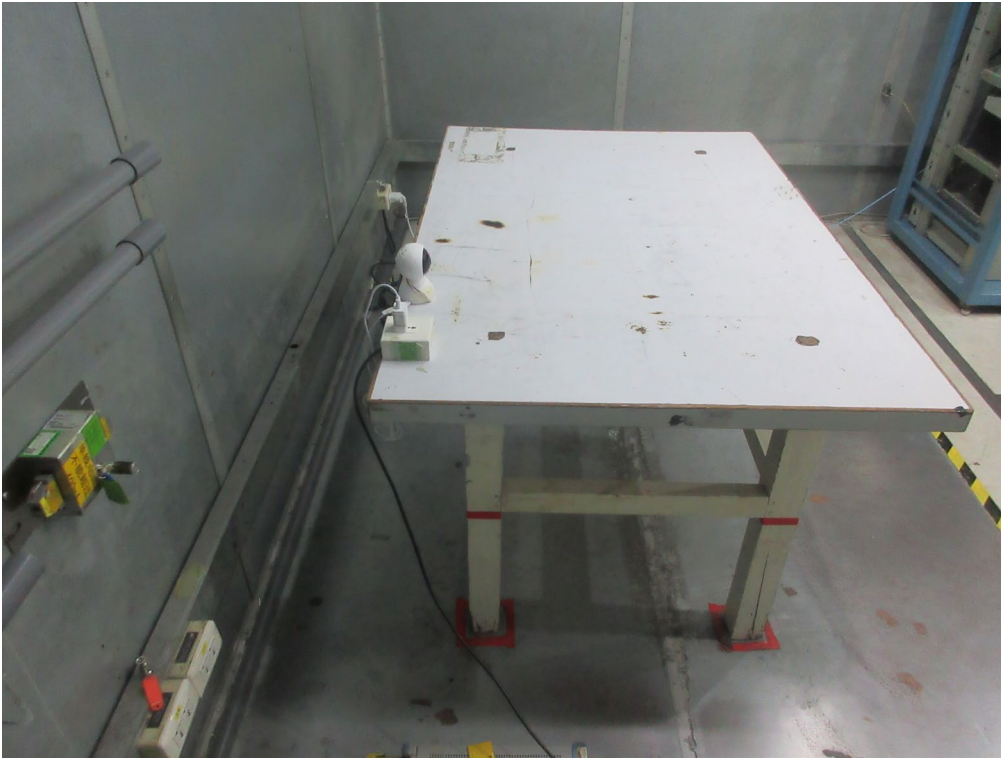
Radiated Emissions - Above 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Receiver	Agilent	N9038A	MY52130039	Dec. 22, 2024
2	Preamplifier	EMC INSTRUMENT	EMC118A45SE	981001	Nov. 17, 2024
3	MXA Signal Analyzer	KEYSIGHT	N9020B	MY63380204	Nov. 17, 2024
4	Double Ridged Guide Antenna	ETS	3115	75789	May 31, 2024
5	Cable	RegalWay	RWLP50-4.0A-SMS M-12.5M	N/A	Feb. 19, 2025
6	Cable	RegalWay	RWLP50-4.0A-NM RASM-2.5M	N/A	Aug. 08, 2024
7	Cable	RegalWay	RWLP50-4.0A-NM RASMRA-0.8M	N/A	Aug. 08, 2024
8	Low Noise Amplifier	CONNPHY	CLN-18G40G-4330 -K	619413	Jul. 06, 2024
9	Cable	RegalWay	RWLP50-2.6A-2.92 M2.92M-1.1M	N/A	Jul. 26, 2024
10	Cable	Tonscend	HF160-KMKM-3M	N/A	Jul. 26, 2024
11	Broad-Band Horn Antenna	Schwarzbeck	BBHA9170(3m)	9170-319	Jun. 20, 2024
12	966 Chamber room	CM	9*6*6	N/A	May 17, 2024
13	Attenuator	Talent Microwave	TA10A2-S-18	N/A	N/A
14	Positioning Controller	MF	MF-7802	N/A	N/A
15	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
16	Filter	STI	STI15-9912	N/A	Jun. 16, 2024

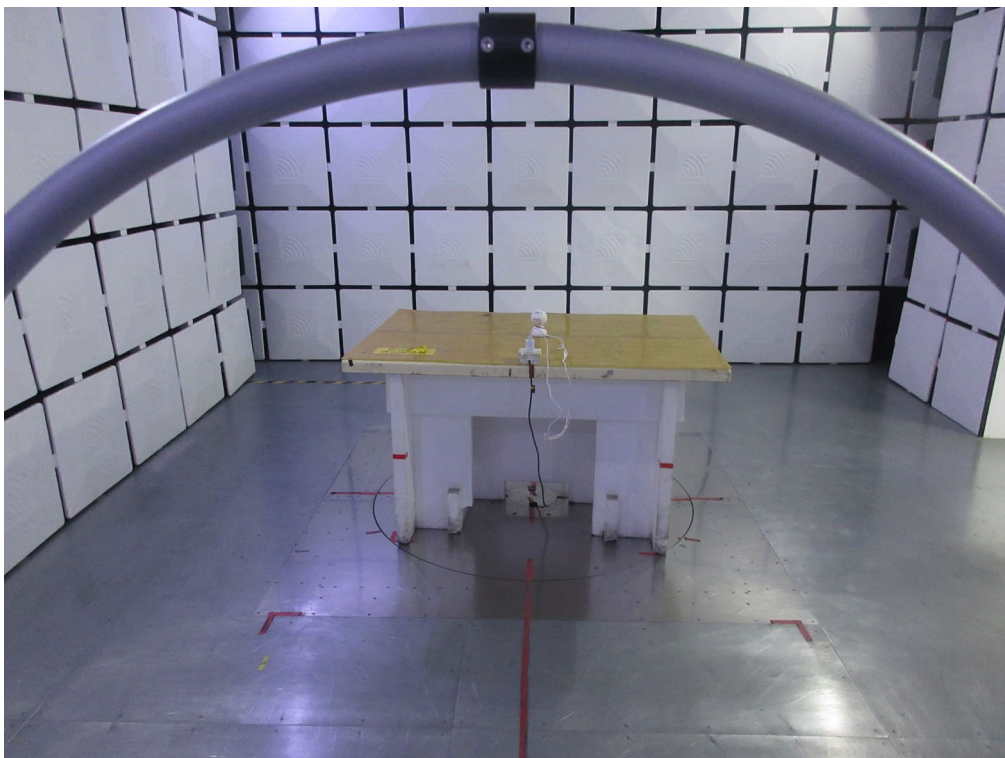
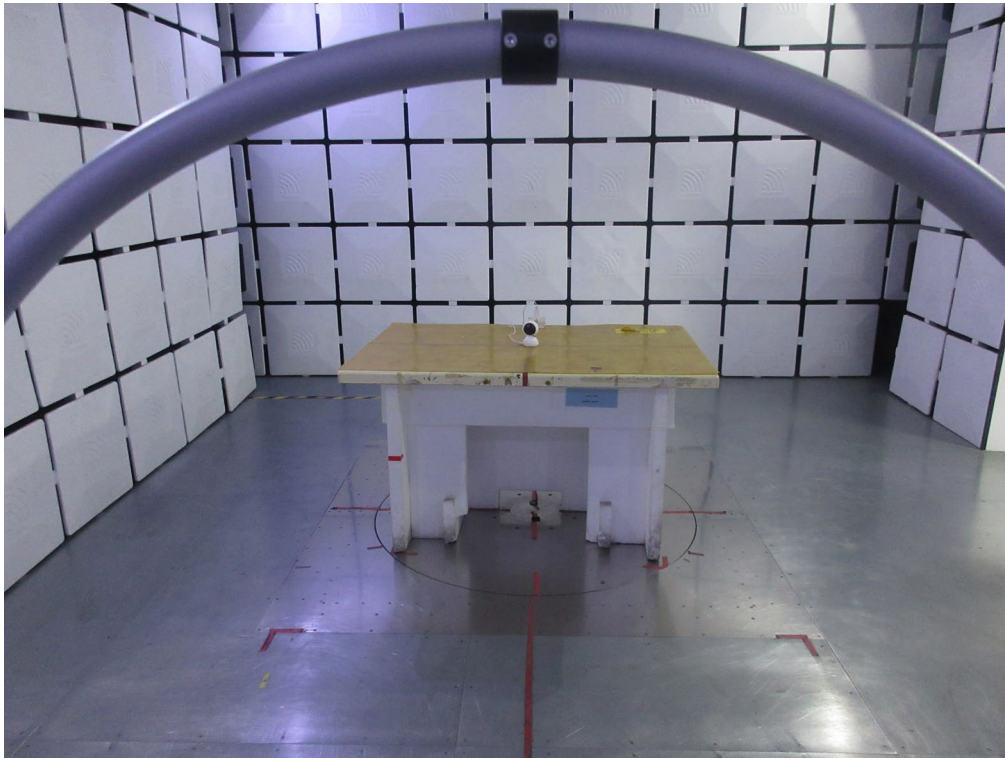
Bandwidth & Conducted Spurious Emissions & Power Spectral Density					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP38	100852	Jun. 16, 2024
2	Attenuator	Talent Microwave	TA10A0-S-26.5	N/A	N/A
3	DC Block	N/A	N/A	N/A	N/A
4	Attenuator	Talent Microwave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

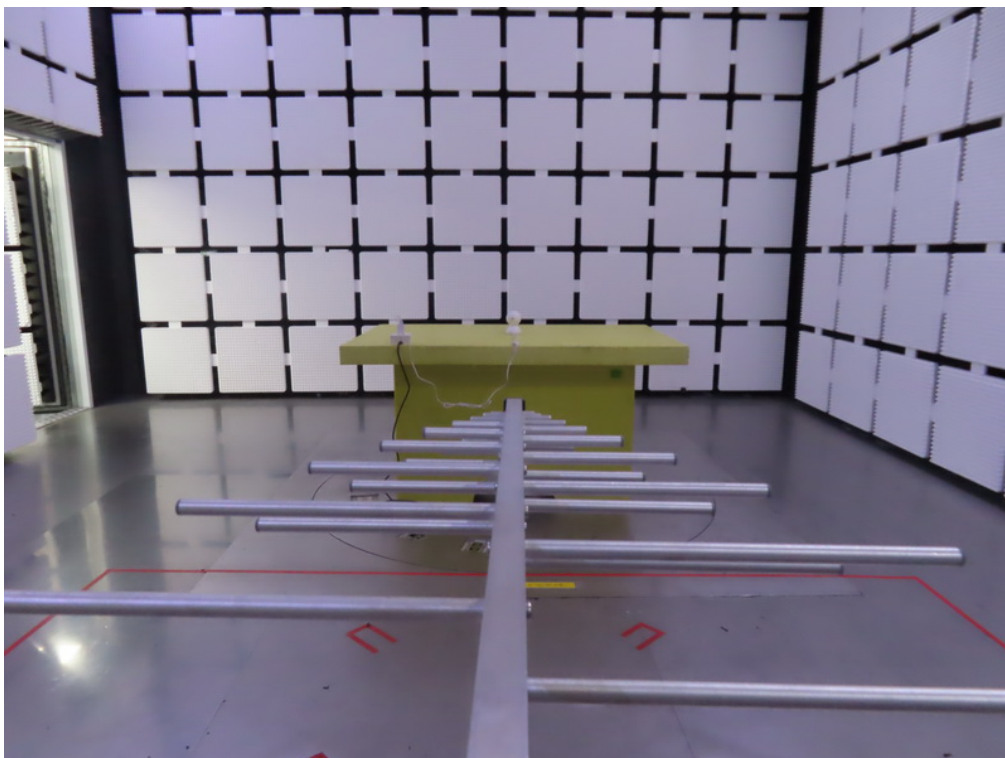
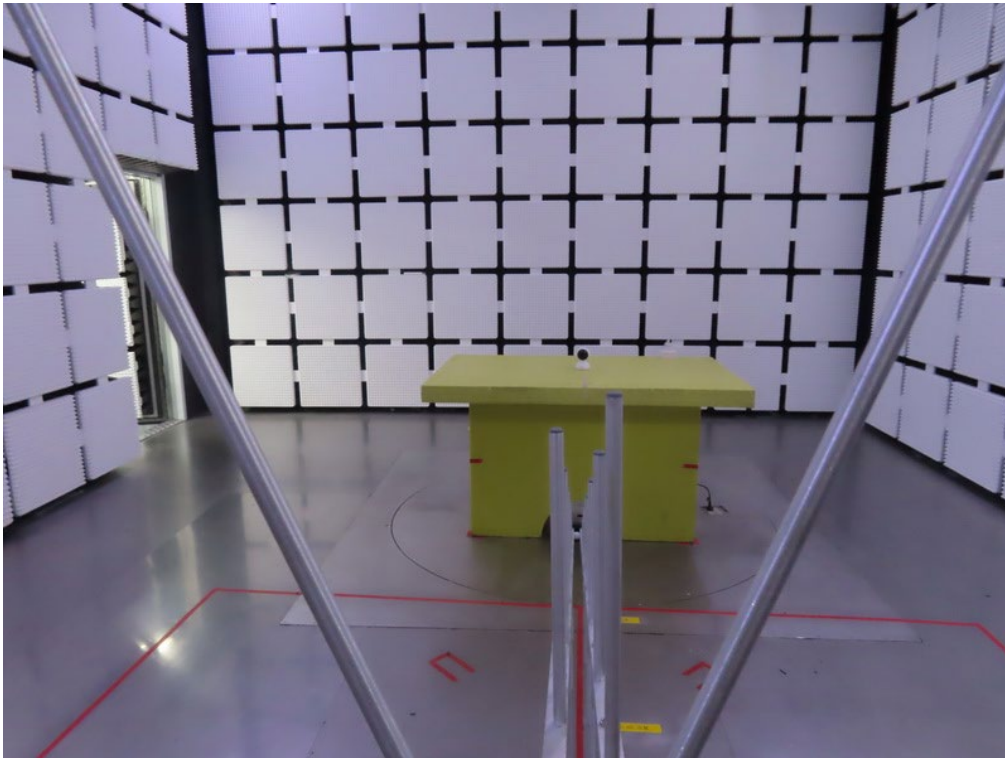
Maximum Output Power					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Peak Power Analyzer	Keysight	8990B	MY51000506	Jun. 17, 2024
2	Wideband power sensor	Keysight	N1923A	MY58310004	Jun. 17, 2024
3	Attenuator	Talent Microwave	TA10A2-S-18	N/A	N/A

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

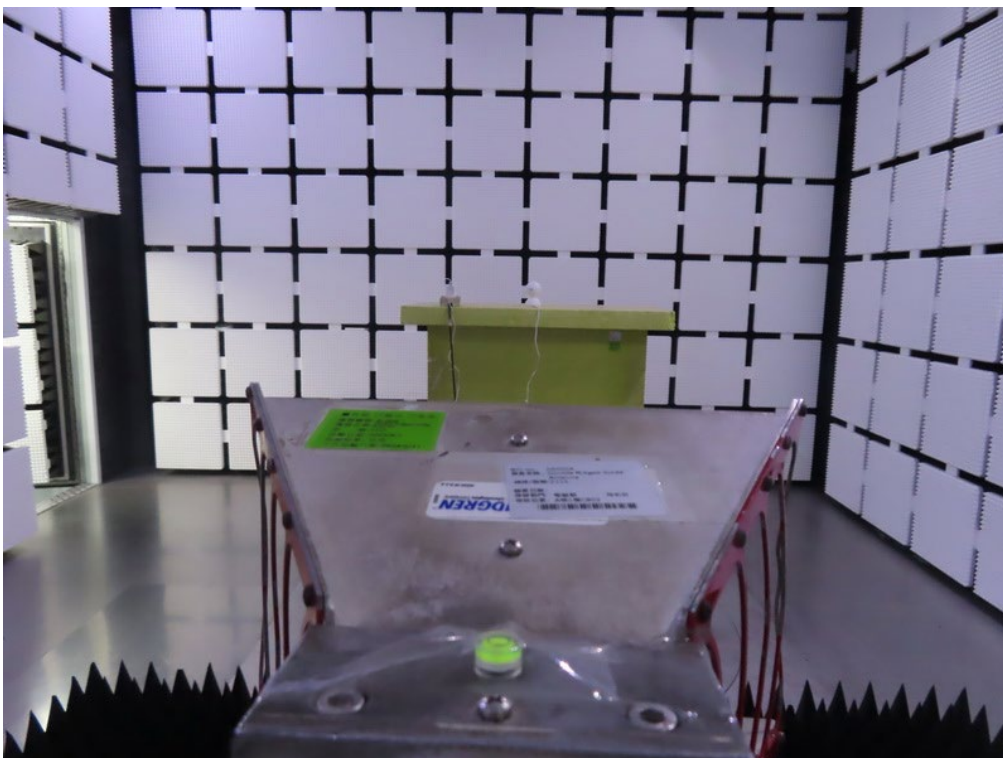
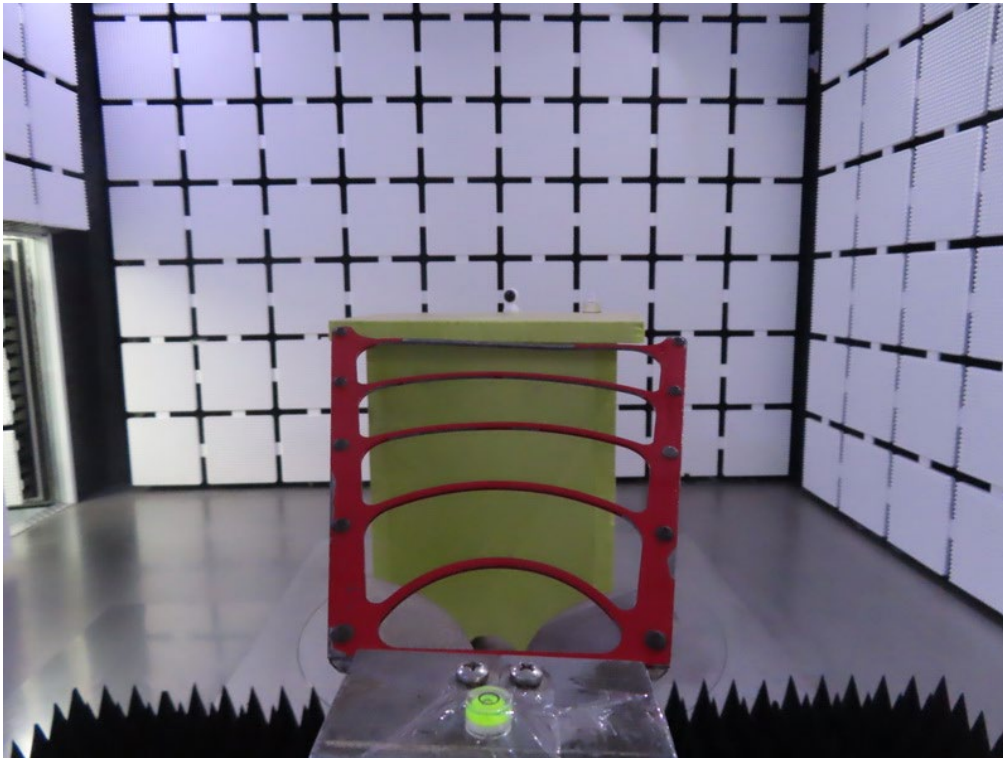
All calibration period of equipment list is one year.

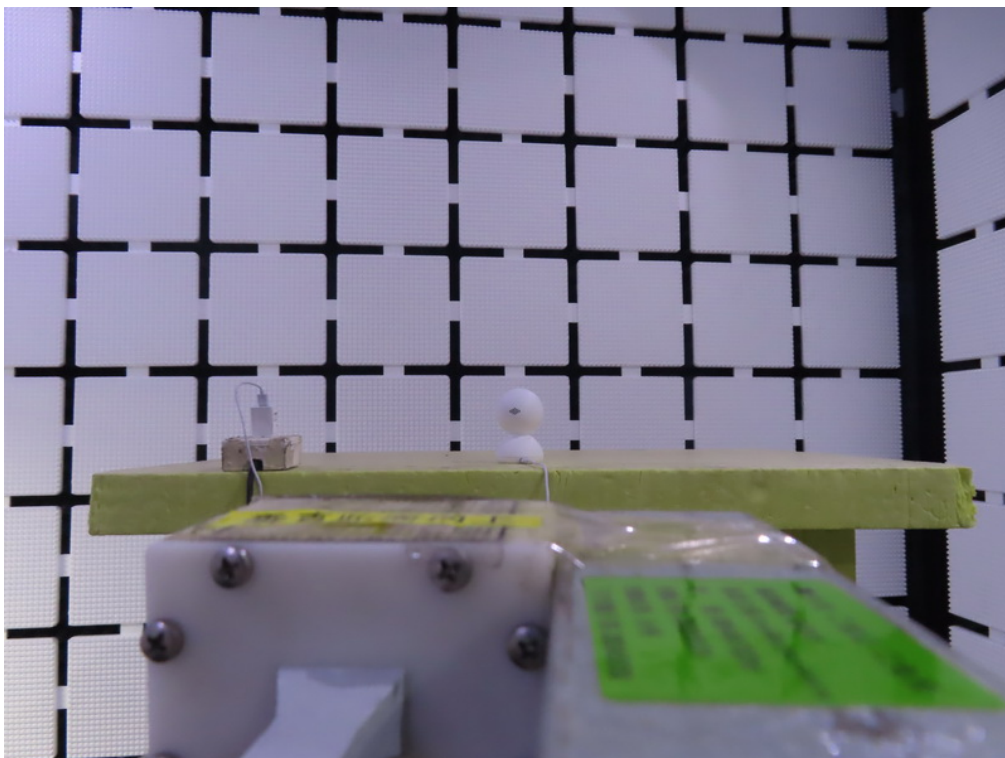
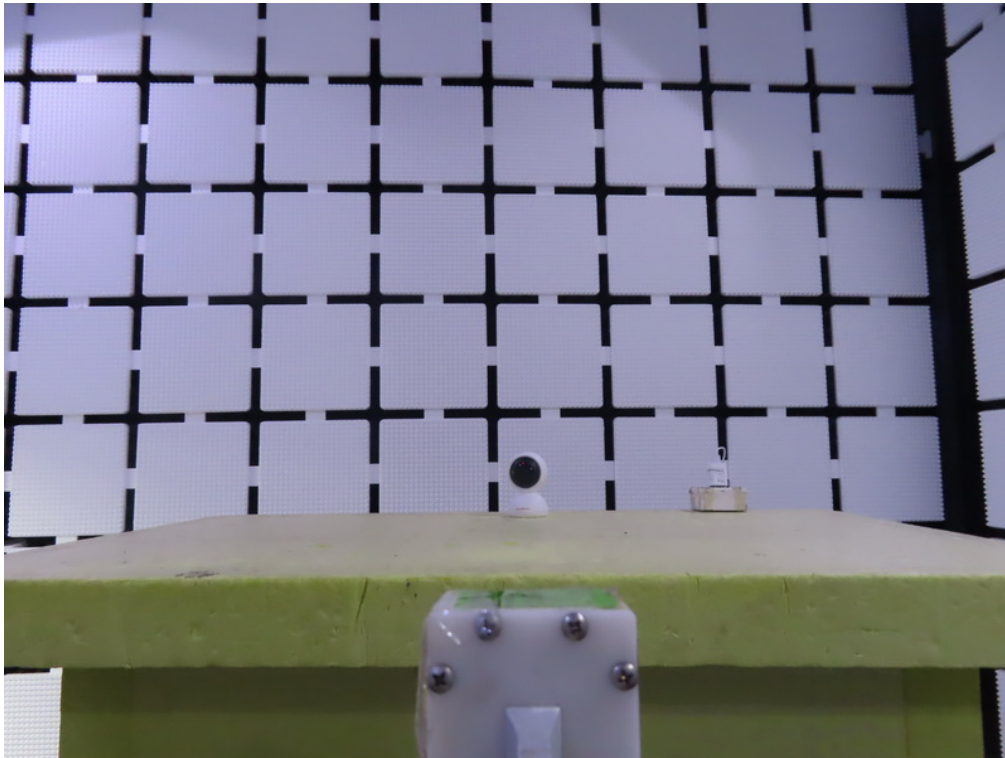
11. EUT TEST PHOTO**AC Power Line Conducted Emissions Test Photos**

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

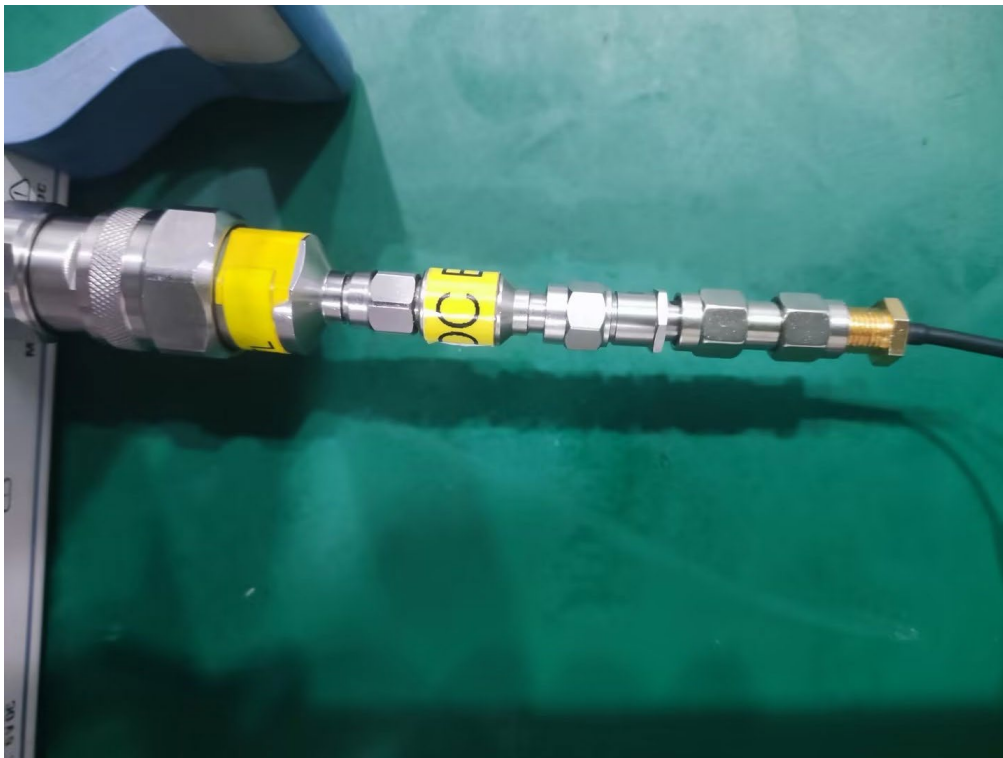
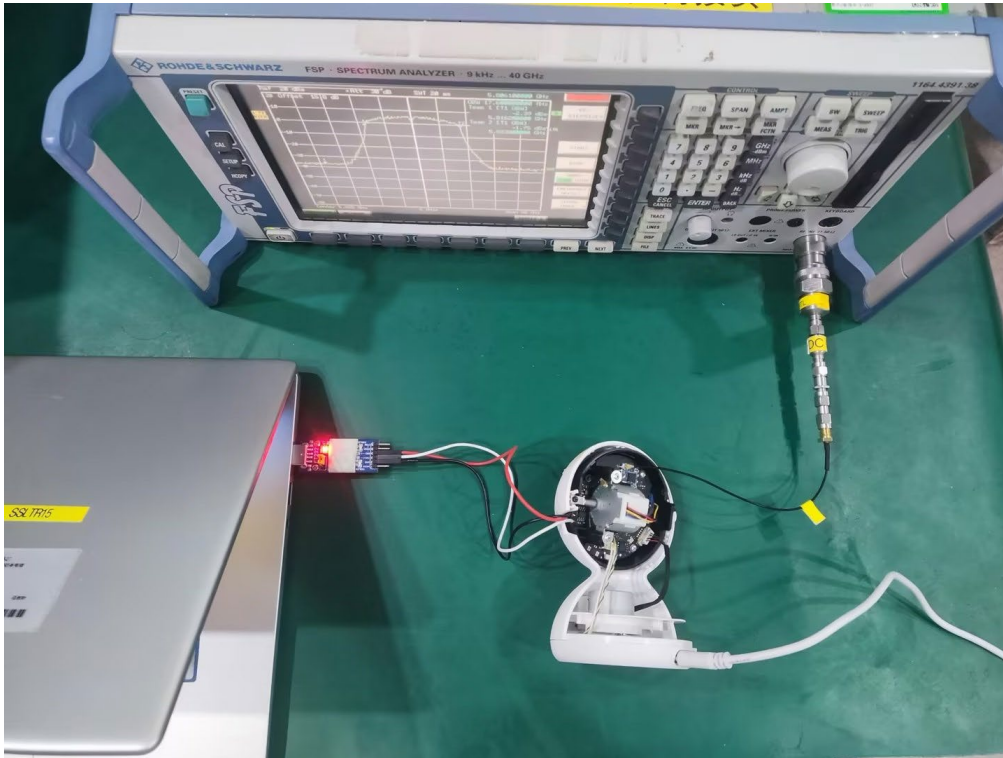
Radiated Emissions Test Photos**30 MHz to 1 GHz**

Radiated Emissions Test Photos
Band edge & Harmonic 1 GHz - 18 GHz



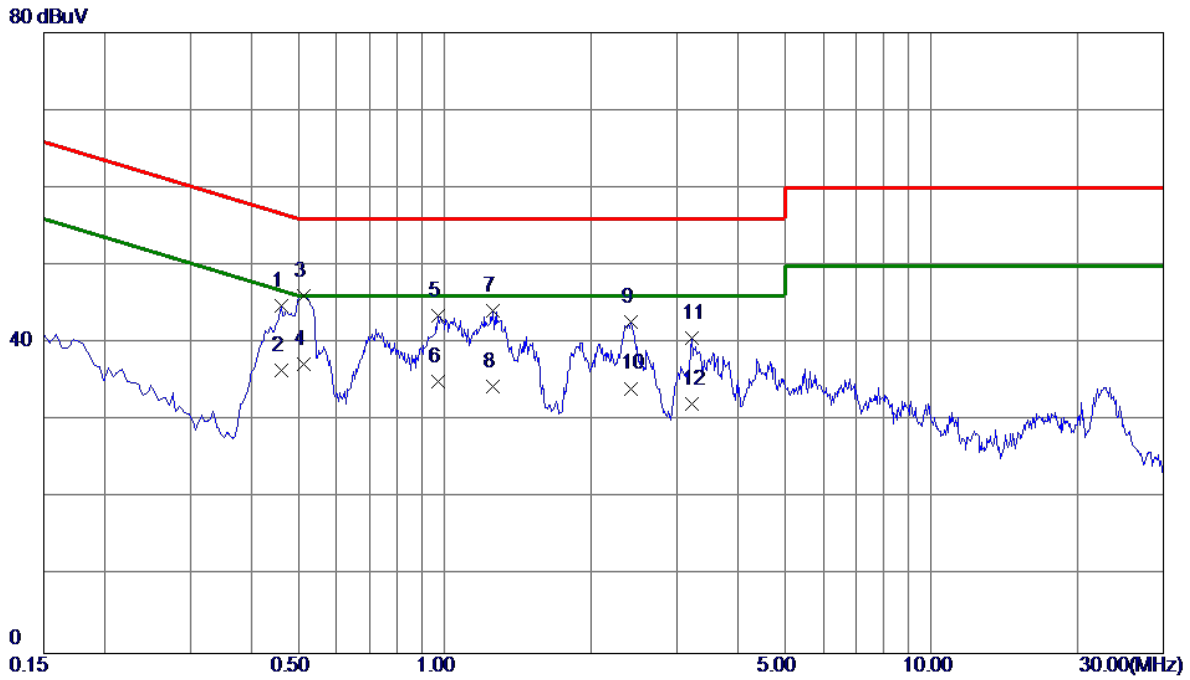
Radiated Emissions Test Photos**Harmonic Above 18 GHz**

Conducted Test Photos



APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS

Test Mode	TX G Mode Channel 06	Phase	Line
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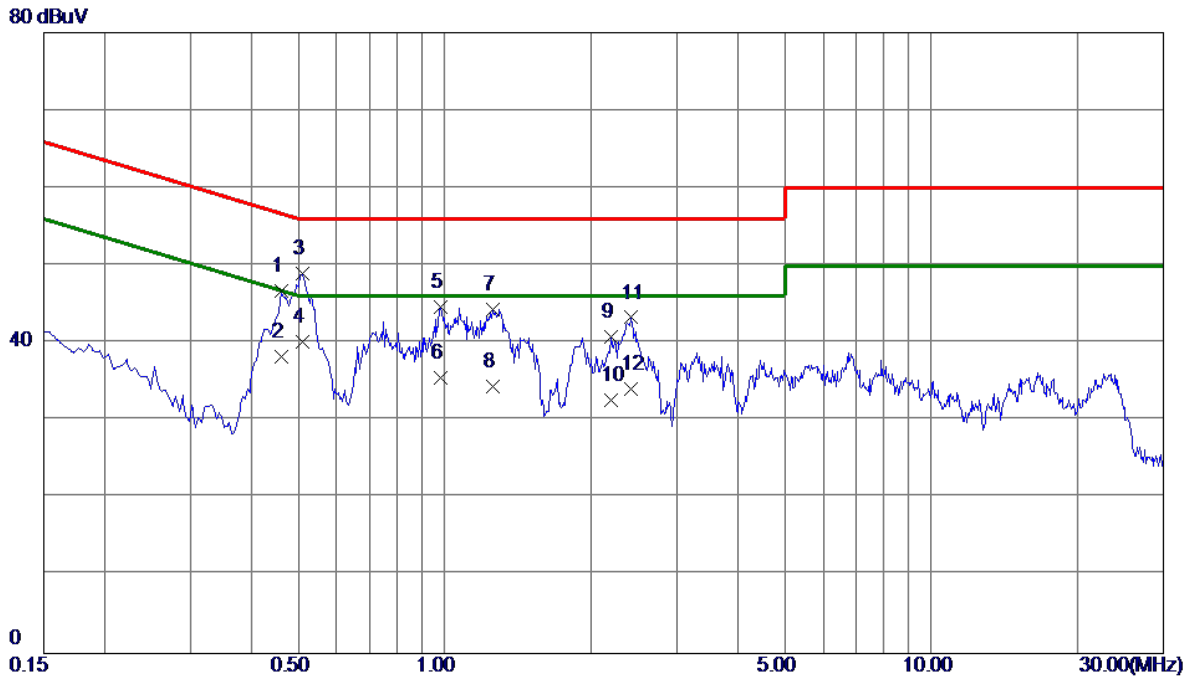


No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.4605	34.30	10.54	44.84	56.68	-11.84	QP	
2	0.4605	25.90	10.54	36.44	46.68	-10.24	AVG	
3	0.5144	35.49	10.66	46.15	56.00	-9.85	QP	
4 *	0.5144	26.60	10.66	37.26	46.00	-8.74	AVG	
5	0.9690	32.22	11.24	43.46	56.00	-12.54	QP	
6	0.9690	23.80	11.24	35.04	46.00	-10.96	AVG	
7	1.2570	32.78	11.31	44.09	56.00	-11.91	QP	
8	1.2570	23.10	11.31	34.41	46.00	-11.59	AVG	
9	2.4180	32.12	10.66	42.78	56.00	-13.22	QP	
10	2.4180	23.50	10.66	34.16	46.00	-11.84	AVG	
11	3.2190	30.18	10.44	40.62	56.00	-15.38	QP	
12	3.2190	21.70	10.44	32.14	46.00	-13.86	AVG	

REMARKS:

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

Test Mode	TX G Mode Channel 06	Phase	Neutral
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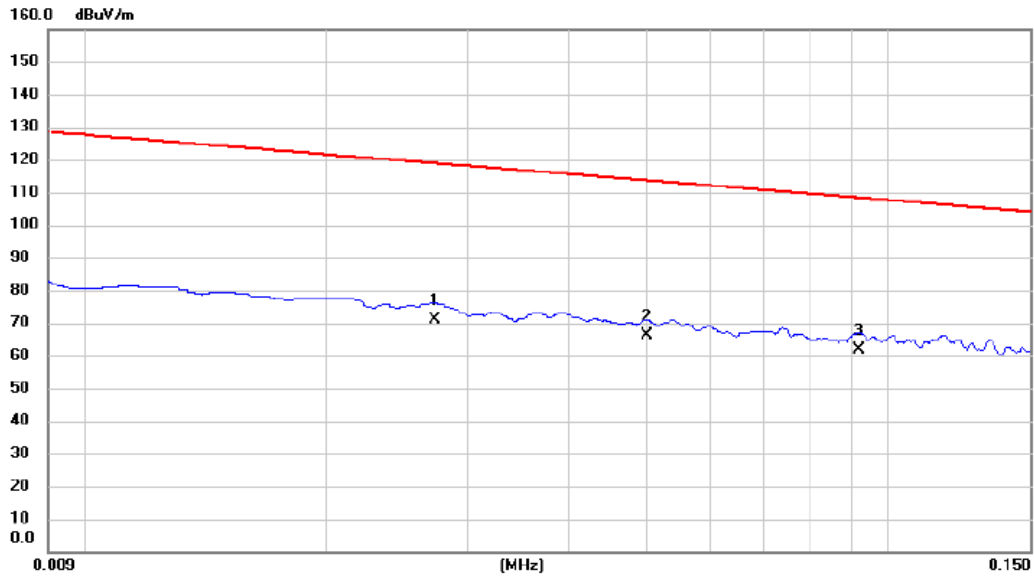
No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.4605	36.22	10.50	46.72	56.68	-9.96	QP	
2	0.4605	27.70	10.50	38.20	46.68	-8.48	AVG	
3	0.5100	38.41	10.61	49.02	56.00	-6.98	QP	
4 *	0.5100	29.60	10.61	40.21	46.00	-5.79	AVG	
5	0.9824	33.48	11.20	44.68	56.00	-11.32	QP	
6	0.9824	24.30	11.20	35.50	46.00	-10.50	AVG	
7	1.2570	33.00	11.26	44.26	56.00	-11.74	QP	
8	1.2570	23.11	11.26	34.37	46.00	-11.63	AVG	
9	2.1974	30.02	10.77	40.79	56.00	-15.21	QP	
10	2.1974	21.80	10.77	32.57	46.00	-13.43	AVG	
11	2.4134	32.67	10.61	43.28	56.00	-12.72	QP	
12	2.4134	23.51	10.61	34.12	46.00	-11.88	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 G Mode Channel 06	Polarization	Ant 0°
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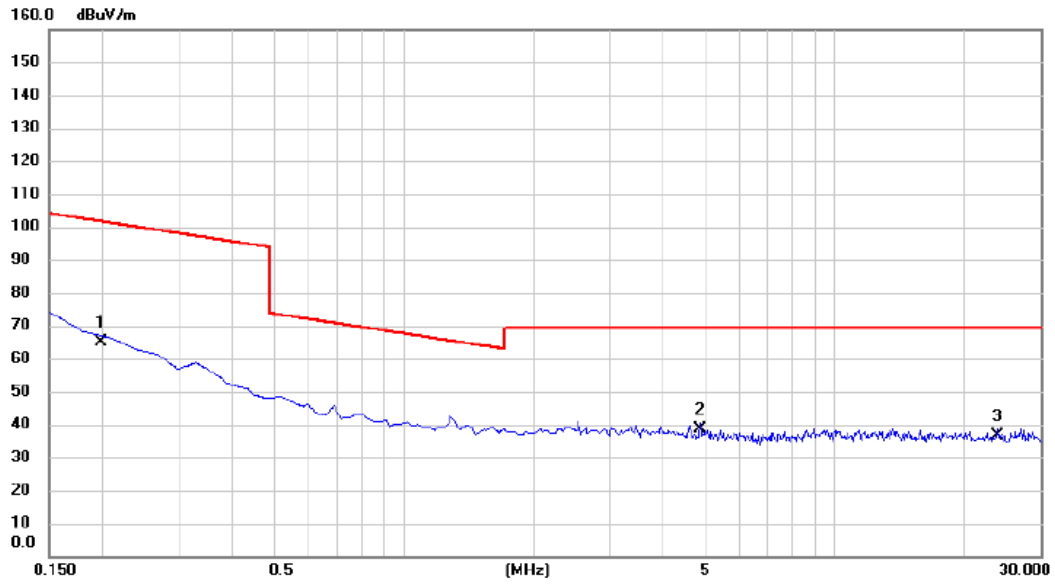


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	0.027	50.13	21.02	71.15	118.88	-47.73	AVG	
2	0.050	44.85	21.20	66.05	113.63	-47.58	AVG	
3 *	0.092	40.60	21.33	61.93	108.32	-46.39	QP	

REMARKS:

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

Test Mode	TX G Mode Channel 06	Polarization	Ant 0°
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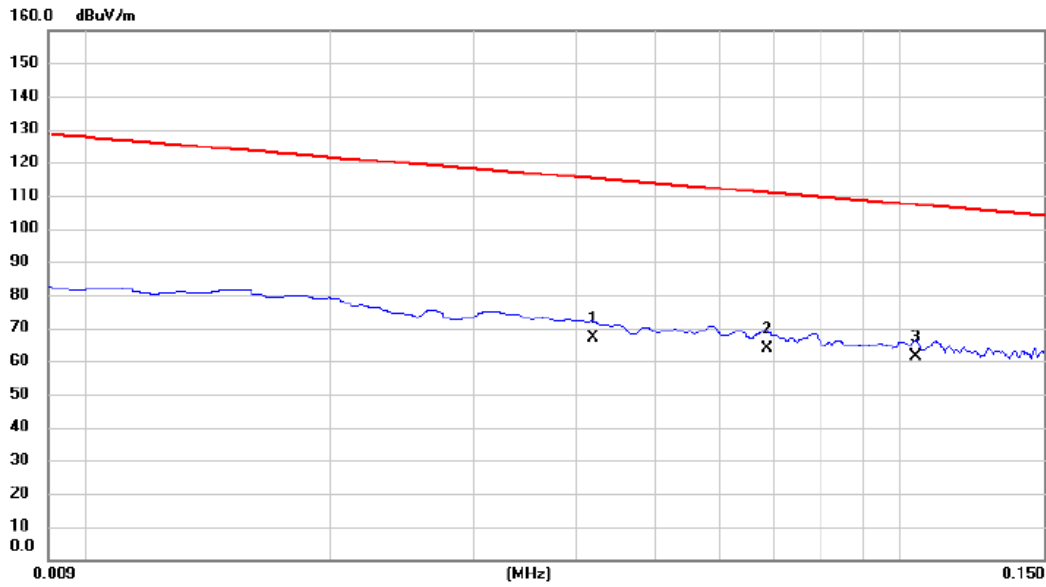


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	0.199	43.82	21.19	65.01	101.65	-36.64	AVG	
2 *	4.851	17.54	21.15	38.69	69.54	-30.85	QP	
3	23.896	14.95	21.64	36.59	69.54	-32.95	QP	

REMARKS:

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

Test Mode	TX G Mode Channel 06	Polarization	Ant 90°
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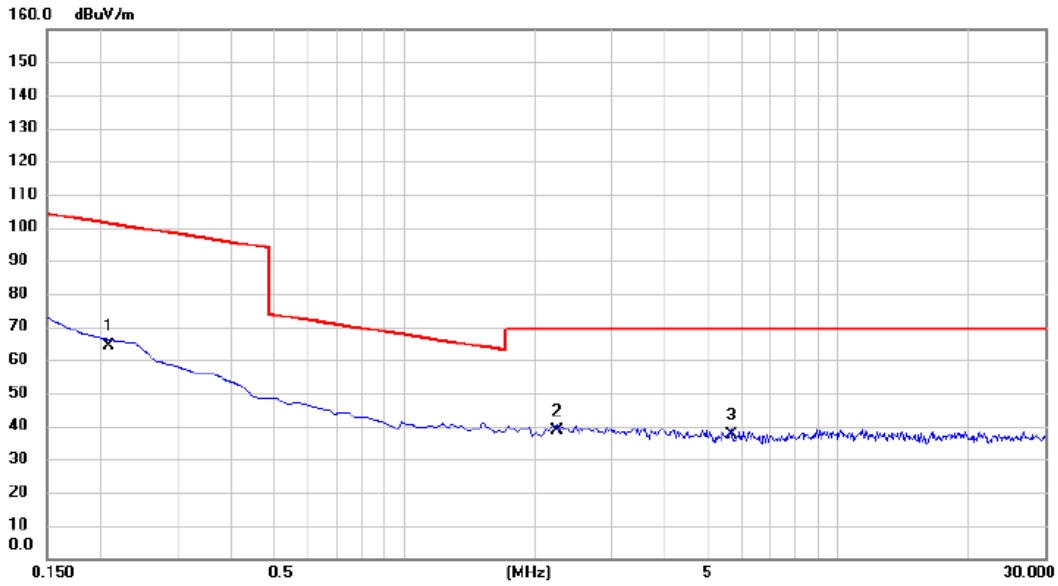


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.042	45.86	21.16	67.02	115.14	-48.12	AVG	
2		0.069	42.74	21.26	64.00	110.88	-46.88	AVG	
3	*	0.104	40.15	21.32	61.47	107.23	-45.76	QP	

REMARKS:

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

Test Mode	TX G Mode Channel 06	Polarization	Ant 90°
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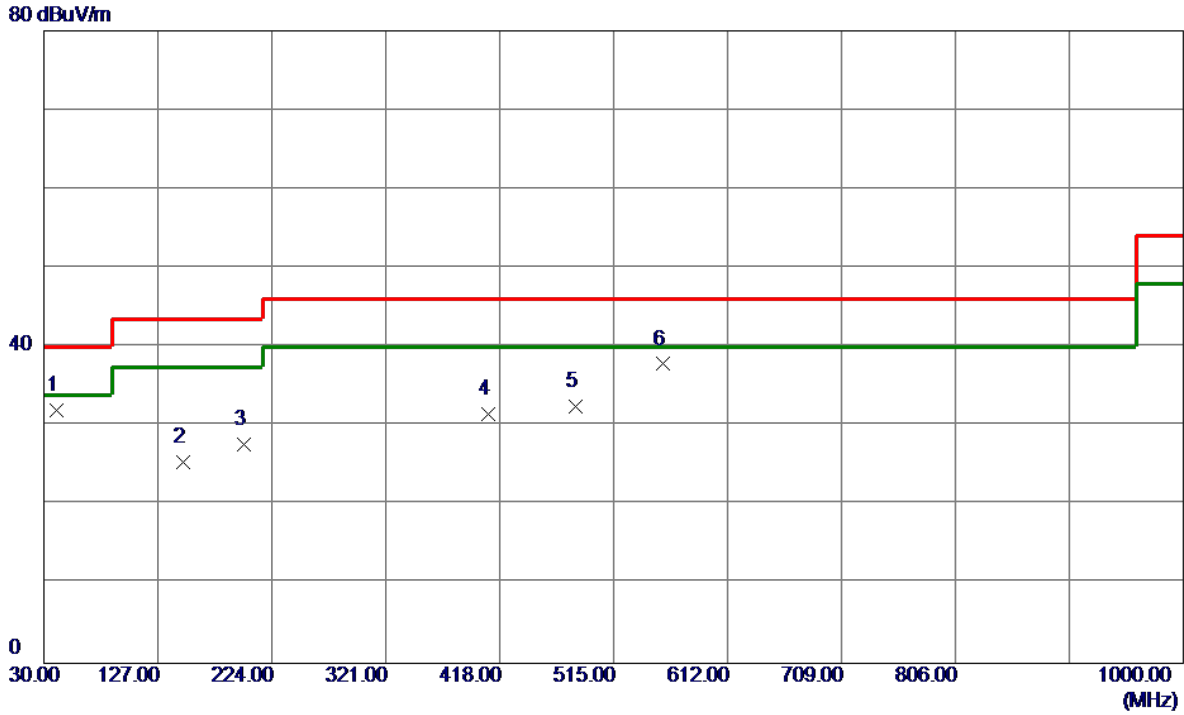
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.208	43.03	21.18	64.21	101.23	-37.02	AVG	
2	*	2.254	17.41	21.10	38.51	69.54	-31.03	QP	
3		5.672	16.32	21.16	37.48	69.54	-32.06	QP	

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 G Mode Channel 06	Polarization	Vertical
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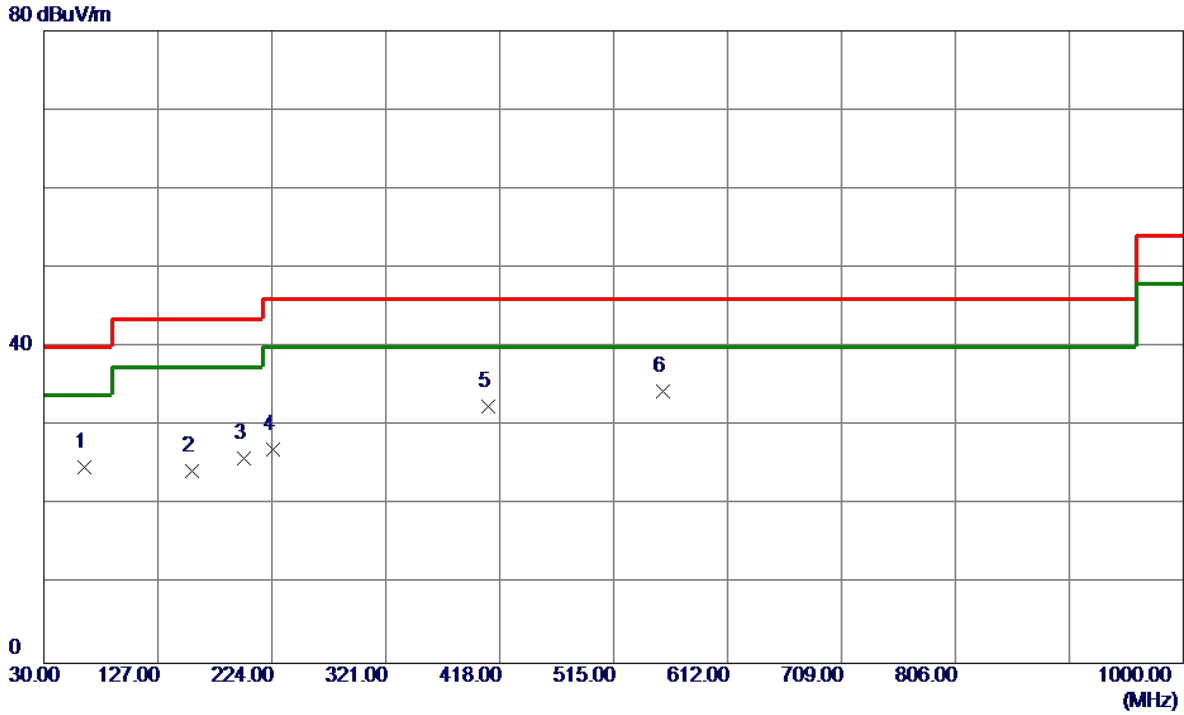


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	40.6699	43.69	-11.72	31.97	40.00	-8.03	Peak	
2	148.3400	36.73	-11.31	25.42	43.50	-18.08	Peak	
3	200.2350	42.24	-14.50	27.74	43.50	-15.76	Peak	
4	408.3000	39.40	-7.93	31.47	46.00	-14.53	Peak	
5	482.5050	38.86	-6.38	32.48	46.00	-13.52	Peak	
6	556.7100	42.78	-4.94	37.84	46.00	-8.16	Peak	

REMARKS:

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

Test Mode	TX G Mode Channel 06	Polarization	Horizontal
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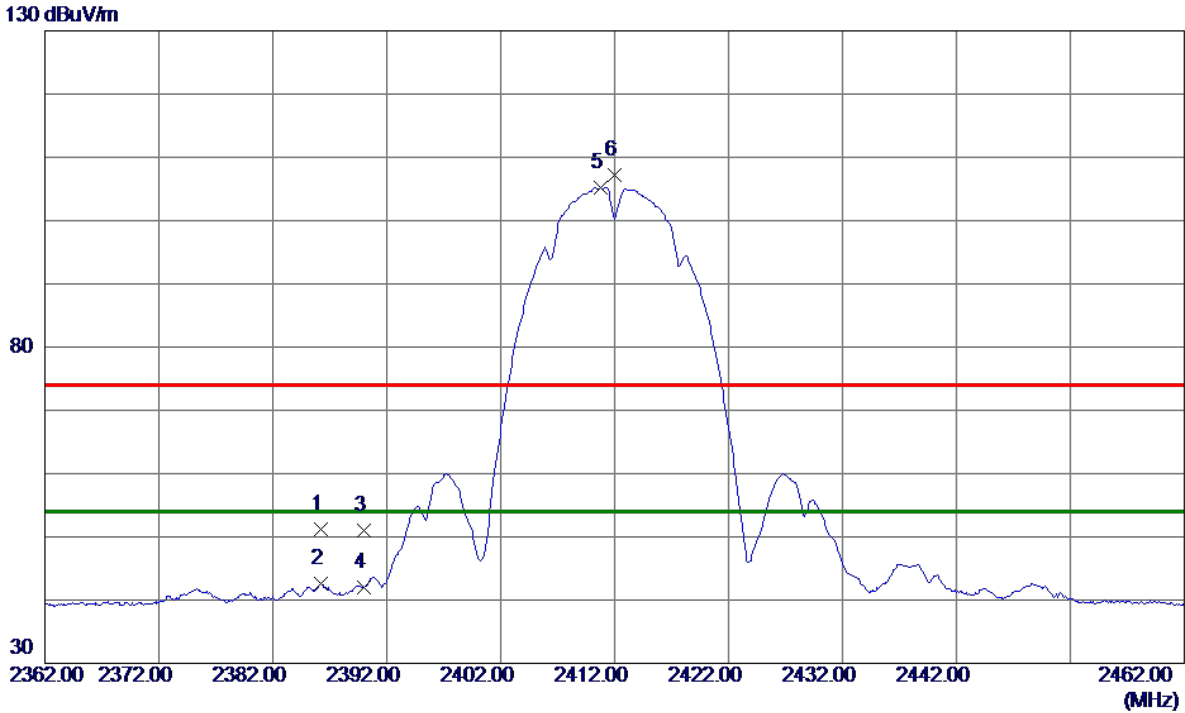
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	64.4350	37.37	-12.62	24.75	40.00	-15.25	Peak	
2	155.6150	35.37	-11.04	24.33	43.50	-19.17	Peak	
3	200.2350	40.48	-14.50	25.98	43.50	-17.52	Peak	
4	224.9700	41.11	-14.06	27.05	46.00	-18.95	Peak	
5	408.3000	40.35	-7.93	32.42	46.00	-13.58	Peak	
6 *	556.7100	39.32	-4.94	34.38	46.00	-11.62	Peak	

REMARKS:

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

APPENDIX D - RADIATED EMISSION- ABOVE 1000 MHZ

Test Mode	TX B Mode 2412 MHz	Polarization	Vertical
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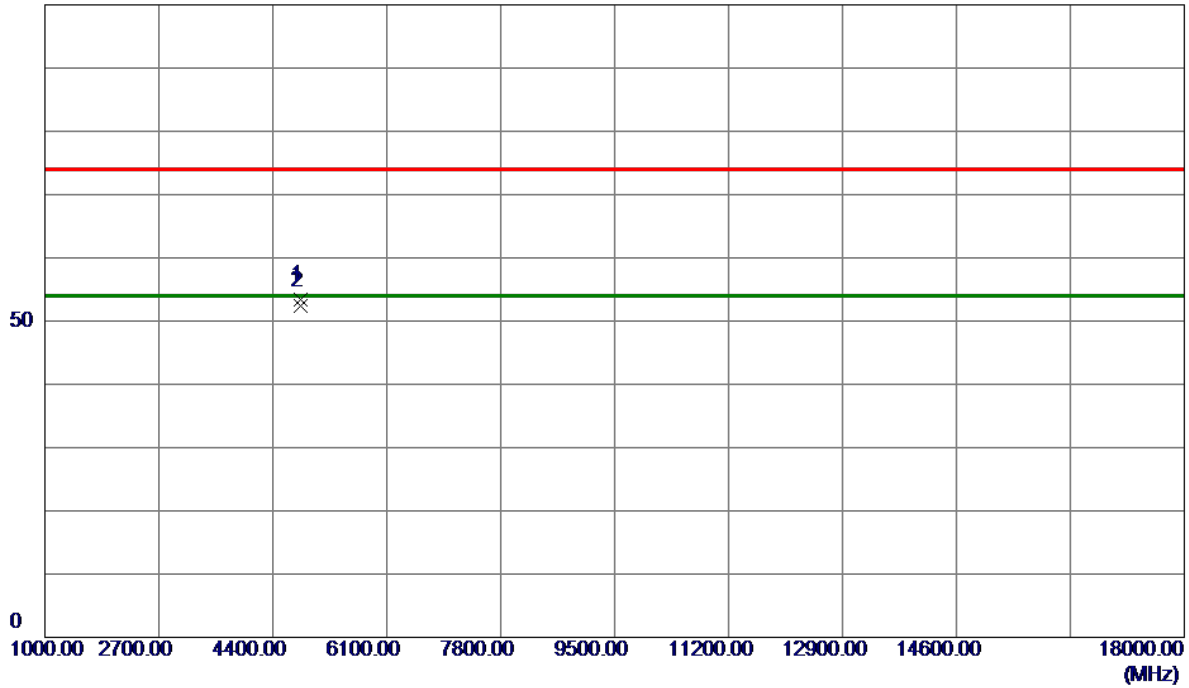
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2386.2000	42.74	8.51	51.25	74.00	-22.75	Peak	
2	2386.2000	34.06	8.51	42.57	54.00	-11.43	AVG	
3	2390.0000	42.53	8.51	51.04	74.00	-22.96	Peak	
4	2390.0000	33.50	8.51	42.01	54.00	-11.99	AVG	
5 *	2410.8000	96.67	8.50	105.17	54.00	51.17	AVG	No Limit
6	2411.9500	98.69	8.50	107.19	74.00	33.19	Peak	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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100 dBuV/m

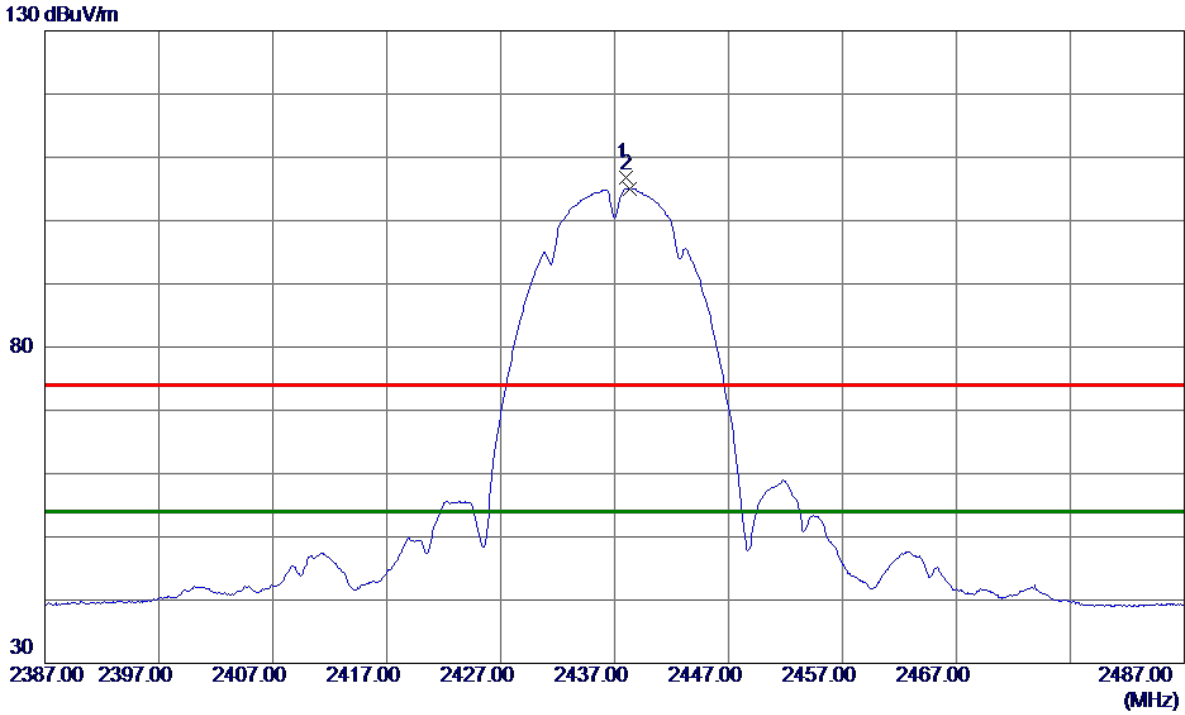


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4824.0750	50.88	2.46	53.34	74.00	-20.66	Peak	
2 *	4824.0750	49.89	2.46	52.35	54.00	-1.65	AVG	

REMARKS:

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

Test Mode	TX B Mode 2437 MHz	Polarization	Vertical
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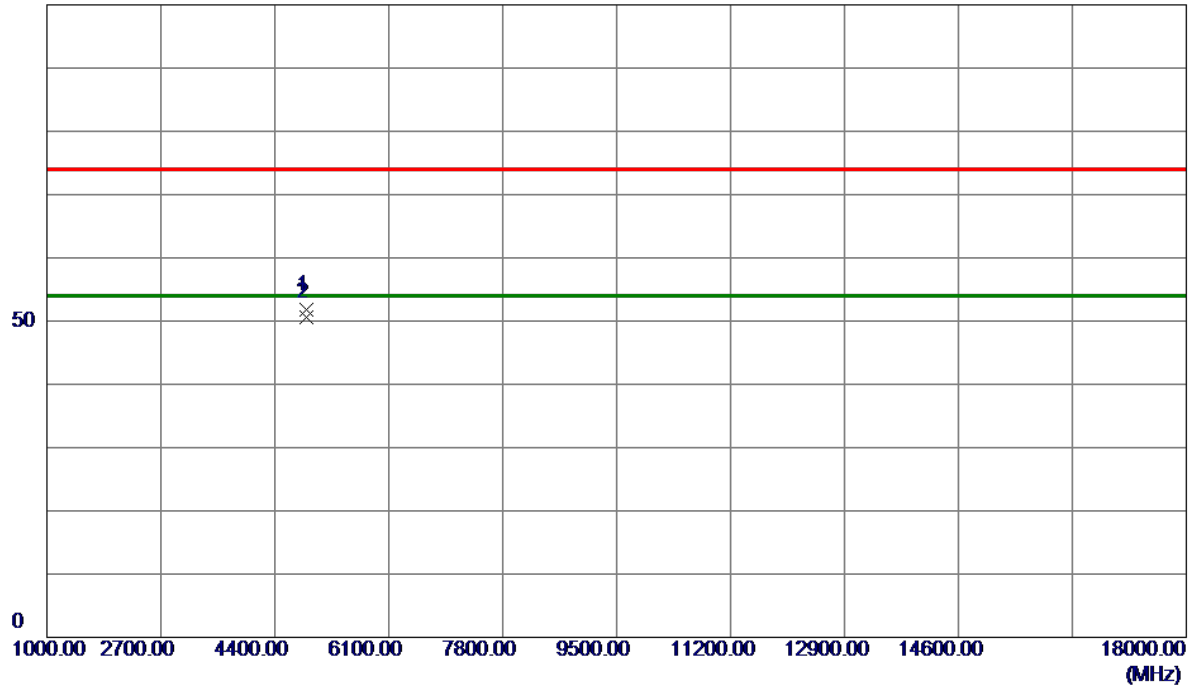
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2437.9500	98.35	8.49	106.84	74.00	32.84	Peak	No Limit
2 *	2438.3500	96.51	8.49	105.00	54.00	51.00	AVG	No Limit

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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100 dBuV/m

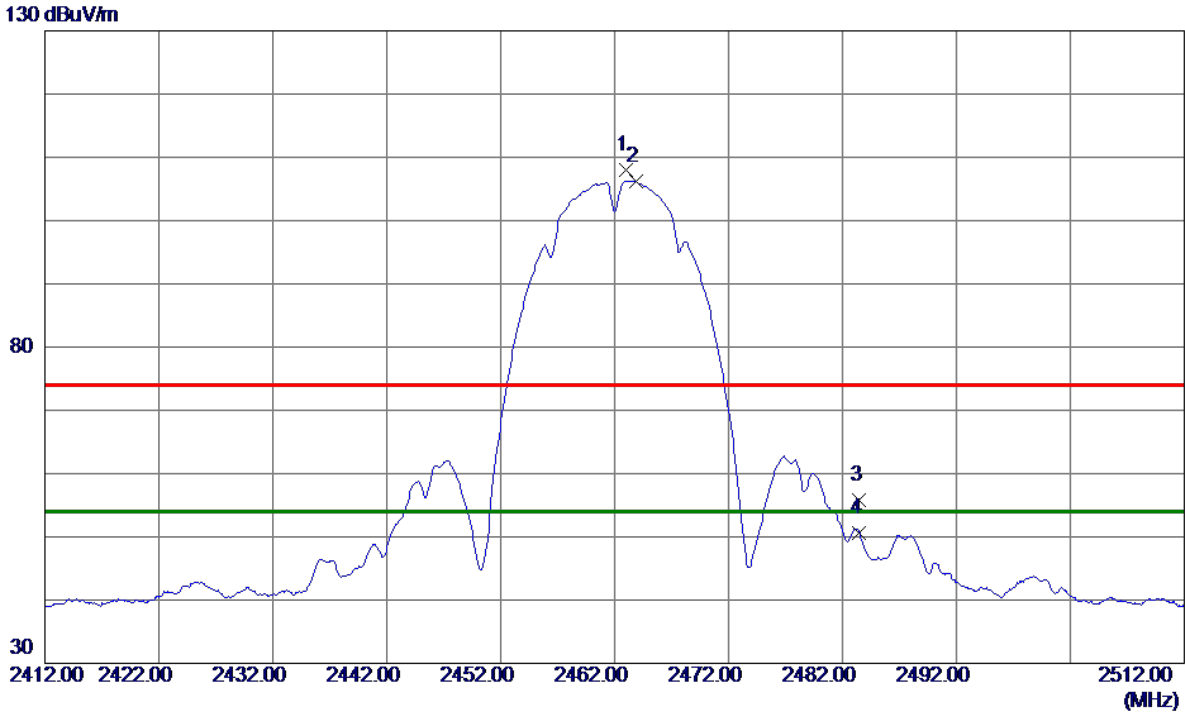


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4873.9500	49.30	2.57	51.87	74.00	-22.13	Peak	
2 *	4874.0500	48.06	2.58	50.64	54.00	-3.36	AVG	

REMARKS:

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

Test Mode	TX B Mode 2462 MHz	Polarization	Vertical
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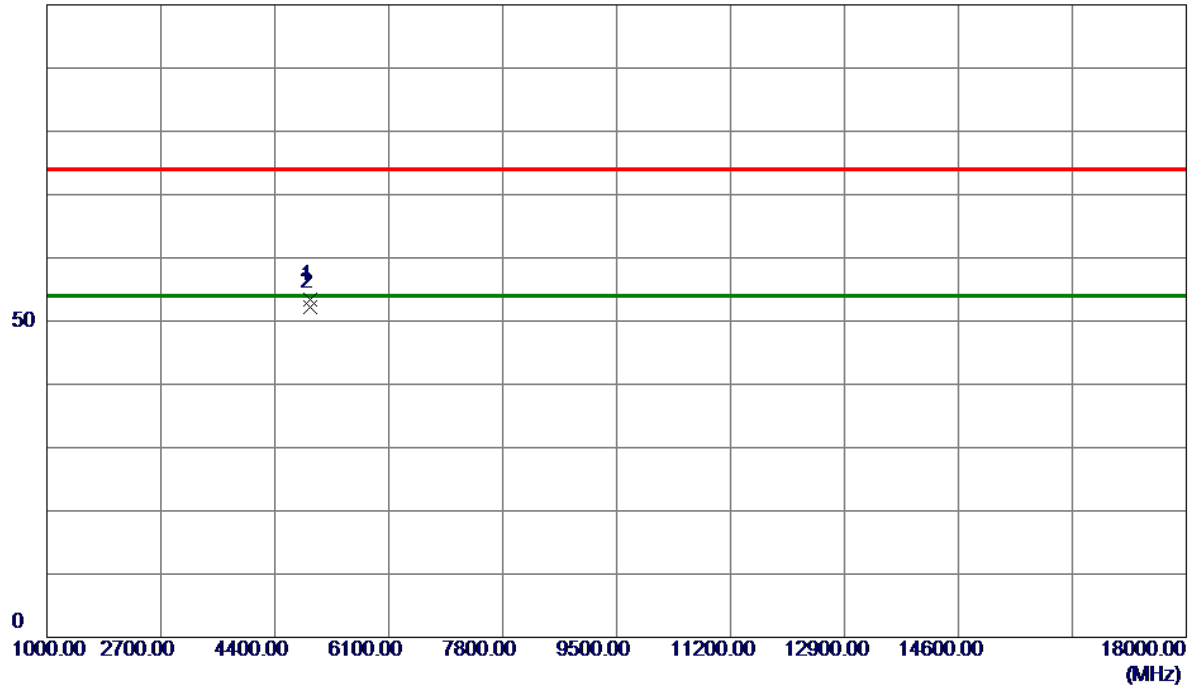
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2462.9500	99.60	8.49	108.09	74.00	34.09	Peak	No Limit
2 *	2463.9000	97.74	8.49	106.23	54.00	52.23	AVG	No Limit
3	2483.5000	47.33	8.48	55.81	74.00	-18.19	Peak	
4	2483.5000	42.04	8.48	50.52	54.00	-3.48	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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100 dBuV/m

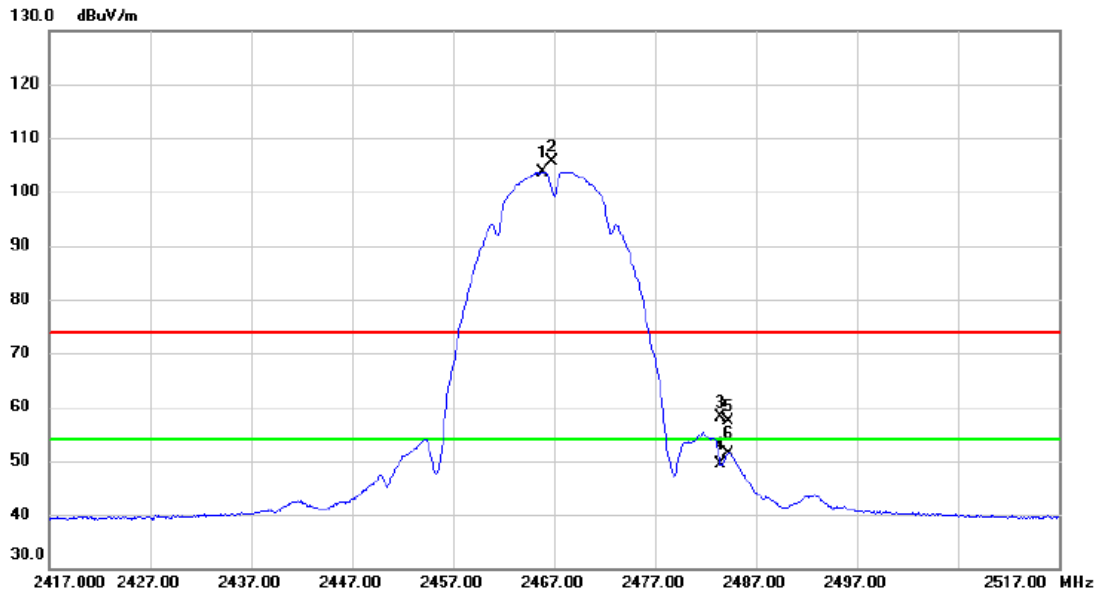


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4924.0750	50.67	2.69	53.36	74.00	-20.64	Peak	
2 *	4924.0750	49.54	2.69	52.23	54.00	-1.77	AVG	

REMARKS:

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

Test Mode	TX B Mode 2467 MHz	Polarization	Vertical
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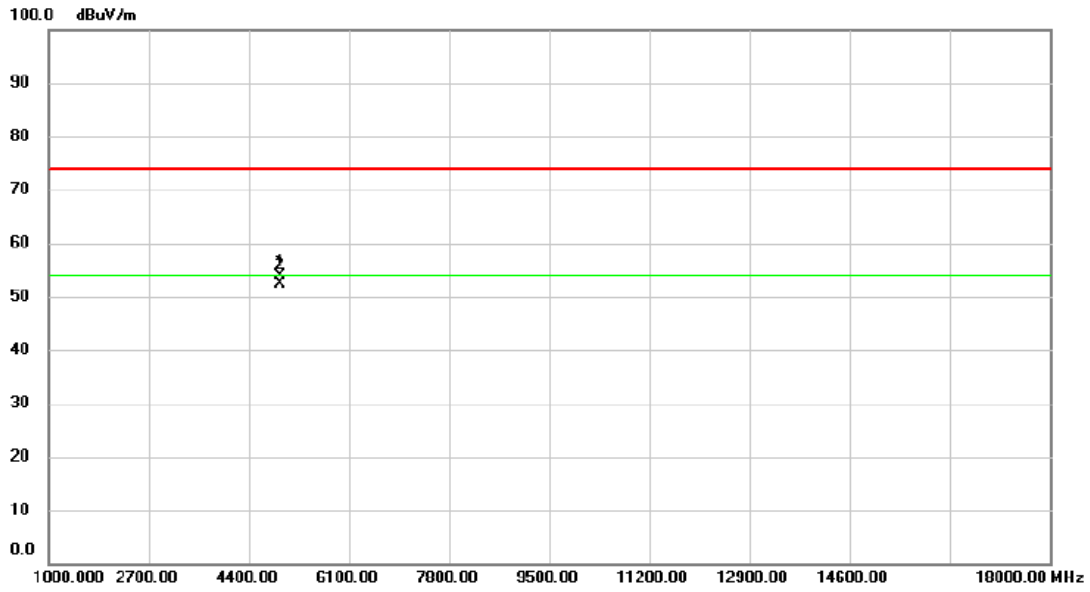


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2465.900	95.17	8.49	103.66	54.00	49.66	AVG	No Limit
2	X	2466.750	97.14	8.48	105.62	74.00	31.62	peak	No Limit
3		2483.500	49.66	8.47	58.13	74.00	-15.87	peak	
4		2483.500	40.94	8.47	49.41	54.00	-4.59	AVG	
5		2484.250	48.81	8.47	57.28	74.00	-16.72	peak	
6		2484.250	42.93	8.47	51.40	54.00	-2.60	AVG	

REMARKS:

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

Test Mode	TX B Mode 2467 MHz	Polarization	Horizontal
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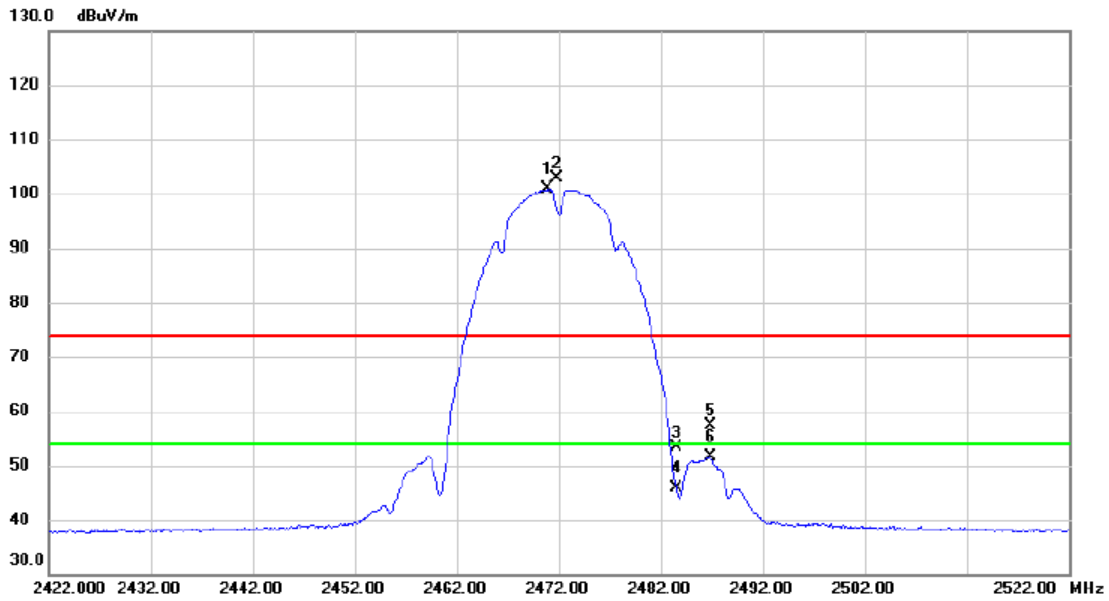
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4934.050	51.24	2.72	53.96	74.00	-20.04	peak	
2	*	4934.050	49.73	2.72	52.45	54.00	-1.55	AVG	

REMARKS:

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

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

Test Mode	TX B Mode 2472 MHz	Polarization	Vertical
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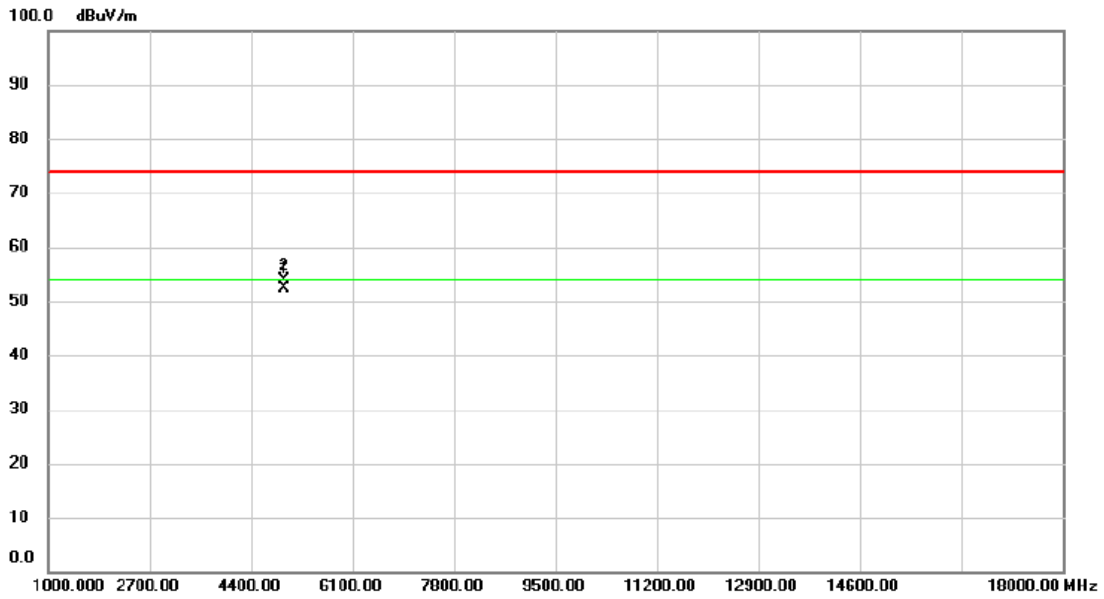
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2470.850	92.33	8.48	100.81	54.00	46.81	AVG	No Limit
2	X	2471.800	94.38	8.48	102.86	74.00	28.86	peak	No Limit
3		2483.500	44.82	8.47	53.29	74.00	-20.71	peak	
4		2483.500	37.53	8.47	46.00	54.00	-8.00	AVG	
5		2486.800	49.00	8.47	57.47	74.00	-16.53	peak	
6		2486.800	43.10	8.47	51.57	54.00	-2.43	AVG	

REMARKS:

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

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

Test Mode	TX B Mode 2472 MHz	Polarization	Horizontal
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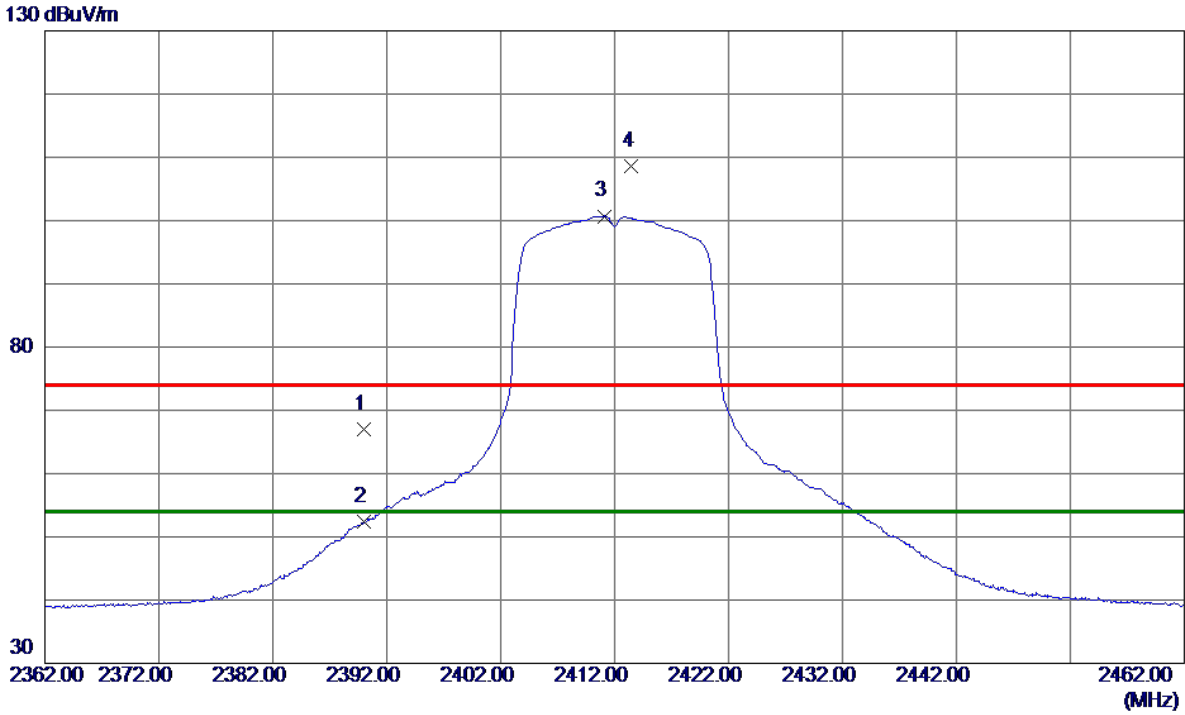


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	4944.100	49.74	2.73	52.47	54.00	-1.53	AVG	
2		4944.175	51.20	2.73	53.93	74.00	-20.07	peak	

REMARKS:

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

Test Mode	TX G Mode 2412 MHz	Polarization	Vertical
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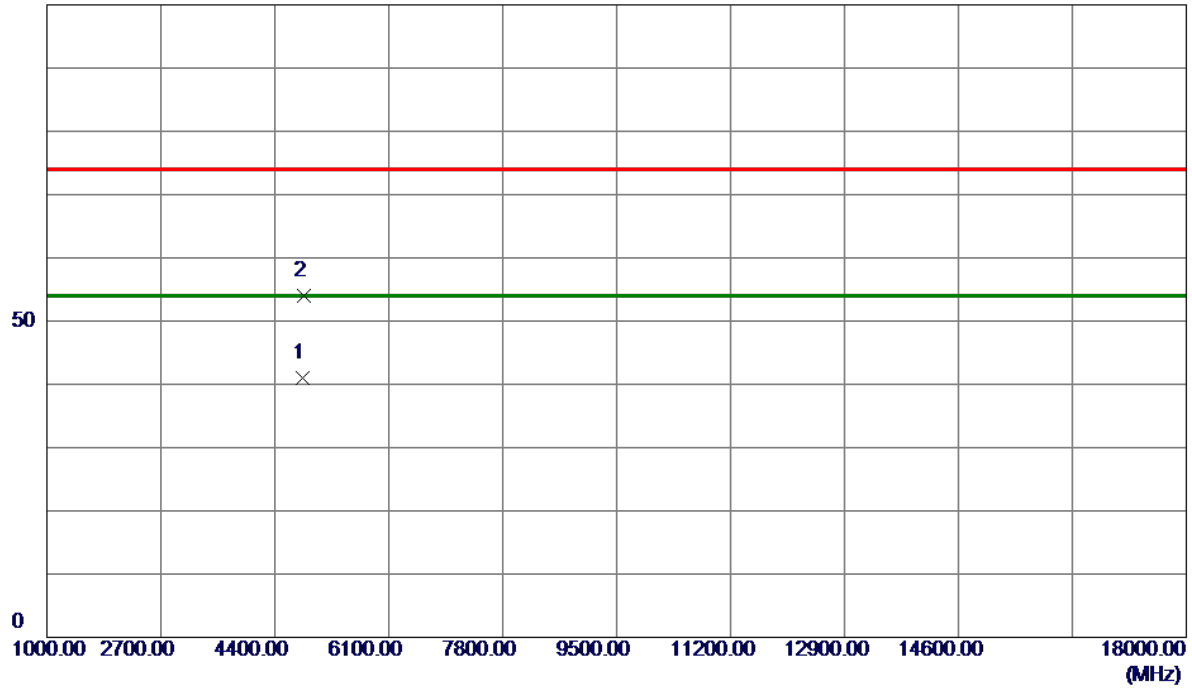
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	58.57	8.51	67.08	74.00	-6.92	Peak	
2	2390.0000	43.97	8.51	52.48	54.00	-1.52	AVG	
3 *	2411.1500	92.20	8.50	100.70	54.00	46.70	AVG	No Limit
4	2413.5000	100.10	8.50	108.60	74.00	34.60	Peak	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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100 dBuV/m

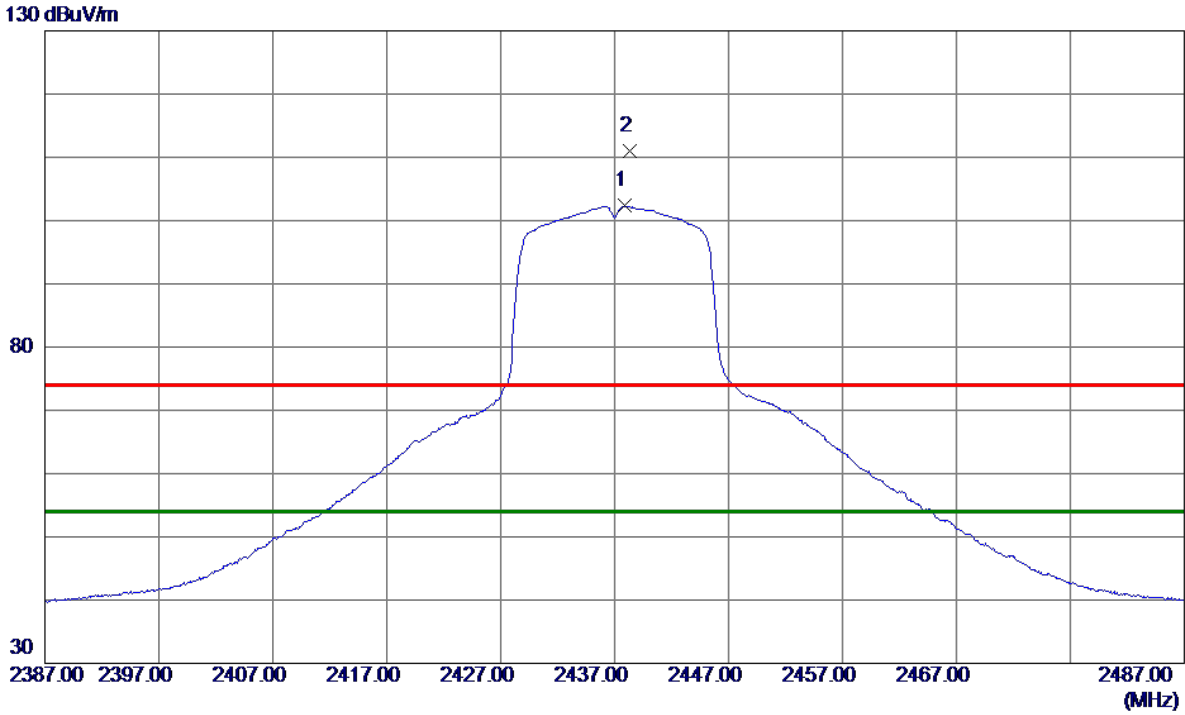


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4822.4750	38.64	2.45	41.09	54.00	-12.91	AVG	
2	4826.7250	51.61	2.46	54.07	74.00	-19.93	Peak	

REMARKS:

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

Test Mode	TX G Mode 2437 MHz	Polarization	Vertical
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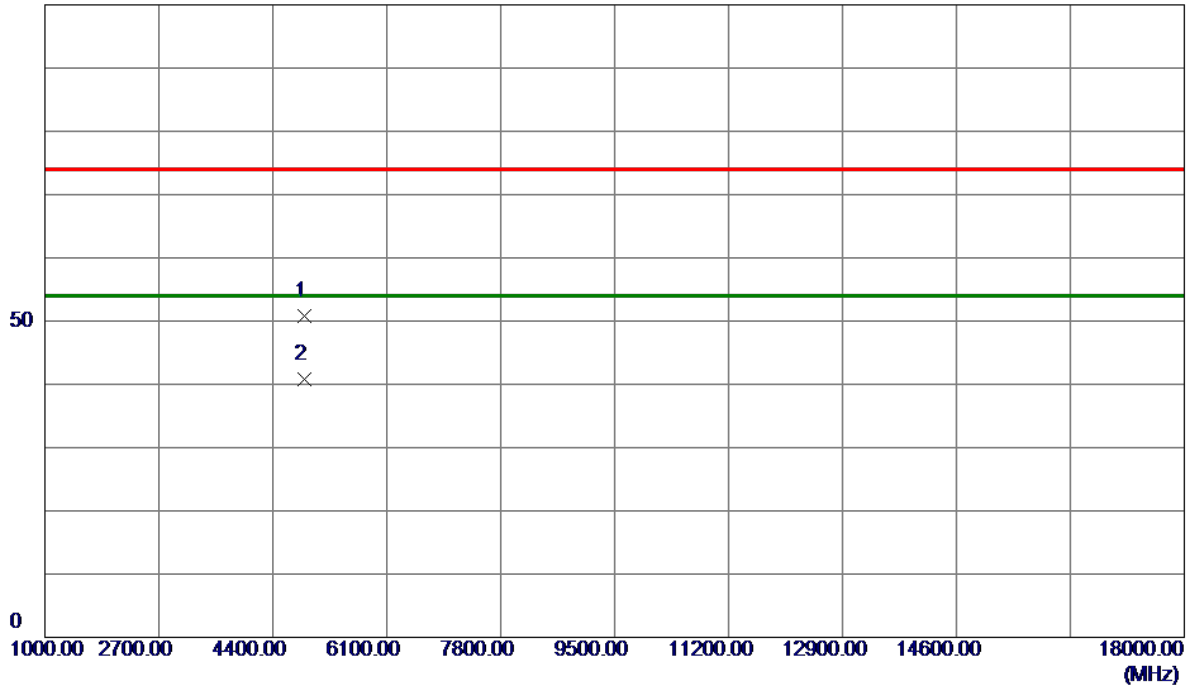
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2437.9000	93.83	8.49	102.32	54.00	48.32	AVG	No Limit
2	2438.3000	102.41	8.49	110.90	74.00	36.90	Peak	No Limit

REMARKS:

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

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

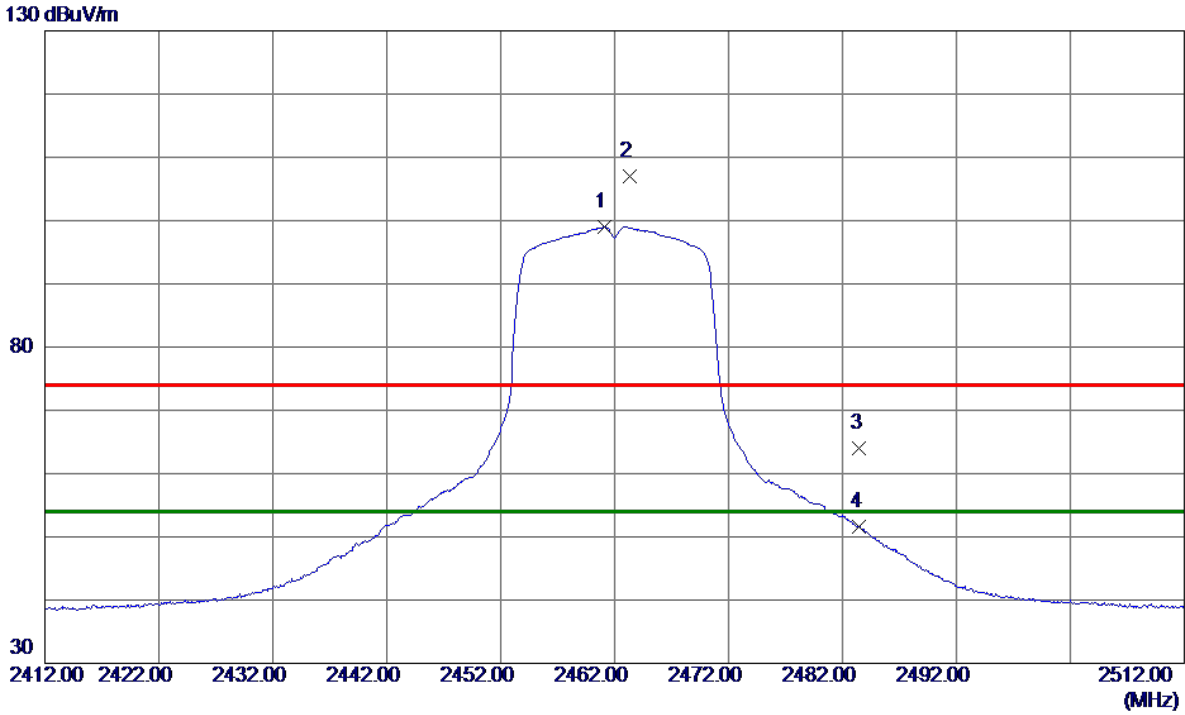


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4875.6500	48.14	2.58	50.72	74.00	-23.28	Peak	
2 *	4876.2750	38.20	2.58	40.78	54.00	-13.22	AVG	

REMARKS:

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

Test Mode	TX G Mode 2462 MHz	Polarization	Vertical
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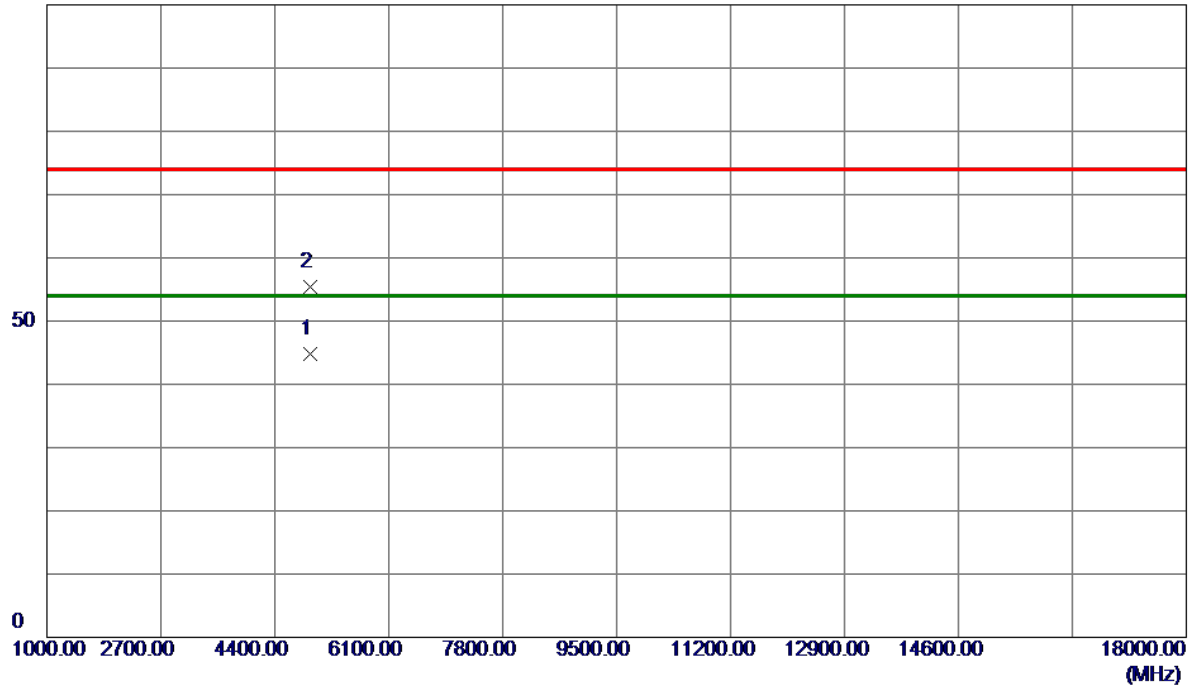
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2461.1500	90.49	8.49	98.98	54.00	44.98	AVG	No Limit
2	2463.3500	98.57	8.49	107.06	74.00	33.06	Peak	No Limit
3	2483.5000	55.59	8.48	64.07	74.00	-9.93	Peak	
4	2483.5000	43.08	8.48	51.56	54.00	-2.44	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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100 dBuV/m

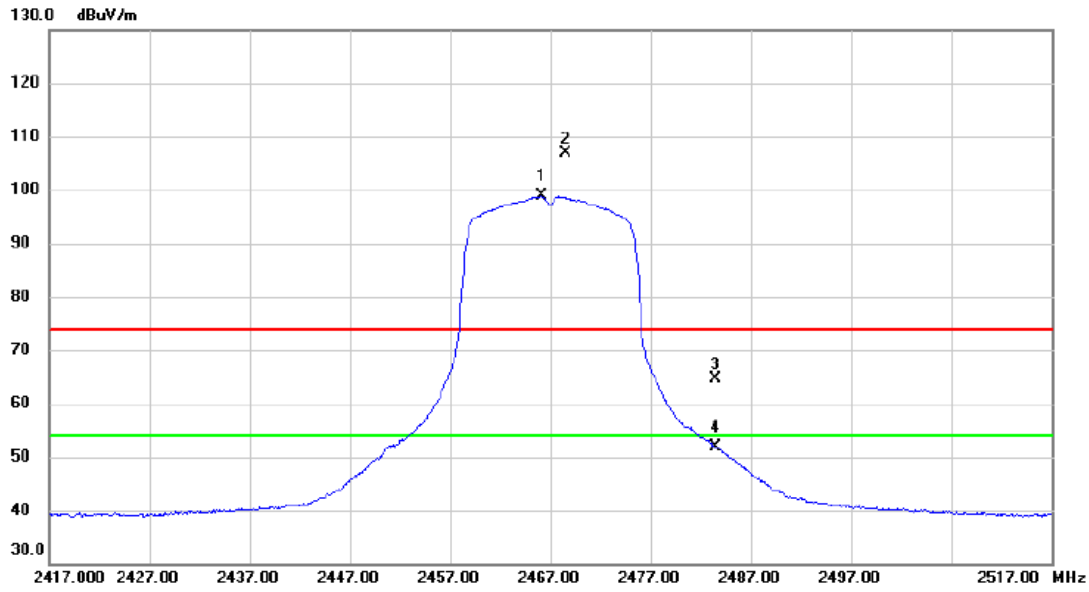


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4924.1500	42.08	2.69	44.77	54.00	-9.23	AVG	
2	4925.1500	52.65	2.69	55.34	74.00	-18.66	Peak	

REMARKS:

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

Test Mode	TX G Mode 2467 MHz	Polarization	Vertical
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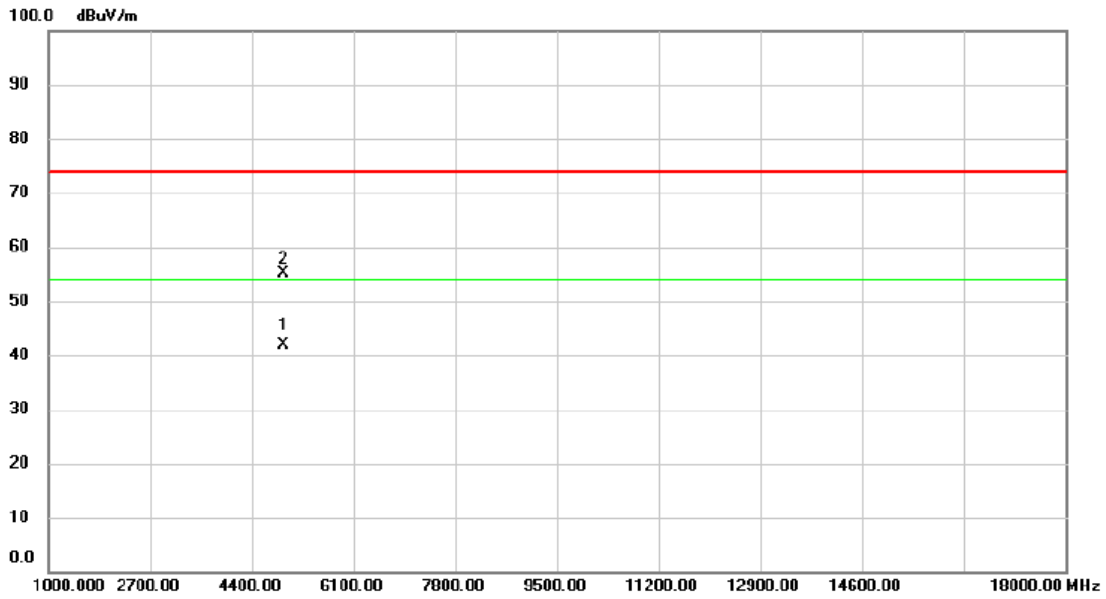


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2466.100	90.34	8.49	98.83	54.00	44.83	AVG	No Limit
2	X	2468.500	98.28	8.48	106.76	74.00	32.76	peak	No Limit
3		2483.500	56.14	8.47	64.61	74.00	-9.39	peak	
4		2483.500	43.35	8.47	51.82	54.00	-2.18	AVG	

REMARKS:

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

Test Mode	TX G Mode 2467 MHz	Polarization	Horizontal
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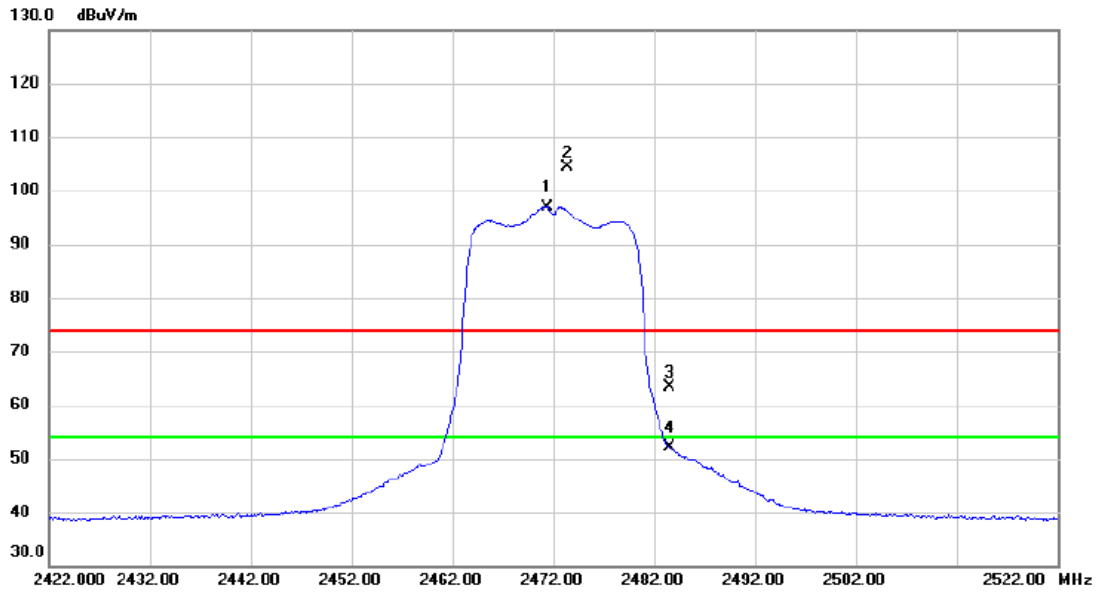


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	4932.525	39.06	2.72	41.78	54.00	-12.22	AVG	
2		4933.425	52.34	2.72	55.06	74.00	-18.94	peak	

REMARKS:

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

Test Mode	TX G Mode 2472 MHz	Polarization	Vertical
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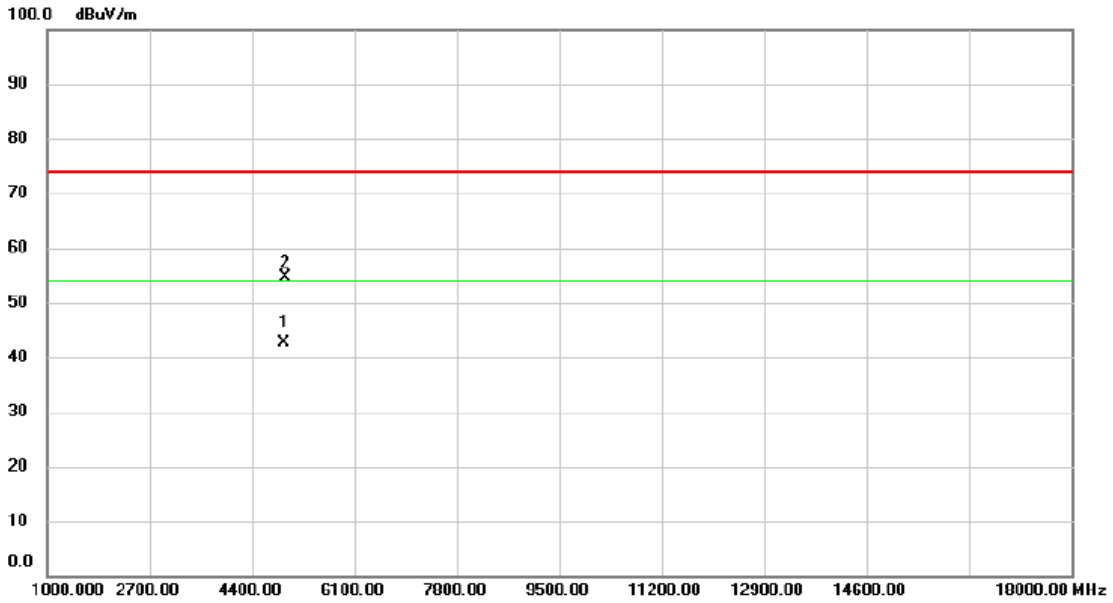


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2471.350	88.52	8.48	97.00	54.00	43.00	AVG	No Limit
2	X	2473.450	95.97	8.48	104.45	74.00	30.45	peak	No Limit
3		2483.500	54.83	8.47	63.30	74.00	-10.70	peak	
4		2483.500	43.76	8.47	52.23	54.00	-1.77	AVG	

REMARKS:

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

Test Mode	TX G Mode 2472 MHz	Polarization	Horizontal
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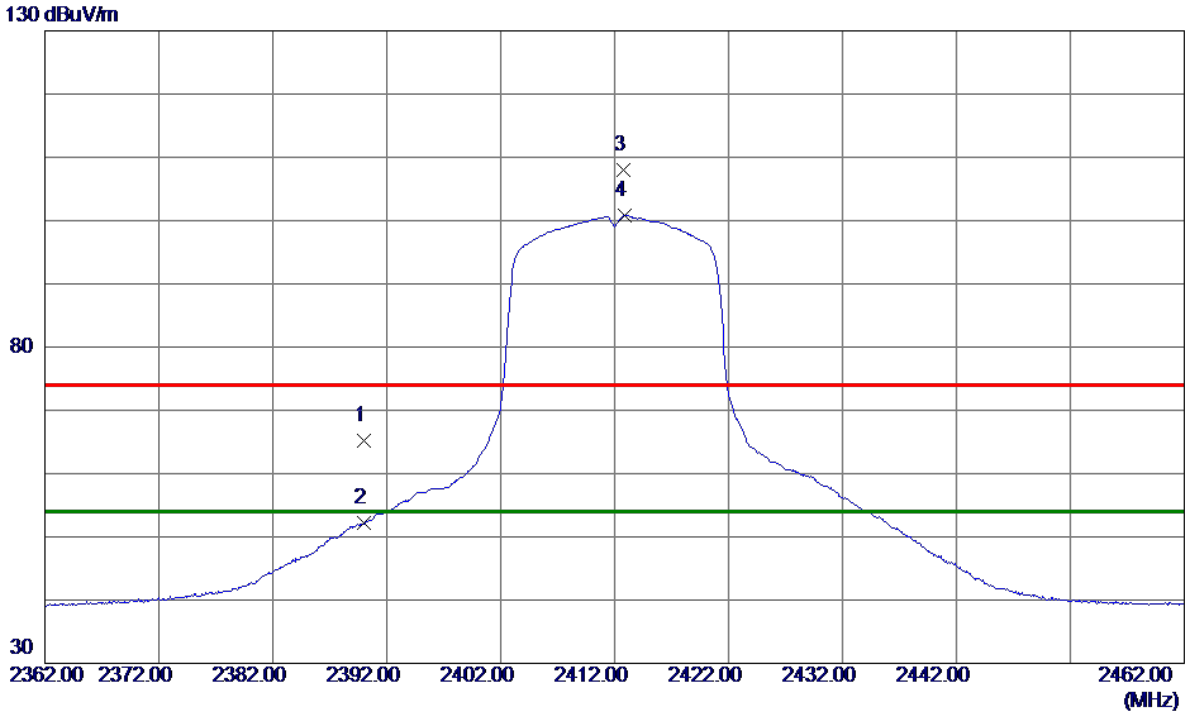


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	4942.550	39.91	2.74	42.65	54.00	-11.35	AVG	
2		4946.175	51.80	2.74	54.54	74.00	-19.46	peak	

REMARKS:

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

Test Mode	TX N(HT20) Mode 2412 MHz	Polarization	Vertical
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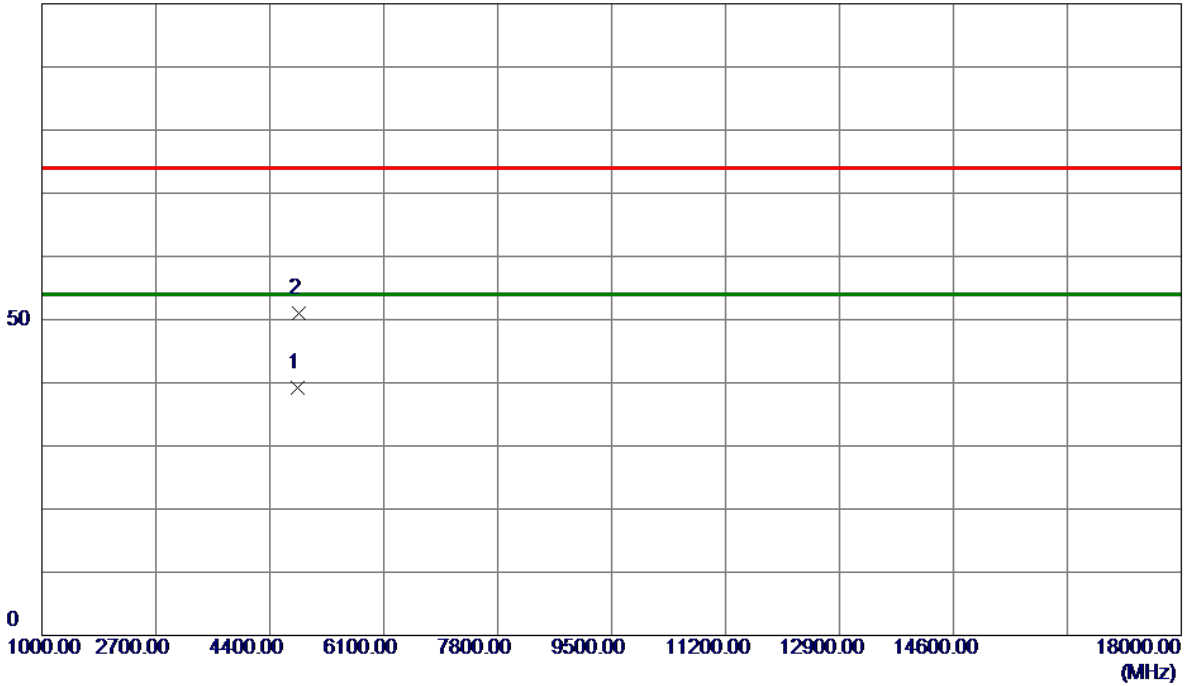
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	56.73	8.51	65.24	74.00	-8.76	Peak	
2	2390.0000	43.71	8.51	52.22	54.00	-1.78	AVG	
3	2412.8000	99.48	8.50	107.98	74.00	33.98	Peak	No Limit
4 *	2412.9000	92.24	8.50	100.74	54.00	46.74	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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100 dBuV/m

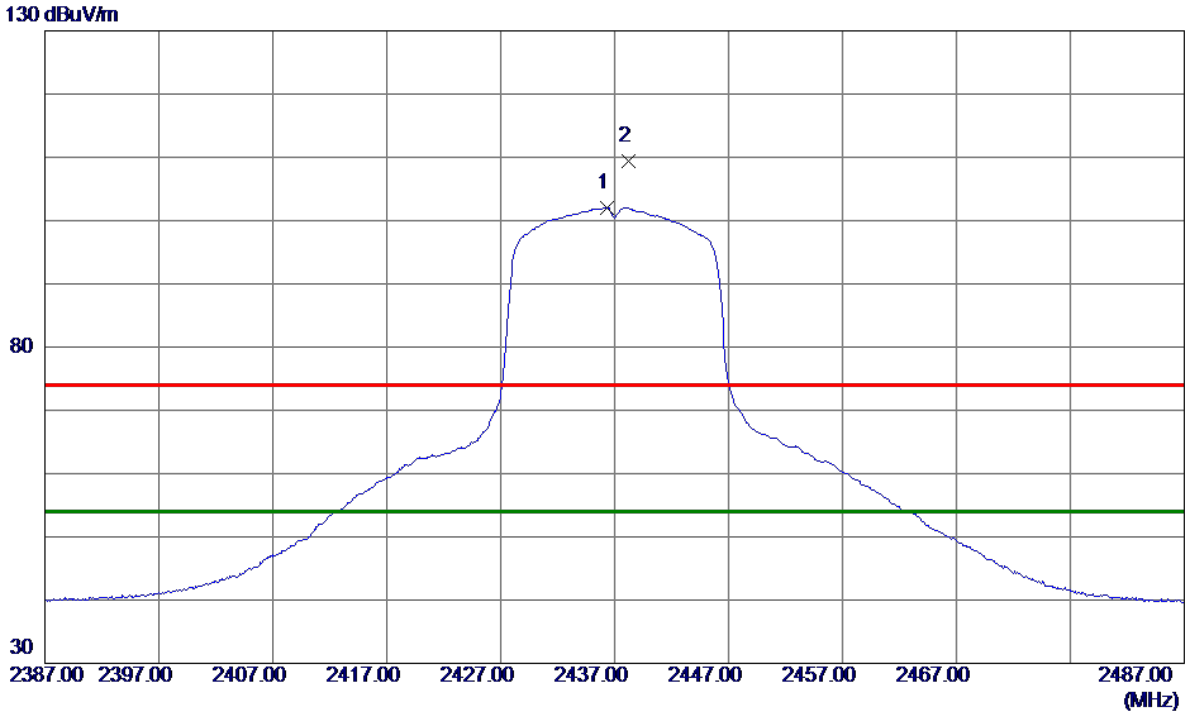


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4820.6000	36.75	2.45	39.20	54.00	-14.80	AVG	
2	4829.2000	48.48	2.47	50.95	74.00	-23.05	Peak	

REMARKS:

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

Test Mode	TX N(HT20) Mode 2437 MHz	Polarization	Vertical
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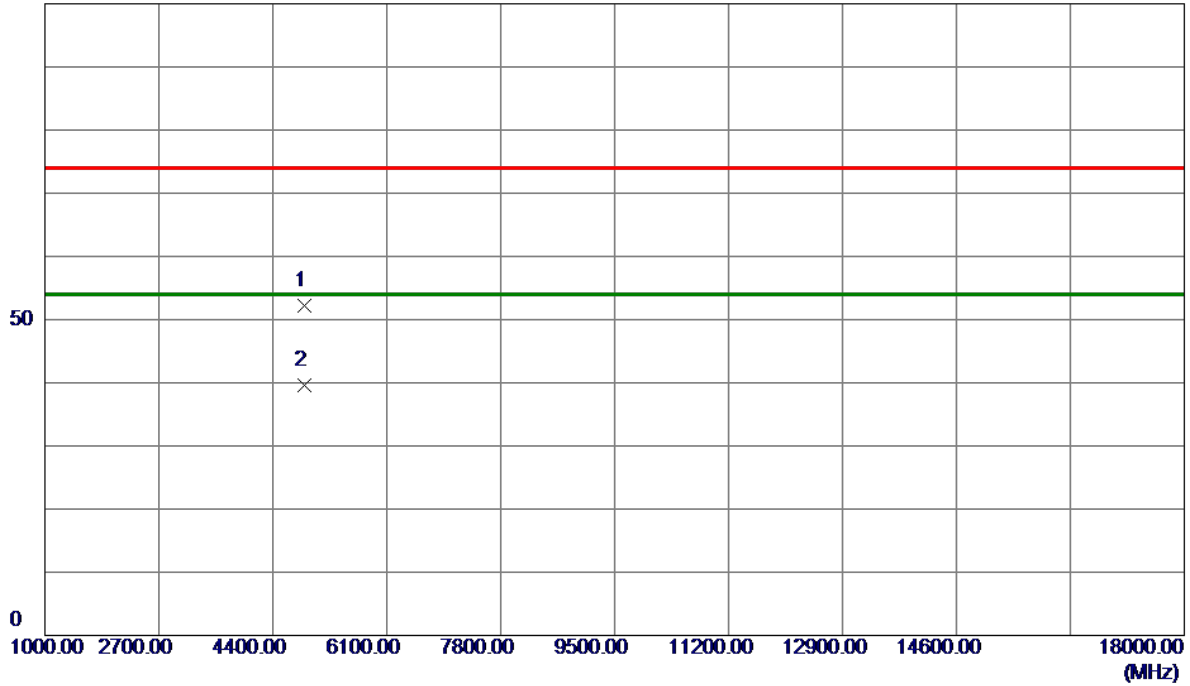
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2436.3000	93.59	8.49	102.08	54.00	48.08	AVG	No Limit
2	2438.2500	100.93	8.49	109.42	74.00	35.42	Peak	No Limit

REMARKS:

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

Test Mode	TX N(HT20) Mode 2437 MHz	Polarization	Horizontal
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100 dBuV/m

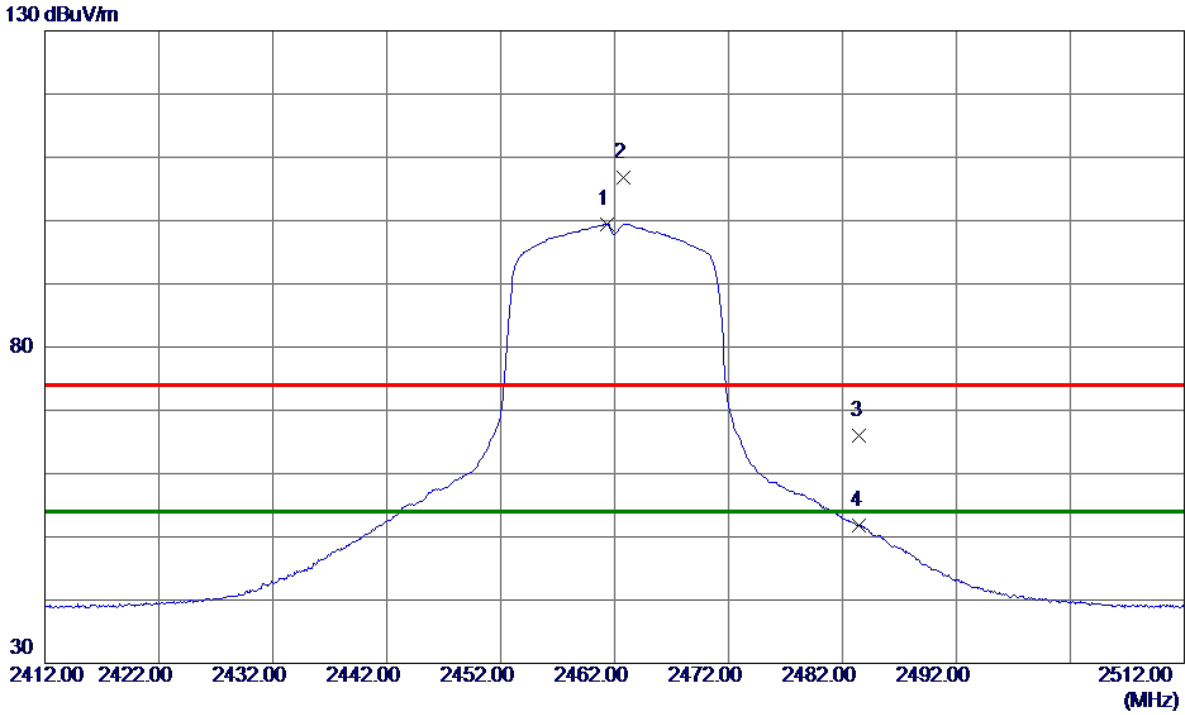


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4864.9750	49.72	2.55	52.27	74.00	-21.73	Peak	
2 *	4870.4750	37.02	2.57	39.59	54.00	-14.41	AVG	

REMARKS:

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

Test Mode	TX N(HT20) Mode 2462 MHz	Polarization	Vertical
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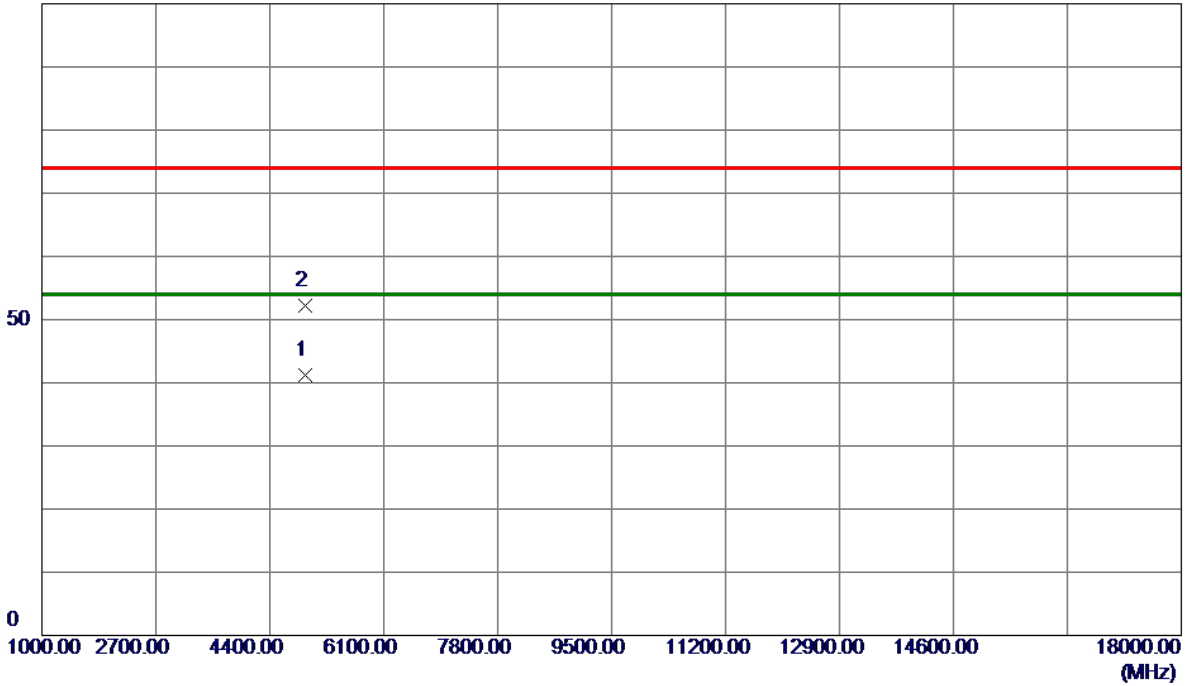
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2461.3500	90.96	8.49	99.45	54.00	45.45	AVG	No Limit
2	2462.8000	98.28	8.49	106.77	74.00	32.77	Peak	No Limit
3	2483.5000	57.61	8.48	66.09	74.00	-7.91	Peak	
4	2483.5000	43.27	8.48	51.75	54.00	-2.25	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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100 dBuV/m

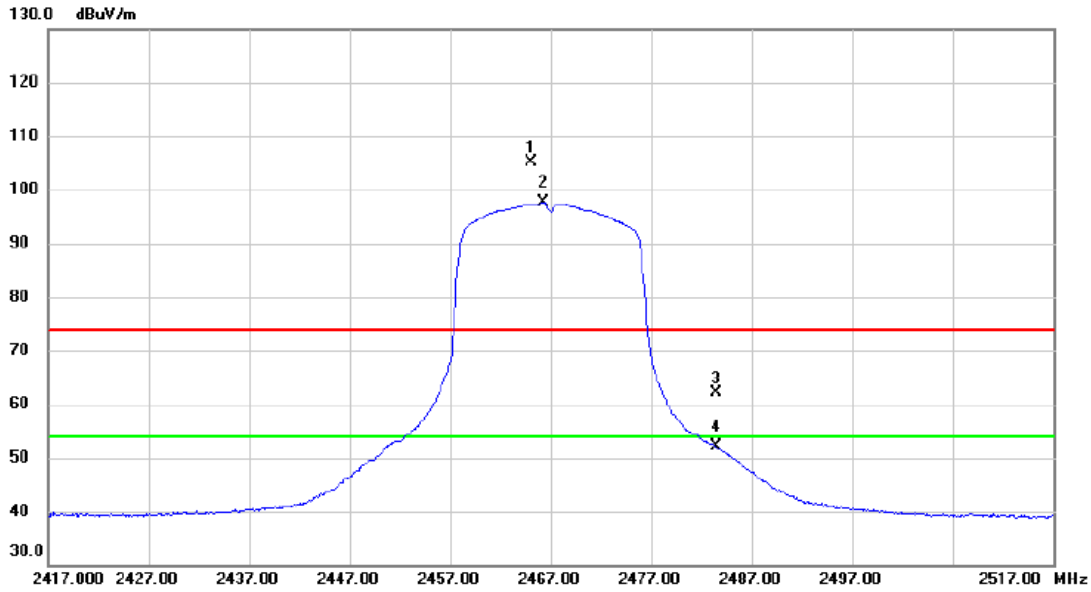


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4924.3500	38.52	2.69	41.21	54.00	-12.79	AVG	
2	4926.4750	49.45	2.70	52.15	74.00	-21.85	Peak	

REMARKS:

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

Test Mode	TX N(HT20) Mode 2467 MHz	Polarization	Vertical
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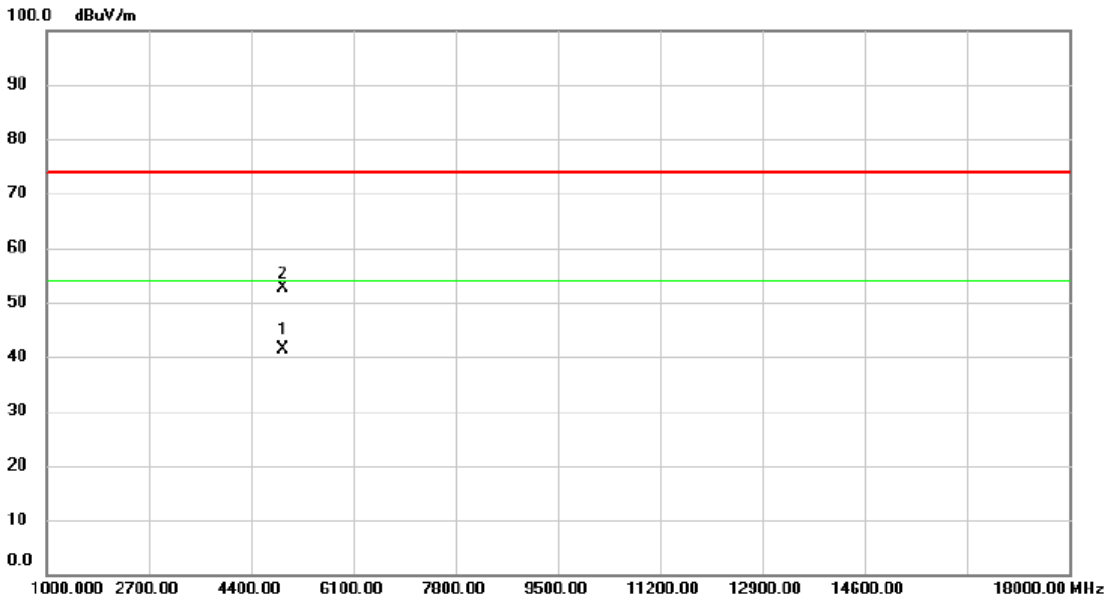


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2465.000	96.62	8.49	105.11	74.00	31.11	peak	No Limit
2	*	2466.300	89.18	8.48	97.66	54.00	43.66	AVG	No Limit
3		2483.500	53.61	8.47	62.08	74.00	-11.92	peak	
4		2483.500	43.66	8.47	52.13	54.00	-1.87	AVG	

REMARKS:

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

Test Mode	TX N(HT20) Mode 2467 MHz	Polarization	Horizontal
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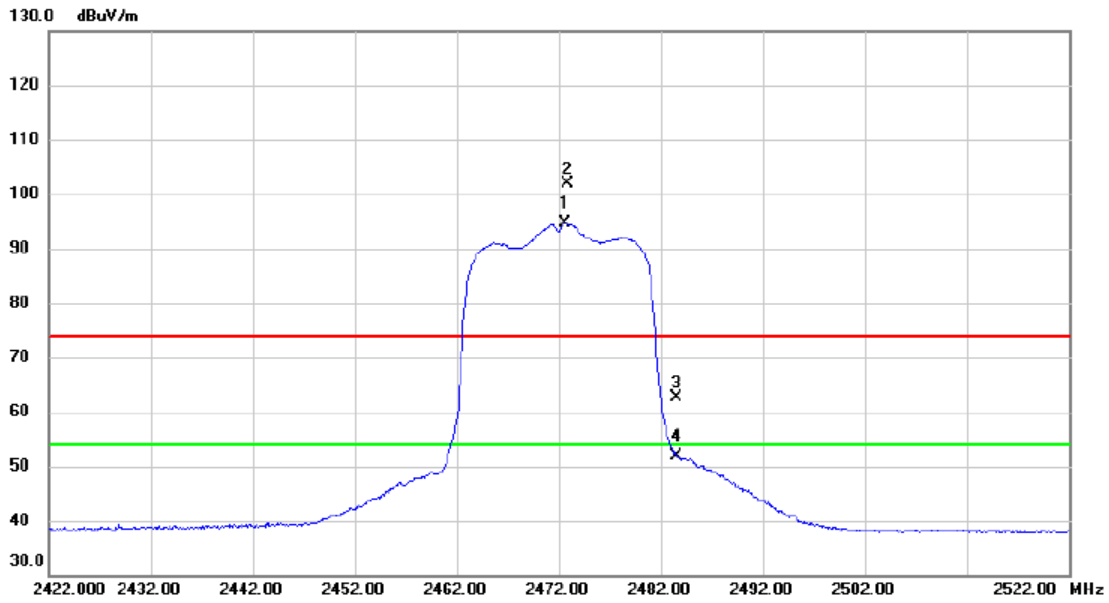


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	4930.425	38.62	2.70	41.32	54.00	-12.68	AVG	
2		4938.025	49.95	2.72	52.67	74.00	-21.33	peak	

REMARKS:

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

Test Mode	TX N(HT20) Mode 2472 MHz	Polarization	Vertical
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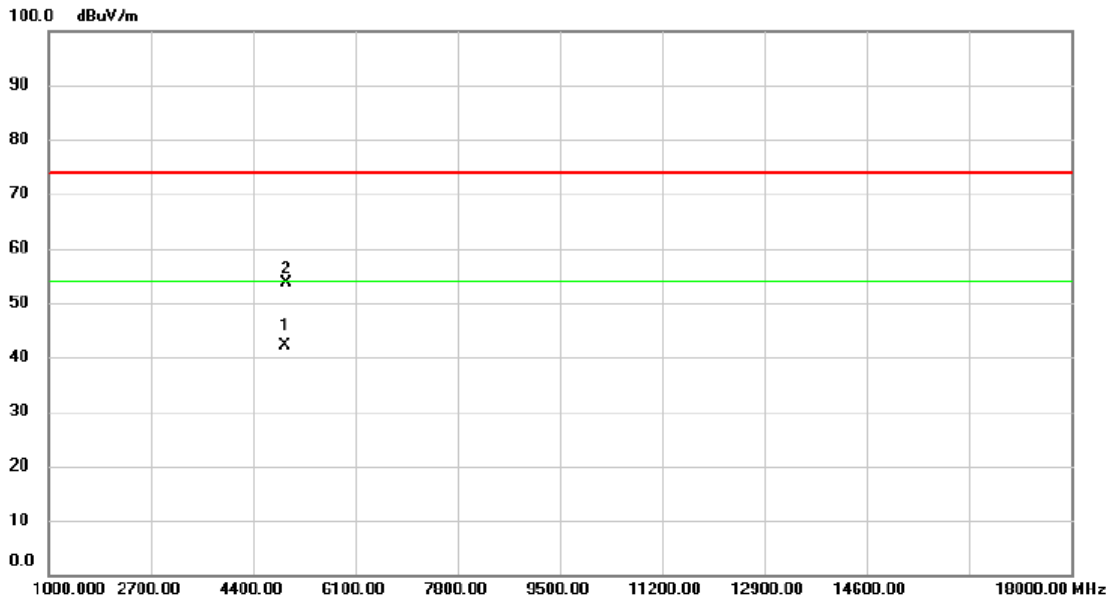


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2472.600	86.16	8.48	94.64	54.00	40.64	AVG	No Limit
2	X	2472.800	93.41	8.48	101.89	74.00	27.89	peak	No Limit
3		2483.500	54.16	8.47	62.63	74.00	-11.37	peak	
4		2483.500	43.35	8.47	51.82	54.00	-2.18	AVG	

REMARKS:

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

Test Mode	TX N(HT20) Mode 2472 MHz	Polarization	Horizontal
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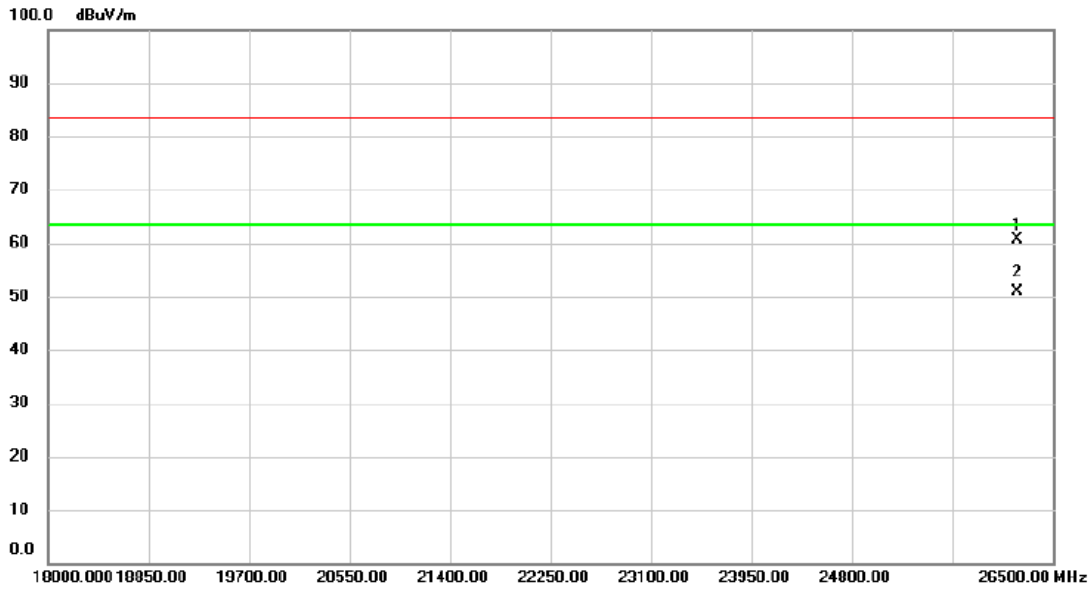


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	4942.950	39.47	2.74	42.21	54.00	-11.79	AVG	
2		4945.050	51.01	2.74	53.75	74.00	-20.25	peak	

REMARKS:

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

Test Mode	TX G Mode 2437 MHz	Polarization	Vertical
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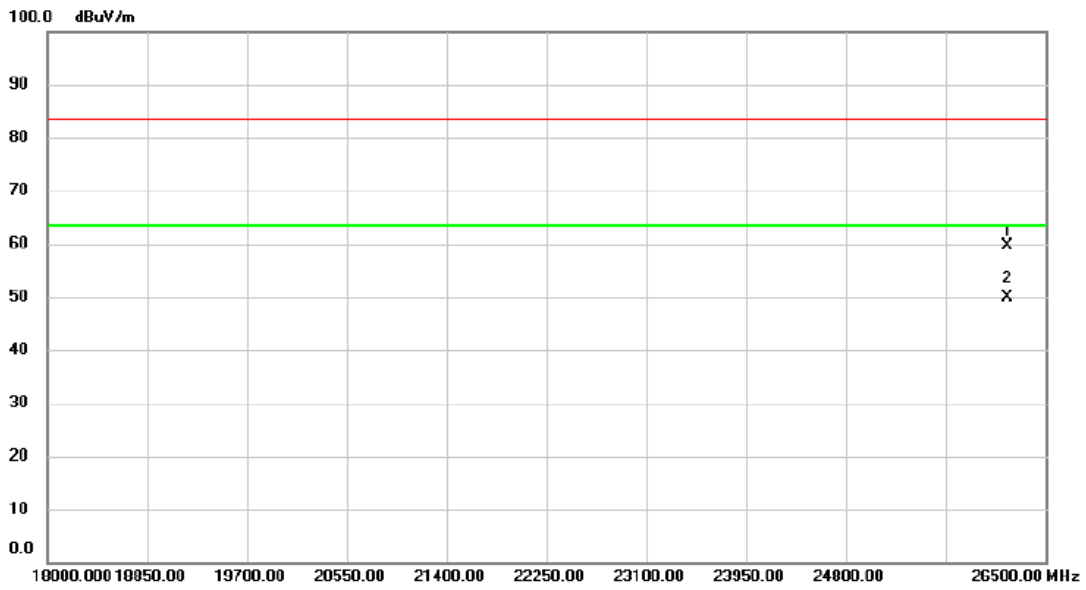


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		26202.50	50.23	10.39	60.62	83.50	-22.88	peak	
2	*	26202.50	40.38	10.39	50.77	63.50	-12.73	AVG	

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.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		26172.75	49.11	10.40	59.51	83.50	-23.99	peak	
2	*	26172.75	39.45	10.40	49.85	63.50	-13.65	AVG	

REMARKS:

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

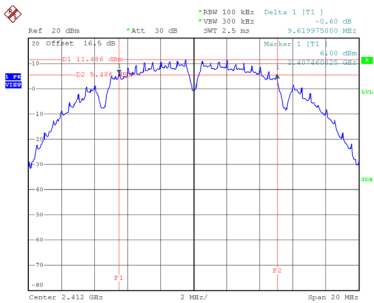
(2) Margin Level = Measurement Value - Limit Value.

APPENDIX E - BANDWIDTH

Test Mode TX B Mode

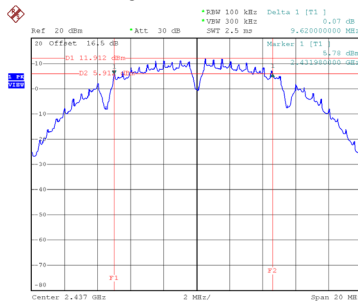
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	9.620	13.840	0.5	Complies
06	2437	9.620	14.000	0.5	Complies
11	2462	9.580	13.920	0.5	Complies
12	2467	9.600	14.000	0.5	Complies
13	2472	9.639	14.000	0.5	Complies

CH01



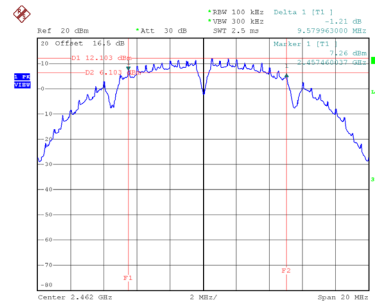
Date: 24.APR.2024 15:24:36

CH06
6 dB Bandwidth



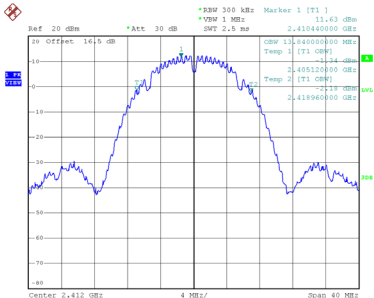
Date: 24.APR.2024 15:26:48

CH11

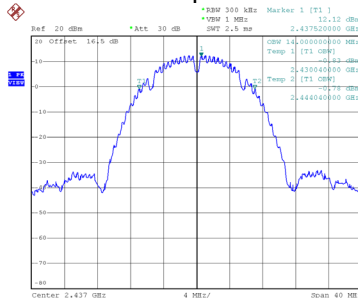


Date: 24.APR.2024 15:28:38

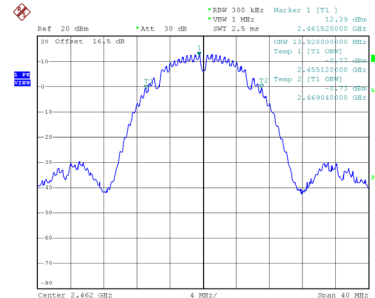
99 % Occupied Bandwidth



Date: 24.APR.2024 15:24:44

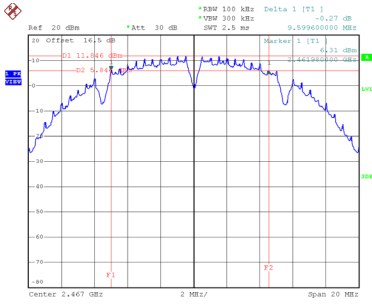


Date: 24.APR.2024 15:26:56



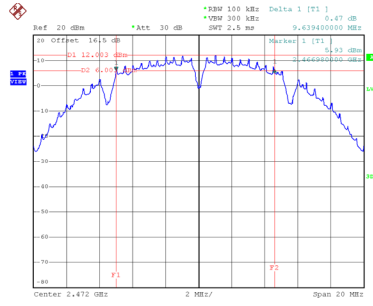
Date: 24.APR.2024 15:28:46

CH12



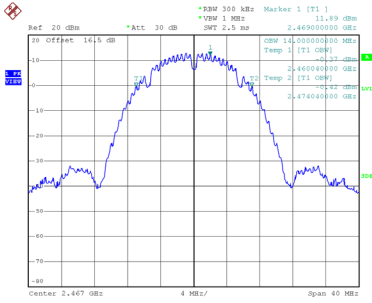
Date: 24.APR.2024 15:43:57

CH13 6 dB Bandwidth

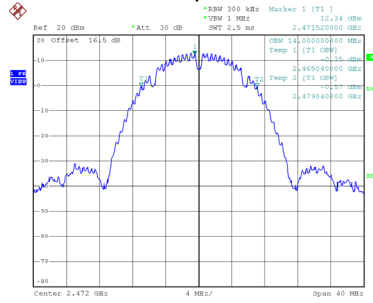


Date: 24.APR.2024 15:52:46

99 % Occupied Bandwidth



Date: 24.APR.2024 15:44:05

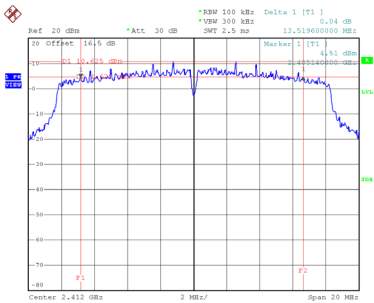


Date: 24.APR.2024 15:52:54

Test Mode TX G Mode

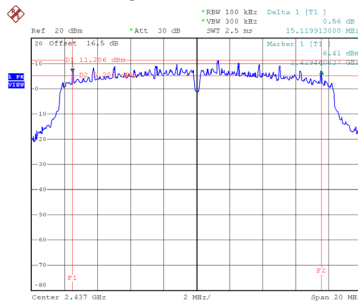
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	13.520	16.560	0.5	Complies
06	2437	15.120	16.560	0.5	Complies
11	2462	15.120	16.720	0.5	Complies
12	2467	14.510	16.560	0.5	Complies
13	2472	15.130	16.480	0.5	Complies

CH01



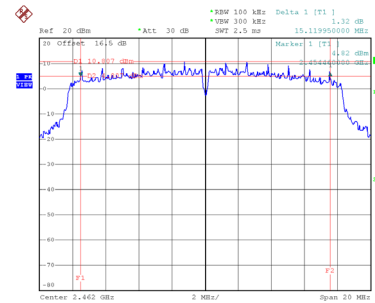
Date: 24.APR.2024 15:30:28

CH06
6 dB Bandwidth



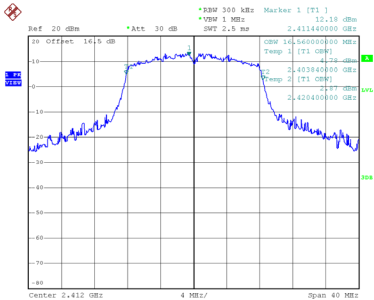
Date: 24.APR.2024 15:31:59

CH11

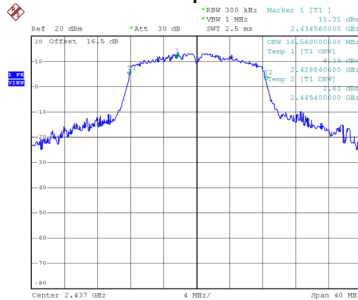


Date: 24.APR.2024 15:33:27

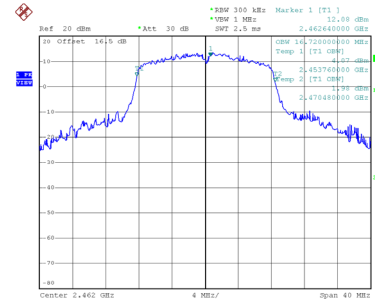
99 % Occupied Bandwidth



Date: 24.APR.2024 15:30:36

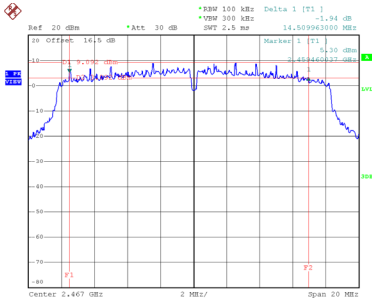


Date: 24.APR.2024 15:32:07



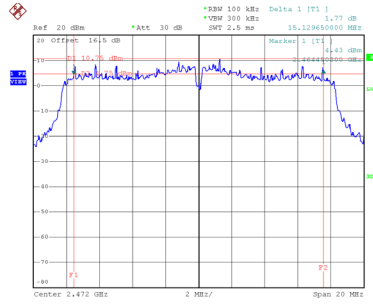
Date: 24.APR.2024 15:33:34

CH12



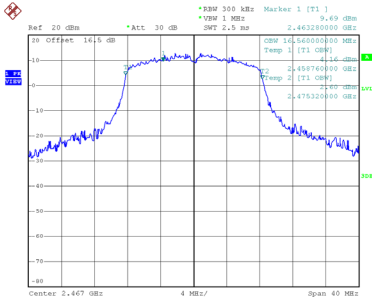
Date: 24.APR.2024 15:57:38

CH13 6 dB Bandwidth

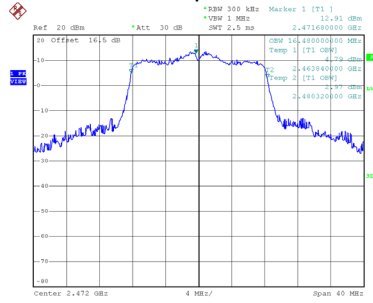


Date: 24.APR.2024 15:59:41

99 % Occupied Bandwidth



Date: 24.APR.2024 15:57:46

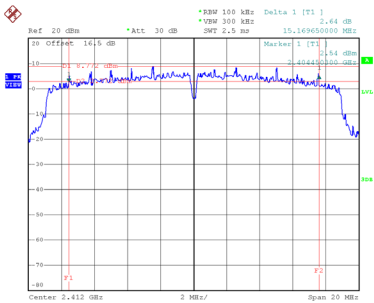


Date: 24.APR.2024 15:59:49

Test Mode TX N(HT20) Mode

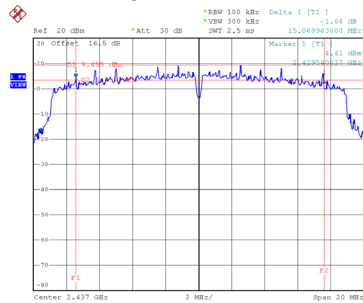
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	15.170	17.600	0.5	Complies
06	2437	15.070	17.600	0.5	Complies
11	2462	15.130	17.520	0.5	Complies
12	2467	15.100	17.600	0.5	Complies
13	2472	14.990	17.440	0.5	Complies

CH01



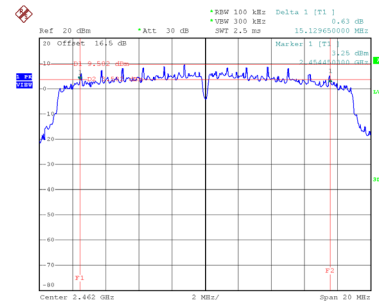
Date: 24.APR.2024 15:36:02

CH06
6 dB Bandwidth



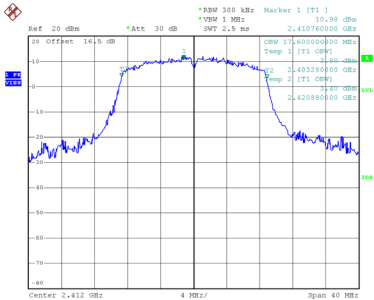
Date: 24.APR.2024 15:37:32

CH11

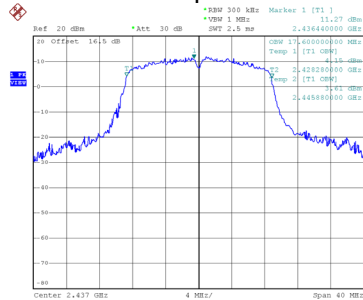


Date: 24.APR.2024 15:39:03

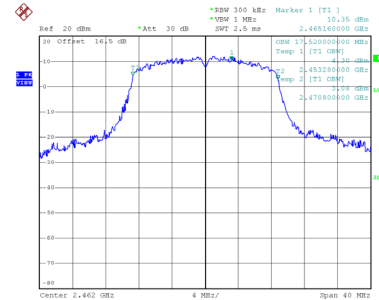
99 % Occupied Bandwidth



Date: 24.APR.2024 15:36:10

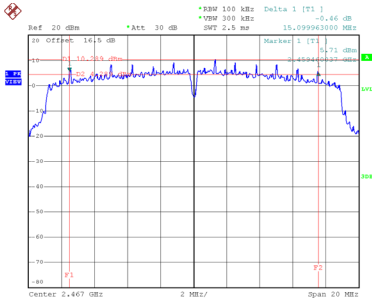


Date: 24.APR.2024 15:37:39



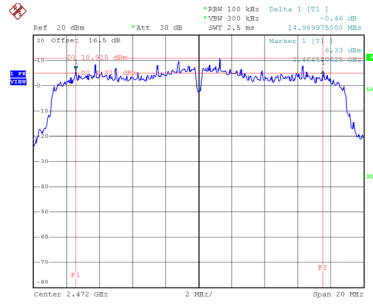
Date: 24.APR.2024 15:39:10

CH12



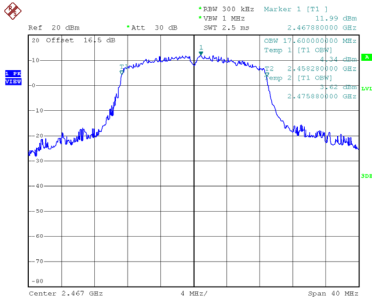
Date: 24.APR.2024 16:03:10

CH13 6 dB Bandwidth

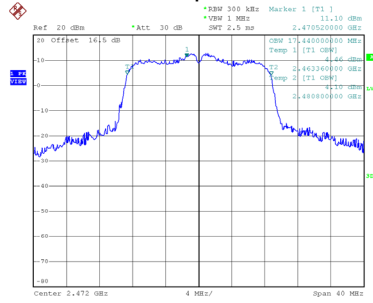


Date: 24.APR.2024 16:05:44

99 % Occupied Bandwidth



Date: 24.APR.2024 16:03:17



Date: 24.APR.2024 16:05:52

APPENDIX F - MAXIMUM OUTPUT POWER

Test Mode	TX B Mode
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Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	19.83	0.00	19.83	30.00	1.0000	Complies
06	2437	18.65	0.00	18.65	30.00	1.0000	Complies
11	2462	15.85	0.00	15.85	30.00	1.0000	Complies
12	2467	15.94	0.00	15.94	30.00	1.0000	Complies
13	2472	12.81	0.00	12.81	30.00	1.0000	Complies

Test Mode	TX G Mode
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Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	17.81	0.17	17.98	30.00	1.0000	Complies
06	2437	19.90	0.17	20.07	30.00	1.0000	Complies
11	2462	16.11	0.17	16.28	30.00	1.0000	Complies
12	2467	13.15	0.17	13.32	30.00	1.0000	Complies
13	2472	10.43	0.17	10.60	30.00	1.0000	Complies

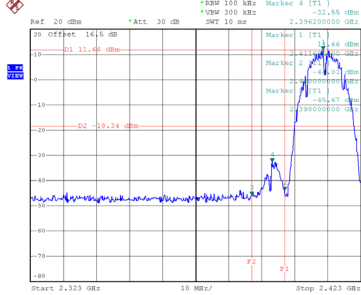
Test Mode	TX N(HT20) Mode
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Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	17.59	0.16	17.75	30.00	1.0000	Complies
06	2437	18.77	0.16	18.93	30.00	1.0000	Complies
11	2462	15.89	0.16	16.05	30.00	1.0000	Complies
12	2467	13.05	0.16	13.21	30.00	1.0000	Complies
13	2472	12.13	0.16	12.29	30.00	1.0000	Complies

APPENDIX G - CONDUCTED SPURIOUS EMISSIONS

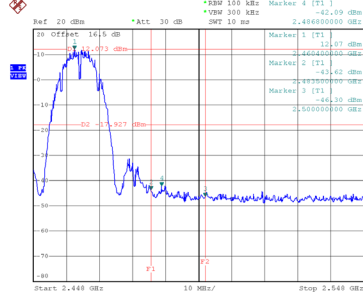
Test Mode TX B Mode

Bandedge-CH01



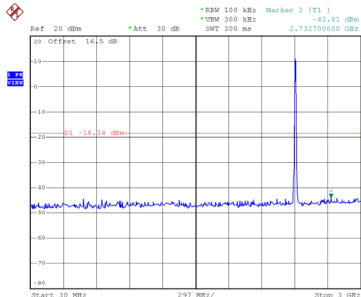
Date: 24.APR.2024 15:24:52

Bandedge-CH11

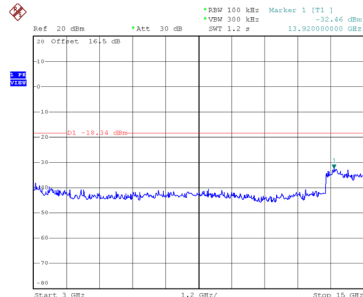


Date: 24.APR.2024 15:28:54

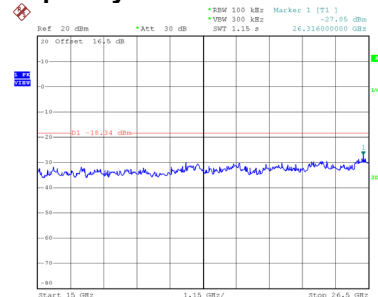
CH01 – 10th Harmonic of the fundamental frequency



Date: 24.APR.2024 15:25:06

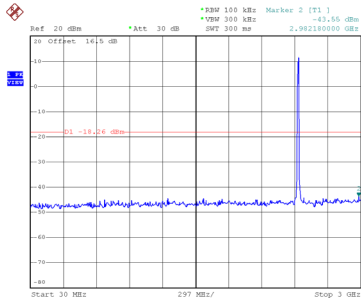


Date: 24.APR.2024 15:25:15

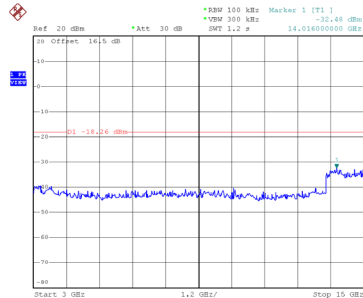


Date: 24.APR.2024 15:25:24

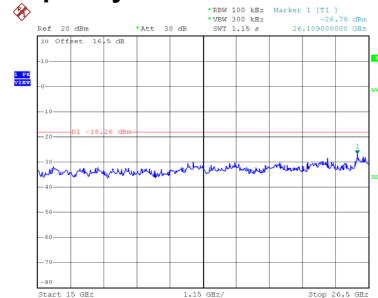
CH06 – 10th Harmonic of the fundamental frequency



Date: 24.APR.2024 15:27:19

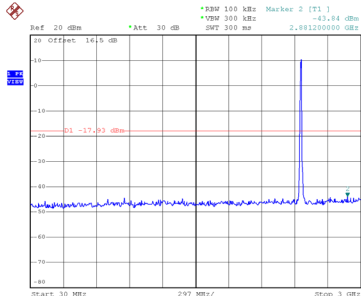


Date: 24.APR.2024 15:27:27

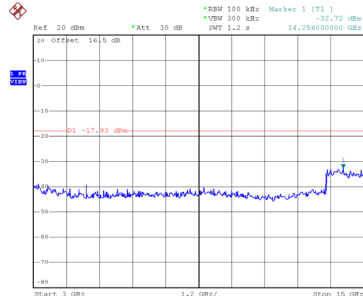


Date: 24.APR.2024 15:27:36

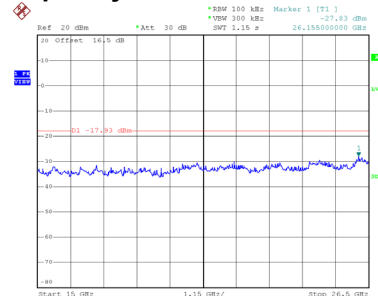
CH11 – 10th Harmonic of the fundamental frequency



Date: 24.APR.2024 15:29:08

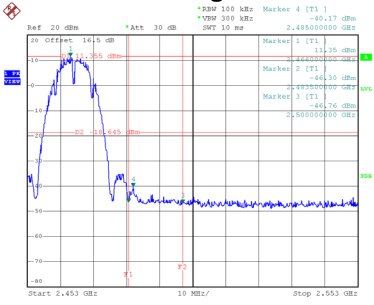


Date: 24.APR.2024 15:29:17



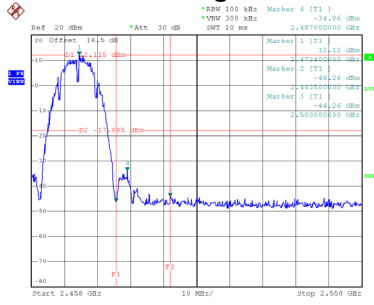
Date: 24.APR.2024 15:29:26

Bandedge-CH12



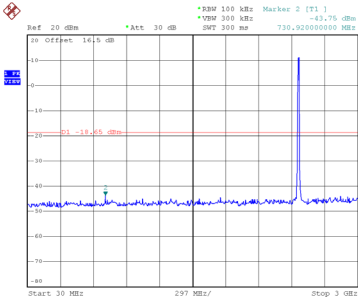
Date: 24.APR.2024 15:50:31

Bandedge-CH13

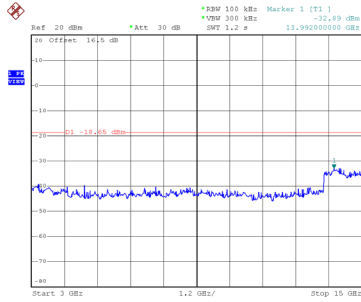


Date: 24.APR.2024 15:53:03

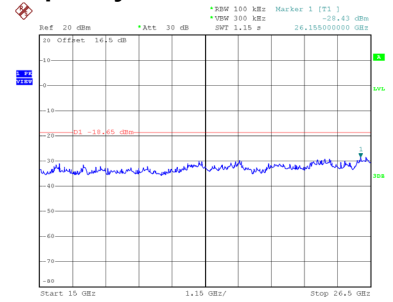
CH12 – 10th Harmonic of the fundamental frequency



Date: 24.APR.2024 15:50:53

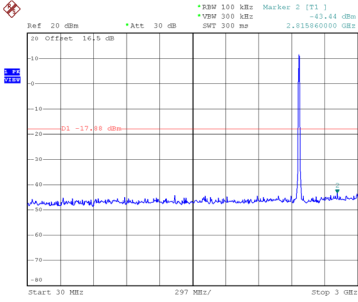


Date: 24.APR.2024 15:51:04

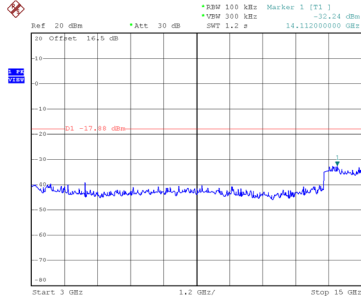


Date: 24.APR.2024 15:51:13

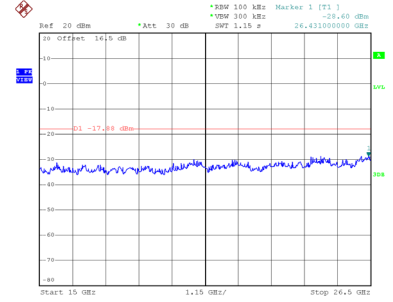
CH13 – 10th Harmonic of the fundamental frequency



Date: 24.APR.2024 15:53:33



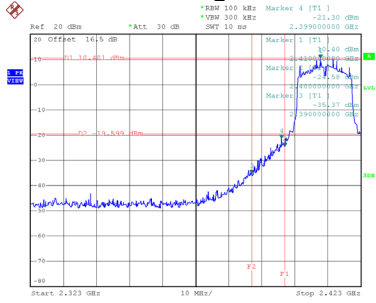
Date: 24.APR.2024 15:53:54



Date: 24.APR.2024 15:54:03

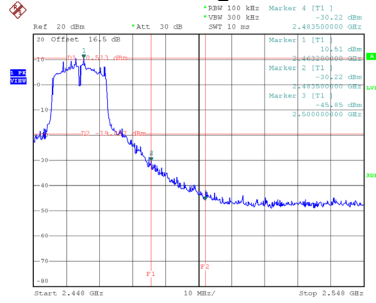
Test Mode TX G Mode

Bandedge-CH01



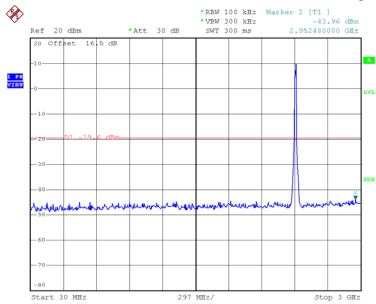
Date: 24.APR.2024 15:30:45

Bandedge-CH11

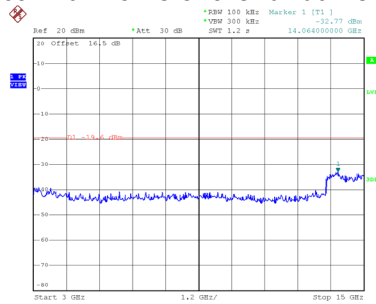


Date: 24.APR.2024 15:33:42

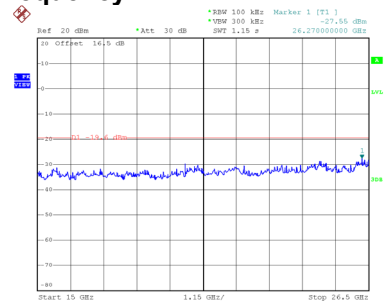
CH01 – 10th Harmonic of the fundamental frequency



Date: 24.APR.2024 15:30:59

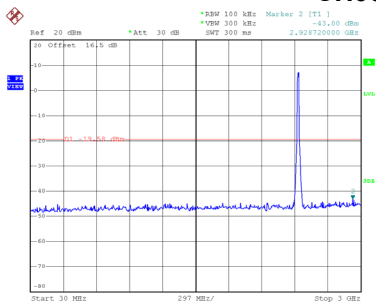


Date: 24.APR.2024 15:31:08

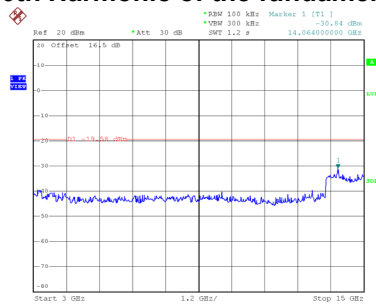


Date: 24.APR.2024 15:31:16

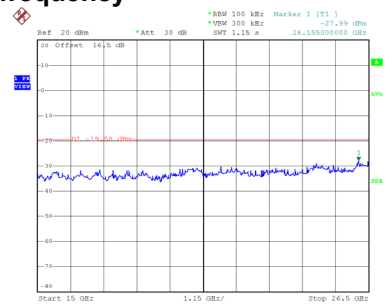
CH06 – 10th Harmonic of the fundamental frequency



Date: 24.APR.2024 15:32:29

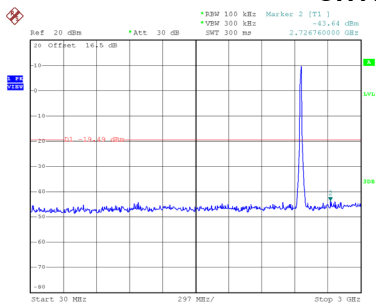


Date: 24.APR.2024 15:32:38

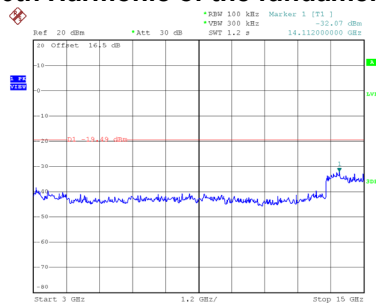


Date: 24.APR.2024 15:32:47

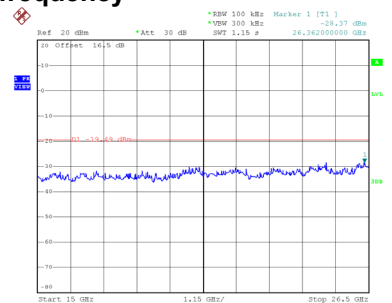
CH11 – 10th Harmonic of the fundamental frequency



Date: 24.APR.2024 15:33:57



Date: 24.APR.2024 15:34:06



Date: 24.APR.2024 15:34:15