



FCC Radio Test Report

FCC ID: 2BH7FKL135

This report concerns: Original Grant

Project No. : 2507G001
Equipment : Smart Wi-Fi Light Bulb, Multicolor
Brand Name : tp-link
Model Name : KL135
Applicant : TP-Link Systems Inc.
Address : 10 Mauchly, Irvine, CA 92618
Manufacturer : TP-Link Systems Inc.
Address : 10 Mauchly, Irvine, CA 92618
Date of Receipt : Jun. 30, 2025
Date of Test : Jul. 01, 2025 ~ Jul. 28, 2025
Issued Date : Aug. 07, 2025
Test Sample : Engineering Sample No.: DG20250630192 for power and other conducted, DG20250630191 for radiated and AC Power Line Conducted.
Standard(s) : FCC CFR Title 47, Part 15, Subpart C

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

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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.

Table of Contents	Page
REVISION 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	11
3.3 PARAMETERS OF TEST SOFTWARE	12
3.4 DUTY CYCLE	13
3.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED	14
3.6 SUPPORT UNITS	14
3.7 CUSTOMER INFORMATION DESCRIPTION	14
4 . AC POWER LINE CONDUCTED EMISSIONS	15
4.1 LIMIT	15
4.2 TEST PROCEDURE	15
4.3 DEVIATION FROM TEST STANDARD	15
4.4 TEST SETUP	16
4.5 EUT OPERATION CONDITIONS	16
4.6 TEST RESULTS	16
5 . RADIATED EMISSIONS	17
5.1 LIMIT	17
5.2 TEST PROCEDURE	18
5.3 DEVIATION FROM TEST STANDARD	18
5.4 TEST SETUP	19
5.5 EUT OPERATION CONDITIONS	21
5.6 TEST RESULTS - 9 KHZ TO 30 MHZ	21
5.7 TEST RESULTS - 30 MHZ TO 1000 MHZ	21
5.8 TEST RESULTS - ABOVE 1000 MHZ	21
6 . BANDWIDTH	22
6.1 LIMIT	22

Table of Contents	Page
6.2 TEST PROCEDURE	22
6.3 DEVIATION FROM STANDARD	22
6.4 TEST SETUP	22
6.5 EUT OPERATION CONDITIONS	22
6.6 TEST RESULTS	22
7 . MAXIMUM OUTPUT POWER	23
7.1 LIMIT	23
7.2 TEST PROCEDURE	23
7.3 DEVIATION FROM STANDARD	23
7.4 TEST SETUP	23
7.5 EUT OPERATION CONDITIONS	23
7.6 TEST RESULTS	23
8 . CONDUCTED SPURIOUS EMISSIONS	24
8.1 LIMIT	24
8.2 TEST PROCEDURE	24
8.3 DEVIATION FROM STANDARD	24
8.4 TEST SETUP	25
8.5 EUT OPERATION CONDITIONS	25
8.6 TEST RESULTS	25
9 . POWER SPECTRAL DENSITY	26
9.1 LIMIT	26
9.2 TEST PROCEDURE	26
9.3 DEVIATION FROM STANDARD	26
9.4 TEST SETUP	26
9.5 EUT OPERATION CONDITIONS	26
9.6 TEST RESULTS	26
10 . MEASUREMENT INSTRUMENTS LIST	27
11 . EUT TEST PHOTO	30
APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS	36
APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ	39
APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1000 MHZ	44
APPENDIX D - RADIATED EMISSION- ABOVE 1000 MHZ	47

Table of Contents	Page
APPENDIX E - BANDWIDTH	80
APPENDIX F - MAXIMUM OUTPUT POWER	84
APPENDIX G - CONDUCTED SPURIOUS EMISSIONS	86
APPENDIX H - POWER SPECTRAL DENSITY	90

REVISION HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-1-2507G001	R00	Original Report.	Aug. 07, 2025	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, 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-CB03	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	54%	AC120V/ 60Hz	Hayden Chen	Jul. 17, 2025
Radiated Emissions 9kHz to 30 MHz	22°C	48%	DC 5V	Hayden Chen	Jul. 15, 2025
Radiated Emissions -30MHz to 1000MHz	23°C	55%	DC 5V	Calvin Wen	Jul. 15, 2025
Radiated Emissions -Above 1000MHz	22°C 23°C	50% 55%	DC 5V	Calvin Wen Calvin Wen	Jul. 19, 2025 Jul. 16, 2025
Bandwidth	23°C	51%	DC 5V	Parker Yang	Jul. 14, 2025
Maximum Output Power	23°C-25°C	42%-48%	DC 5V	Alex Yin	Jul. 10, 2025 ~ Jul. 24, 2025
Conducted Spurious Emissions	23°C	51%	DC 5V	Parker Yang	Jul. 14, 2025
Power Spectral Density	23°C	51%	DC 5V	Parker Yang	Jul. 14, 2025

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	Smart Wi-Fi Light Bulb, Multicolor
Brand Name	tp-link
Test Model	KL135
Model Name	N/A
Model Difference(s)	N/A
Hardware Version	2.0
Software Version	2.X
Power Source	AC Mains.
Power Rating	120V~60Hz 0.08A
Operation Frequency	2412 MHz ~ 2462 MHz
Modulation Type	IEEE 802.11b: DSSS IEEE 802.11g/n: 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 802.11b: 21.33 dBm (0.1358 W)

Note:

1. The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.

2. Channel List:

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

3. Antenna Specification:

Ant.	Manufacturer	P/N	Antenna Type	Connector	Gain (dBi)
1	TP-Link Systems Inc.	KL135(US)2.6_ANT	monopole	N/A	-1.74

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 B Mode Channel 11
Mode 5	TX B Mode Channel 01/02/06/10/11
Mode 6	TX G Mode Channel 01/02/06/10/11
Mode 7	TX N(HT20) Mode Channel 01/02/06/10/11

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

AC power line conducted emissions test

Final Test Mode	Description
Mode 4	TX B Mode Channel 11

Radiated emissions test - Below 1GHz & Above 18 GHz

Final Test Mode	Description
Mode 4	TX B Mode Channel 11

Radiated emissions test - 1 GHz - 18 GHz

Mode 5	TX B Mode Channel 01/02/06/10/11
Mode 6	TX G Mode Channel 01/02/06/10/11
Mode 7	TX N(HT20) Mode Channel 01/02/06/10/11

Conducted test

Mode 1	TX B Mode Channel 01/06/11
Mode 2	TX G Mode Channel 01/06/11
Mode 3	TX N(HT20) Mode Channel 01/06/11

NOTE:

- (1) All the bit rate of transmitter have been tested and found the lowest rate is found to be the worst case and recorded.
- (2) For AC power line conducted emissions and radiated emission below 1 GHz test, the IEEE 802.11b Mode Channel 11 is found to be the worst case and recorded.
- (3) For radiated emission above 1 GHz test, the spurious points of 1GHz~26.5GHz have been pre-tested and in this report only recorded the worst case. The remaining spurious points are all below the limit value of 20dB.
- (4) For radiated emission Harmonic 18-26.5GHz test, only tested the worst case and recorded.
- (5) For radiated emission above 1 GHz test, the polarization of Vertical and Horizontal are evaluated, the worst case is Vertical and recorded.

3.3 PARAMETERS OF TEST SOFTWARE

Test Software Version	AmebaZ2_mptool_1V3		
Frequency (MHz)	2412	2437	2462
IEEE 802.11b	101	103	107
IEEE 802.11g	105	127	117
IEEE 802.11n(HT20)	100	127	108

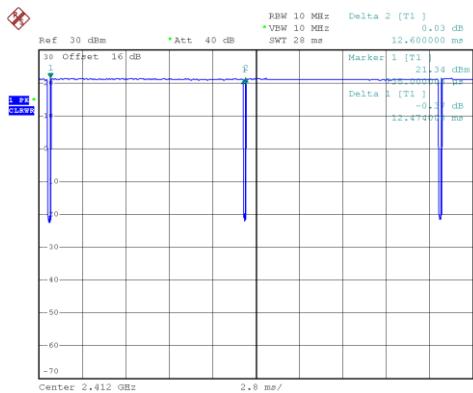
3.4 DUTY CYCLE

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.

802.11b

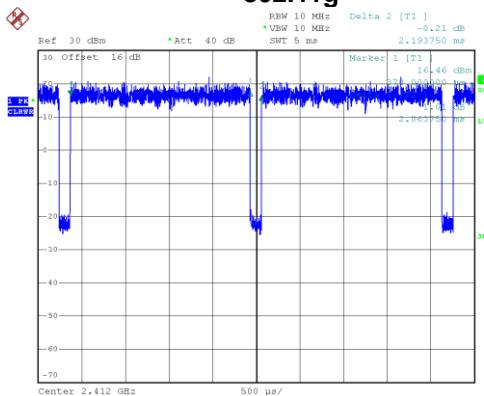


Date: 14.JUL.2025 17:39:58

$$\text{Duty cycle} = 12.474 \text{ ms} / 12.600 \text{ ms} = 99.00\%$$

$$\text{Duty Factor} = 10 \log(1/\text{Duty cycle}) = 0.00 \text{ dB}$$

802.11g

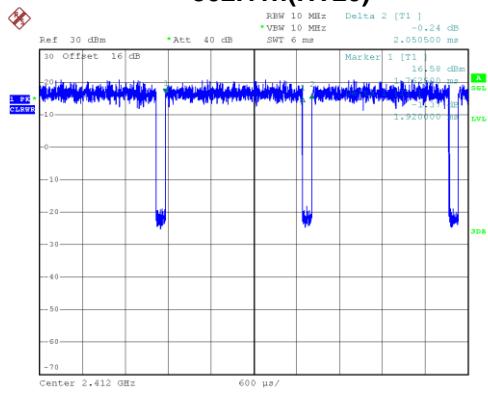


Date: 14.JUL.2025 17:40:31

$$\text{Duty cycle} = 2.064 \text{ ms} / 2.194 \text{ ms} = 94.07\%$$

$$\text{Duty Factor} = 10 \log(1/\text{Duty cycle}) = 0.27 \text{ dB}$$

802.11n(HT20)



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$$\text{Duty cycle} = 1.920 \text{ ms} / 2.051 \text{ ms} = 93.61\%$$

$$\text{Duty Factor} = 10 \log(1/\text{Duty cycle}) = 0.29 \text{ dB}$$

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:

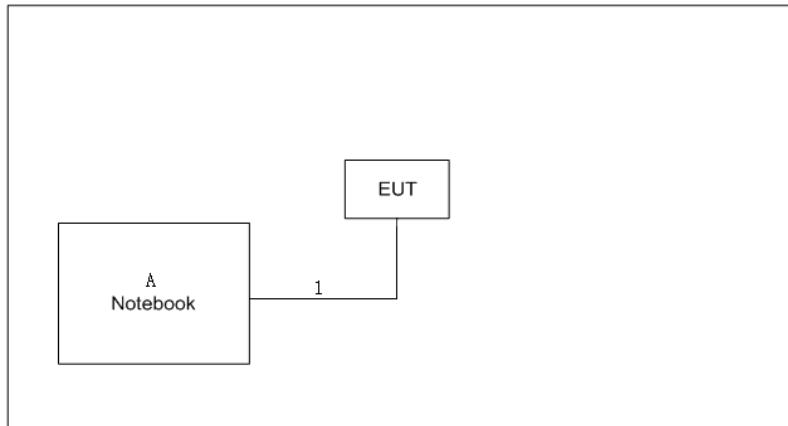
For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 484 Hz.

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 521 Hz.

(Remark: The video bandwidth of the spectrum analyzer was set to 1kHz during the test.)

3.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



3.6 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.
A	Notebook	Honor	Nbl-WAQ9HNRP	NA

Item	Cable Type	Shielded Type	Ferrite Core	Length
1	USB Cable	NO	NO	0.8m

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. Part of the cable losses (0.5dB) are provided by the manufacturer, while the other parts of the cable losses are provided by the testing laboratory.

4. AC POWER LINE CONDUCTED EMISSIONS

4.1 LIMIT

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

NOTE:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.
- (3) The test result calculated as following:
Measurement Value = Reading Level + Correct Factor
Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor (if use)
Margin Level = Measurement Value - Limit Value

4.2 TEST PROCEDURE

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

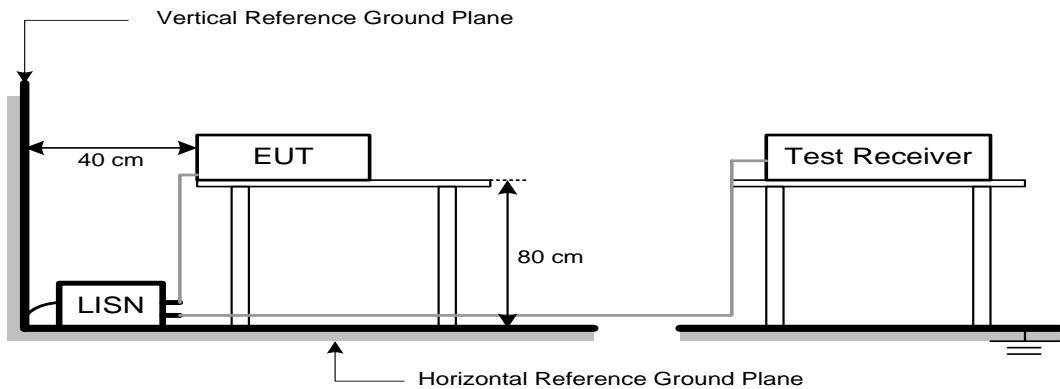
The following table is the setting of the receiver:

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

4.3 DEVIATION FROM TEST STANDARD

No deviation.

4.4 TEST SETUP



4.5 EUT OPERATION CONDITIONS

EUT was programmed to be in continuously transmitting mode.

4.6 TEST RESULTS

Please refer to the APPENDIX A.

5. RADIATED EMISSIONS

5.1 LIMIT

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

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

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

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000 MHz)

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

NOTE:

(1) The limit for radiated test was performed according to FCC CFR Title 47, Part 15, Subpart C.

(2) The tighter limit applies at the band edges.

(3) Emission level (dB μ V/m)=20log Emission level (uV/m).

(4) The test result calculated as following:

Measurement Value = Reading Level + Correct Factor
Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use)
Margin Level = Measurement Value - Limit Value

(5)

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

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

FS_{limit}: Harmonic at 3m Peak and Average limit.

FS_{max}: Harmonic at 1m Peak and Average Maximum value.

d_{limit}: Harmonic at 3m test distance.

d_{measure}: Harmonic Actual test distance.

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	1 MHz / 3 MHz for PK value
(Emission in restricted band)	1 MHz / 1/T Hz for AVG value

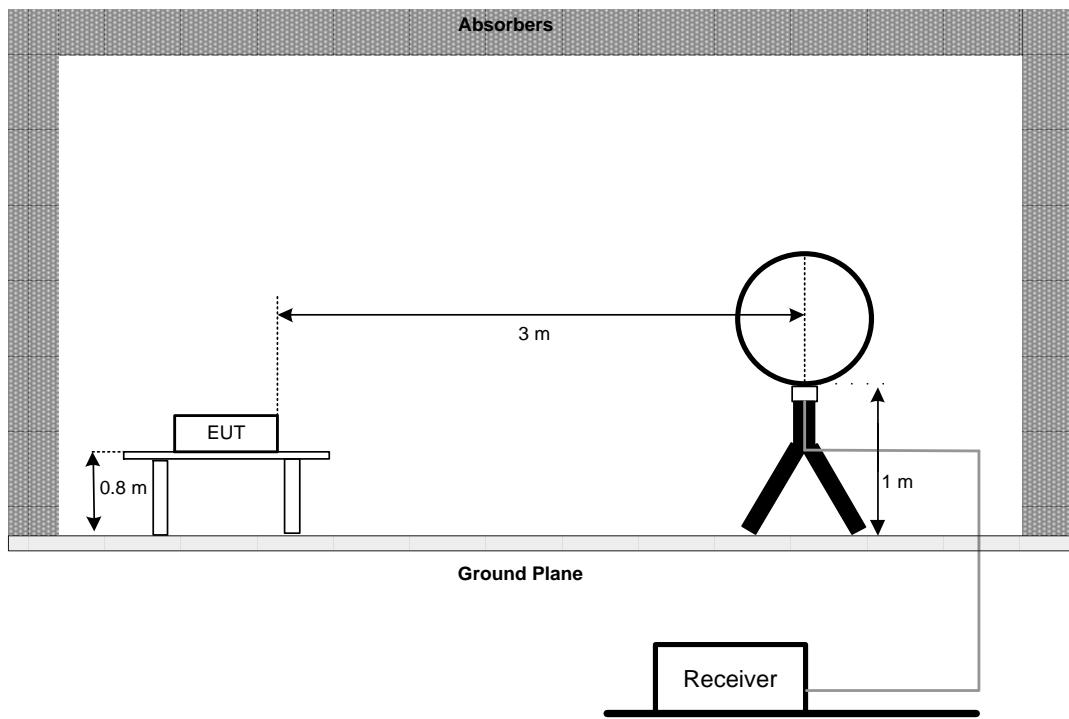
Receiver Parameters	Setting
Start ~ Stop Frequency	9 kHz~90 kHz for PK/AVG detector
Start ~ Stop Frequency	90 kHz~110 kHz for QP detector
Start ~ Stop Frequency	110 kHz~490 kHz for PK/AVG detector
Start ~ Stop Frequency	490 kHz~30 MHz for QP detector
Start ~ Stop Frequency	30 MHz~1000 MHz for QP detector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

5.3 DEVIATION FROM TEST STANDARD

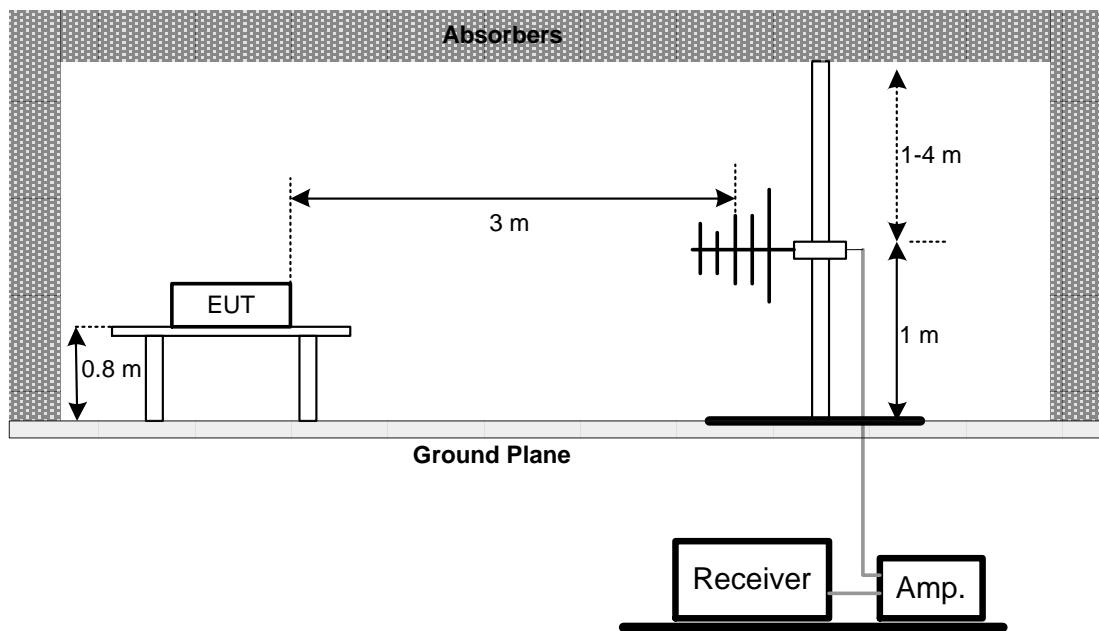
No deviation.

5.4 TEST SETUP

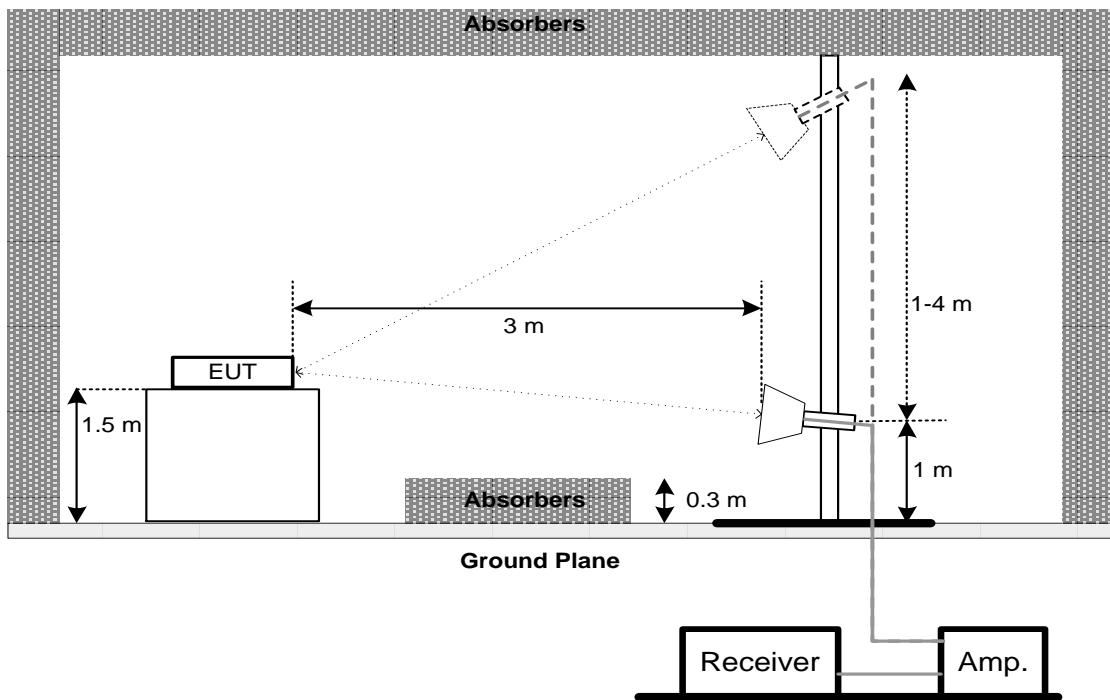
9 kHz to 30 MHz



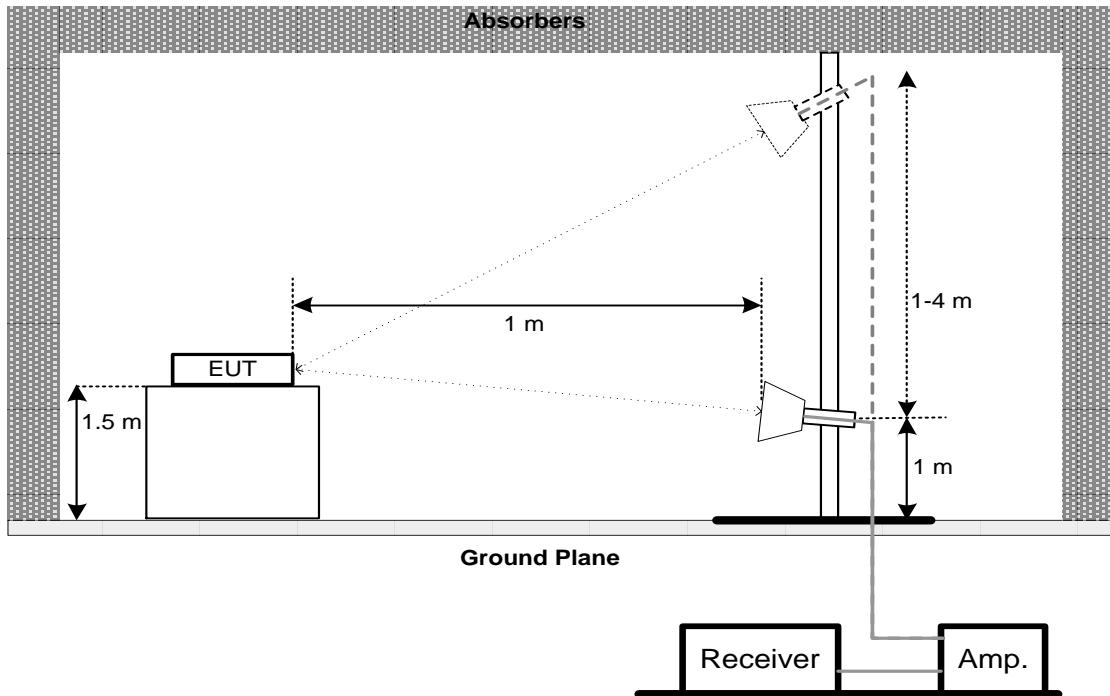
30 MHz to 1 GHz



**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	> Measurement Bandwidth
RBW	100 kHz
VBW	300 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

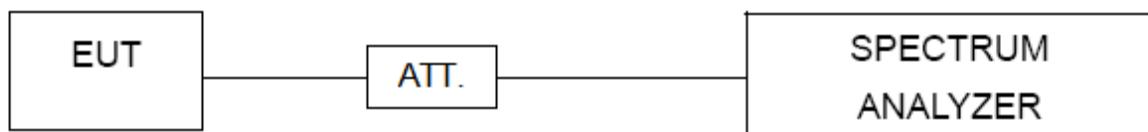
For 99% Emission Bandwidth:

Spectrum Parameters	Setting
Span	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

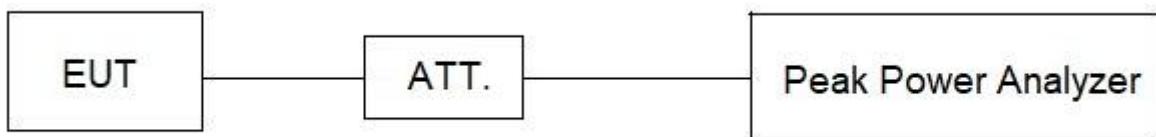
7.2 TEST PROCEDURE

- a. The EUT was directly connected to the peak power analyzer and antenna output port as show in the block diagram below.
- b. The maximum conducted output power was performed in accordance with method 11.9.2.3.1 (for AVG power) 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

- 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 Reference Level:

Spectrum Parameters	Setting
Span	≥ 1.5 times the bandwidth.
RBW	100 kHz
VBW	300 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

For Emission Level - Band edge:

Spectrum Parameters	Setting
Start Frequency	2300 MHz
Stop Frequency	2690 MHz
RBW	100 kHz
VBW	300 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

For Emission Level - Harmonic:

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	1.5 times the DTS bandwidth
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	ESCI	100382	Dec. 06, 2025
2	TWO-LINE V-NETWORK	R&S	ENV216	101447	Dec. 06, 2025
3	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
4	Cable	N/A	SFT205-NMNM-9M-001	9M	Nov. 11, 2025
5	643 Shield Room	ETS	6*4*3	N/A	N/A

Radiated Emissions - 9 kHz to 30 MHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Active Loop Antenna	Schwarzbeck	FMZB 1513-60	00025	Mar. 01, 2026
2	Receiver	Agilent	N9038A	MY52130039	Jan. 10, 2026
3	Cable	RegalWay	LMR400-NMNM-6m	N/A	Apr. 26, 2026
4	Cable	RegalWay	LMR400-NMRANM-3.5m	N/A	Apr. 26, 2026
5	966 Chamber room	CM	9*6*6	N/A	May 09, 2026

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	01462	Dec. 14, 2025
2	Attenuator	EMC INSTRUMENT	EMCI-N-6-06	AT-06009	Dec. 14, 2025
3	Preamplifier	EMC INSTRUMENT	EMC001330	980998	May 17, 2026
4	Cable	RegalWay	LMR400-NMNM-12.5m	N/A	Jun. 04, 2026
5	Cable	RegalWay	LMR400-NMNM-3m	N/A	Jun. 04, 2026
6	Cable	RegalWay	LMR400-NMNM-0.5m	N/A	Jun. 04, 2026
7	Receiver	Agilent	N9038A	MY52130039	Jan. 10, 2026
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 09, 2026

Radiated Emissions - 1 GHz - 18 GHz

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Receiver	Agilent	N9038A	MY52130039	Jan. 10, 2026
2	Preamplifier	EMC INSTRUMENT	EMC118A45SE	980888	Oct. 29, 2025
3	Double Ridged Guide Antenna	ETS	3115	75846	Mar. 02, 2026
4	Cable	RegalWay	RWLP50-4.0A -SMSM-12.5M	N/A	Jun. 29, 2026
5	Cable	RegalWay	RWLP50-4.0A -NMRASM-2.5M	N/A	Jun. 29, 2026
6	Cable	RegalWay	RWLP50-4.0A -NMRASMRA-0.8M	N/A	Jun. 29, 2026
7	966 Chamber room	CM	9*6*6	N/A	May 18, 2026
8	Attenuator	Talent Microwave	TA10A2-S-18	N/A	N/A
9	Filter	STI	STI15-9912	N/A	May 27, 2026
10	Positioning Controller	MF	MF-7802	N/A	N/A
11	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
12	966 Chamber room	CM	9*6*6	N/A	May 09, 2026

Radiated Emissions - Above 18 GHz

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	EXA Spectrum Analyzer	Keysight	N9010A	MY55150209	Aug. 20, 2025
2	Preamplifier	EMC INSTRUMENT	EMC184045SE	980905	Oct. 29, 2025
3	Cable	RegalWay	RWLP50-2.6A -2.92M2.92M-1.1M	N/A	Jul. 25, 2025
4	Cable	Tonscend	HF160-KMKM-3M	N/A	Jul. 25, 2025
5	Broad-Band Horn Antenna	Schwarzbeck	BBHA9170(3m)	9170-319	Jun. 16, 2025
6	966 Chamber room	CM	9*6*6	N/A	May 09, 2026
7	Positioning Controller	MF	MF-7802	N/A	N/A
8	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

**Bandwidth &
Conducted Spurious Emissions &
Power Spectral Density**

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	May 17, 2026
2	Multimeter	FLUKE	15B+(TR13)	45123773WS	May 17, 2026
3	Measurement Software	BTL	BTL Conducted Test	N/A	N/A
4	DC power supply	UNI-T	UDP6721	AWP7224050 031	Dec. 06, 2025
5	Isolation attenuator	Z-Link	ASMA-16-18-2W	N/A	N/A

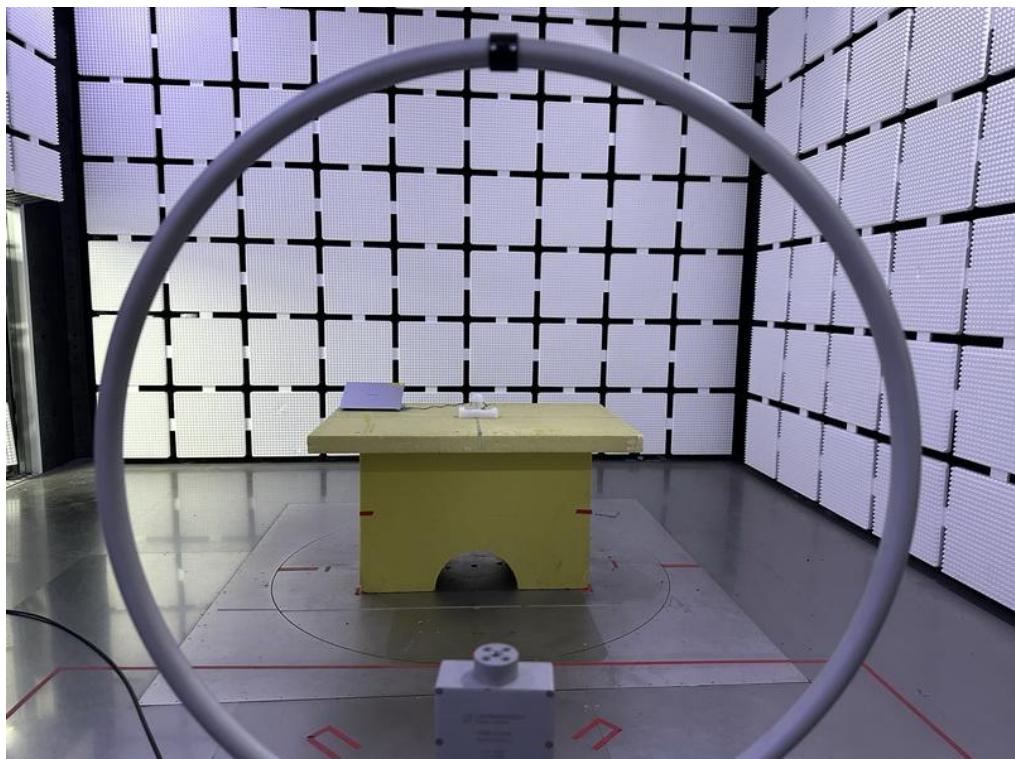
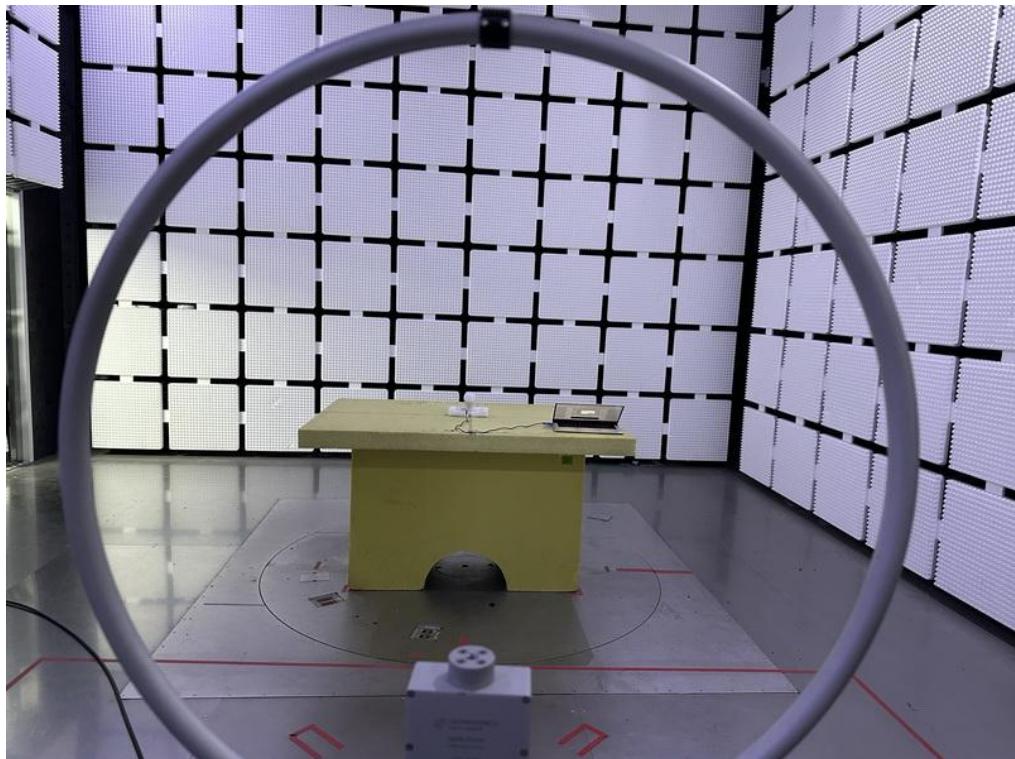
Maximum Output Power

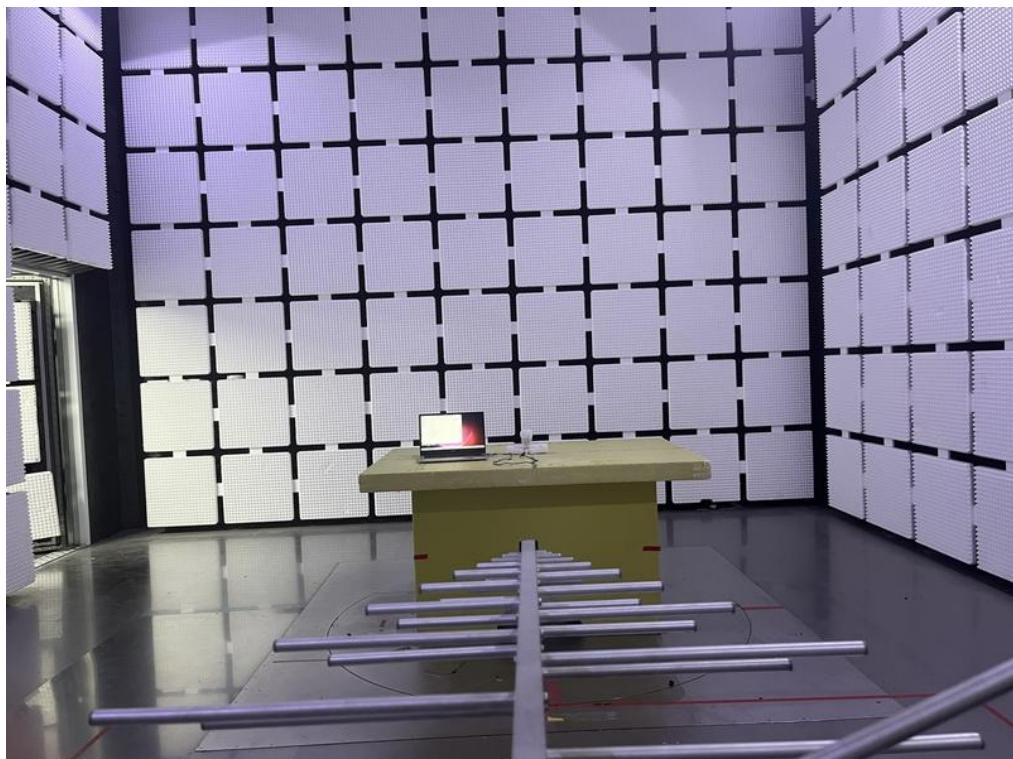
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Peak Power Analyzer	Keysight	8990B	MY51000506	May 17, 2026
2	Wideband power sensor	Keysight	N1923A	MY58310004	May 17, 2026
3	Isolation attenuator	Z-Link	ASMA-10-18-2W	N/A	N/A

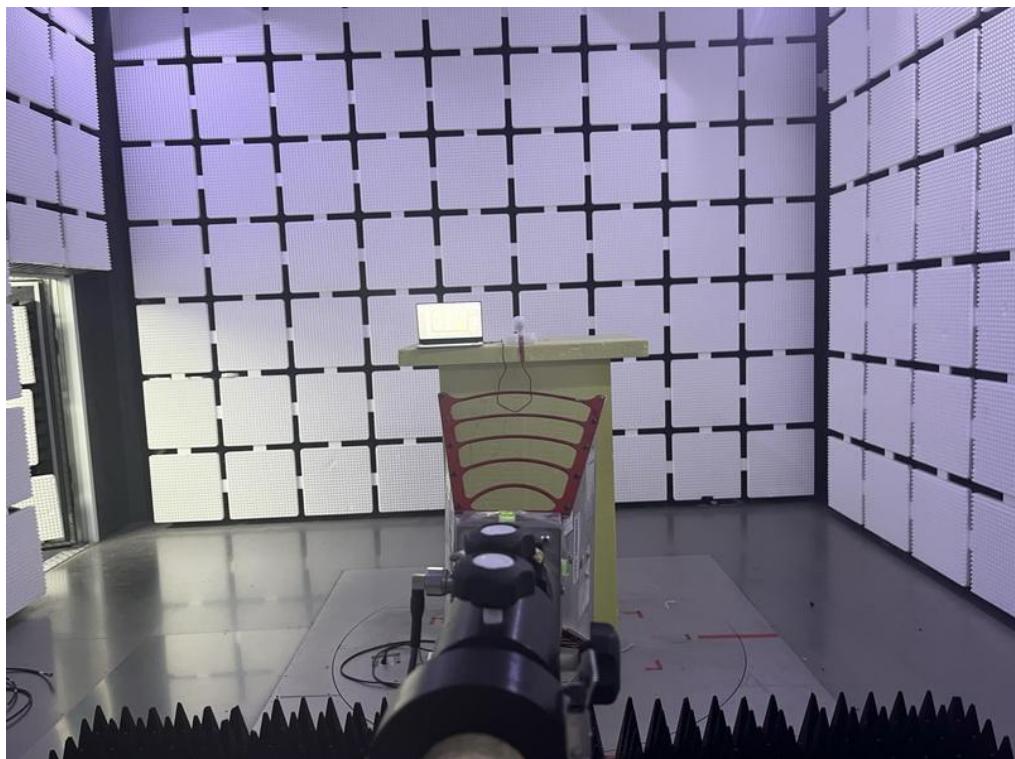
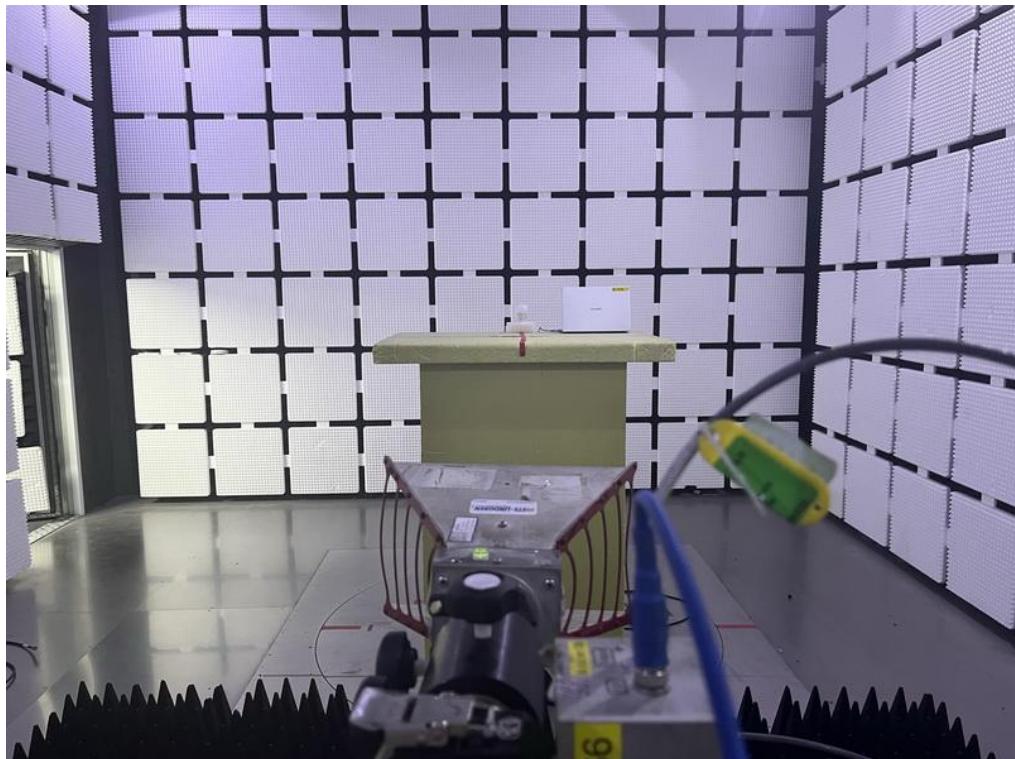
Remark: "N/A" denotes no model name, serial no. or calibration specified.

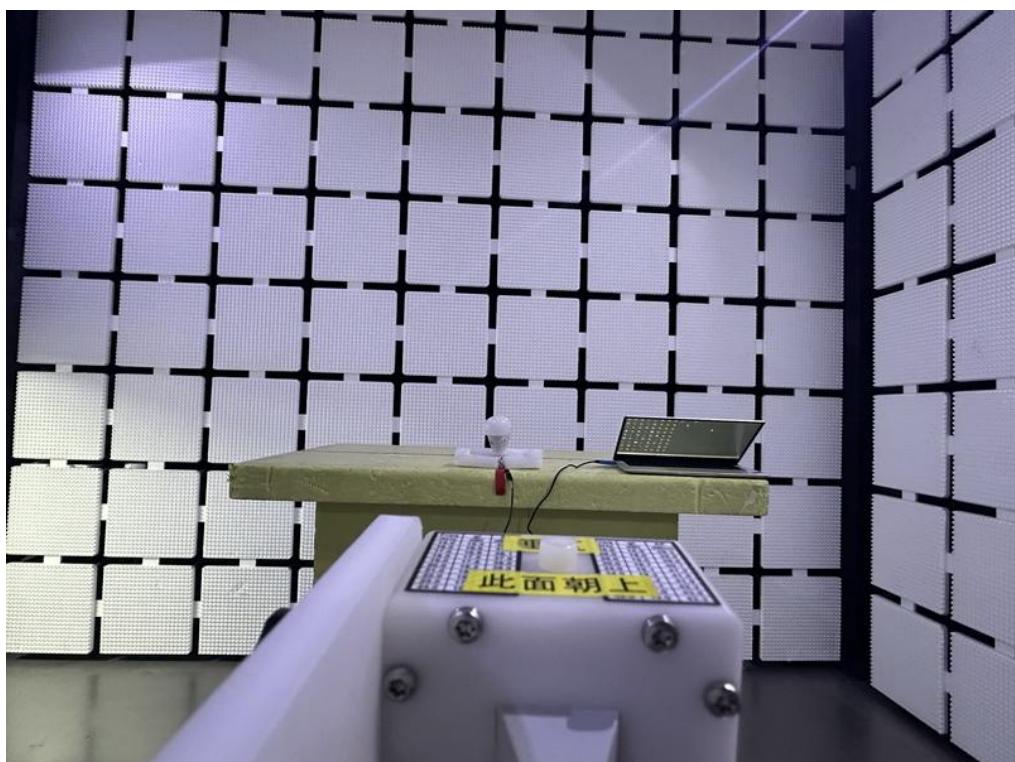
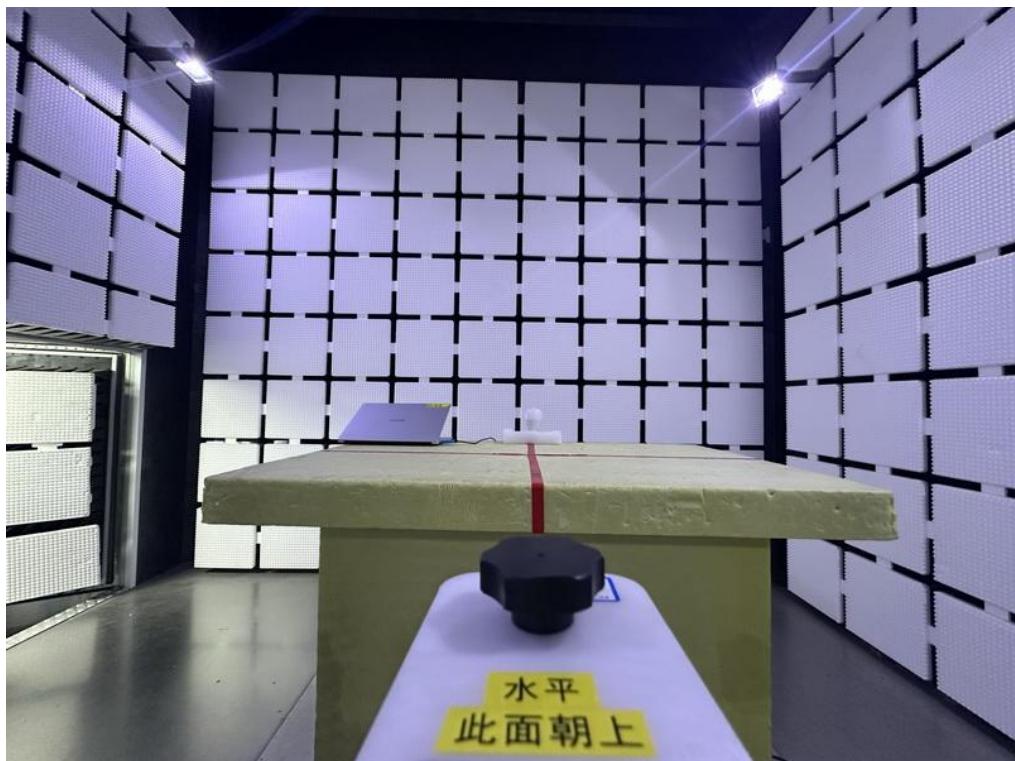
All calibration period of equipment list is one year.

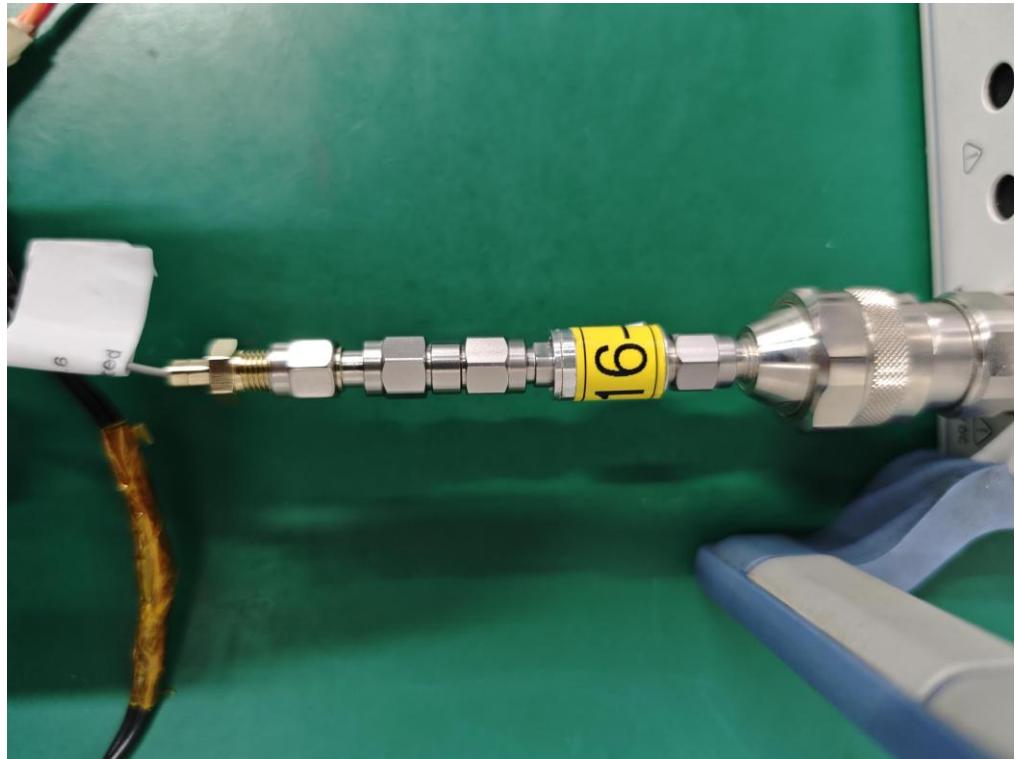
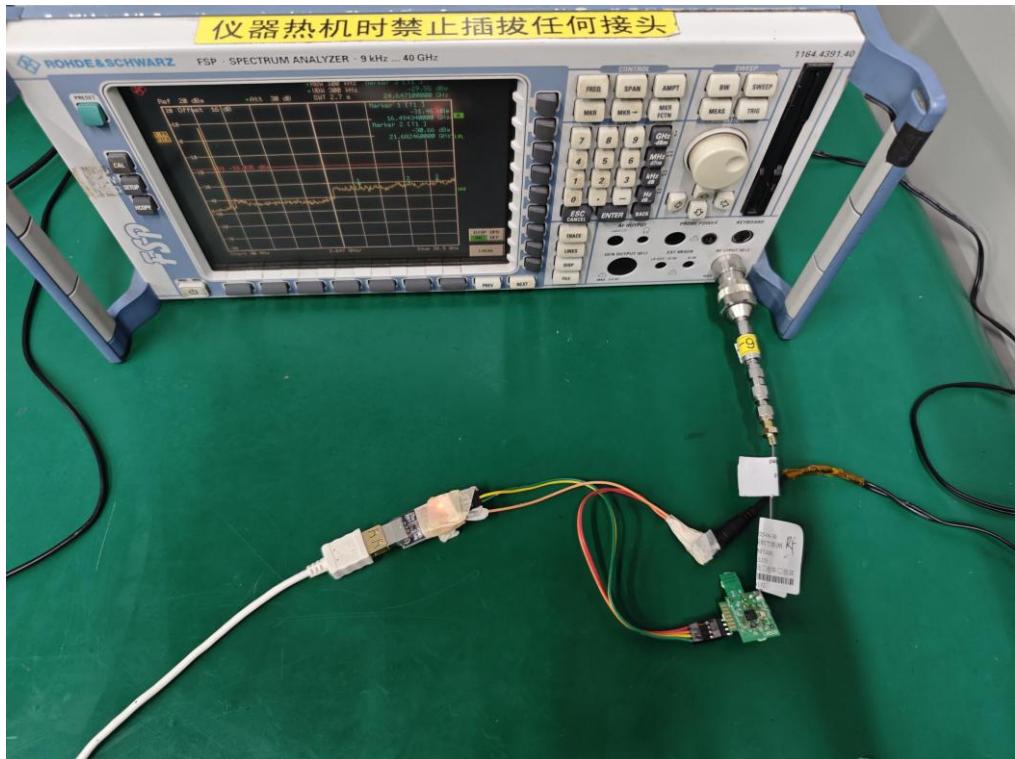
11. EUT TEST PHOTO**AC Power Line Conducted Emissions Test Photos**

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

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

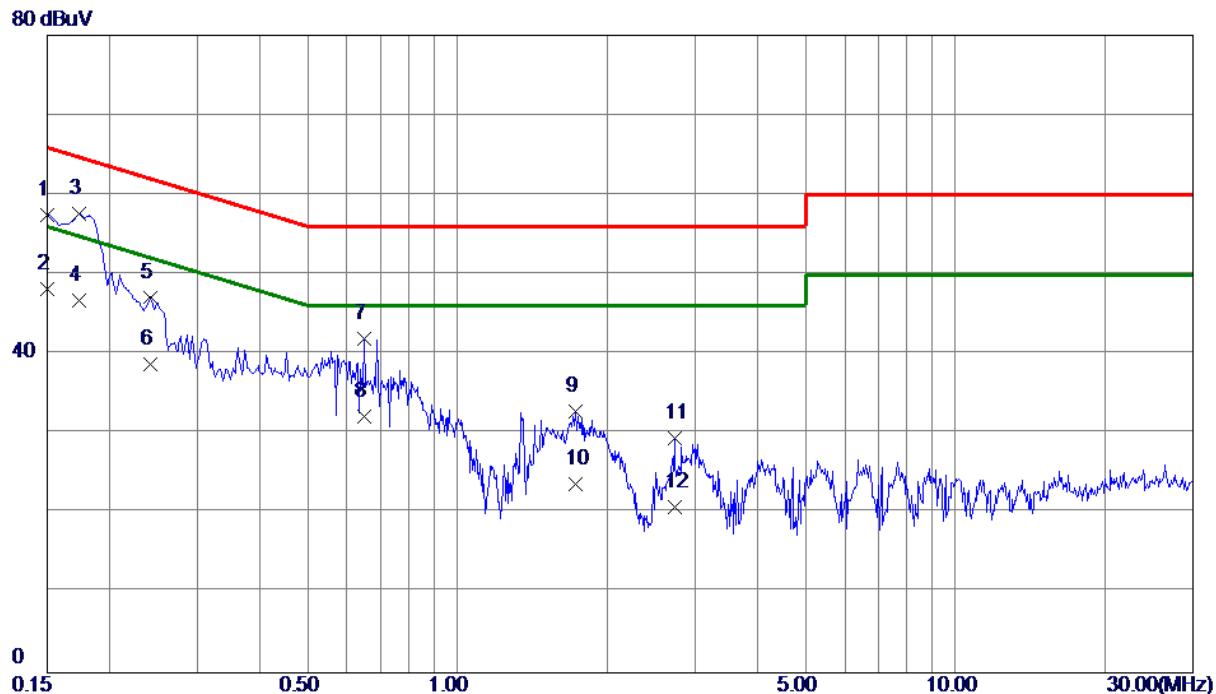
Radiated Emissions Test Photos**Band edge & Harmonic(1 GHz to 18 GHz)**

Radiated Emissions Test Photos**Harmonic(18 GHz to 26.5 GHz)**

Conducted Test Photos

APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS

Test Mode	TX B Mode Channel 11	Phase	Line
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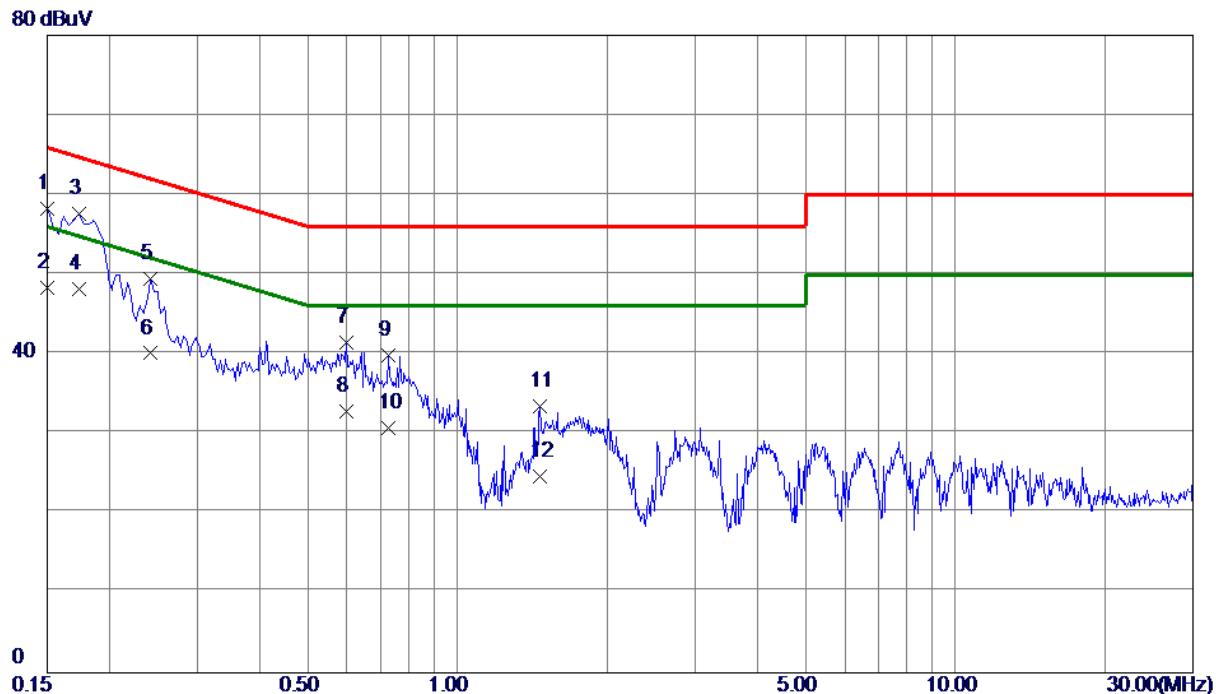


No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector		Comment
							Detector	Comment	
1	0.1500	47.58	9.90	57.48	66.00	-8.52	QP		
2	0.1500	38.19	9.90	48.09	56.00	-7.91	AVG		
3 *	0.1740	47.74	9.92	57.66	64.77	-7.11	QP		
4	0.1740	36.81	9.92	46.73	54.77	-8.04	AVG		
5	0.2420	37.22	9.90	47.12	62.03	-14.91	QP		
6	0.2420	28.80	9.90	38.70	52.03	-13.33	AVG		
7	0.6500	31.92	9.98	41.90	56.00	-14.10	QP		
8	0.6500	22.11	9.98	32.09	46.00	-13.91	AVG		
9	1.7300	22.65	10.12	32.77	56.00	-23.23	QP		
10	1.7300	13.60	10.12	23.72	46.00	-22.28	AVG		
11	2.7340	19.11	10.26	29.37	56.00	-26.63	QP		
12	2.7340	10.50	10.26	20.76	46.00	-25.24	AVG		

REMARKS:

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

Test Mode	TX B Mode Channel 11	Phase	Neutral
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No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector		Comment
							Detector	Comment	
1	0.1500	48.32	9.97	58.29	66.00	-7.71	QP		
2	0.1500	38.40	9.97	48.37	56.00	-7.63	AVG		
3	0.1740	47.61	9.97	57.58	64.77	-7.19	QP		
4 *	0.1740	38.20	9.97	48.17	54.77	-6.60	AVG		
5	0.2420	39.43	9.98	49.41	62.03	-12.62	QP		
6	0.2420	30.10	9.98	40.08	52.03	-11.95	AVG		
7	0.5980	31.37	10.03	41.40	56.00	-14.60	QP		
8	0.5980	22.70	10.03	32.73	46.00	-13.27	AVG		
9	0.7260	29.80	10.05	39.85	56.00	-16.15	QP		
10	0.7260	20.60	10.05	30.65	46.00	-15.35	AVG		
11	1.4660	23.27	10.14	33.41	56.00	-22.59	QP		
12	1.4660	14.50	10.14	24.64	46.00	-21.36	AVG		

REMARKS:

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

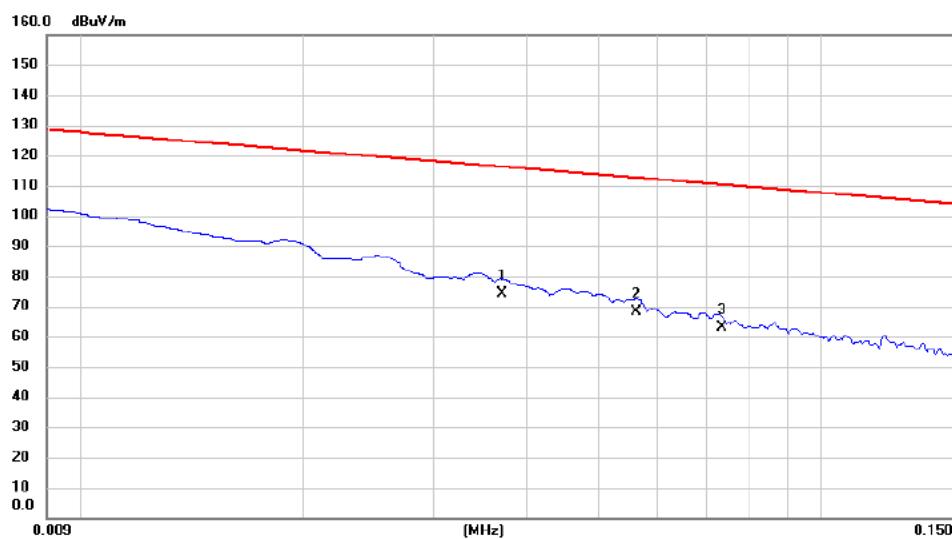
APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ

Test Mode

TX B Mode Channel 11

Polarization

Ant 0°

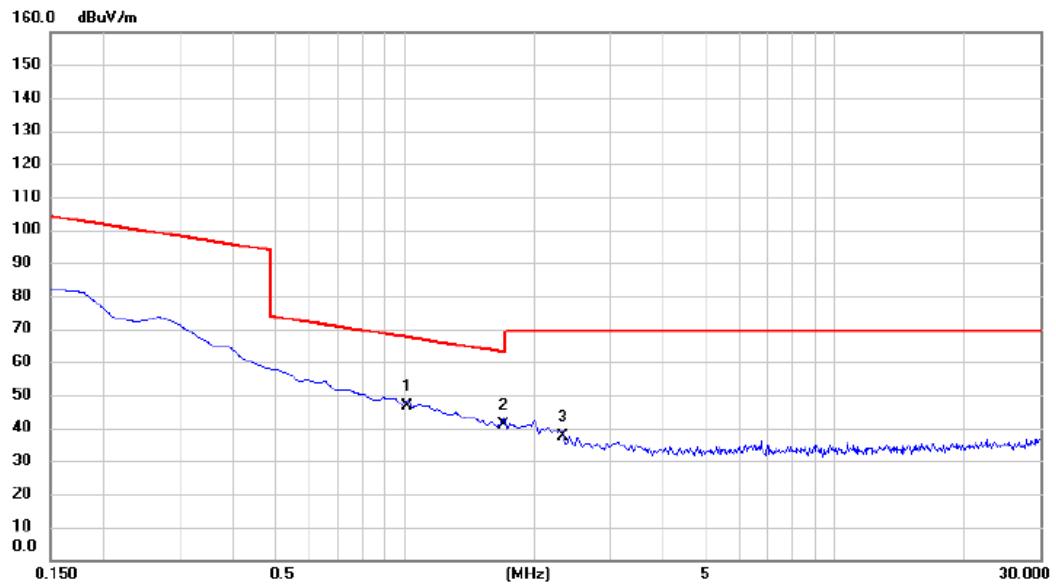


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin	
		MHz	dBuV	dB	dBuV/m	dB	Detector	Comment
1	*	0.037	54.20	20.14	74.34	116.22	-41.88	AVG
2		0.056	48.25	20.14	68.39	112.61	-44.22	AVG
3		0.073	42.74	20.14	62.88	110.30	-47.42	AVG

REMARKS:

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

Test Mode	TX B Mode Channel 11	Polarization	Ant 0°
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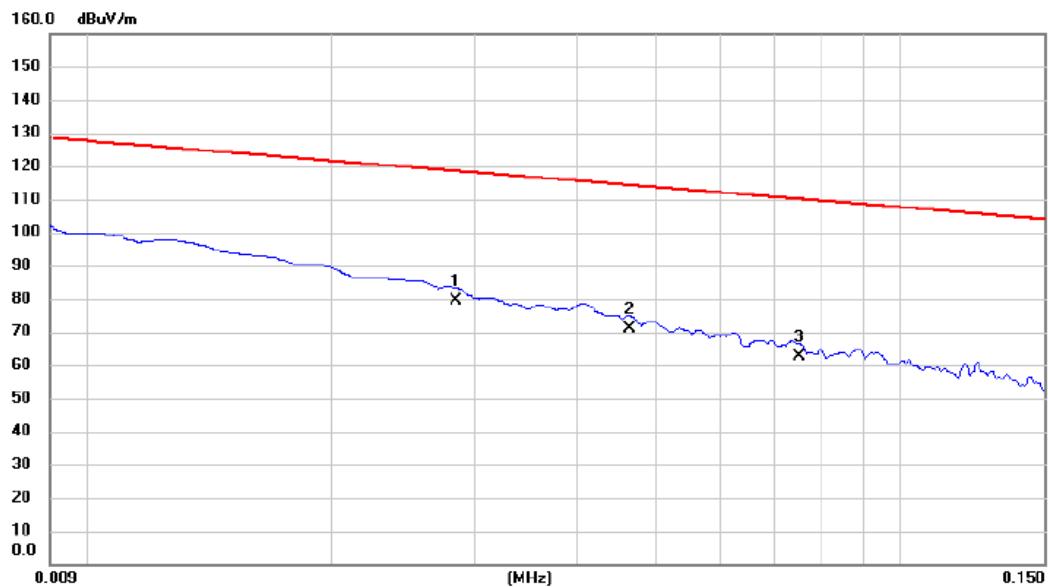


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	1.016	26.42	20.00	46.42	67.47	-21.05	QP	
2		1.702	20.80	20.01	40.81	62.98	-22.17	QP	
3		2.329	17.24	20.03	37.27	69.54	-32.27	QP	

REMARKS:

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

Test Mode	TX B Mode Channel 11	Polarization	Ant 90°
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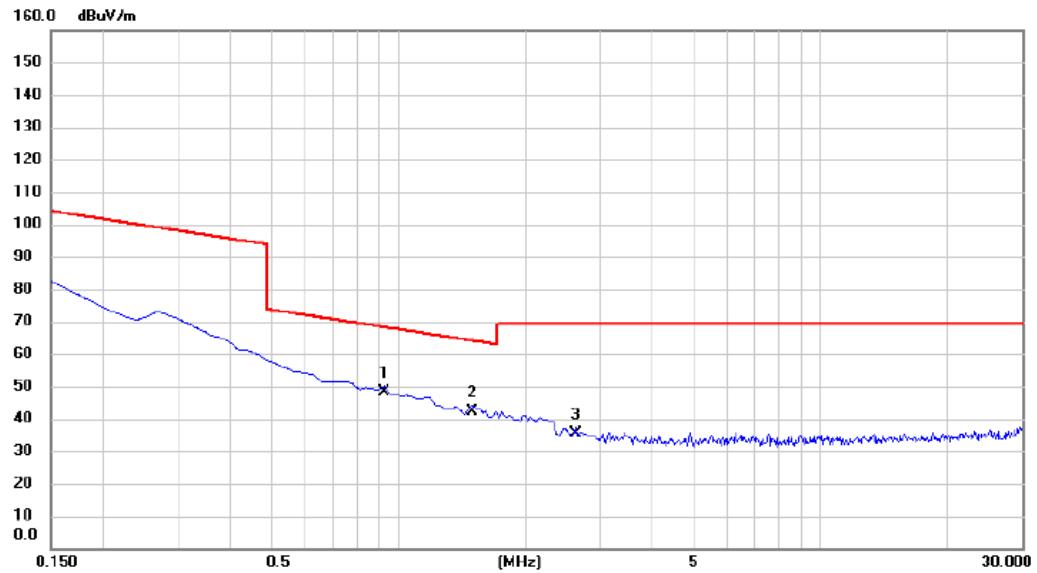


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.028	59.38	20.17	79.55	118.54	-38.99	AVG	
2		0.046	50.74	20.14	70.88	114.27	-43.39	AVG	
3		0.075	42.65	20.14	62.79	110.09	-47.30	AVG	

REMARKS:

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

Test Mode	TX B Mode Channel 11	Polarization	Ant 90°
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No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin	
		MHz	dBuV	dB	dBuV/m	dB	Detector	Comment
1	*	0.926	28.03	19.99	48.02	68.27	-20.25	QP
2		1.493	22.31	20.00	42.31	64.12	-21.81	QP
3		2.627	15.29	20.05	35.34	69.54	-34.20	QP

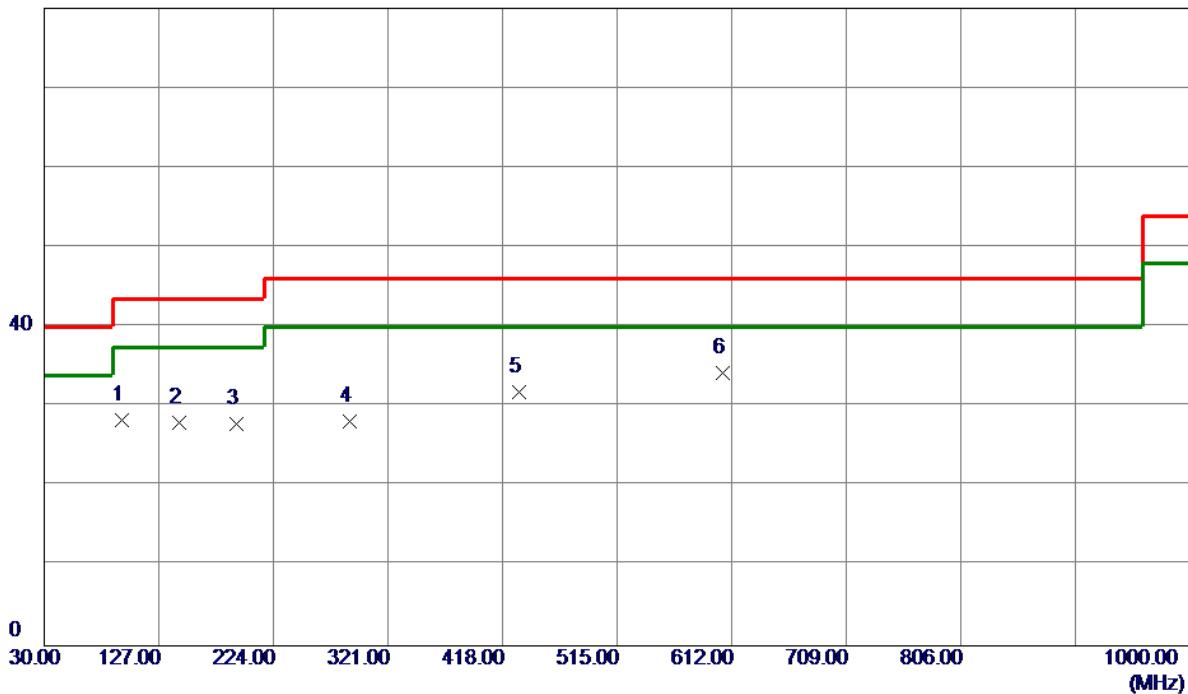
REMARKS:

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

APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1000 MHZ

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



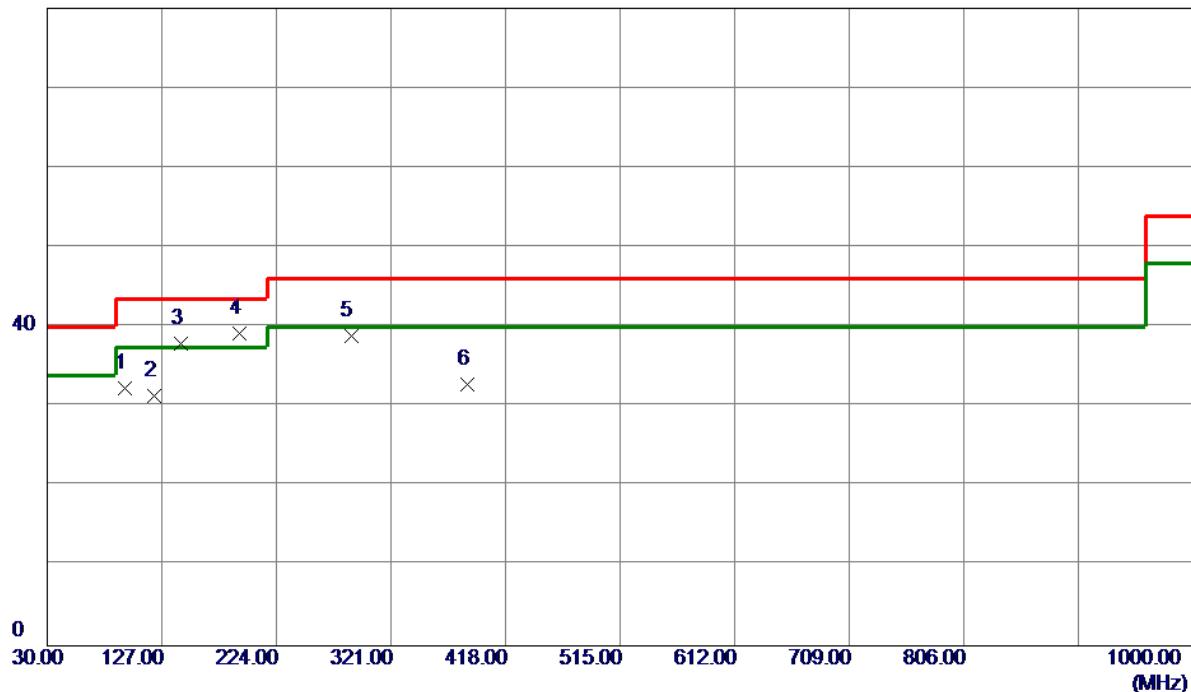
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	95.9600	44.27	-16.01	28.26	43.52	-15.26	Peak	
2	144.4600	38.98	-10.95	28.03	43.52	-15.49	Peak	
3	192.9600	40.83	-12.93	27.90	43.52	-15.62	Peak	
4	288.9900	37.94	-9.85	28.09	46.02	-17.93	Peak	
5	431.5800	38.34	-6.50	31.84	46.02	-14.18	Peak	
6 *	604.2400	37.32	-3.15	34.17	46.02	-11.85	Peak	

REMARKS:

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

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



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	95.9600	48.26	-16.01	32.25	43.52	-11.27	Peak	
2	120.2100	44.39	-13.08	31.31	43.52	-12.21	Peak	
3	143.4900	48.92	-11.00	37.92	43.52	-5.60	Peak	
4 *	192.9600	52.07	-12.93	39.14	43.52	-4.38	Peak	
5	287.0500	48.80	-9.91	38.89	46.02	-7.13	Peak	
6	385.9900	40.45	-7.63	32.82	46.02	-13.20	Peak	

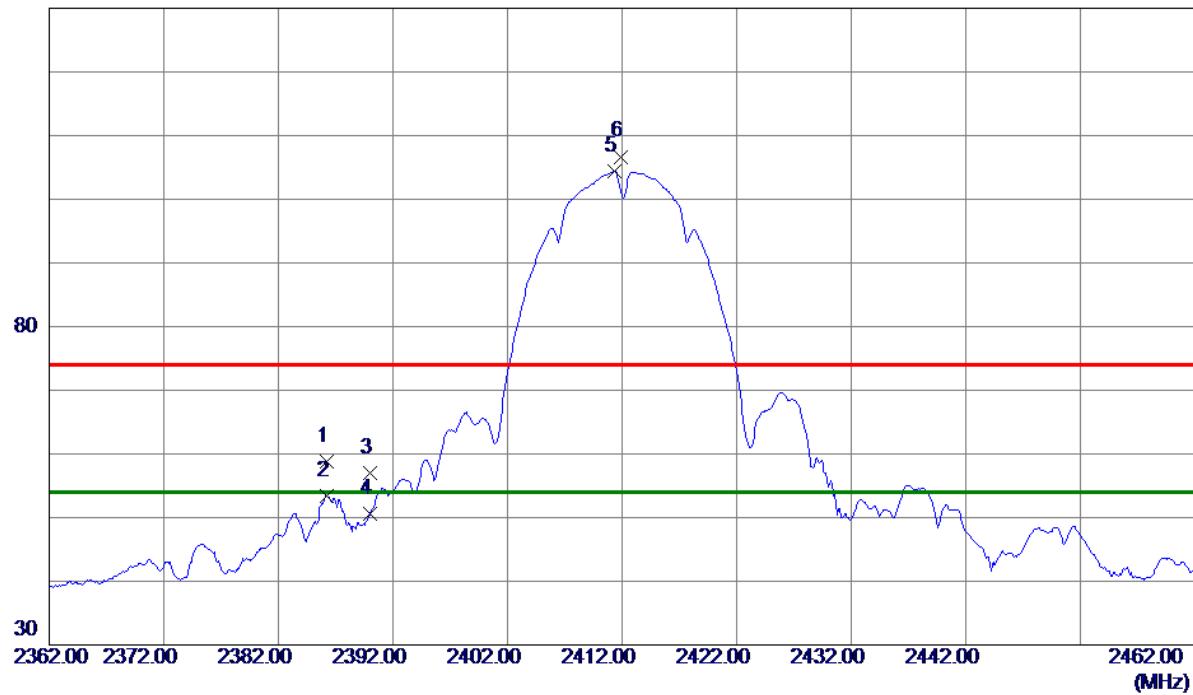
REMARKS:

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

APPENDIX D - RADIATED EMISSION- ABOVE 1000 MHZ

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

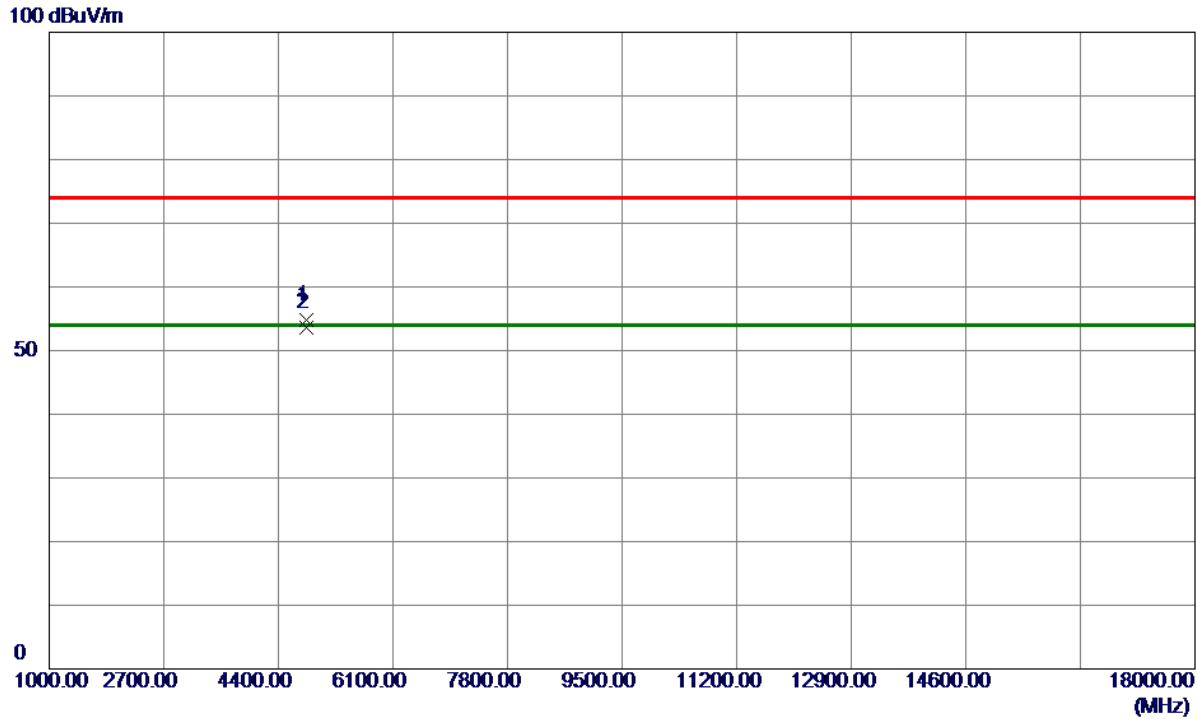


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector		Comment
							Detector	Comment	
1	2386.2000	50.86	7.89	58.75	74.00	-15.25	Peak		
2	2386.2000	45.48	7.89	53.37	54.00	-0.63	AVG		
3	2390.0000	49.12	7.90	57.02	74.00	-16.98	Peak		
4	2390.0000	42.77	7.90	50.67	54.00	-3.33	AVG		
5 *	2411.3000	96.49	7.95	104.44	54.00	50.44	AVG		No Limit
6	2411.9000	98.75	7.95	106.70	74.00	32.70	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	Vertical
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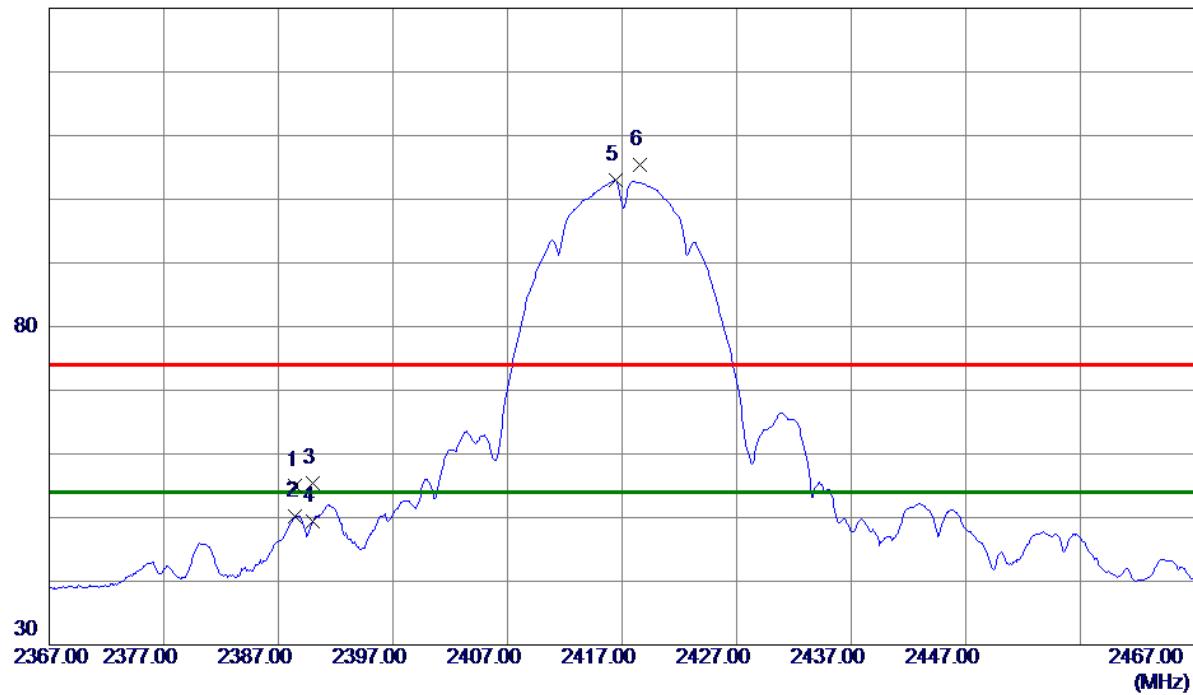
No.	Freq.	Reading	Correct	Measure	Limit	Margin	Detector	Comment
		Level	Factor	dBuV/m	dBuV/m	dB		
1	4824.0590	50.47	4.37	54.84	74.00	-19.16	Peak	
2 *	4824.0790	49.31	4.37	53.68	54.00	-0.32	AVG	

REMARKS:

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

Test Mode	TX B Mode 2417 MHz	Polarization	Vertical
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130 dBuV/m

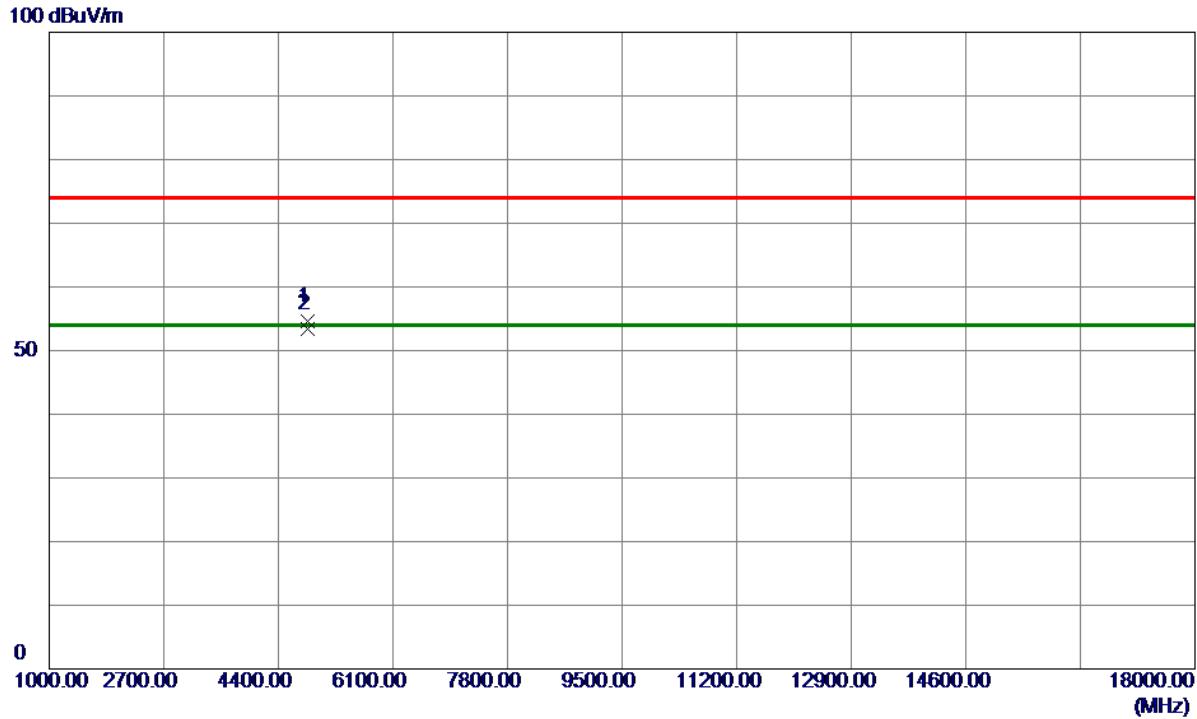


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector		Comment
							Detector	Comment	
1	2388.5000	47.20	7.89	55.09	74.00	-18.91	Peak		
2	2388.5000	42.33	7.89	50.22	54.00	-3.78	AVG		
3	2390.0000	47.57	7.90	55.47	74.00	-18.53	Peak		
4	2390.0000	41.56	7.90	49.46	54.00	-4.54	AVG		
5 *	2416.4000	95.04	7.96	103.00	54.00	49.00	AVG		No Limit
6	2418.6000	97.50	7.96	105.46	74.00	31.46	Peak		No Limit

REMARKS:

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

Test Mode	TX B Mode 2417 MHz	Polarization	Vertical
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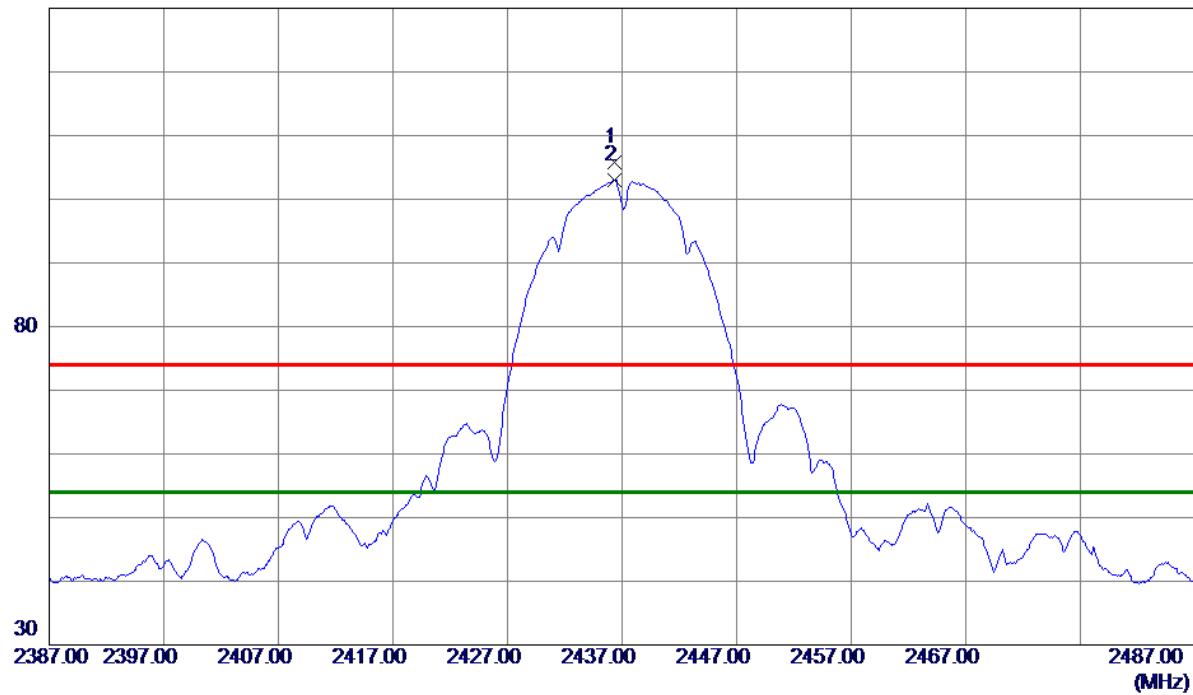
No.	Freq.	Reading	Correct	Measure	Limit	Margin	Detector	Comment
		Level	Factor	dBuV/m	dBuV/m	dB		
1	4834.0900	50.25	4.38	54.63	74.00	-19.37	Peak	
2 *	4834.1100	48.98	4.38	53.36	54.00	-0.64	AVG	

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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130 dBuV/m

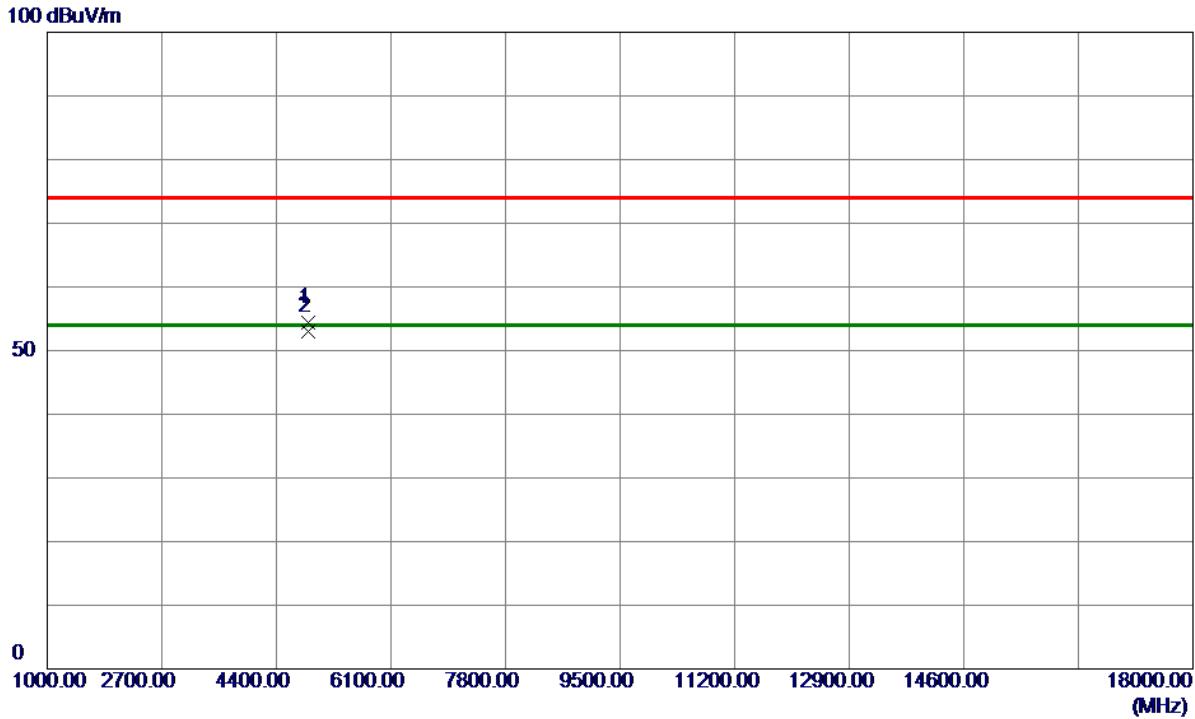


No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	2436.3000	97.72	8.00	105.72	74.00	31.72	Peak	No Limit
2 *	2436.3000	94.98	8.00	102.98	54.00	48.98	AVG	No Limit

REMARKS:

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

Test Mode	TX B Mode 2437 MHz	Polarization	Vertical
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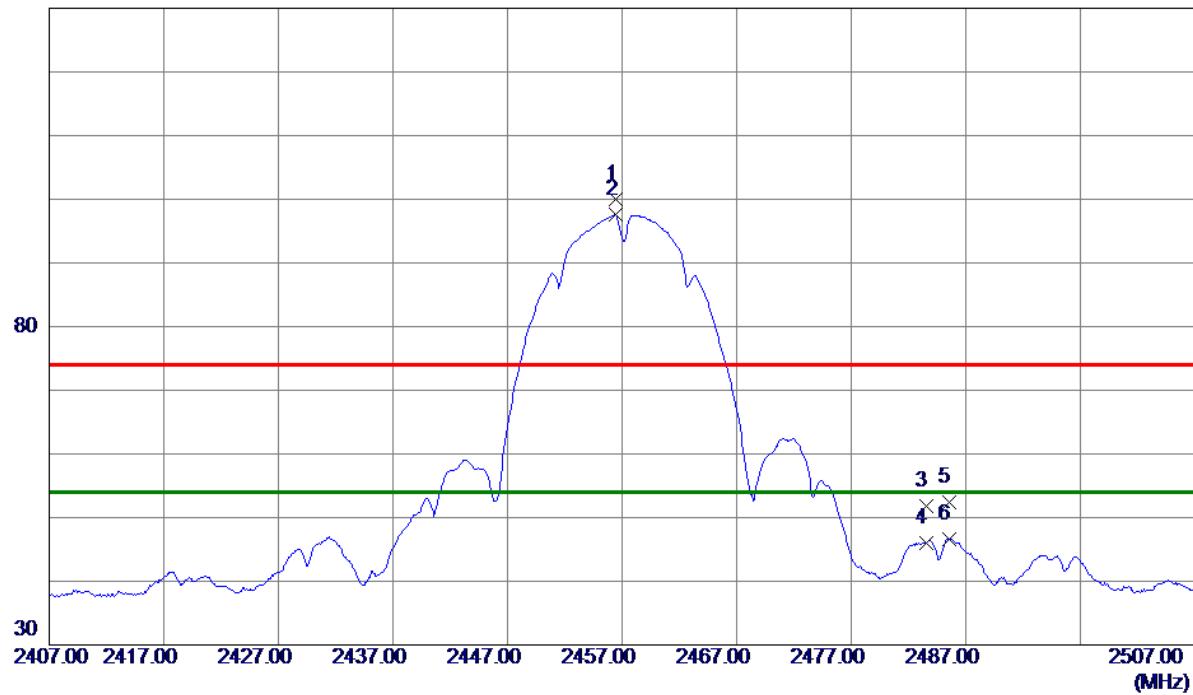
No.	Freq.	Reading	Correct	Measure	Limit	Margin	Detector	Comment
		Level	Factor	dBuV/m	dBuV/m	dB		
1	4874.0900	49.94	4.40	54.34	74.00	-19.66	Peak	
2 *	4874.1100	48.63	4.40	53.03	54.00	-0.97	AVG	

REMARKS:

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

Test Mode	TX B Mode 2457 MHz	Polarization	Vertical
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130 dBuV/m

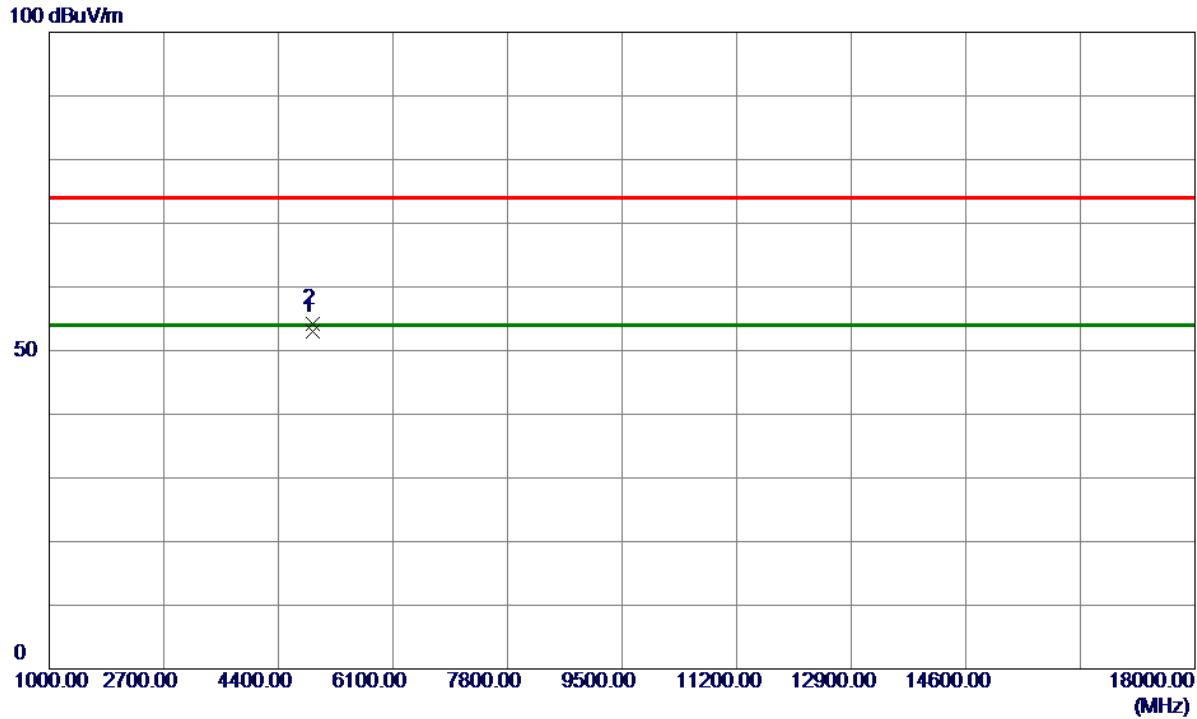


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2456.4000	91.88	8.05	99.93	74.00	25.93	Peak	No Limit
2 *	2456.4000	89.49	8.05	97.54	54.00	43.54	AVG	No Limit
3	2483.5000	43.76	8.11	51.87	74.00	-22.13	Peak	
4	2483.5000	37.92	8.11	46.03	54.00	-7.97	AVG	
5	2485.5000	44.36	8.12	52.48	74.00	-21.52	Peak	
6	2485.5000	38.49	8.12	46.61	54.00	-7.39	AVG	

REMARKS:

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

Test Mode	TX B Mode 2457 MHz	Polarization	Vertical
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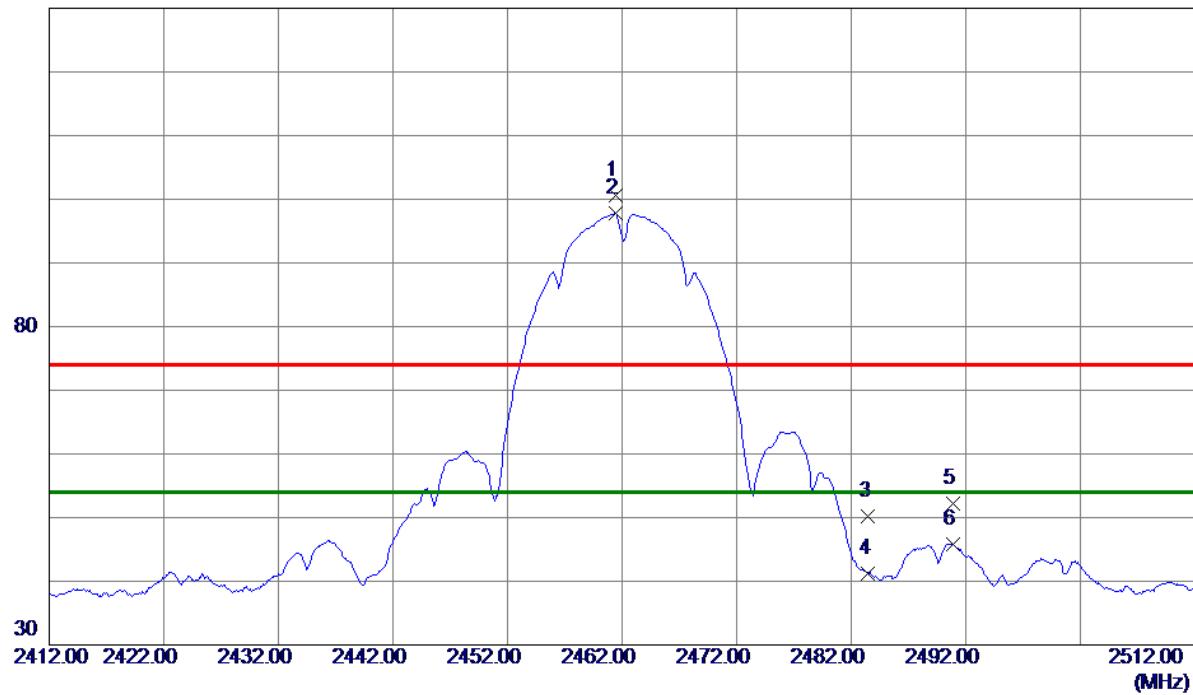
No.	Freq.	Reading	Correct	Measure	Limit	Margin	Detector	Comment
		Level	Factor	dBuV/m	dBuV/m	dB		
1 *	4914.1300	48.66	4.42	53.08	54.00	-0.92	AVG	
2	4914.1900	49.79	4.42	54.21	74.00	-19.79	Peak	

REMARKS:

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

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

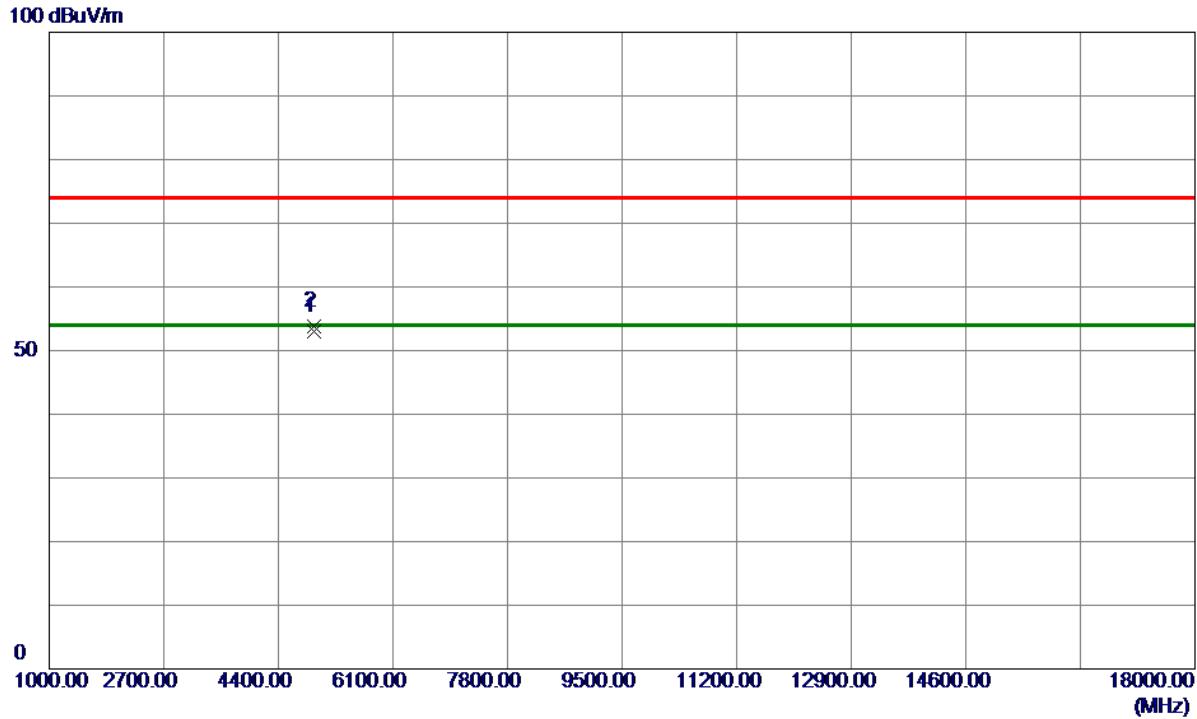


No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	2461.4000	92.58	8.06	100.64	74.00	26.64	Peak	No Limit
2 *	2461.4000	89.76	8.06	97.82	54.00	43.82	AVG	No Limit
3	2483.5000	42.12	8.11	50.23	74.00	-23.77	Peak	
4	2483.5000	33.01	8.11	41.12	54.00	-12.88	AVG	
5	2490.9000	44.09	8.13	52.22	74.00	-21.78	Peak	
6	2490.9000	37.75	8.13	45.88	54.00	-8.12	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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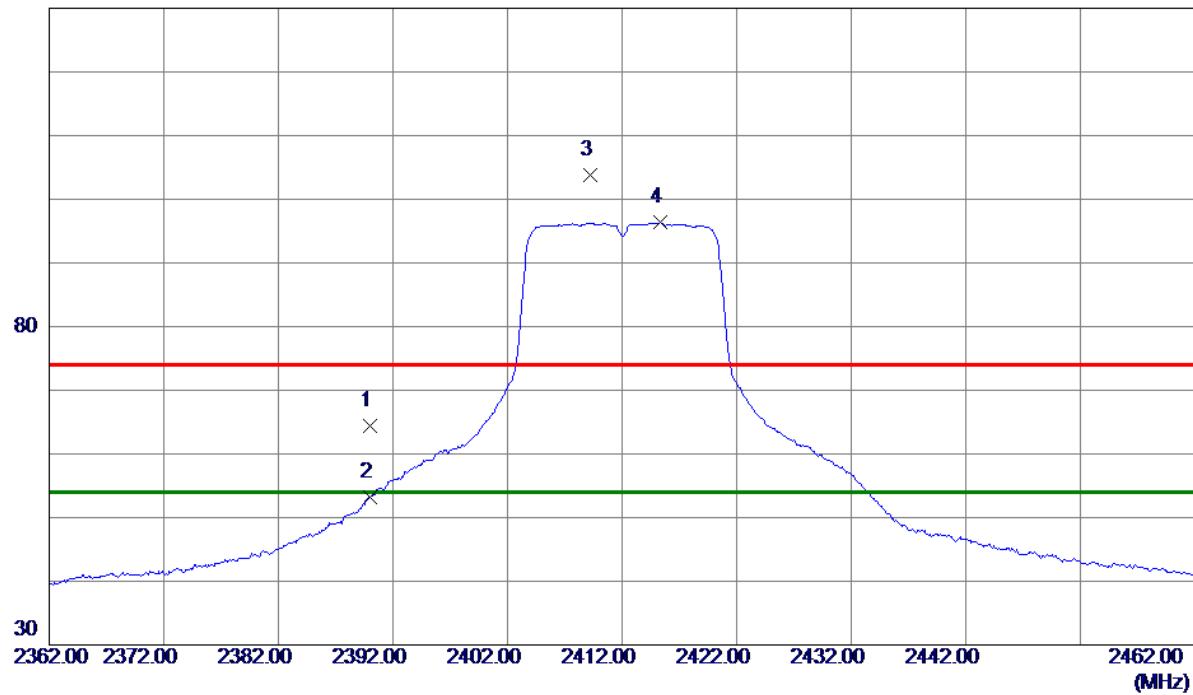
No.	Freq.	Reading	Correct	Measure	Limit	Margin	Detector	Comment
		Level	Factor	dBuV/m	dBuV/m	dB		
1 *	4924.1500	48.64	4.43	53.07	54.00	-0.93	AVG	
2	4924.1900	49.46	4.43	53.89	74.00	-20.11	Peak	

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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130 dBuV/m

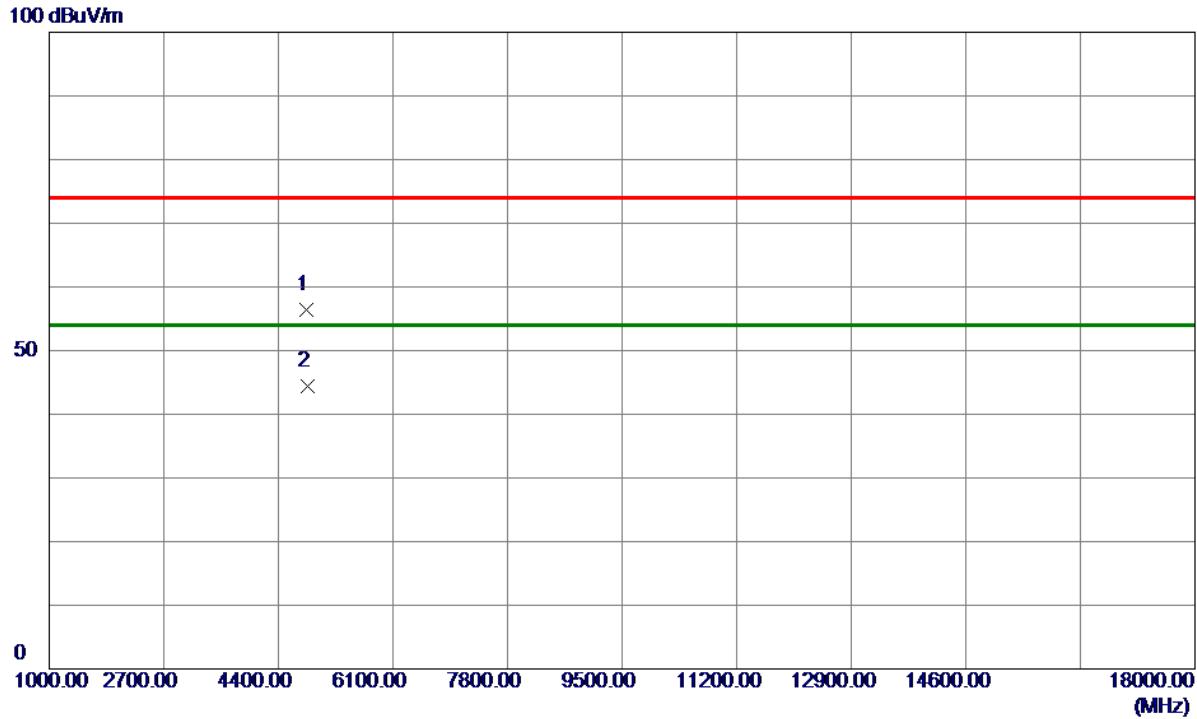


No.	Freq.	Reading	Correct	Measure	Limit	Margin	Detector	Comment
		Level	Factor	ment	dBuV/m	dB		
1	2390.0000	56.41	7.90	64.31	74.00	-9.69	Peak	
2	2390.0000	45.28	7.90	53.18	54.00	-0.82	AVG	
3	2409.2000	95.90	7.94	103.84	74.00	29.84	Peak	No Limit
4 *	2415.3000	88.36	7.96	96.32	54.00	42.32	AVG	No Limit

REMARKS:

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

Test Mode	TX G Mode 2412 MHz	Polarization	Vertical
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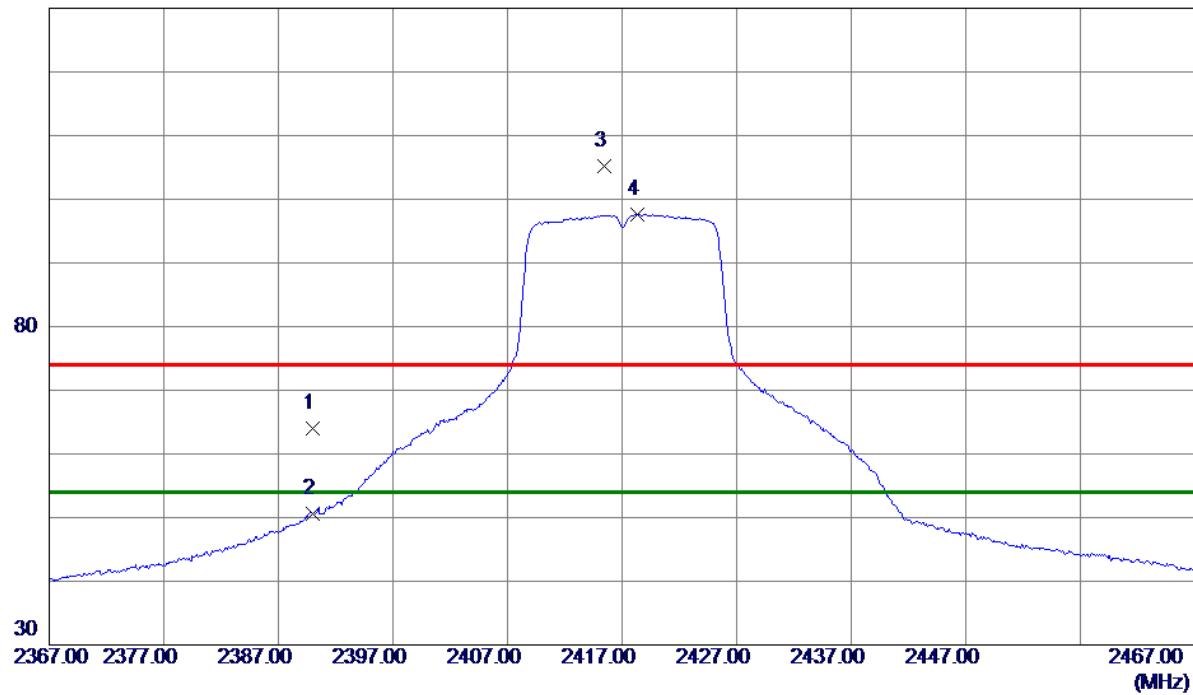
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	4819.5900	52.02	4.37	56.39	74.00	-17.61	Peak	
2 *	4825.9900	40.04	4.38	44.42	54.00	-9.58	AVG	

REMARKS:

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

Test Mode	TX G Mode 2417 MHz	Polarization	Vertical
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130 dBuV/m

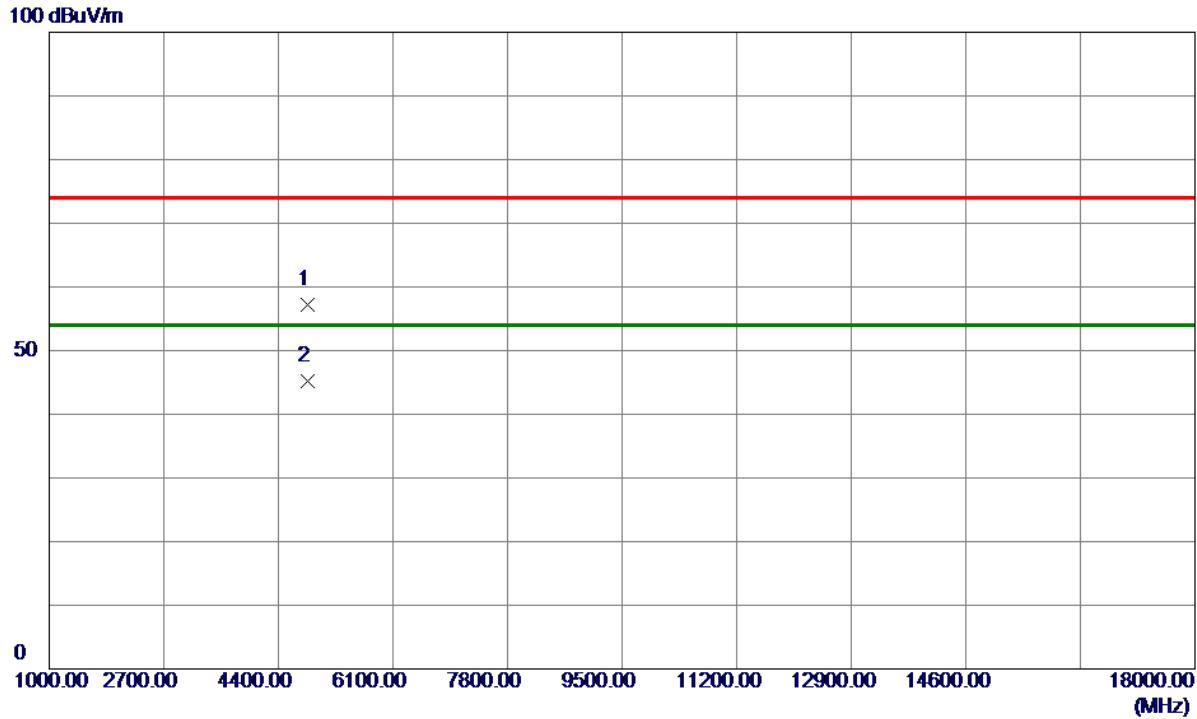


No.	Freq.	Reading	Correct	Measure	Limit	Margin	Detector	Comment
		Level	Factor	ment	dBuV/m	dB		
1	2390.0000	56.15	7.90	64.05	74.00	-9.95	Peak	
2	2390.0000	42.71	7.90	50.61	54.00	-3.39	AVG	
3	2415.4000	97.25	7.96	105.21	74.00	31.21	Peak	No Limit
4 *	2418.3000	89.67	7.96	97.63	54.00	43.63	AVG	No Limit

REMARKS:

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

Test Mode	TX G Mode 2417 MHz	Polarization	Vertical
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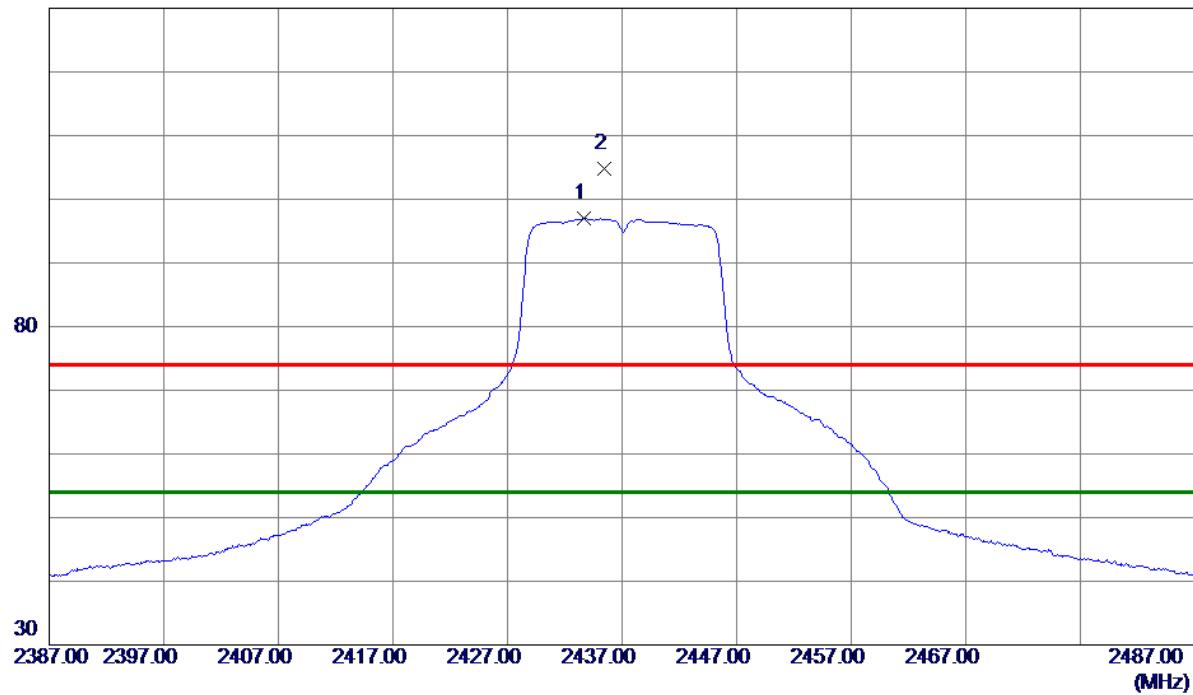
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	4830.6900	52.82	4.38	57.20	74.00	-16.80	Peak	
2 *	4834.0900	40.82	4.38	45.20	54.00	-8.80	AVG	

REMARKS:

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

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

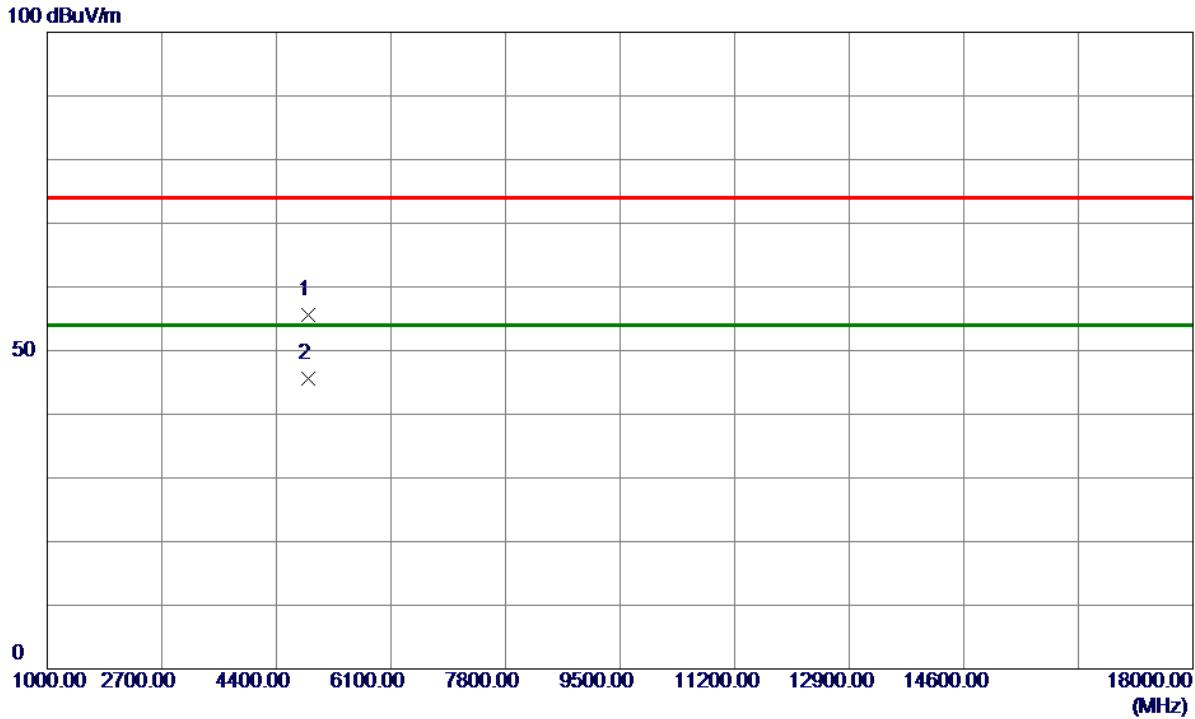


No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1 *	2433.7000	88.94	8.00	96.94	54.00	42.94	AVG	No Limit
2	2435.4000	96.89	8.00	104.89	74.00	30.89	Peak	No Limit

REMARKS:

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

Test Mode	TX G Mode 2437 MHz	Polarization	Vertical
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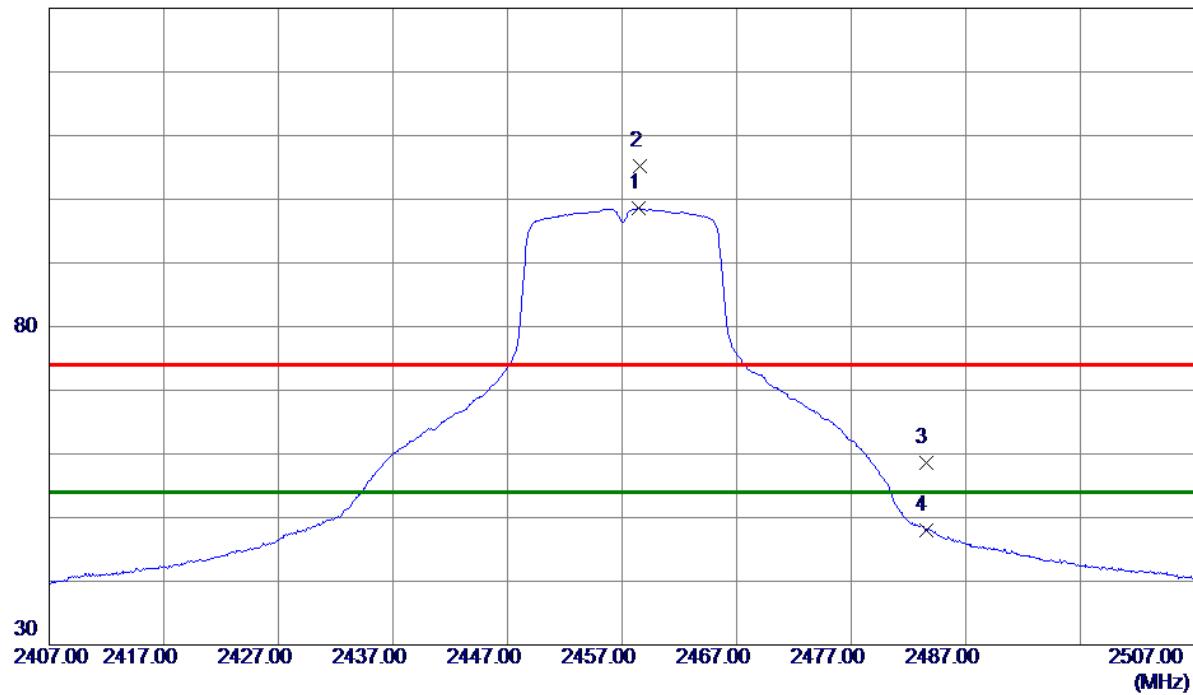
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	4874.9900	51.27	4.40	55.67	74.00	-18.33	Peak	
2 *	4876.2900	41.26	4.40	45.66	54.00	-8.34	AVG	

REMARKS:

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

Test Mode	TX G Mode 2457 MHz	Polarization	Vertical
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130 dBuV/m

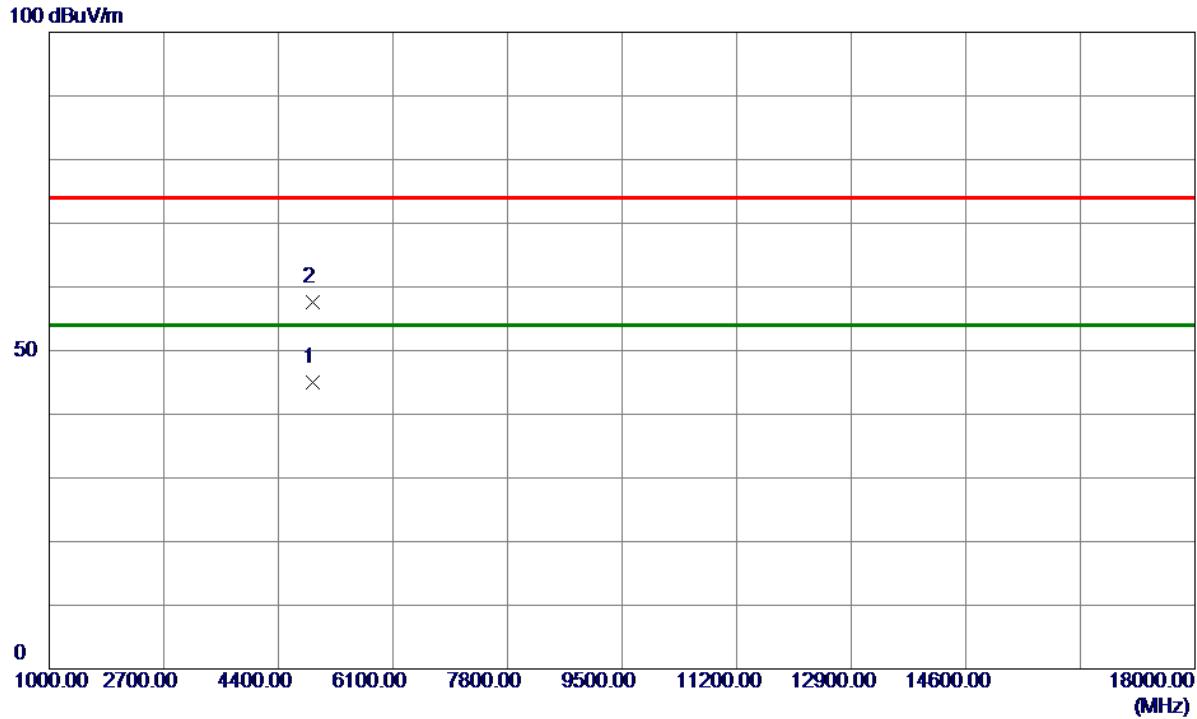


No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1 *	2458.4000	90.56	8.05	98.61	54.00	44.61	AVG	No Limit
2	2458.6000	97.14	8.05	105.19	74.00	31.19	Peak	No Limit
3	2483.5000	50.56	8.11	58.67	74.00	-15.33	Peak	
4	2483.5000	39.80	8.11	47.91	54.00	-6.09	AVG	

REMARKS:

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

Test Mode	TX G Mode 2457 MHz	Polarization	Vertical
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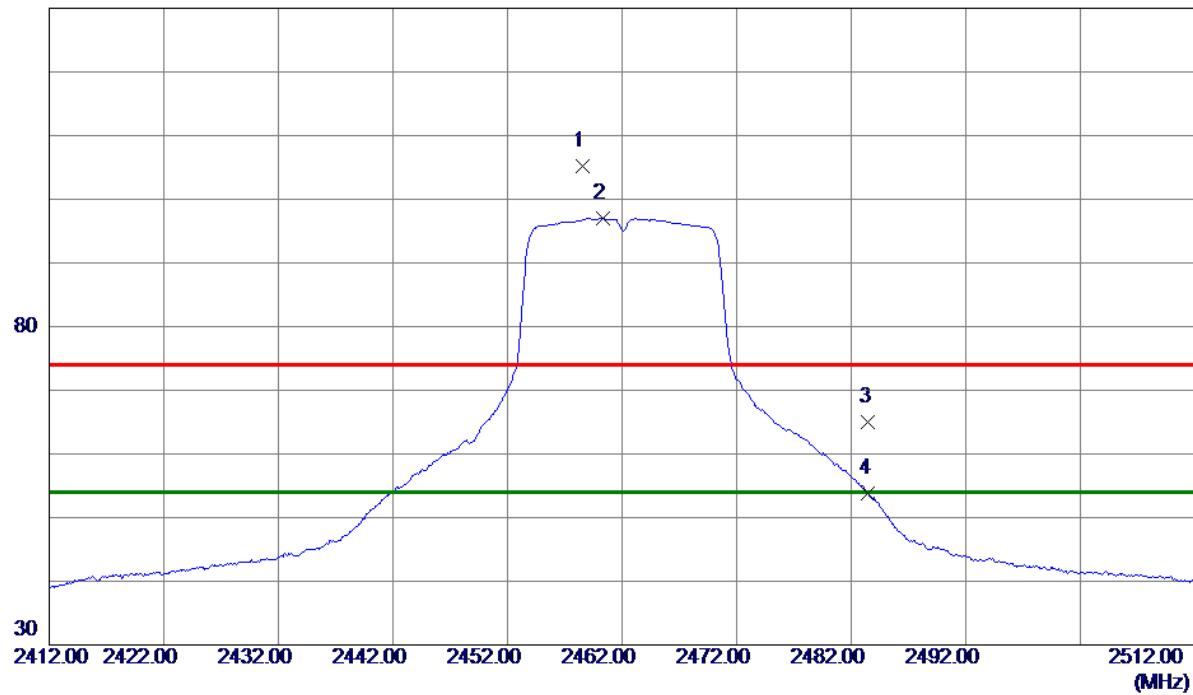
No.	Freq.	Reading	Correct	Measure	Limit	Margin	Detector	Comment
		Level	Factor	dBuV/m	dBuV/m	dB		
1 *	4913.0900	40.63	4.42	45.05	54.00	-8.95	AVG	
2	4917.3900	53.11	4.43	57.54	74.00	-16.46	Peak	

REMARKS:

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

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

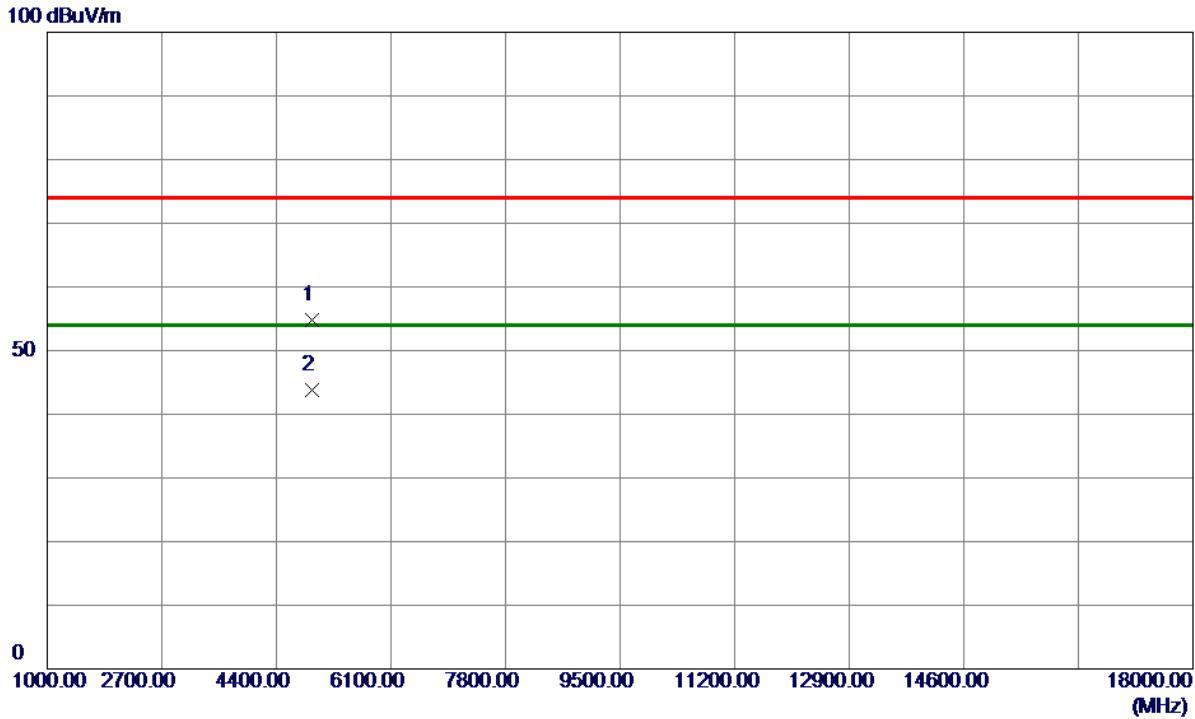


No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	2458.6000	97.14	8.05	105.19	74.00	31.19	Peak	No Limit
2 *	2460.3000	88.93	8.06	96.99	54.00	42.99	AVG	No Limit
3	2483.5000	56.91	8.11	65.02	74.00	-8.98	Peak	
4	2483.5000	45.75	8.11	53.86	54.00	-0.14	AVG	

REMARKS:

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

Test Mode	TX G Mode 2462 MHz	Polarization	Vertical
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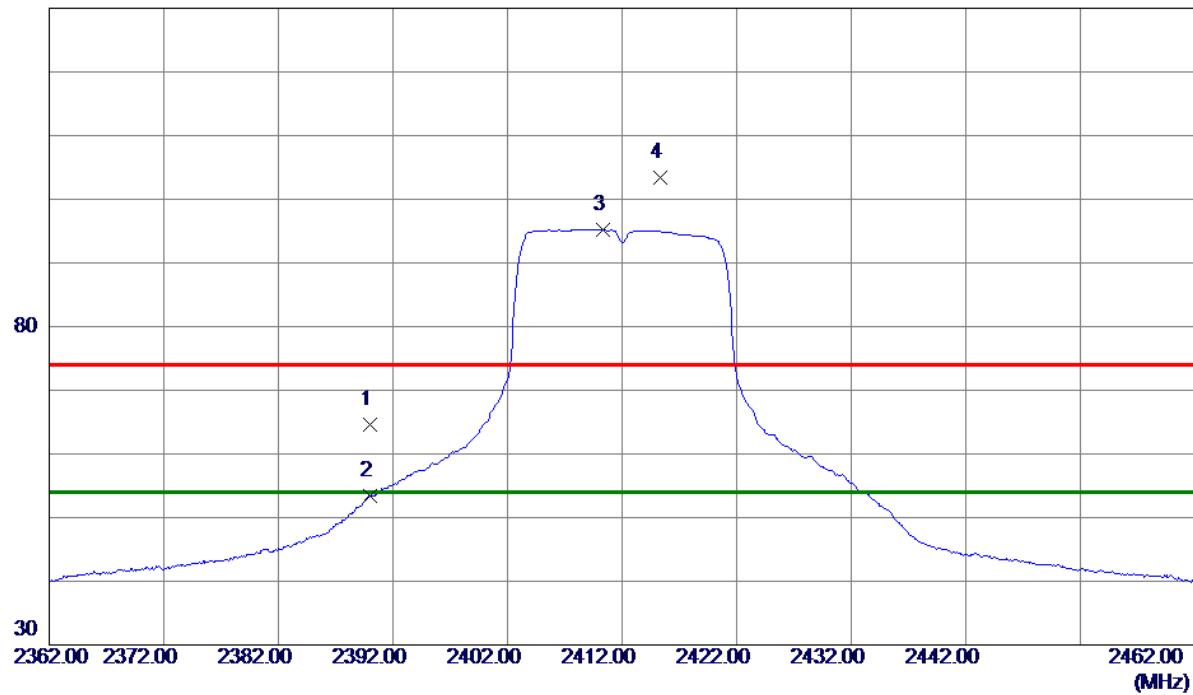
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	4920.7900	50.37	4.43	54.80	74.00	-19.20	Peak	
2 *	4923.7900	39.39	4.43	43.82	54.00	-10.18	AVG	

REMARKS:

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

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

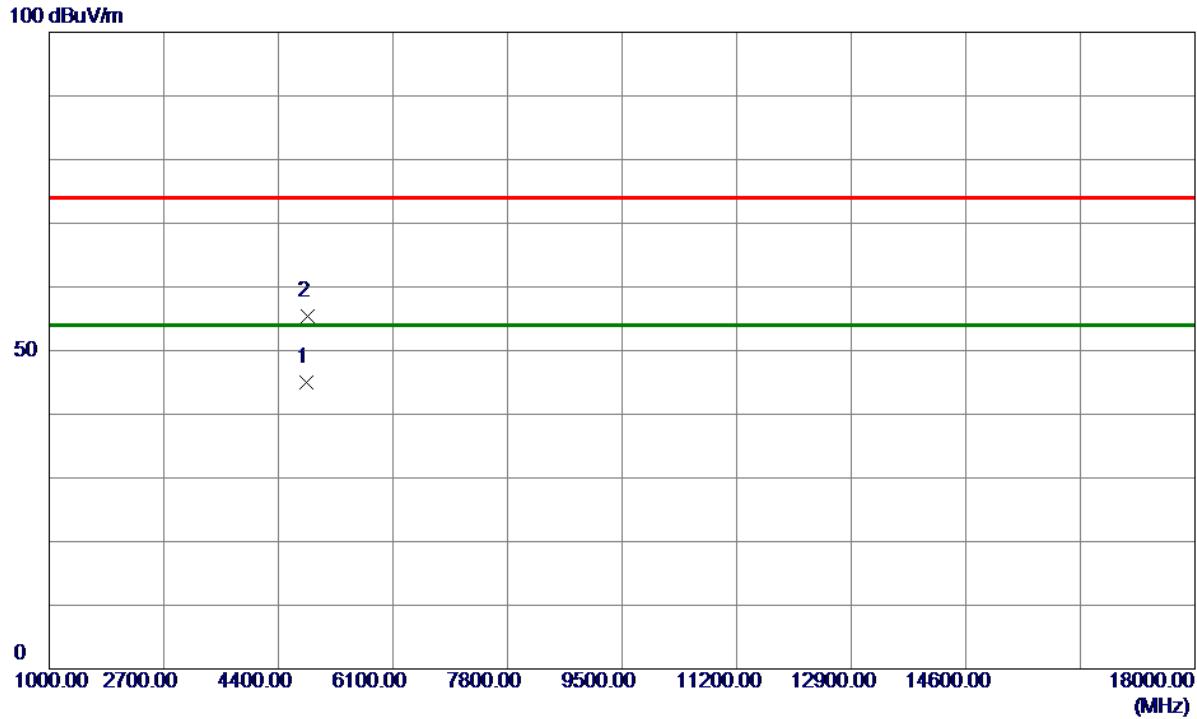


No.	Freq.	Reading	Correct	Measure	Limit	Margin	Detector	Comment
		Level	Factor	ment	dBuV/m	dB		
1	2390.0000	56.77	7.90	64.67	74.00	-9.33	Peak	
2	2390.0000	45.41	7.90	53.31	54.00	-0.69	AVG	
3 *	2410.3000	87.32	7.94	95.26	54.00	41.26	AVG	No Limit
4	2415.3000	95.45	7.96	103.41	74.00	29.41	Peak	No Limit

REMARKS:

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

Test Mode	TX N(HT20) Mode 2412 MHz	Polarization	Vertical
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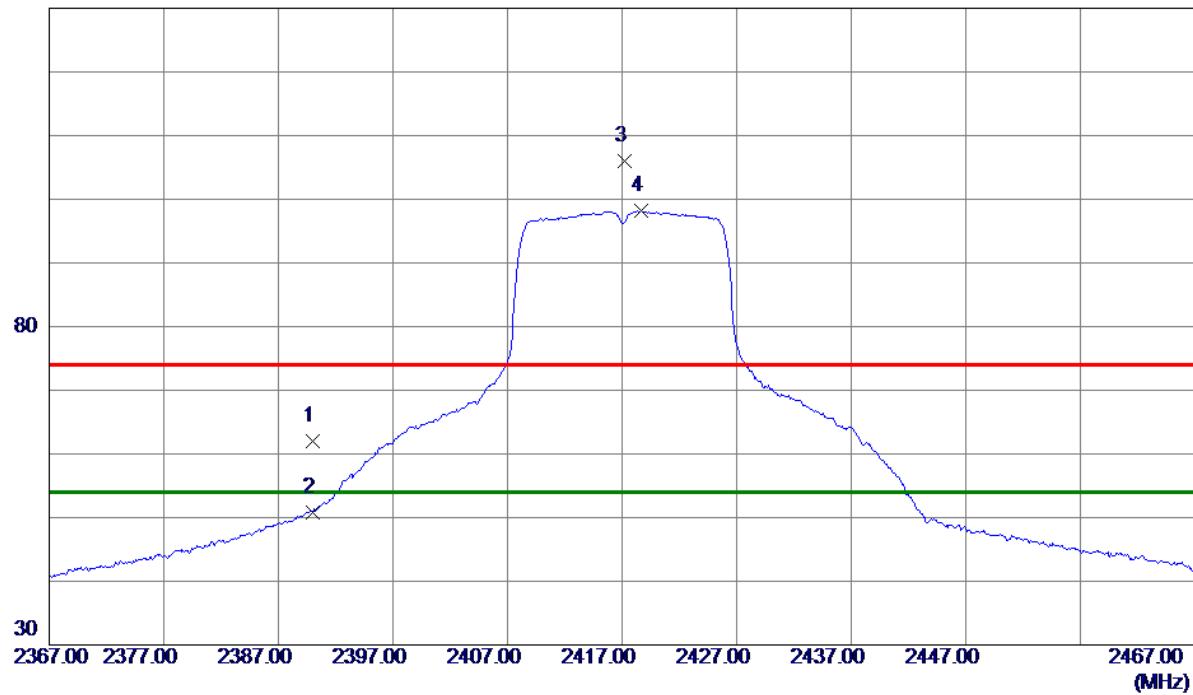
No.	Freq.	Reading	Correct	Measure	Limit	Margin	Detector	Comment
		Level	Factor	dBuV/m	dBuV/m	dB		
1 *	4821.9900	40.62	4.37	44.99	54.00	-9.01	AVG	
2	4826.5900	51.07	4.38	55.45	74.00	-18.55	Peak	

REMARKS:

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

Test Mode	TX N(HT20) Mode 2417 MHz	Polarization	Vertical
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130 dBuV/m

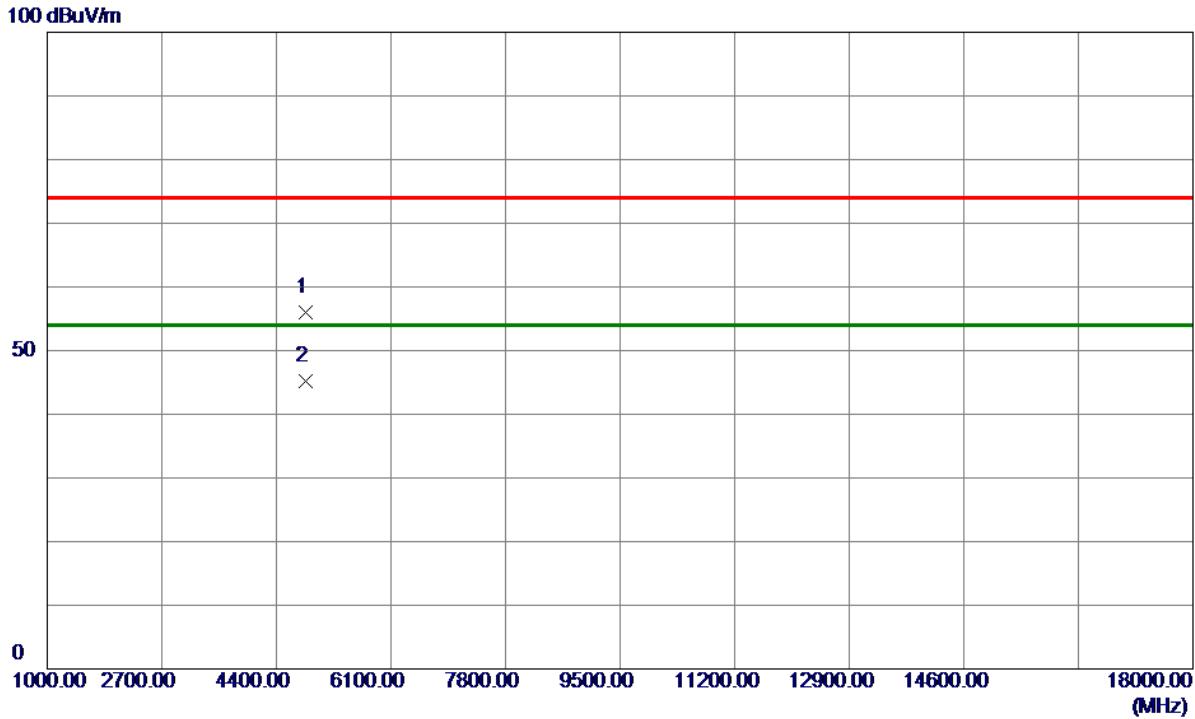


No.	Freq.	Reading	Correct	Measure	Limit	Margin	Detector	Comment
		Level	Factor	dBuV/m	dBuV/m	dB		
1	2390.0000	54.07	7.90	61.97	74.00	-12.03	Peak	
2	2390.0000	42.96	7.90	50.86	54.00	-3.14	AVG	
3	2417.2000	98.13	7.96	106.09	74.00	32.09	Peak	No Limit
4 *	2418.7000	90.17	7.96	98.13	54.00	44.13	AVG	No Limit

REMARKS:

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

Test Mode	TX N(HT20) Mode 2417 MHz	Polarization	Vertical
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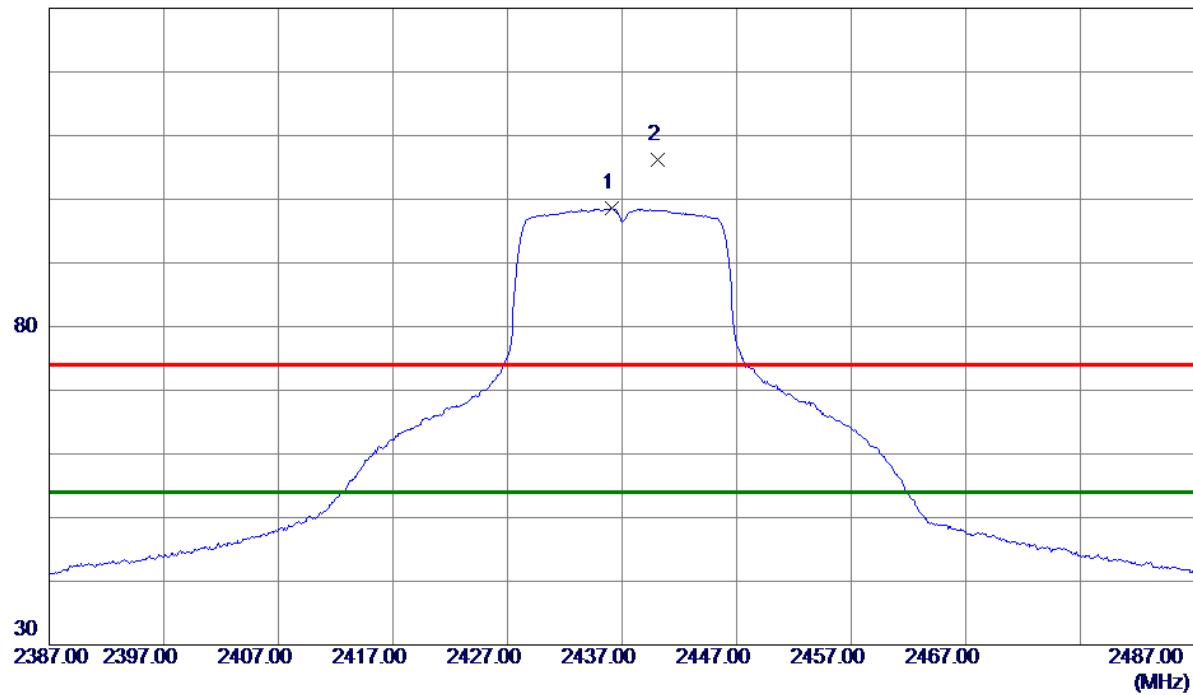
No.	Freq.	Reading	Correct	Measure	Limit	Margin	Detector	Comment
		Level	Factor	ment				
1	4831.5900	51.55	4.38	55.93	74.00	-18.07	Peak	
2 *	4832.5900	40.78	4.38	45.16	54.00	-8.84	AVG	

REMARKS:

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

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

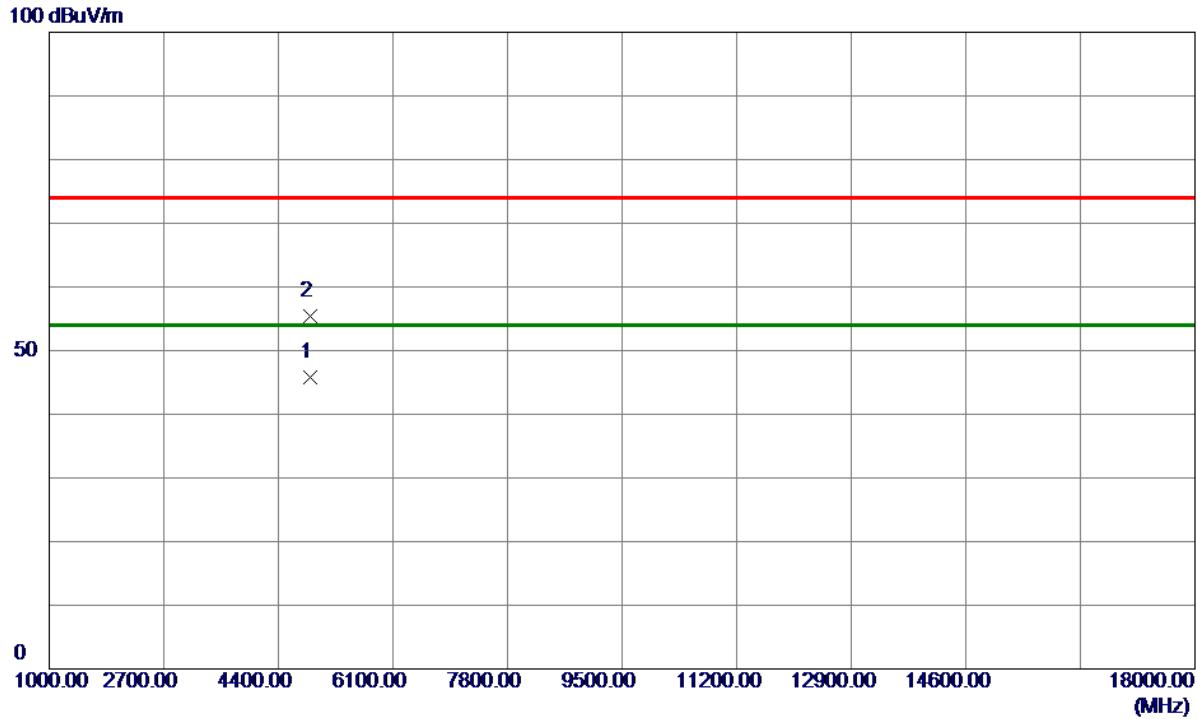


No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1 *	2436.1000	90.52	8.00	98.52	54.00	44.52	AVG	No Limit
2	2440.1000	98.16	8.01	106.17	74.00	32.17	Peak	No Limit

REMARKS:

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

Test Mode	TX N(HT20) Mode 2437 MHz	Polarization	Vertical
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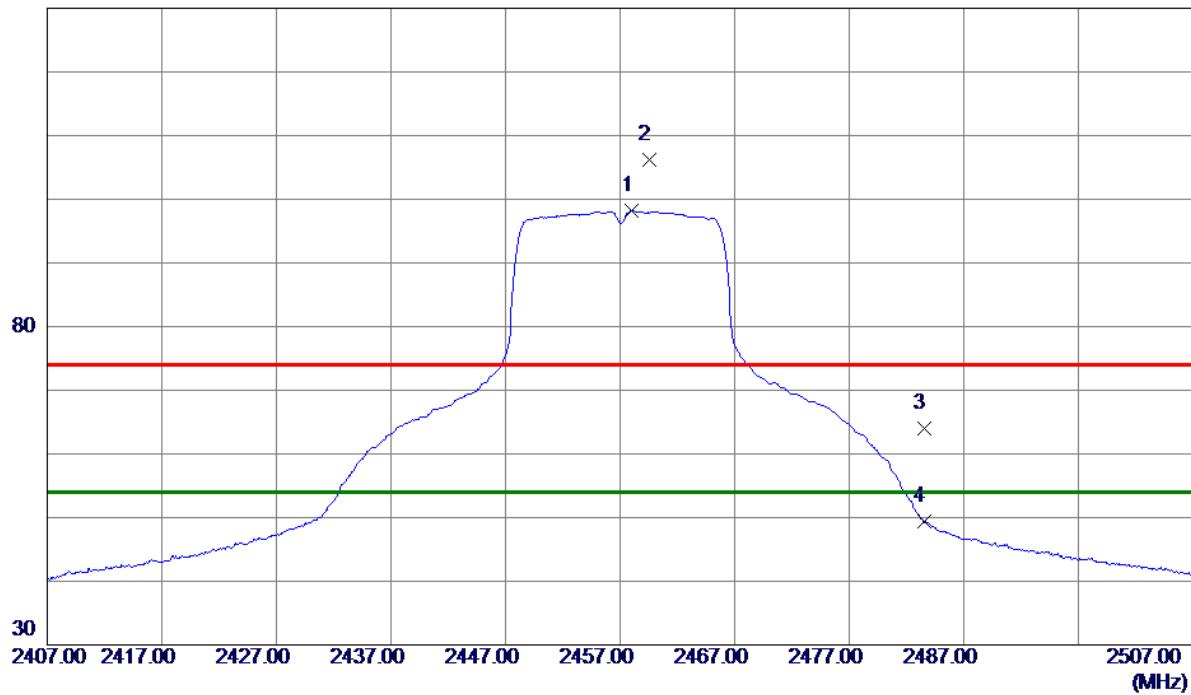
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1 *	4873.5900	41.34	4.40	45.74	54.00	-8.26	AVG	
2	4879.6900	50.98	4.40	55.38	74.00	-18.62	Peak	

REMARKS:

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

Test Mode	TX N(HT20) Mode 2457 MHz	Polarization	Vertical
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130 dBuV/m

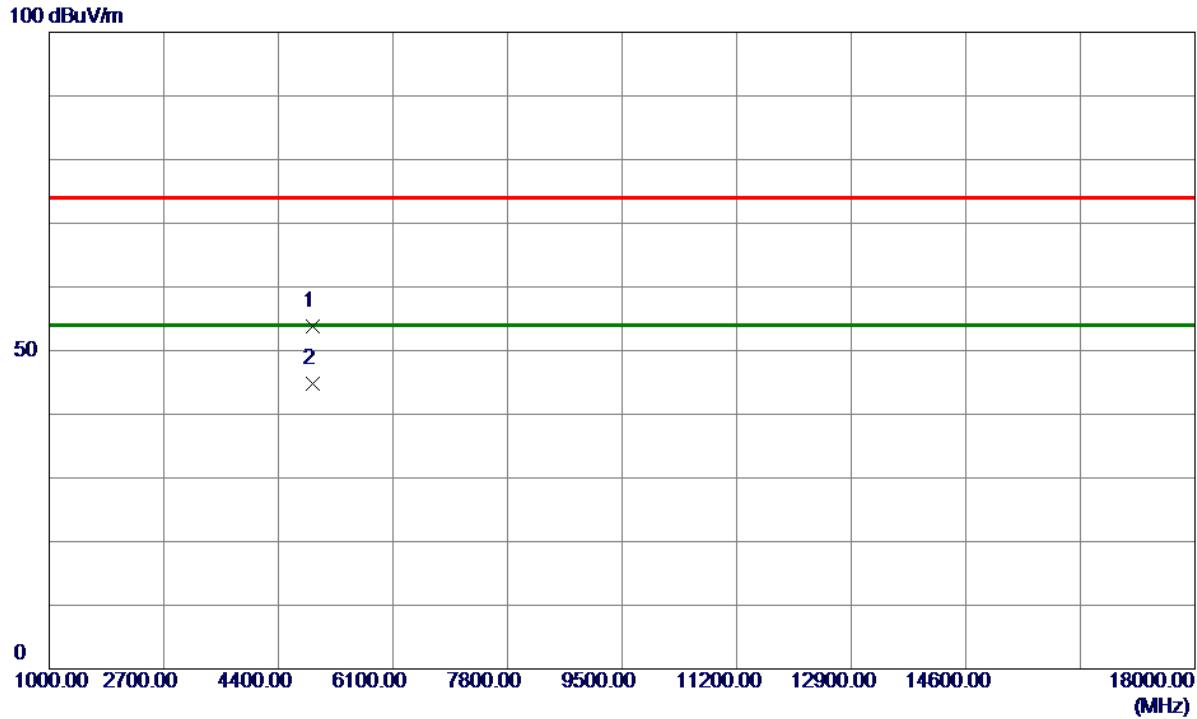


No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1 *	2458.0000	90.10	8.05	98.15	54.00	44.15	AVG	No Limit
2	2459.5000	98.06	8.06	106.12	74.00	32.12	Peak	No Limit
3	2483.5000	55.83	8.11	63.94	74.00	-10.06	Peak	
4	2483.5000	41.26	8.11	49.37	54.00	-4.63	AVG	

REMARKS:

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

Test Mode	TX N(HT20) Mode 2457 MHz	Polarization	Vertical
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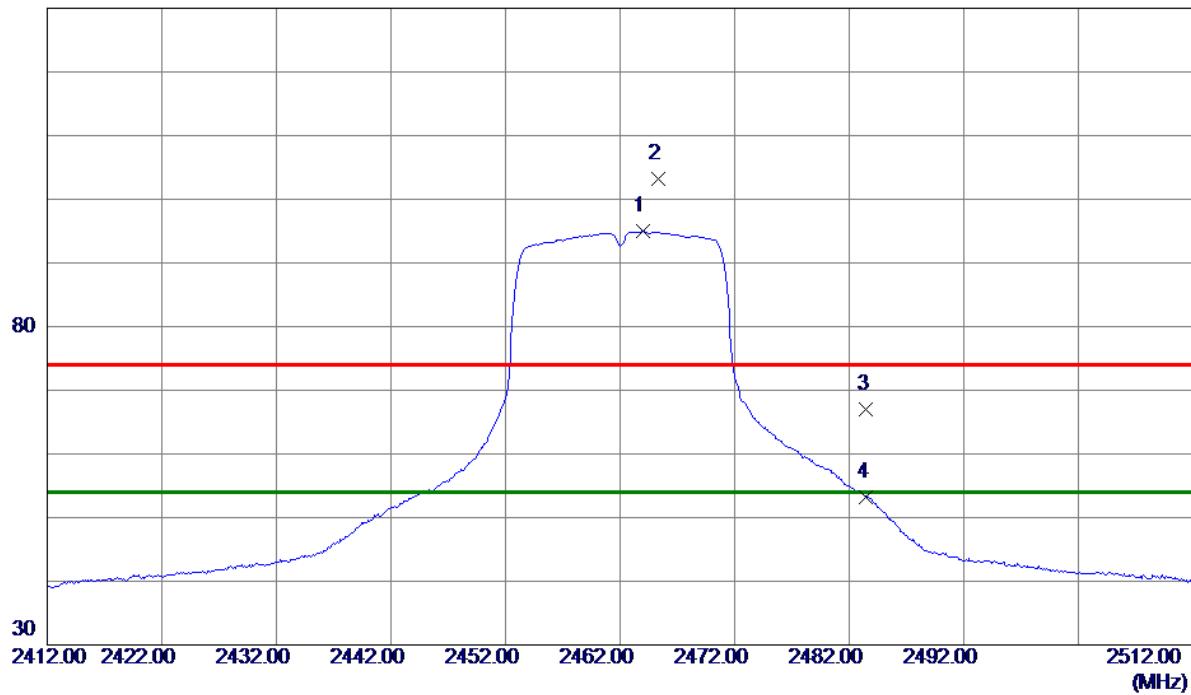
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	4916.0900	49.38	4.42	53.80	74.00	-20.20	Peak	
2 *	4916.0900	40.36	4.42	44.78	54.00	-9.22	AVG	

REMARKS:

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

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

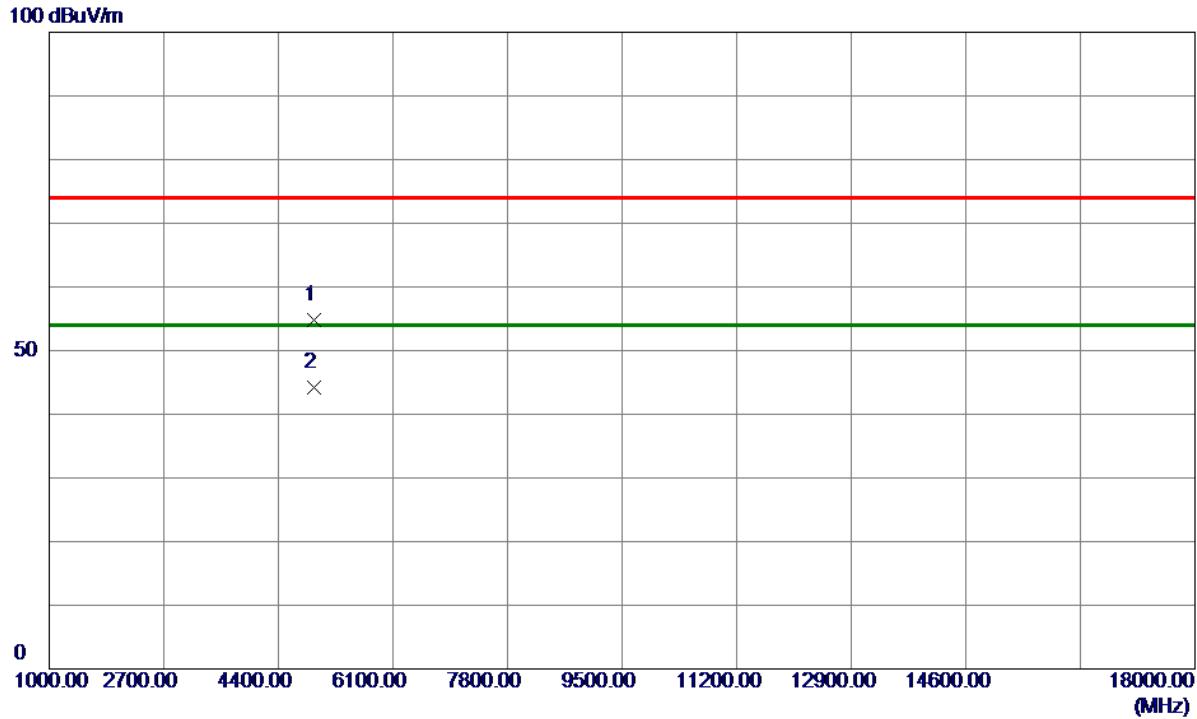


No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1 *	2464.0000	86.87	8.07	94.94	54.00	40.94	AVG	No Limit
2	2465.3000	95.08	8.07	103.15	74.00	29.15	Peak	No Limit
3	2483.5000	58.80	8.11	66.91	74.00	-7.09	Peak	
4	2483.5000	45.17	8.11	53.28	54.00	-0.72	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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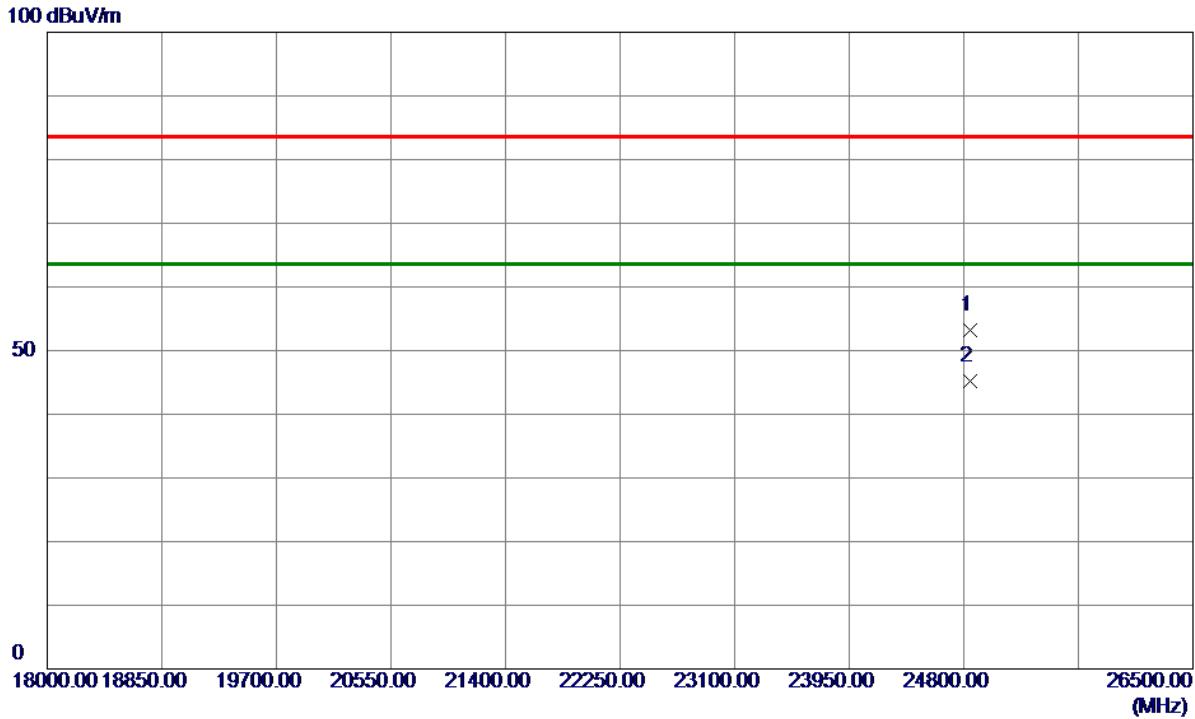


No.	Freq.	Reading	Correct	Measure	Limit	Margin	Detector	Comment
		Level	Factor	dBuV/m	dBuV/m	dB		
1	4921.9900	50.45	4.43	54.88	74.00	-19.12	Peak	
2 *	4922.7900	39.84	4.43	44.27	54.00	-9.73	AVG	

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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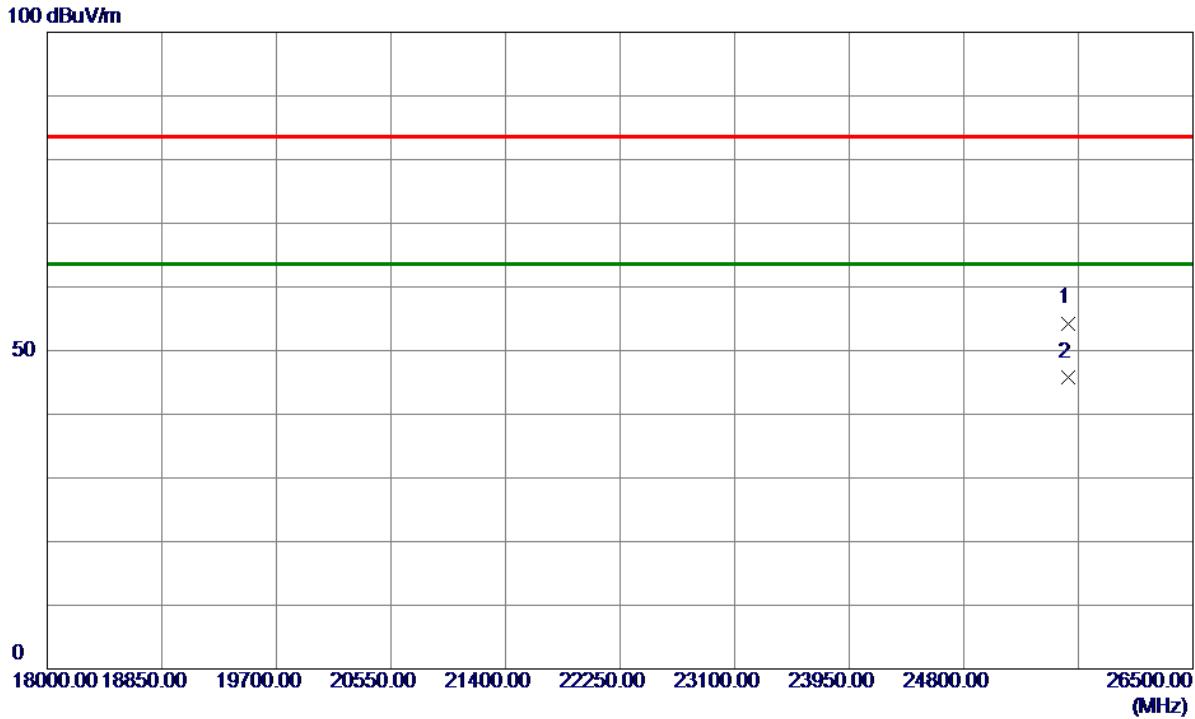


No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	24851.0000	49.39	3.87	53.26	83.50	-30.24	Peak	
2 *	24851.0000	41.27	3.87	45.14	63.50	-18.36	AVG	

REMARKS:

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

Test Mode	TX B Mode 2462 MHz	Polarization	Horizontal
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No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	25573.5000	50.64	3.66	54.30	83.50	-29.20	Peak	
2 *	25573.5000	42.12	3.66	45.78	63.50	-17.72	AVG	

REMARKS:

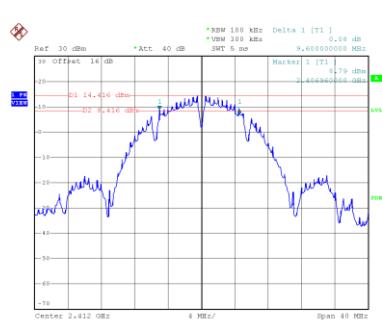
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

APPENDIX E - BANDWIDTH

Test Mode	TX B Mode
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Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	9.600	14.960	0.5	Pass
06	2437	10.080	16.720	0.5	Pass
11	2462	9.600	16.720	0.5	Pass

CH01

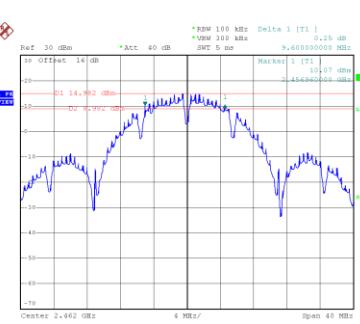


Date: 14.JUL.2025 17:45:07

CH06
6 dB Bandwidth

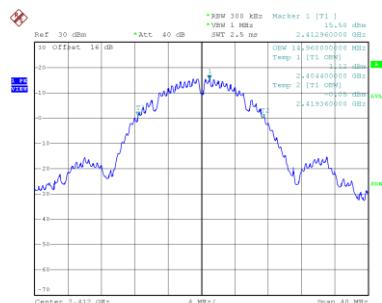
Date: 14.JUL.2025 17:48:35

CH11

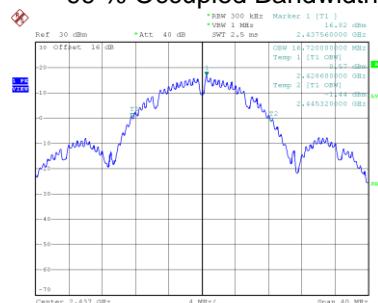


Date: 14.JUL.2025 17:51:26

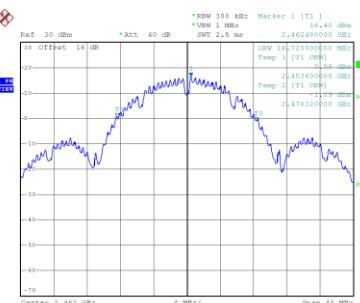
99 % Occupied Bandwidth



Date: 14.JUL.2025 17:45:19



Date: 14.JUL.2025 17:48:47

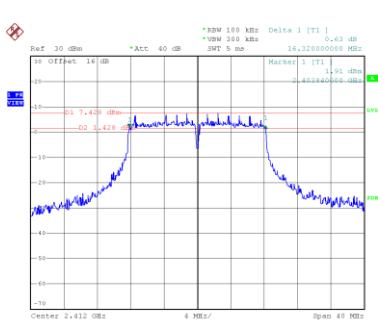


Date: 14.JUL.2025 17:51:38

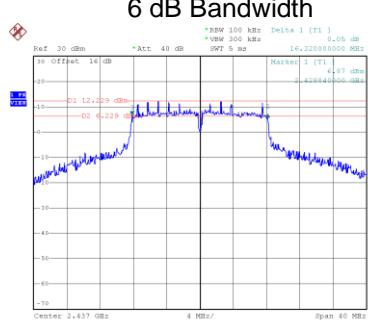
Test Mode	TX G Mode
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Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	16.320	17.280	0.5	Pass
06	2437	16.320	24.400	0.5	Pass
11	2462	15.920	24.000	0.5	Pass

CH01

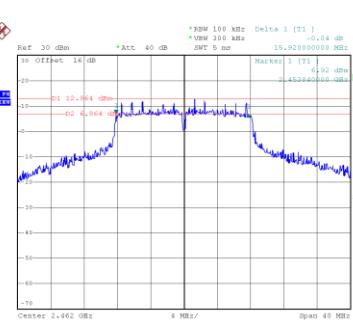


Date: 14.JUL.2025 17:57:23

CH06
6 dB Bandwidth

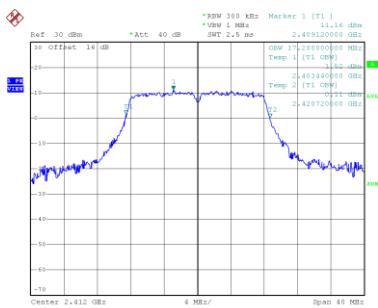
Date: 14.JUL.2025 18:32:09

CH11

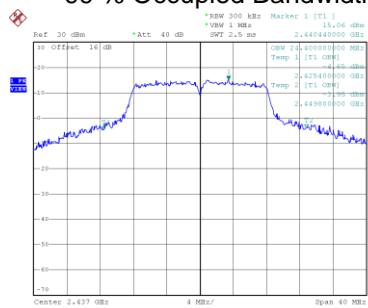


Date: 14.JUL.2025 18:33:39

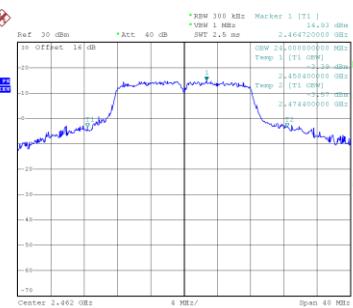
99 % Occupied Bandwidth



Date: 14.JUL.2025 17:57:35



Date: 14.JUL.2025 18:32:21

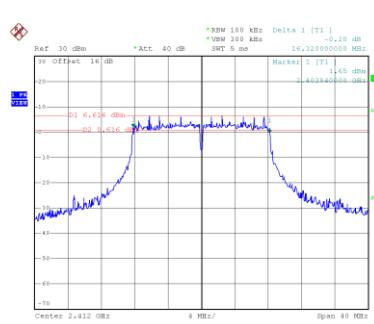
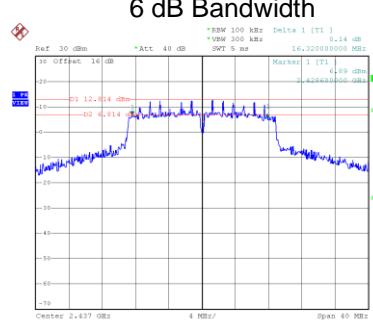


Date: 14.JUL.2025 18:33:51

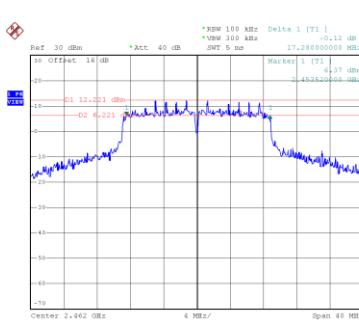
Test Mode	TX N(HT20) Mode
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Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	16.320	17.120	0.5	Pass
06	2437	16.320	26.640	0.5	Pass
11	2462	17.280	24.080	0.5	Pass

CH01

CH06
6 dB Bandwidth

CH11

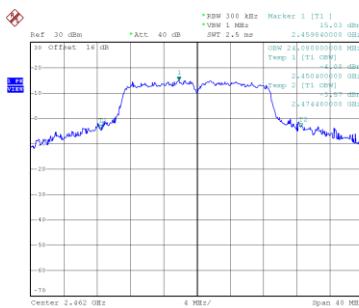
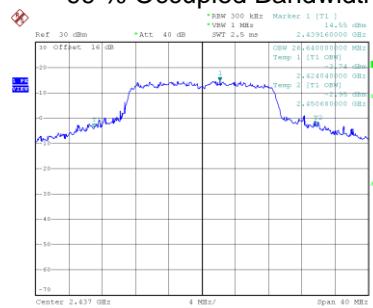
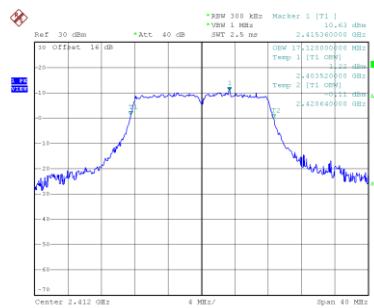


Date: 14.JUL.2025 18:36:47

Date: 14.JUL.2025 18:38:49

Date: 14.JUL.2025 18:40:11

99 % Occupied Bandwidth



Date: 14.JUL.2025 18:36:59

Date: 14.JUL.2025 18:39:01

Date: 14.JUL.2025 18:40:23

APPENDIX F - MAXIMUM OUTPUT POWER

Test Mode TX B Mode

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor (dB)	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	20.73	0.00	20.73	30.00	1.0000	Pass
06	2437	20.41	0.00	20.41	30.00	1.0000	Pass
11	2462	21.33	0.00	21.33	30.00	1.0000	Pass

Test Mode TX G Mode

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor (dB)	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	17.82	0.27	18.09	30.00	1.0000	Pass
06	2437	20.40	0.27	20.67	30.00	1.0000	Pass
11	2462	20.36	0.27	20.63	30.00	1.0000	Pass

Test Mode TX N(HT20) Mode

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor (dB)	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	16.81	0.29	17.10	30.00	1.0000	Pass
06	2437	20.60	0.29	20.89	30.00	1.0000	Pass
11	2462	18.82	0.29	19.11	30.00	1.0000	Pass

Note: Output power = Measure result + Cable loss

APPENDIX G - CONDUCTED SPURIOUS EMISSIONS

Test Mode

TX B Mode

Reference Level-CH01



Reference Level-CH06



Reference Level-CH11

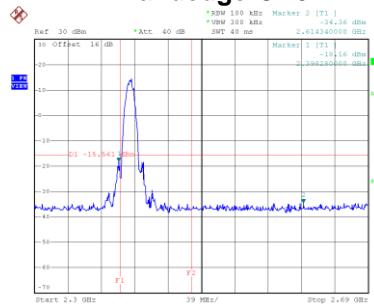


Date: 14.JUL.2025 17:45:42

Date: 14.JUL.2025 17:49:09

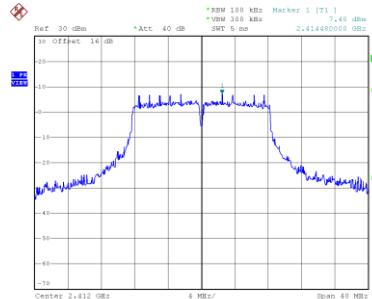
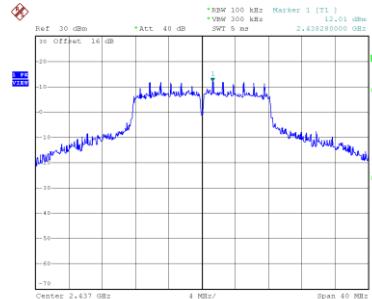
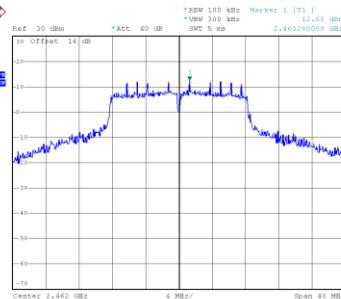
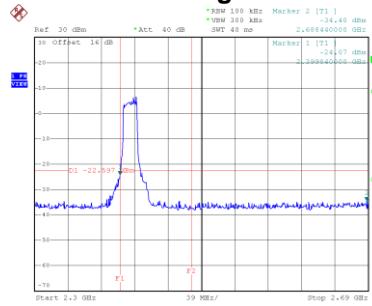
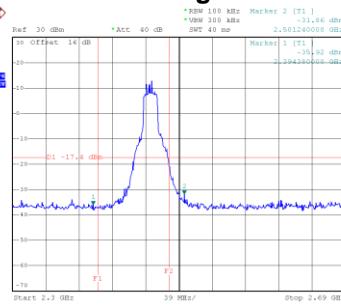
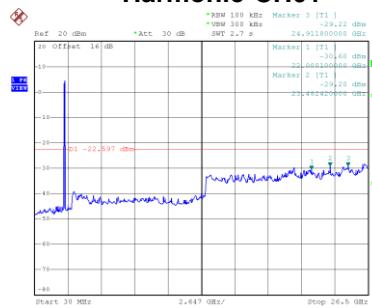
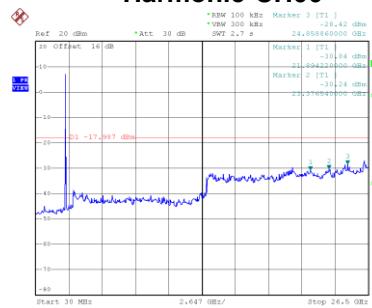
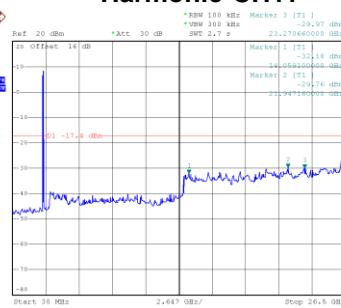
Date: 14.JUL.2025 17:52:00

Bandedge-CH01



Test Mode

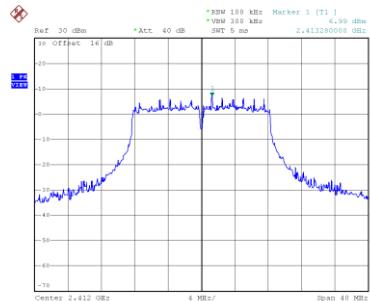
TX G Mode

Reference Level-CH01

Reference Level-CH06

Reference Level-CH11

Bandedge-CH01

Bandedge-CH11

Harmonic-CH01

Harmonic-CH06

Harmonic-CH11


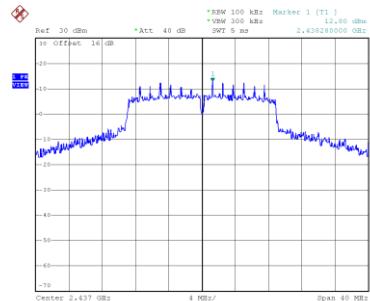
Test Mode

TX N(HT20) Mode

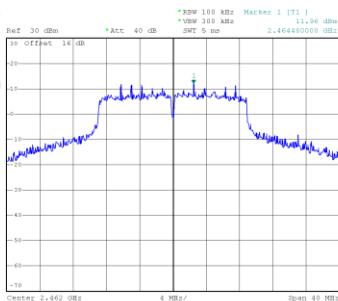
Reference Level-CH01



Reference Level-CH06



Reference Level-CH11

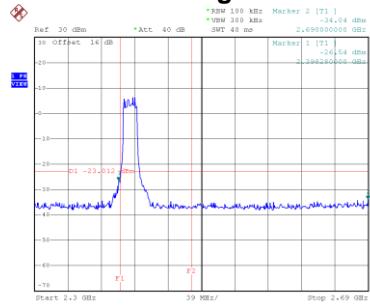


Date: 14.JUL.2025 10:37:21

Date: 14.JUL.2025 10:39:24

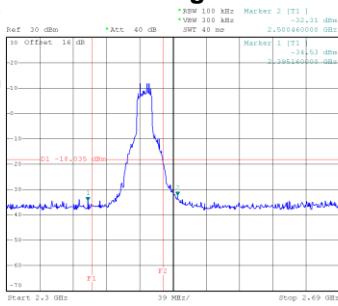
Date: 14.JUL.2025 10:40:45

Bandedge-CH01



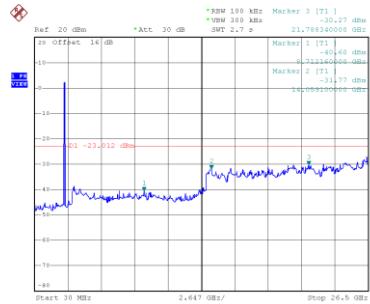
Date: 14.JUL.2025 10:37:34

Bandedge-CH11



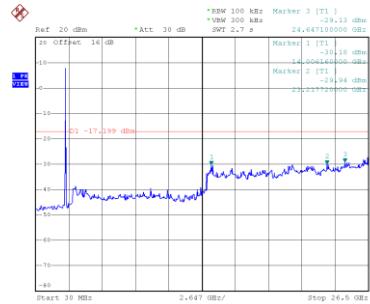
Date: 14.JUL.2025 10:40:57

Harmonic-CH01



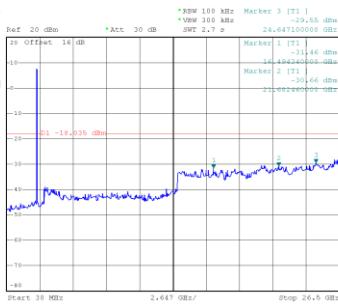
Date: 14.JUL.2025 10:37:46

Harmonic-CH06



Date: 14.JUL.2025 10:39:48

Harmonic-CH11

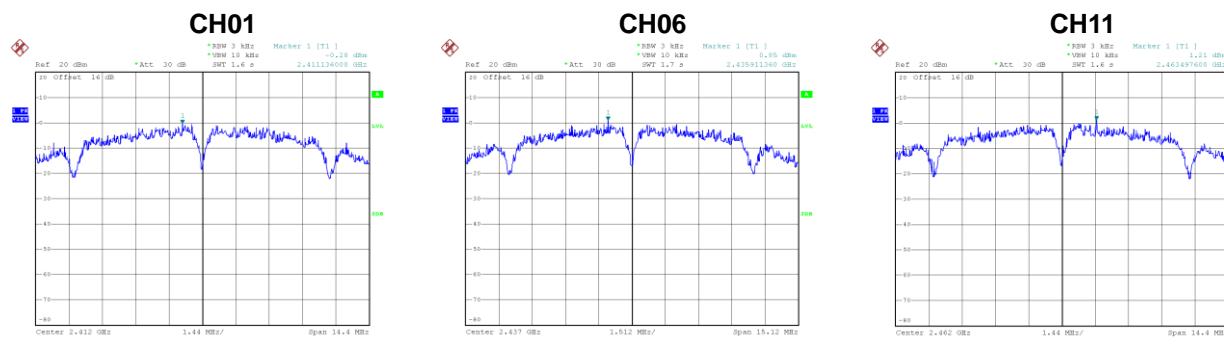


Date: 14.JUL.2025 10:41:09

APPENDIX H - POWER SPECTRAL DENSITY

Test Mode	TX B Mode
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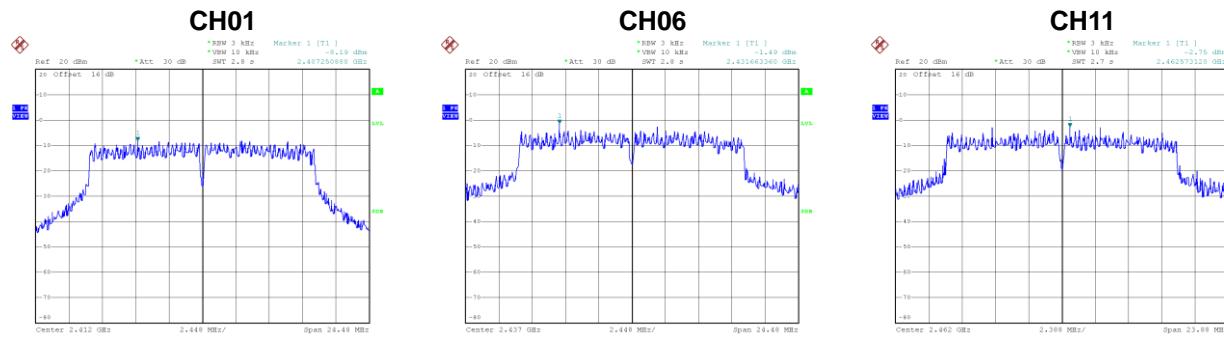
Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
01	2412	-0.28	8.00	Pass
06	2437	0.85	8.00	Pass
11	2462	1.21	8.00	Pass



Date: 14.JUL.2025 17:45:31 Date: 14.JUL.2025 17:48:58 Date: 14.JUL.2025 17:51:49

Test Mode	TX G Mode
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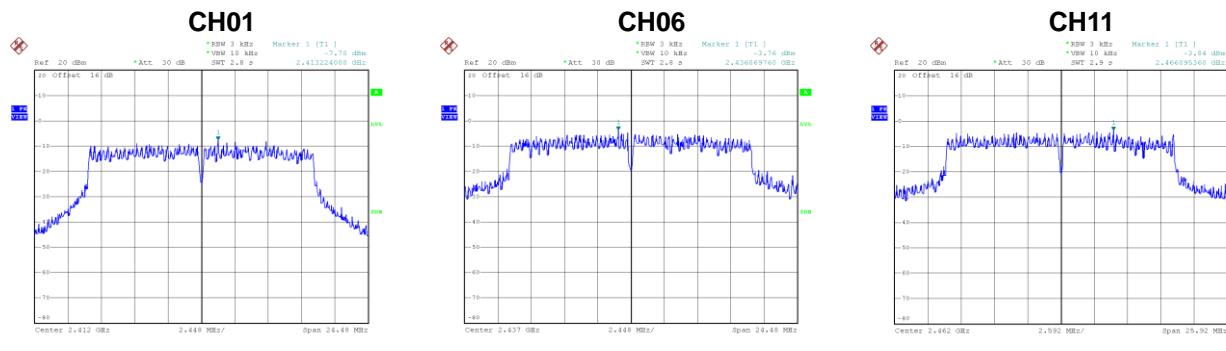
Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
01	2412	-8.19	8.00	Pass
06	2437	-1.49	8.00	Pass
11	2462	-2.75	8.00	Pass



Date: 14.JUL.2025 17:57:46 Date: 14.JUL.2025 18:32:32 Date: 14.JUL.2025 18:34:03

Test Mode	TX N(HT20) Mode
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Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
01	2412	-7.70	8.00	Pass
06	2437	-3.76	8.00	Pass
11	2462	-3.84	8.00	Pass

**End of Test Report**