



FCC Radio Test Report

FCC ID: 2ARNB-HMWB02

This report concerns: Original Grant

Project No. : 2604C279
Equipment : Module
Brand Name : Hoymiles
Model Name : HM-WB02
Applicant : Hoymiles Power Electronics Inc.
Address : No.18 Kangjing Road, Hangzhou, Zhejiang Province, P.R.China
Manufacturer : Hoymiles Power Electronics Inc.
Address : No.18 Kangjing Road, Hangzhou, Zhejiang Province, P.R.China
Factory : Hoymiles Power Electronics Inc.
Address : No.149 Kangzhong Road, Hangzhou 310015, Zhejiang Province, P.R. China
Date of Receipt : Apr. 29, 2026
Date of Test : May 12, 2026 ~ Jun. 23, 2026
Issued Date : Jul. 01, 2026
Test Sample : Engineering Sample No.: DG920260429153 for Radiated and AC Power Line Conducted Emissions, DG920260429145 for Output Power, DG920260429152 for Others.
Standard(s) : FCC CFR Title 47, Part 15, Subpart C

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc. (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 manufacturer'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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REVISION HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-2-2604C279	R00	Original Report.	Jul. 01, 2026	Valid

1. APPLICABLE STANDARDS

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

ANSI C63.10-2020

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 or a non-standard antenna jack were considered sufficient to comply with the provisions of 15.203.

2.1 TEST FACILITY

The test facilities used to collect the test data in this report:

For Radiated Emissions-Above 18G items: Room 102 & 702, Building A3, No.9, Jinshagang 1st Road, Dalang, Dongguan, Guangdong People's Republic of China.

For other items: 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)
DGDLC02	CISPR	150kHz ~ 30MHz	2.66

B. Radiated emissions test:

Test Site	Method	Measurement Frequency Range	U,(dB)
DGDLCB03	CISPR	9kHz ~ 30MHz	2.26

Test Site	Method	Measurement Frequency Range	Ant. H / V	U,(dB)
DGDLCB03 (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)
DGDLCB03 (3m)	CISPR	1GHz ~ 6GHz	4.16
		6GHz ~ 18GHz	4.74

Test Site	Method	Measurement Frequency Range	U,(dB)
DGGDCB01 (1m)	CISPR	18GHz ~ 40GHz	4.30

C. Other Measurement:

Test Item	Uncertainty
Bandwidth	0.75 %
Maximum Output Power	1.3 dB
Conducted Spurious Emission	2.1 dB
Conducted Bandedge Emission	1.7 dB
Power Spectral Density	1.8 dB
Temperature	0.7 °C
Humidity	1.7 %

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
AC Power Line Conducted Emissions	25°C	54%	DC 5V	Hayden Chen
Radiated Emissions -9kHz to 30 MHz	23°C	44%	DC 5V	Hayden Chen
Radiated Emissions -30MHz to 1000MHz	24°C	48%	DC 5V	Jensen Zhou
Radiated Emissions -Above 1000MHz	24-25°C	50-52%	DC 5V	Chen Mo Ilya Zhang Lafu Li
Bandwidth	24°C	53%	DC 5V	Alex Yin
Maximum Output Power	24-25°C	50-53%	DC 5V	Andrew Jiang Alex Yin
Conducted Spurious Emissions	24°C	53%	DC 5V	Alex Yin
Power Spectral Density	24°C	53%	DC 5V	Alex Yin

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	Module
Brand Name	Hoymiles
Test Model	HM-WB02
Model Name	HM-WB02
Model Difference(s)	N/A
Hardware Version	V1.0
Software Version	IDF5.4.1
Power Source	DC power supply.
Power Rating	DC 3.3V
Operation Frequency	2412 MHz ~ 2462 MHz
Modulation Type	IEEE 802.11b: DSSS IEEE 802.11g/n: OFDM IEEE 802.11ax: OFDMA
Bit Rate of Transmitter	IEEE 802.11b: 11/5.5/2/1 Mbps IEEE 802.11g: 54/48/36/24/18/12/9/6 Mbps IEEE 802.11n: up to 150 Mbps IEEE 802.11ax: up to 143.4 Mbps
Maximum Output Power	IEEE 802.11b: 21.02 dBm (0.1265 W)

Note:

- 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), IEEE 802.11ax(HE20) CH03 - CH09 for IEEE 802.11n(HT40)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	04	2427	07	2442	10	2457
02	2417	05	2432	08	2447	11	2462
03	2422	06	2437	09	2452		

3. Antenna Specification:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	SLEing [®]	SLEingA202640055	Rubber Duck Antenna	MHF	0.6
	SLEing [®]	SLEingA201400060	Rubber Duck Antenna	MHF	1.58
	SLEing [®]	SLEingB201400090	Rubber Duck Antenna	MHF	3.06
	INNOWAVE	F062F8109911000	Rubber Duck Antenna	IPEX 1	3.16

Note: Only choiced the maximum gain antenna for testing and recorded in this report.

3.2 DESCRIPTION OF TEST MODES

The test system was pre-tested based on the consideration of all possible combinations of EUT operation mode.

Pretest Mode	Description
Mode 1	TX B Mode Channel 01/06/11
Mode 2	TX G Mode Channel 01/06/11
Mode 3	TX N(HT20) Mode Channel 01/06/11
Mode 4	TX N(HT40) Mode Channel 03/06/09
Mode 5	TX AX(HE20) Mode Channel 01/06/11
Mode 6	TX B Mode Channel 11

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

AC power line conducted emissions test	
Final Test Mode	Description
Mode 6	TX B Mode Channel 11

Radiated emissions test - Below 1GHz & Above 18 GHz	
Final Test Mode	Description
Mode 6	TX B Mode Channel 11

Radiated emissions test - 1 GHz - 18 GHz	
Mode 1	TX B Mode Channel 01/06/11
Mode 2	TX G Mode Channel 01/06/11
Mode 3	TX N(HT20) Mode Channel 01/06/11
Mode 4	TX N(HT40) Mode Channel 03/06/09
Mode 5	TX AX(HE20) Mode Channel 01/06/11

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
Mode 4	TX N(HT40) Mode Channel 03/06/09
Mode 5	TX AX(HE20) Mode Channel 01/06/11

NOTE:

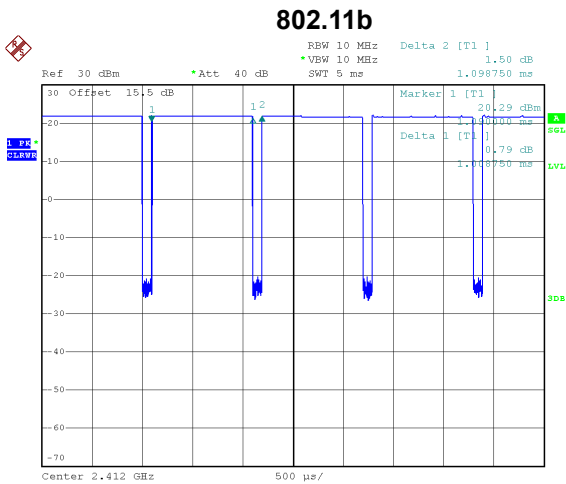
- (1) All the bit rate of transmitter have been tested and found the lowest rate is found to be the worst case and recorded.
- (2) For AC power line conducted emissions and radiated emission below 1 GHz test, the IEEE 802.11b Mode Channel 11 is found to be the worst case and recorded.
- (3) For radiated 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 1 GHz - 18GHz test, the polarization of Vertical and Horizontal are evaluated, the worst case is Vertical and recorded.
- (6) IEEE 802.11ax mode only support full RU, so only the full RU is evaluated and measured inside report.

3.3 PARAMETERS OF TEST SOFTWARE

Test Software Version	EspRFTestTool_v5.2_Manual		
Frequency (MHz)	2412	2437	2462
IEEE 802.11b	0	0	0
IEEE 802.11g	0	0	7
IEEE 802.11n(HT20)	0	0	9
IEEE 802.11ax(HE20)	16	0	12
Frequency (MHz)	2422	2437	2452
IEEE 802.11n(HT40)	0	0	6

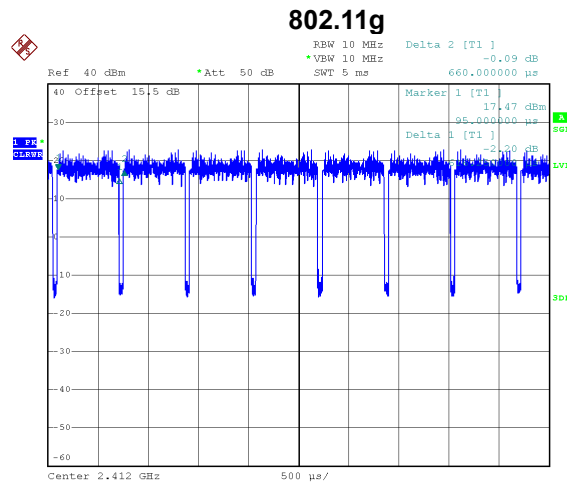
3.4 DUTY CYCLE

If duty cycle is $\geq 98\%$, duty factor is not required.
If duty cycle is $< 98\%$, duty factor shall be considered.
The output power = measured power + duty factor.



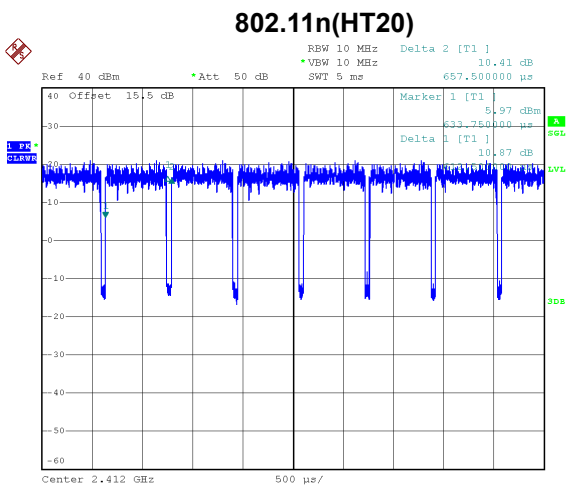
Date: 22.MAY.2026 11:32:12

Duty cycle = 1.009 ms / 1.099 ms = 91.81%
Duty Factor = $10 \log(1/\text{Duty cycle}) = 0.37 \text{ dB}$



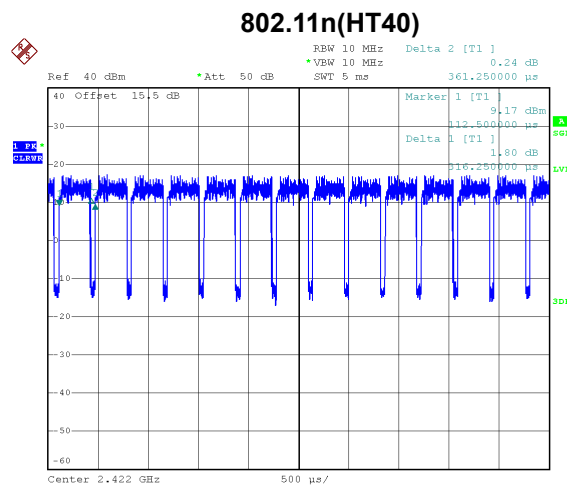
Date: 22.MAY.2026 11:38:09

Duty cycle = 0.616 ms / 0.660 ms = 93.33%
Duty Factor = $10 \log(1/\text{Duty cycle}) = 0.30 \text{ dB}$



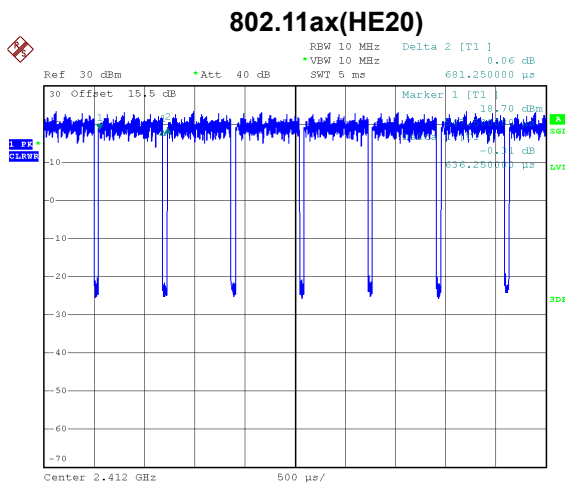
Date: 22.MAY.2026 11:38:47

Duty cycle = 0.613 ms / 0.658 ms = 93.16%
Duty Factor = $10 \log(1/\text{Duty cycle}) = 0.31 \text{ dB}$



Date: 22.MAY.2026 11:39:45

Duty cycle = 0.316 ms / 0.361 ms = 87.53%
Duty Factor = $10 \log(1/\text{Duty cycle}) = 0.58 \text{ dB}$



Date: 13.JUN.2026 09:05:14

Duty cycle = 0.636 ms / 0.681 ms = 93.39%
Duty Factor = 10 log(1/Duty cycle) = 0.30 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 991 Hz.

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 1623 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 1631 Hz.

For IEEE 802.11n(HT40):

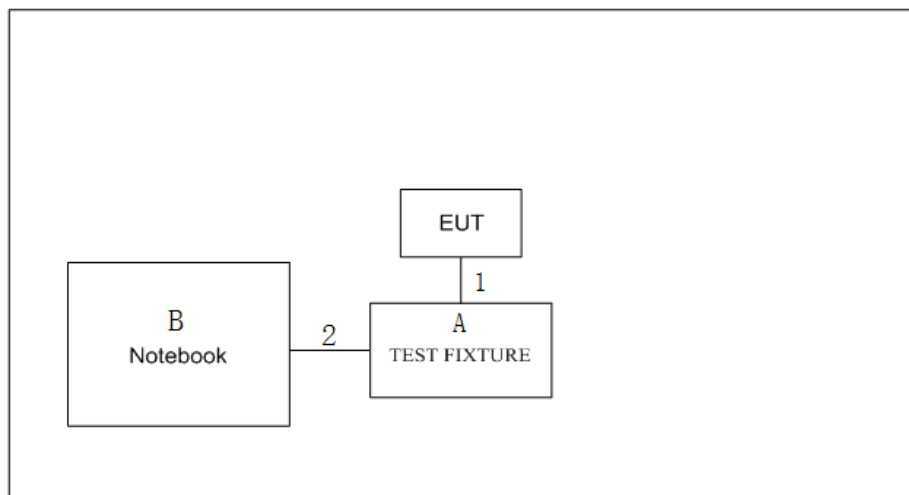
For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3165 Hz.

For IEEE 802.11ax(HE20):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 1572 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	Test Fixture	N/A	N/A	N/A
B	Notebook	HUAWEI	KLVG-16	N/A

Item	Cable Type	Shielded Type	Ferrite Core	Length
1	Data Cable	NO	NO	0.2m
2	USB Cable	NO	NO	1m

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 (dBμV)	
	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.

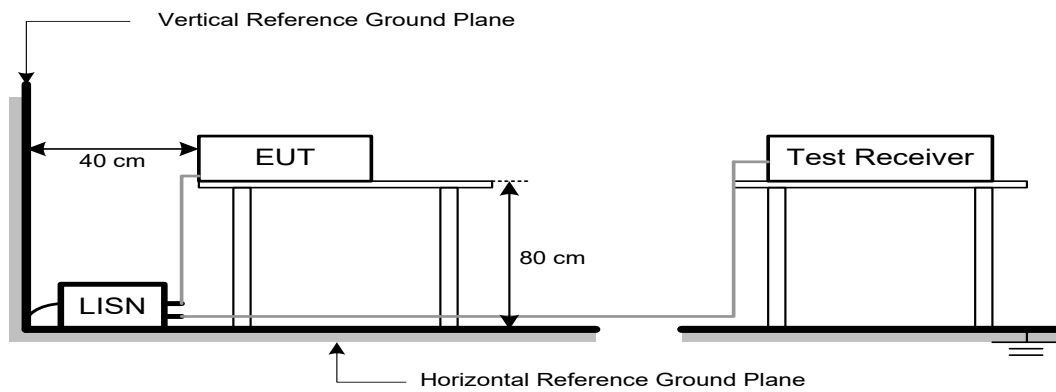
The following table is the setting of the receiver:

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 (dBμV/m)		Harmonic at 1m (dBμV/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 (dBuV/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

$$(5) \quad FS_{\text{limit}} = FS_{\text{max}} - 20 \log \left(\frac{d_{\text{limit}}}{d_{\text{measure}}} \right)$$

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

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

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

The following table is the setting of the receiver:

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

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

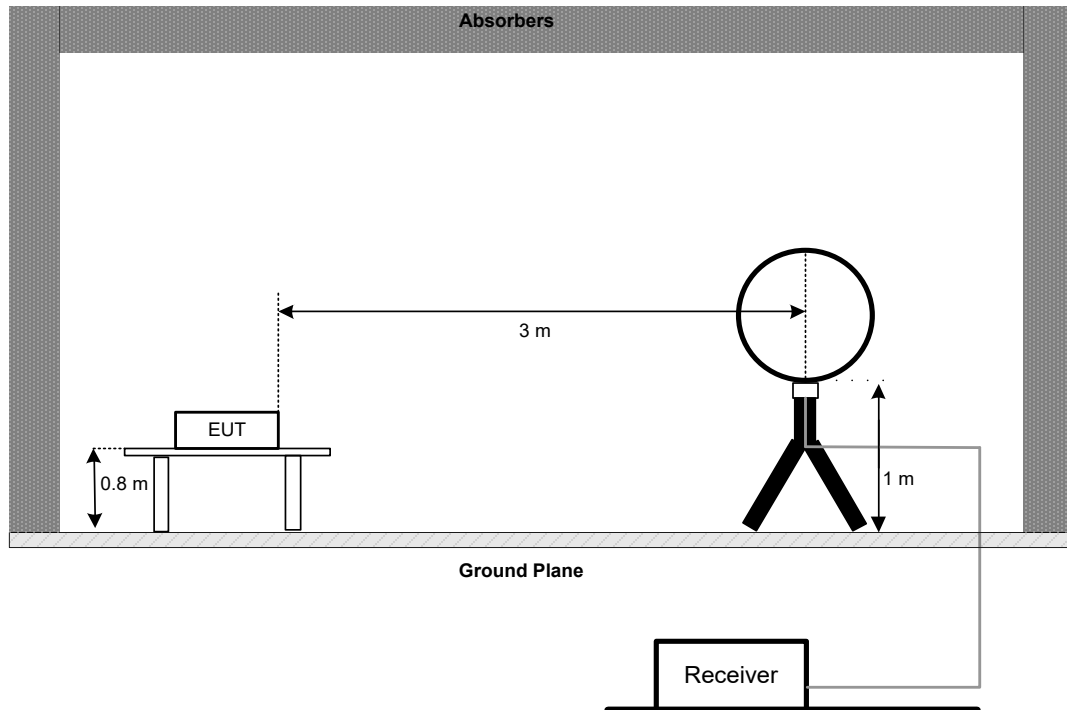
Receiver Parameters	Setting
Start ~ Stop Frequency	9 kHz~90 kHz for PK/AVG detector
Start ~ Stop Frequency	90 kHz~110 kHz for QP detector
Start ~ Stop Frequency	110 kHz~490 kHz for PK/AVG detector
Start ~ Stop Frequency	490 kHz~30 MHz for QP detector
Start ~ Stop Frequency	30 MHz~1000 MHz for QP detector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

5.3 DEVIATION FROM TEST STANDARD

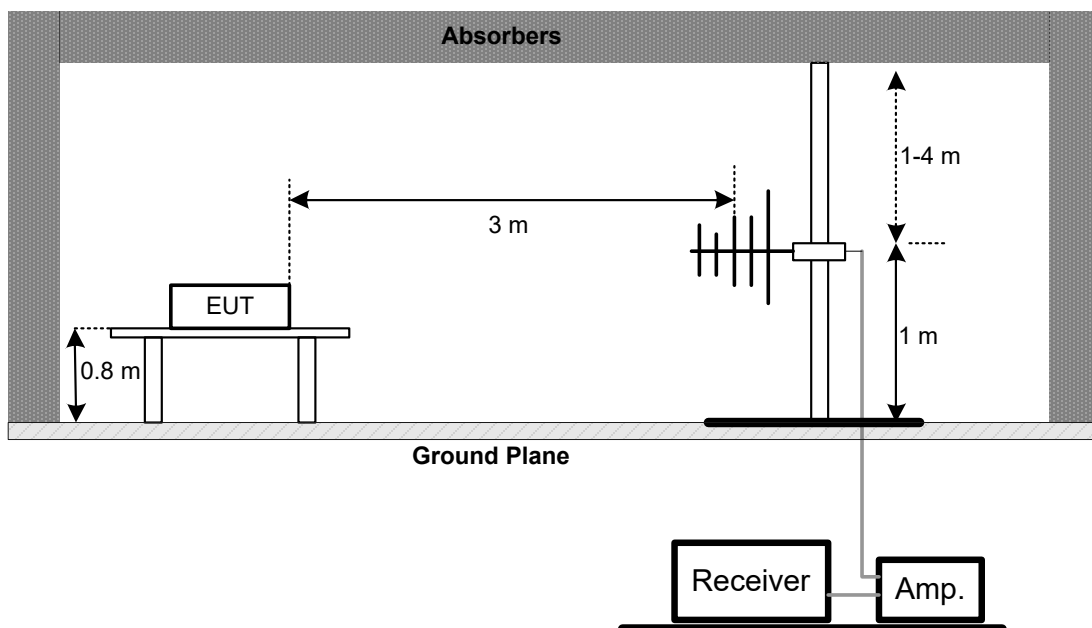
No deviation.

5.4 TEST SETUP

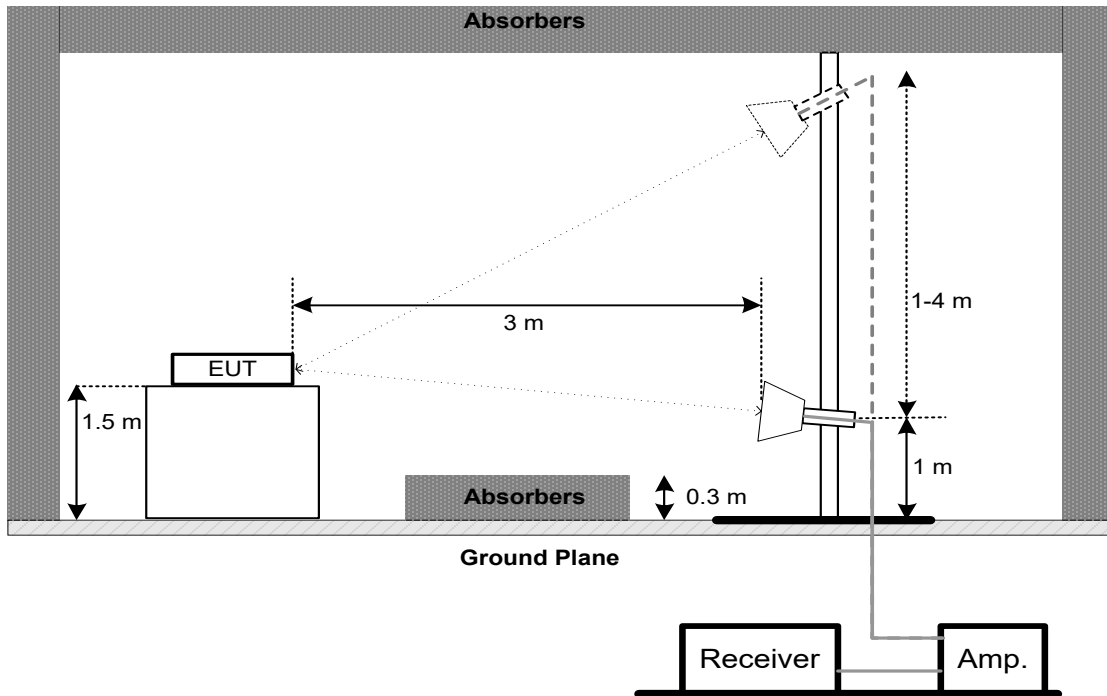
9 kHz to 30 MHz



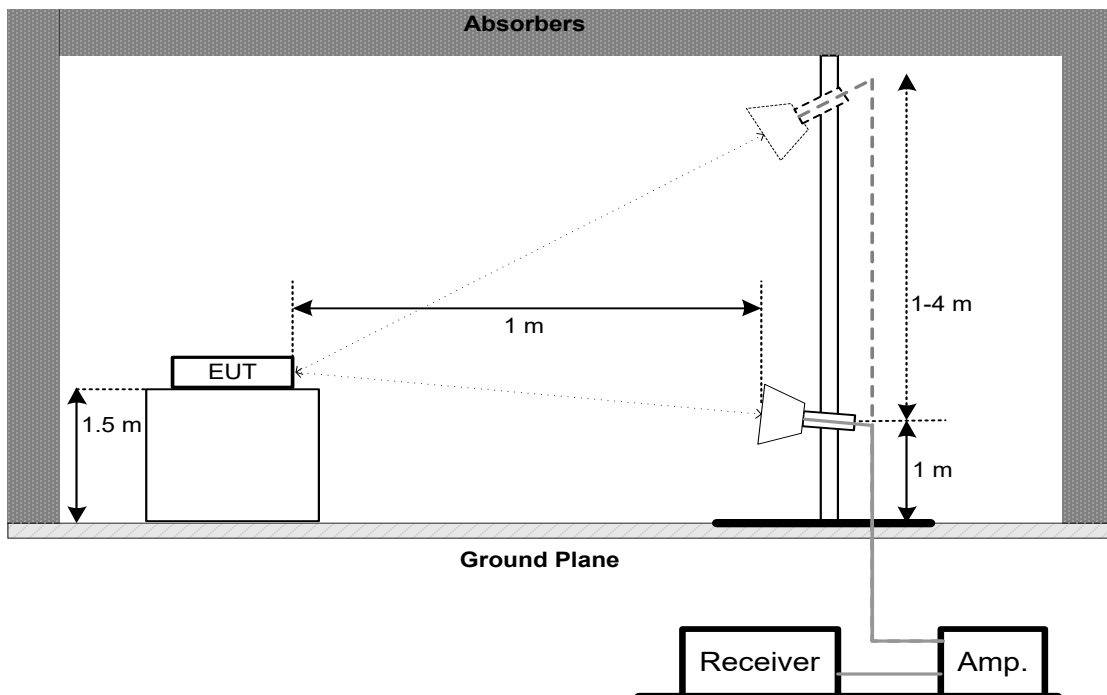
30 MHz to 1 GHz



Above 1 GHz
Band edge & Harmonic(1 GHz to 18 GHz)



Harmonic(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	shall be in the range of 1% to 5% of the OBW but not less than 100 kHz.
VBW	$\geq 3 \times \text{RBW}$
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

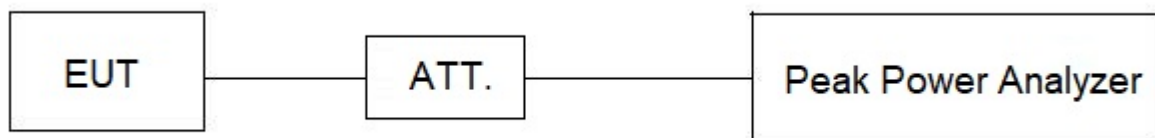
7.2 TEST PROCEDURE

- 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 11.9.2.3.1of ANSI C63.10-2020.

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:

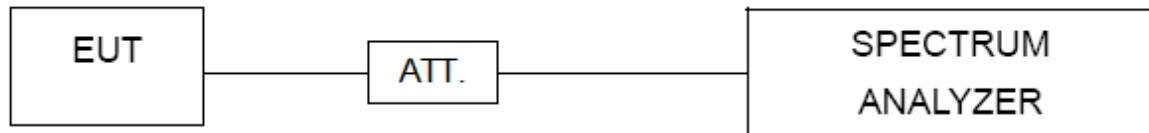
Spectrum Parameters	Setting
Start Frequency	2300 MHz
Stop Frequency	2690 MHz
RBW	100 kHz
VBW	300 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

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 (Test Date: May 18, 2026)

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	EMI TEST RECEIVER	R&S	ESCI	100382	Nov. 21, 2026
2	TWO-LINE V-NETWORK	R&S	ENV216	101447	Nov. 21, 2026
3	BTL RE System	BTL	BTL RE System	N/A	N/A
4	Cable	N/A	SFT205-NMNM-9M-001	9M	Jul. 08, 2026
5	643 Shield Room	ETS	6*4*3	N/A	N/A

Radiated Emissions - 9 kHz to 30 MHz (Test Date: May 15, 2026)

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Active Loop Antenna	Schwarzbeck	FMZB 1513-60	00025	Mar. 14, 2027
2	Receiver	Agilent	N9038A	MY52130039	Apr. 25, 2027
3	Cable	RegalWay	LMR400-NMNM-6m	N/A	Apr. 22, 2027
4	Cable	RegalWay	LMR400-NMRANM-3.5m	N/A	Apr. 22, 2027
5	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
6	966 Chamber room	CM	9*6*6	N/A	May 15, 2026

Radiated Emissions - 30 MHz to 1 GHz (Test Date: May 15, 2026)

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Trilog-Broadband Antenna	Schwarzbeck	VULB 9168	01462	Dec. 07, 2026
2	Attenuator	EMC INSTRUMENT	EMCI-N-6-06	AT-06009	Dec. 07, 2026
3	Preamplifier	EMC INSTRUMENT	EMC001330	980998	Apr. 25, 2027
4	Cable	RegalWay	LMR400-NMNM-10m	N/A	May 10, 2027
5	Cable	RegalWay	LMR400-NMNM-3m	N/A	May 10, 2027
6	Cable	RegalWay	LMR400-NMNM-0.5m	N/A	May 10, 2027
7	Receiver	Agilent	N9038A	MY52130039	Apr. 25, 2027
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 14, 2027

Radiated Emissions - 1 GHz - 18 GHz
(Test Date: May 27, 2026-Jun. 17, 2026)

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Receiver	Agilent	N9038A	MY52130039	Apr. 25, 2027
2	Preamplifier	EMC INSTRUMENT	EMC118A45SE	980888	Oct. 17, 2026
3	Double Ridged Guide Antenna	ETS	3115	75846	Mar. 03, 2027
4	Cable	RegalWay	RWLP50-4.0A-SMS M-12.5M	N/A	Feb. 01, 2027
5	Cable	RegalWay	RWLP50-4.0A-NM RASM-2.5M	N/A	Feb. 01, 2027
6	Cable	RegalWay	RWLP50-4.0A-NM RASMRA-0.8M	N/A	Feb. 01, 2027
7	966 Chamber room	CM	9*6*6	N/A	May 14, 2027
8	Filter	STI	STI15-9912	N/A	May 16, 2027
9	Positioning Controller	MF	MF-7802	N/A	N/A
10	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
11	Attenuator	RegalWay	RWA-201-S-10	N/A	Apr. 25, 2027

Radiated Emissions - Above 18 GHz
(Test Date: Jun. 02, 2026)

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	MXA Signal Analyze	KEYSIGHT	N9020B	MY63430227	May 16, 2027
2	Pre-Amplifier	EMC INSTRUMENT	EMC184045SE	980911	May 18, 2027
3	Broad-Band Horn Antenna	Schwarzbeck	BBHA9170	0 1046	Jul. 18, 2026
4	Cable	RegalWay	RWLP50-2.6A-2.92 M2.92M-2M	N/A	Jan. 06, 2027
5	Cable	RegalWay	RWLP50-2.6A-3.5 M2.92MMRA-6M	N/A	Jan. 06, 2027
6	Positioning Controller	MF	MF-7802	N/A	N/A
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
8	966 Chamber room	Tai He	9*6*6 (NSA&VSWR)	N/A	May 17, 2027

Bandwidth & Conducted Spurious Emissions & Power Spectral Density
(Test Date: May 22, 2026-Jun. 13, 2026)

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyze	R&S	FSP40	100185	Apr. 25, 2027
2	CTA	BTL	CTA	N/A	N/A
3	Isolation attenuator	Z-Link	ASMA-16-18-2W	N/A	May 16, 2027

Maximum Output Power
(Test Date: May 20, 2026-Jun. 05, 2026)

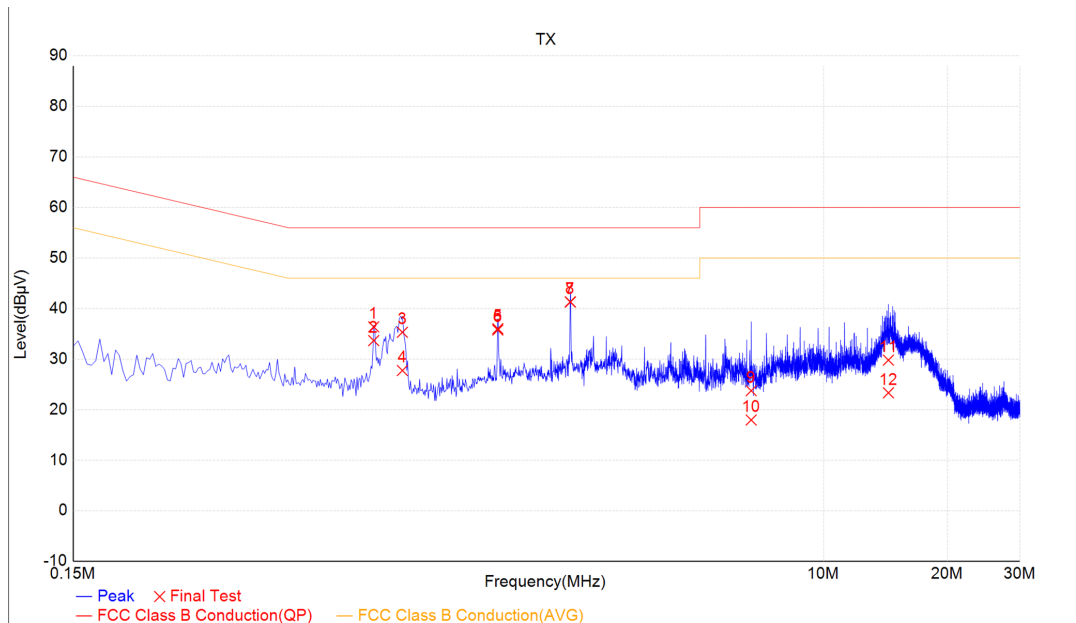
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Peak Power Analyzer	Keysight	8990B	MY51000506	Apr. 25, 2027
2	Wideband power sensor	Keysight	N1923A	MY58310004	Apr. 25, 2027
3	Isolation attenuator	Z-Link	ASMA-10-18-2W	N/A	N/A

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

All calibration period of equipment list is one year.

APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS

Test Mode	TX B Mode Channel 11	Phase	Line
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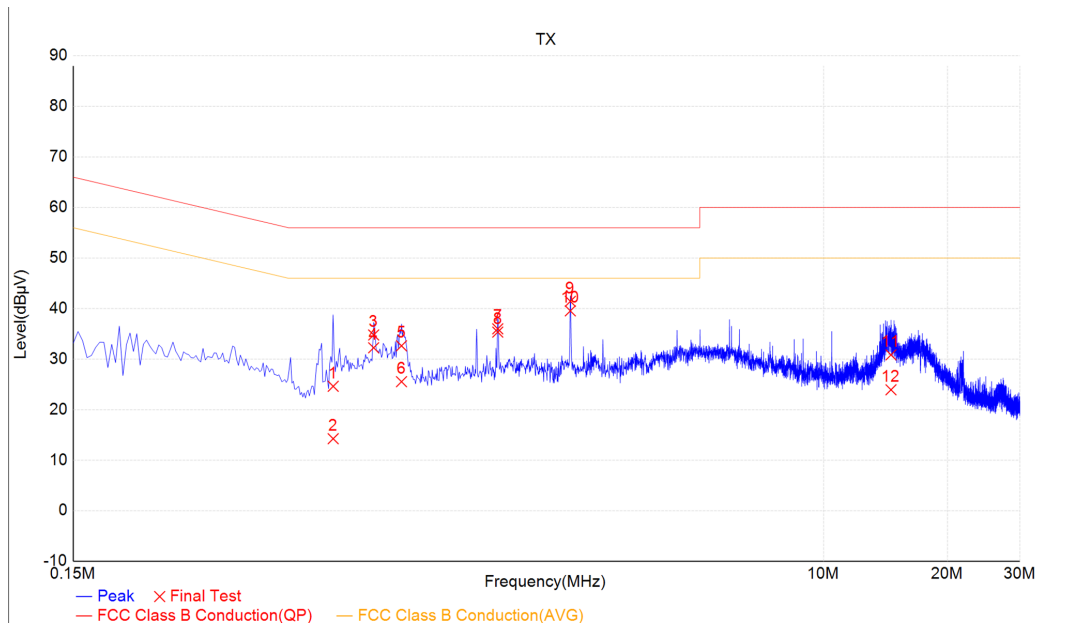
Suspected Note List									
	NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	Level [dBμV]	Limit [dBμV]	Margin [dB]	Detector	Content
	1	0.8059	25.84	10.54	36.39	56	-19.61	QP	
	2	0.8059	23.13	10.54	33.67	46	-12.33	AVG	
	3	0.9462	24.76	10.56	35.32	56	-20.68	QP	
	4	0.9462	17.19	10.56	27.75	46	-18.25	AVG	
	5	1.6142	25.43	10.61	36.03	56	-19.97	QP	
	6	1.6142	25.15	10.61	35.76	46	-10.24	AVG	
	7	2.4224	30.67	10.68	41.35	56	-14.65	QP	
*	8	2.4224	30.6	10.68	41.28	46	-4.72	AVG	
	9	6.6658	12.56	11.19	23.75	60	-36.25	QP	
	10	6.6658	6.76	11.19	17.96	50	-32.04	AVG	
	11	14.3697	16.88	12.93	29.81	60	-30.19	QP	
	12	14.3697	10.41	12.93	23.34	50	-26.66	AVG	

REMARKS:

(1) Level = Reading + Factor.

(2) Margin = Level - Limit.

Test Mode	TX B Mode Channel 11	Phase	Neutral
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Suspected Note List									
	NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	Level [dBμV]	Limit [dBμV]	Margin [dB]	Detector	Content
	1	0.6424	14.1	10.53	24.63	56	-31.37	QP	
	2	0.6424	3.72	10.53	14.26	46	-31.74	AVG	
	3	0.8057	24.21	10.57	34.78	56	-21.22	QP	
	4	0.8057	21.68	10.57	32.25	46	-13.75	AVG	
	5	0.9415	22.04	10.58	32.63	56	-23.37	QP	
	6	0.9415	14.96	10.58	25.54	46	-20.46	AVG	
	7	1.6137	25.37	10.64	36	56	-20	QP	
	8	1.6137	24.72	10.64	35.35	46	-10.65	AVG	
	9	2.4224	30.72	10.72	41.44	56	-14.56	QP	
*	10	2.4224	28.83	10.72	39.55	46	-6.45	AVG	
	11	14.5777	17.64	13.2	30.84	60	-29.16	QP	
	12	14.5777	10.75	13.2	23.94	50	-26.06	AVG	

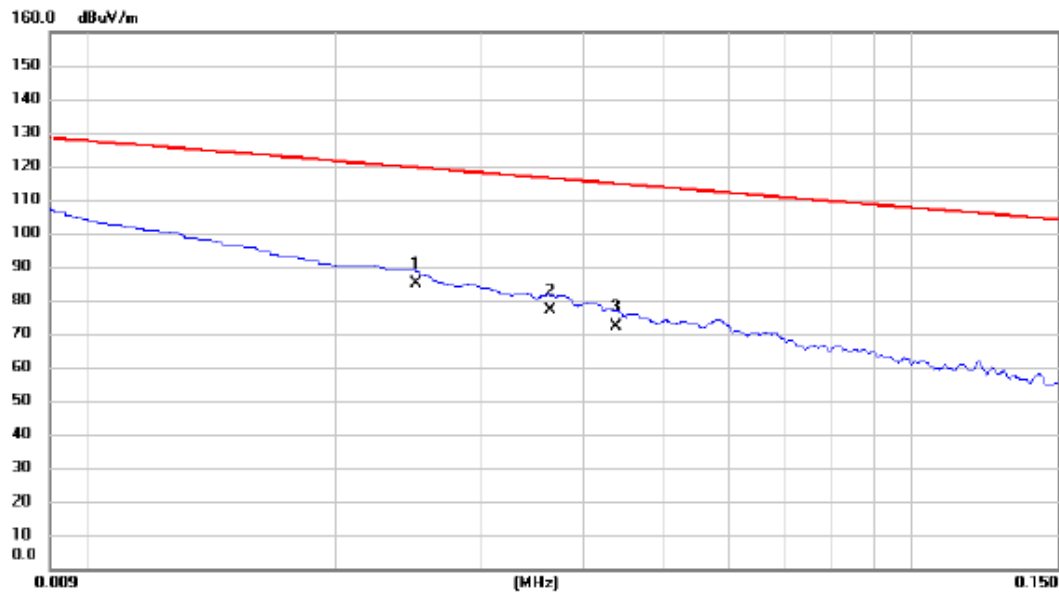
REMARKS:

(1) Level = Reading + Factor.

(2) Margin = Level - Limit.

APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ

Test Mode	TX B Mode Channel 11	Polarization	Ant 0°
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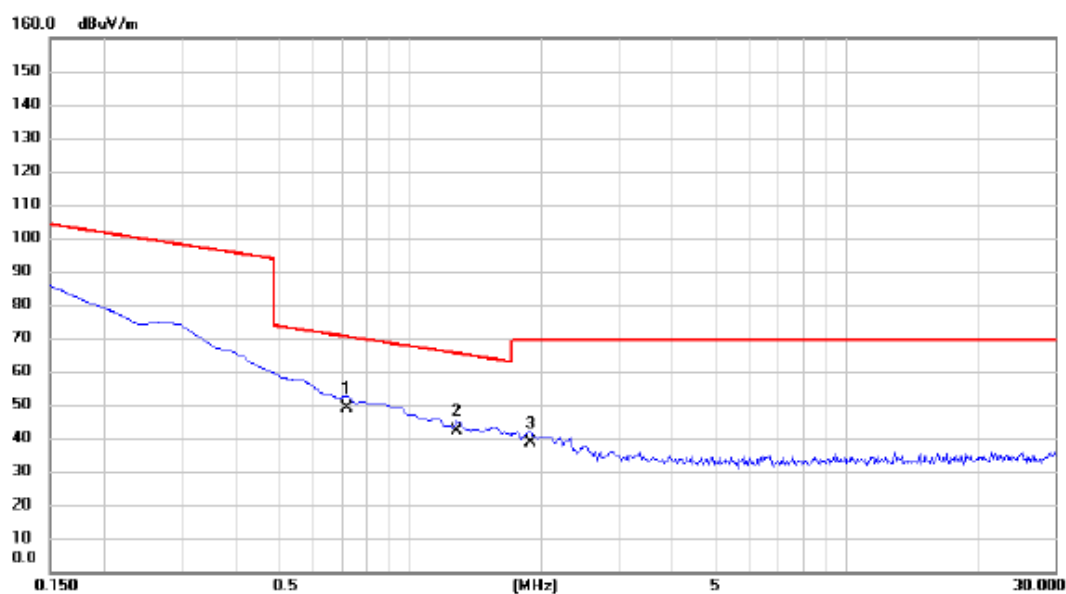


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.025	64.29	20.62	84.91	119.65	-34.74	AVG	
2		0.036	56.46	20.58	77.04	116.38	-39.34	AVG	
3		0.044	51.46	20.62	72.08	114.80	-42.72	AVG	

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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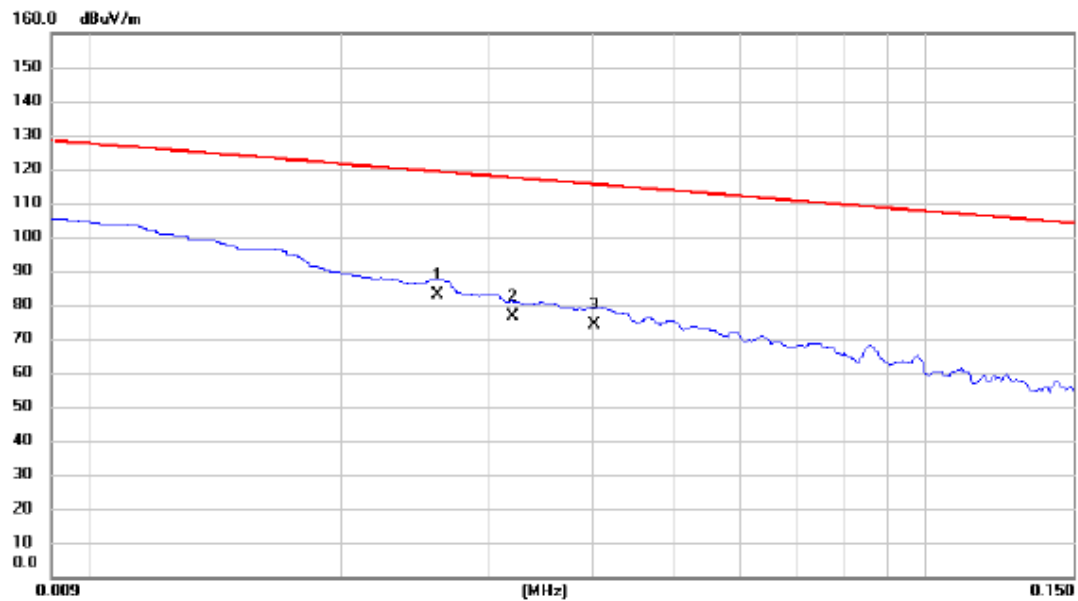


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.717	28.46	20.50	48.96	70.49	-21.53	QP	
2		1.284	22.13	20.11	42.24	65.43	-23.19	QP	
3		1.881	18.46	20.29	38.75	69.54	-30.79	QP	

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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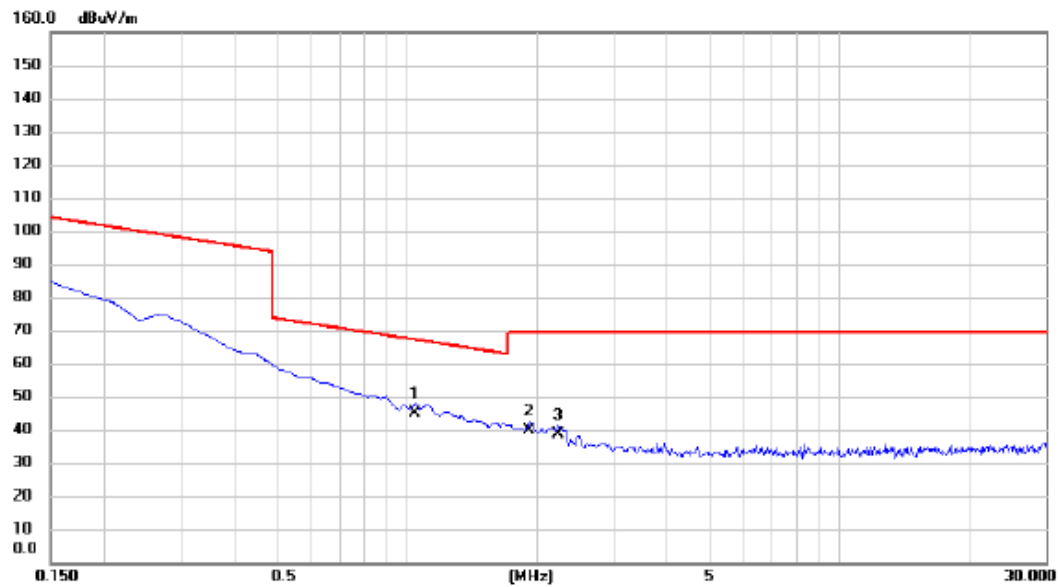
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.026	62.49	20.61	83.10	119.27	-36.17	AVG	
2		0.032	56.02	20.56	76.58	117.50	-40.92	AVG	
3		0.040	53.50	20.60	74.10	115.54	-41.44	AVG	

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. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	1.046	24.85	20.03	44.88	67.22	-22.34	QP	
2	1.911	19.65	20.30	39.95	69.54	-29.59	QP	
3	2.240	18.46	20.33	38.79	69.54	-30.75	QP	

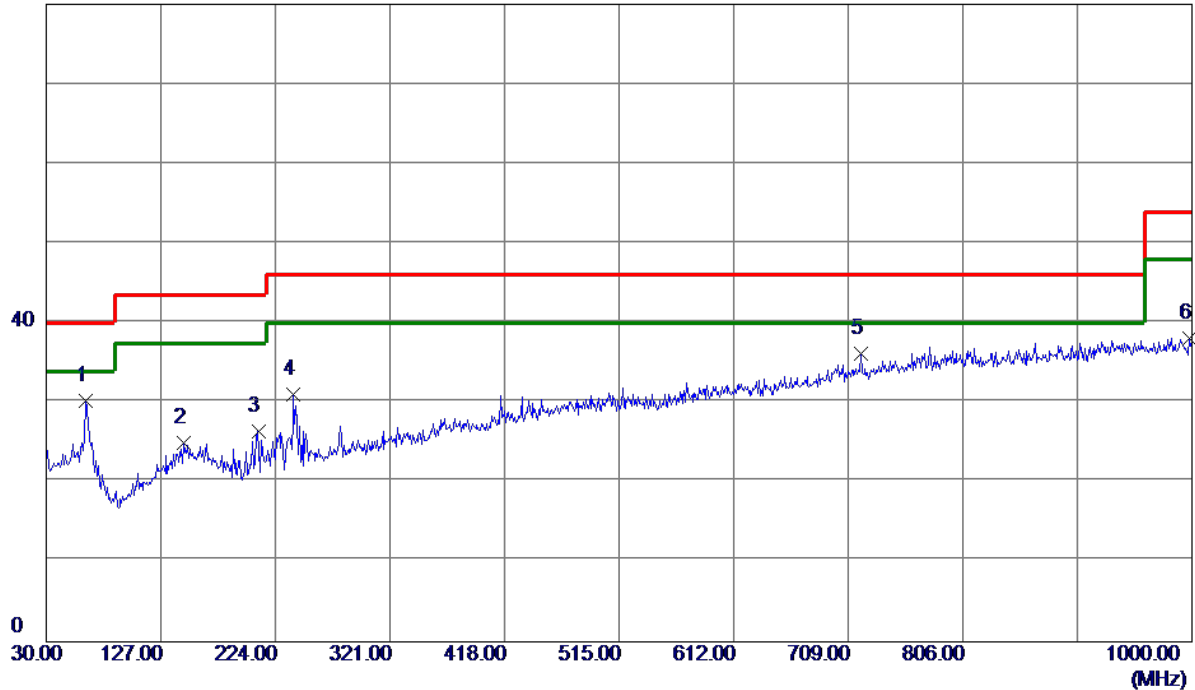
REMARKS:

- (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 *	62.9800	42.53	-12.33	30.20	40.00	-9.80	Peak	
2	146.4000	36.40	-11.41	24.99	43.52	-18.53	Peak	
3	209.4500	41.25	-14.79	26.46	43.52	-17.06	Peak	
4	239.5200	43.84	-12.73	31.11	46.02	-14.91	Peak	
5	719.6700	38.50	-2.34	36.16	46.02	-9.86	Peak	
6	998.0600	37.53	0.61	38.14	53.97	-15.83	Peak	

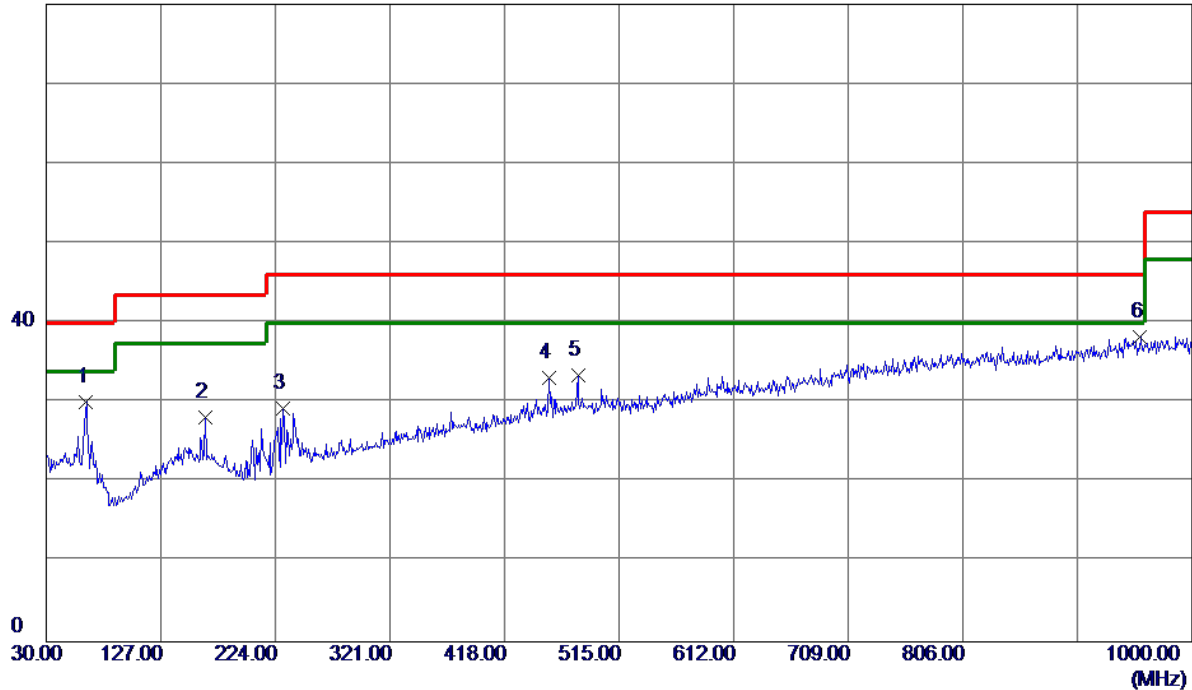
REMARKS:

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

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

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



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	63.9500	42.46	-12.45	30.01	40.00	-9.99	Peak	
2	164.8300	39.80	-11.58	28.22	43.52	-15.30	Peak	
3	230.7900	43.13	-13.78	29.35	46.02	-16.67	Peak	
4	455.8300	39.92	-6.86	33.06	46.02	-12.96	Peak	
5	480.0800	39.98	-6.51	33.47	46.02	-12.55	Peak	
6 *	956.3500	37.64	0.62	38.26	46.02	-7.76	Peak	

REMARKS:

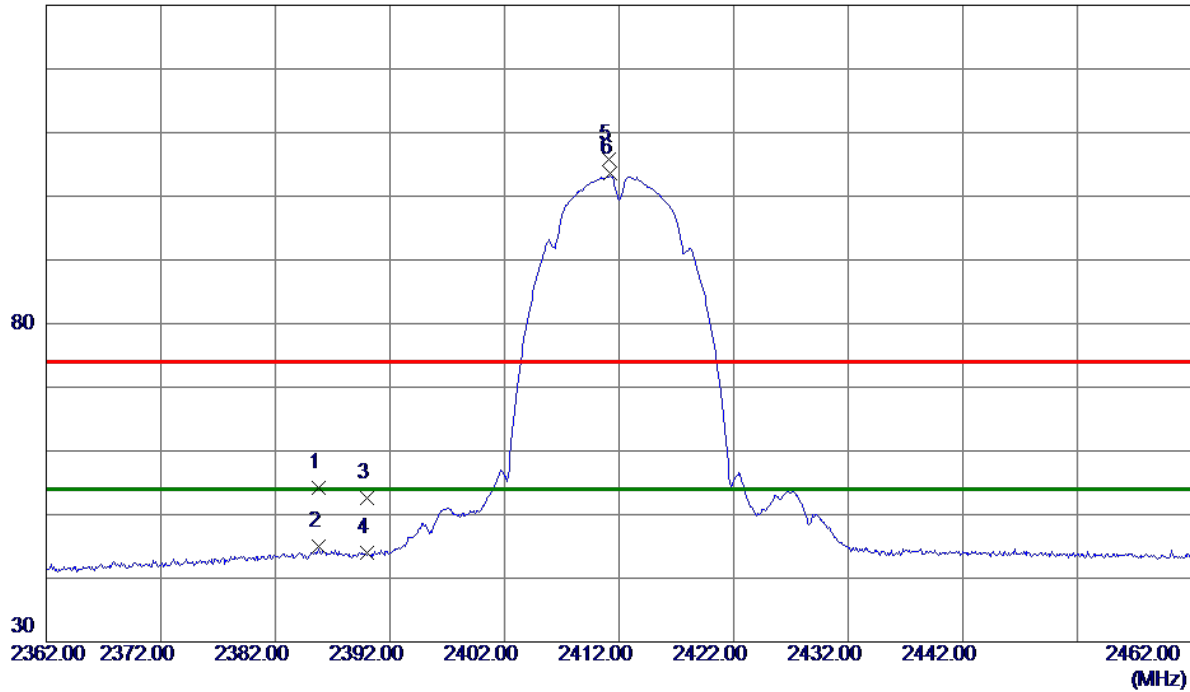
(1) Measurement Value = Reading Level + Correct Factor.

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

APPENDIX D - RADIATED EMISSION- ABOVE 1000 MHZ

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



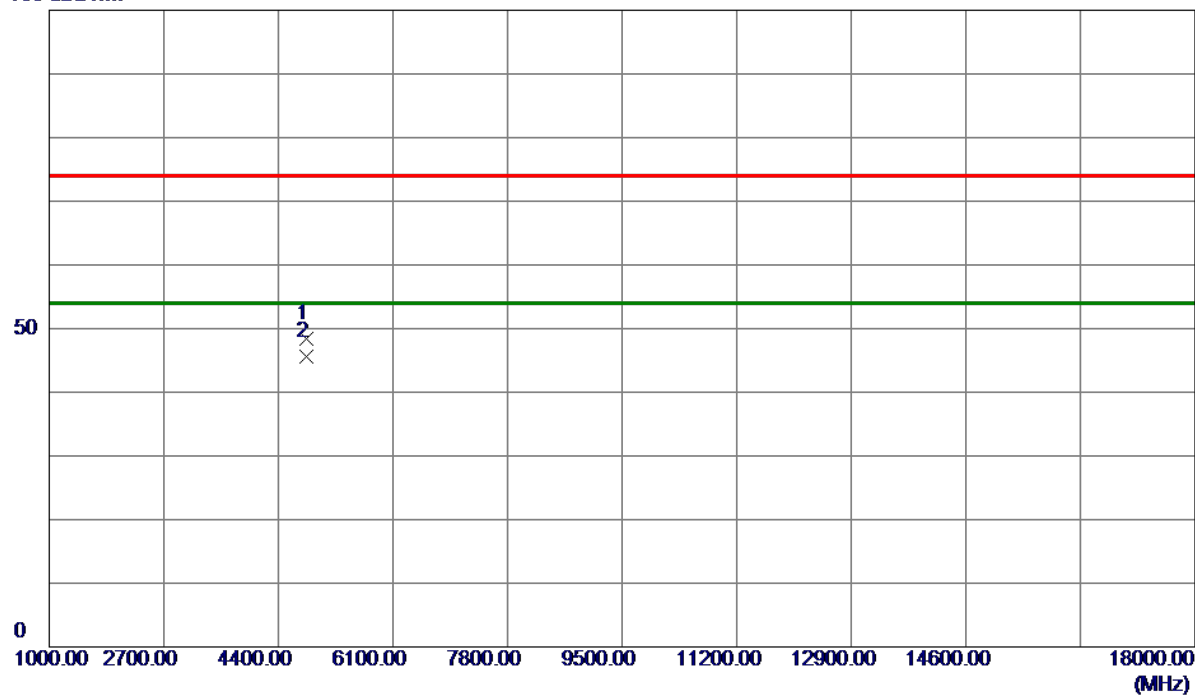
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2385.8000	46.06	8.05	54.11	74.00	-19.89	Peak	
2	2385.8000	36.87	8.05	44.92	54.00	-9.08	AVG	
3	2390.0000	44.48	8.05	52.53	74.00	-21.47	Peak	
4	2390.0000	36.03	8.05	44.08	54.00	-9.92	AVG	
5	2411.1000	97.66	8.06	105.72	74.00	31.72	Peak	No Limit
6 *	2411.2000	95.57	8.06	103.63	54.00	49.63	AVG	No Limit

REMARKS:

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

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



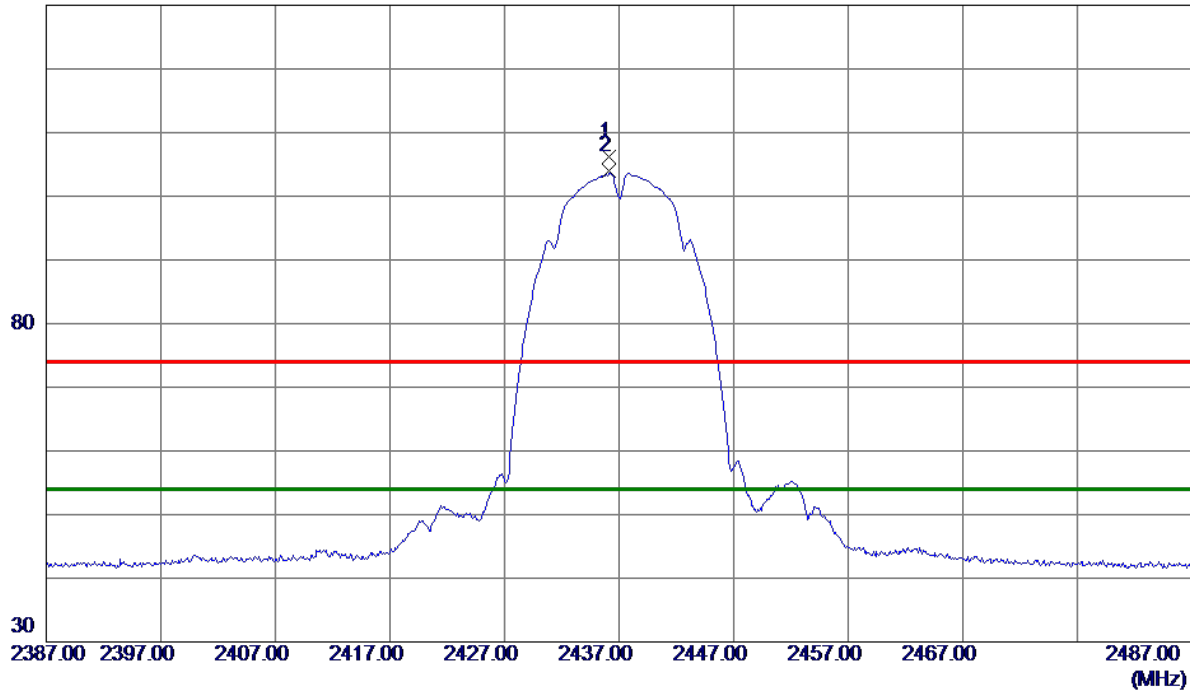
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4823.8900	45.05	3.41	48.46	74.00	-25.54	Peak	
2 *	4824.0000	42.27	3.41	45.68	54.00	-8.32	AVG	

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



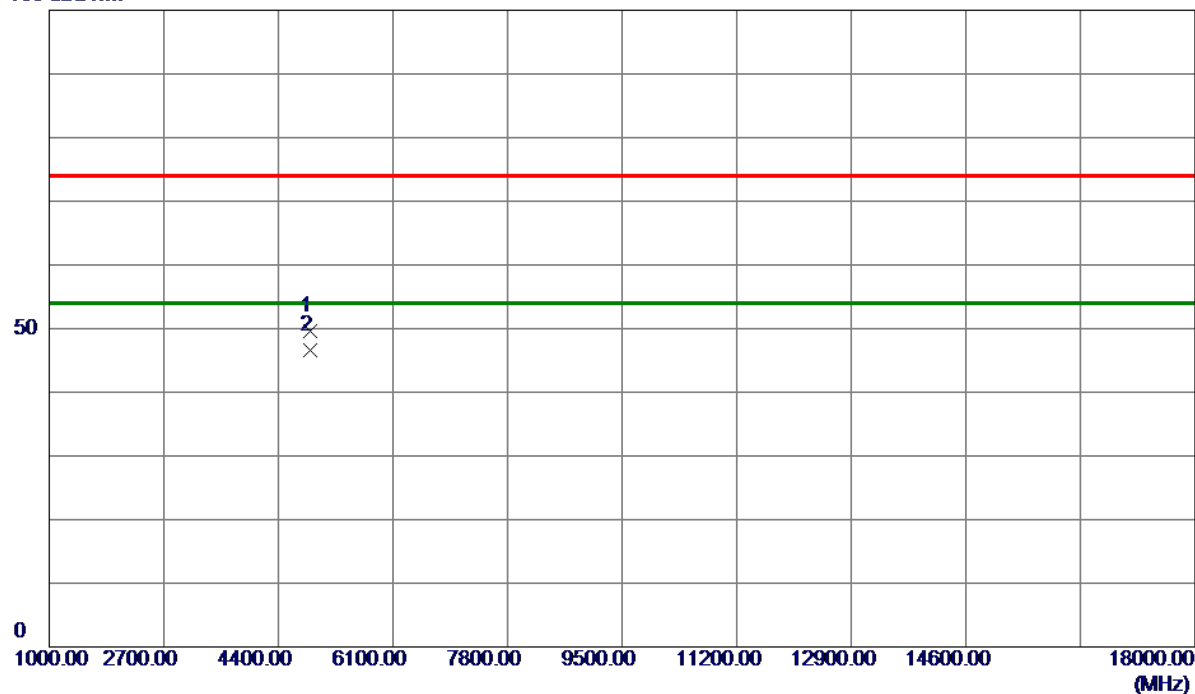
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2436.1000	98.06	8.08	106.14	74.00	32.14	Peak	No Limit
2 *	2436.1000	95.90	8.08	103.98	54.00	49.98	AVG	No Limit

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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100 dBuV/m



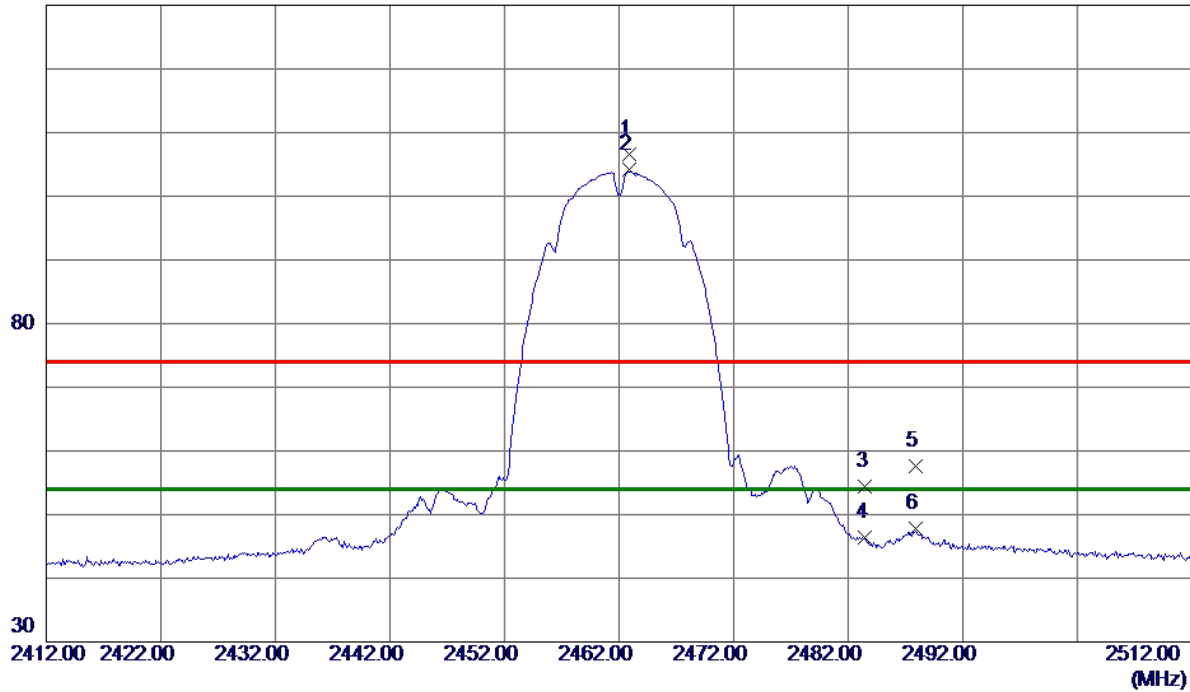
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4873.9300	45.95	3.58	49.53	74.00	-24.47	Peak	
2 *	4873.9600	42.99	3.58	46.57	54.00	-7.43	AVG	

REMARKS:

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

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



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2462.9000	98.42	8.10	106.52	74.00	32.52	Peak	No Limit
2 *	2462.9000	96.16	8.10	104.26	54.00	50.26	AVG	No Limit
3	2483.5000	46.28	8.11	54.39	74.00	-19.61	Peak	
4	2483.5000	38.25	8.11	46.36	54.00	-7.64	AVG	
5	2487.9000	49.58	8.11	57.69	74.00	-16.31	Peak	
6	2487.9000	39.74	8.11	47.85	54.00	-6.15	AVG	

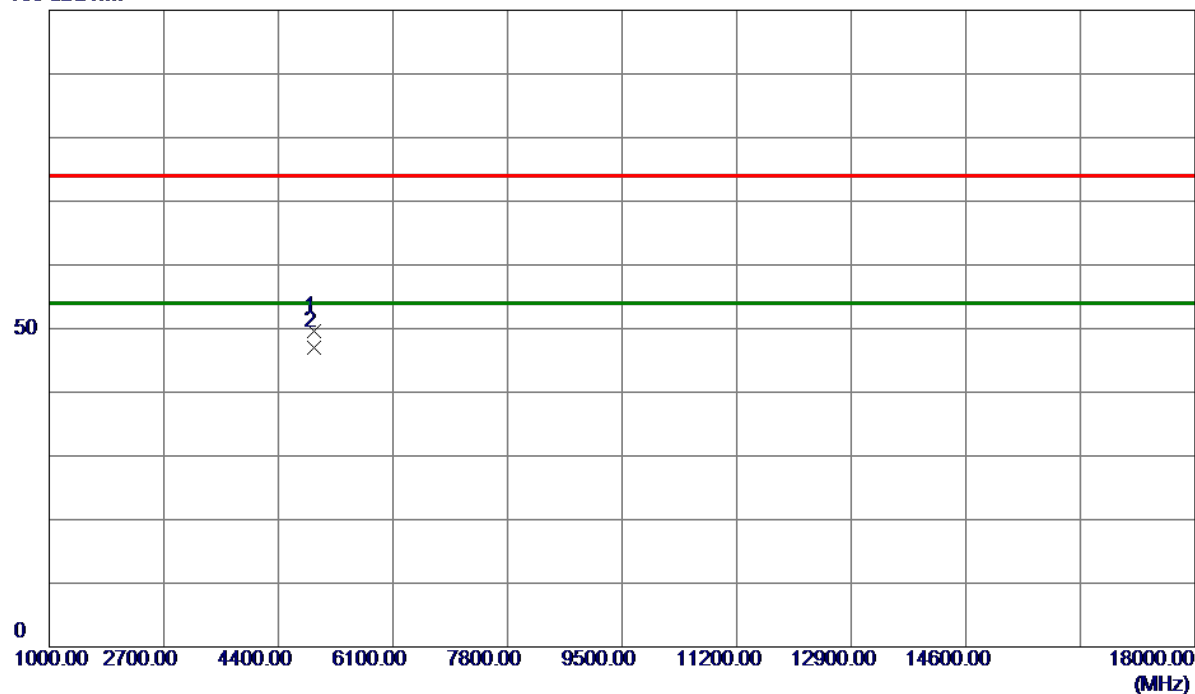
REMARKS:

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

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

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



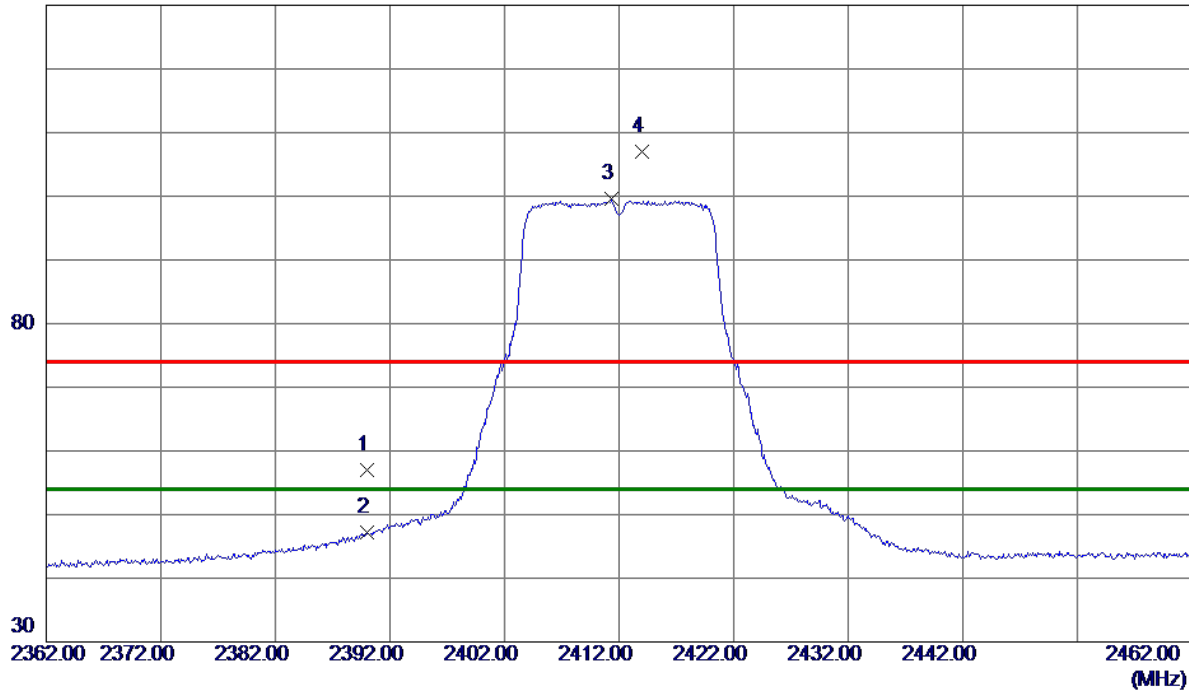
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4923.9600	45.92	3.76	49.68	74.00	-24.32	Peak	
2 *	4923.9900	43.34	3.76	47.10	54.00	-6.90	AVG	

REMARKS:

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

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



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	49.04	8.05	57.09	74.00	-16.91	Peak	
2	2390.0000	39.19	8.05	47.24	54.00	-6.76	AVG	
3 *	2411.3000	91.60	8.06	99.66	54.00	45.66	AVG	No Limit
4	2414.0000	98.87	8.06	106.93	74.00	32.93	Peak	No Limit

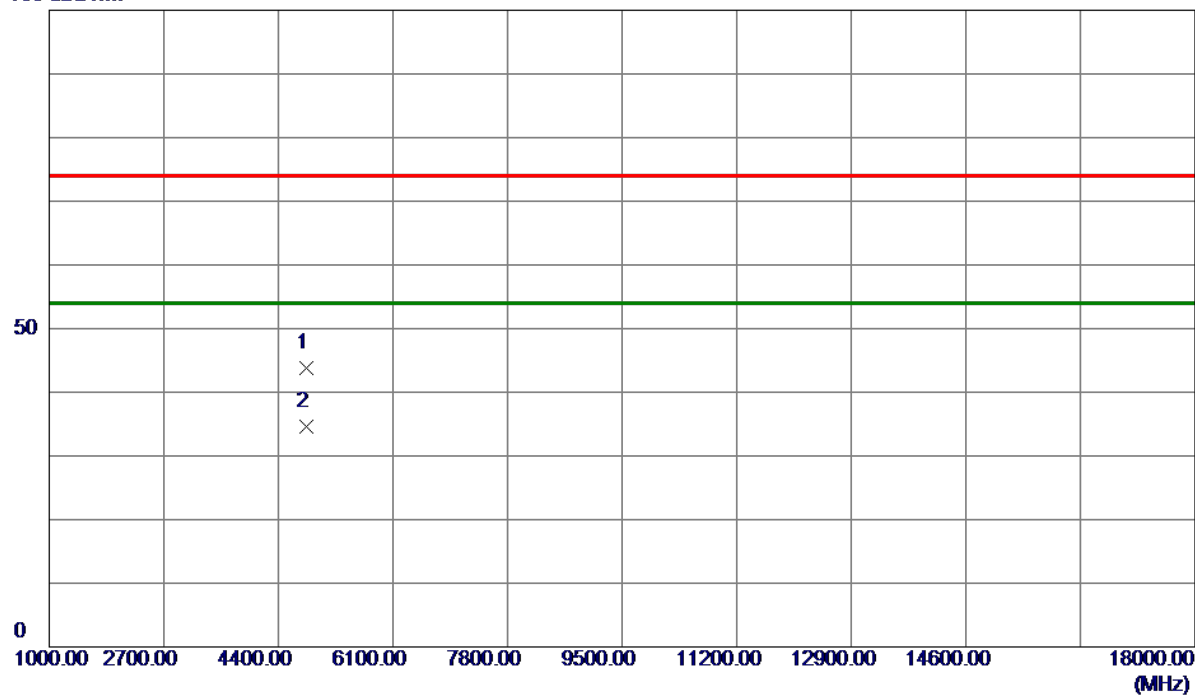
REMARKS:

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

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

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



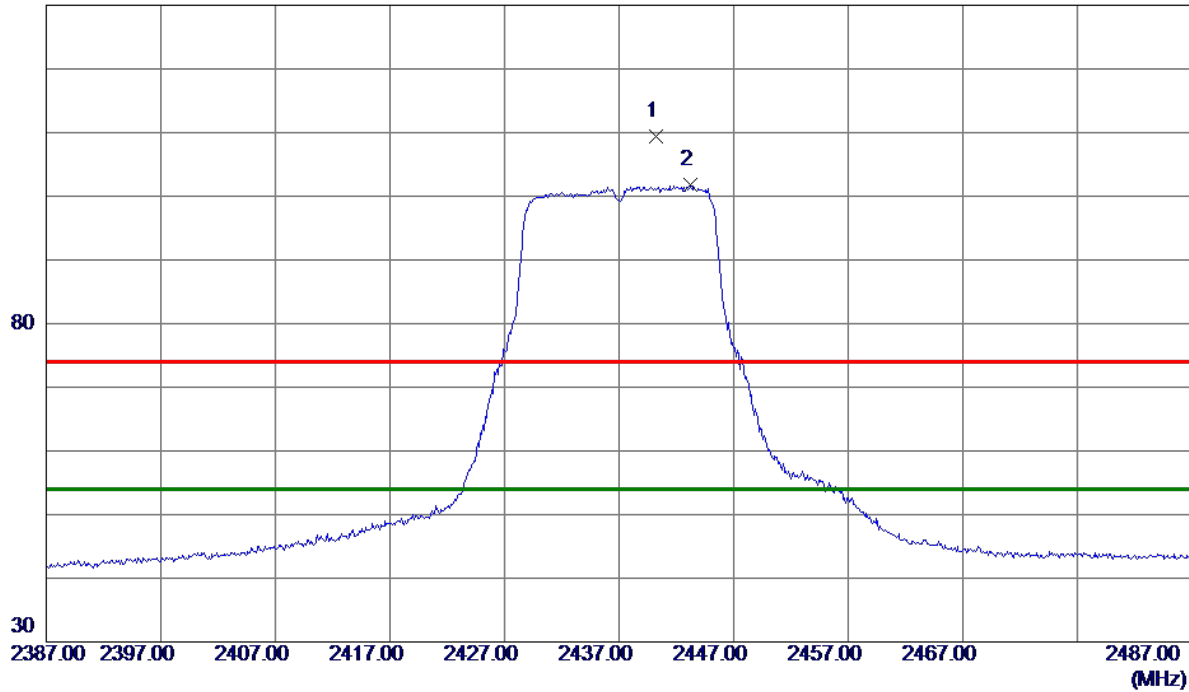
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4816.2799	40.36	3.38	43.74	74.00	-30.26	Peak	
2 *	4822.3000	31.16	3.40	34.56	54.00	-19.44	AVG	

REMARKS:

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

Test Mode	TX G Mode 2437 MHz	Polarization	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	2440.2000	101.29	8.08	109.37	74.00	35.37	Peak	No Limit
2 *	2443.2000	93.79	8.08	101.87	54.00	47.87	AVG	No Limit

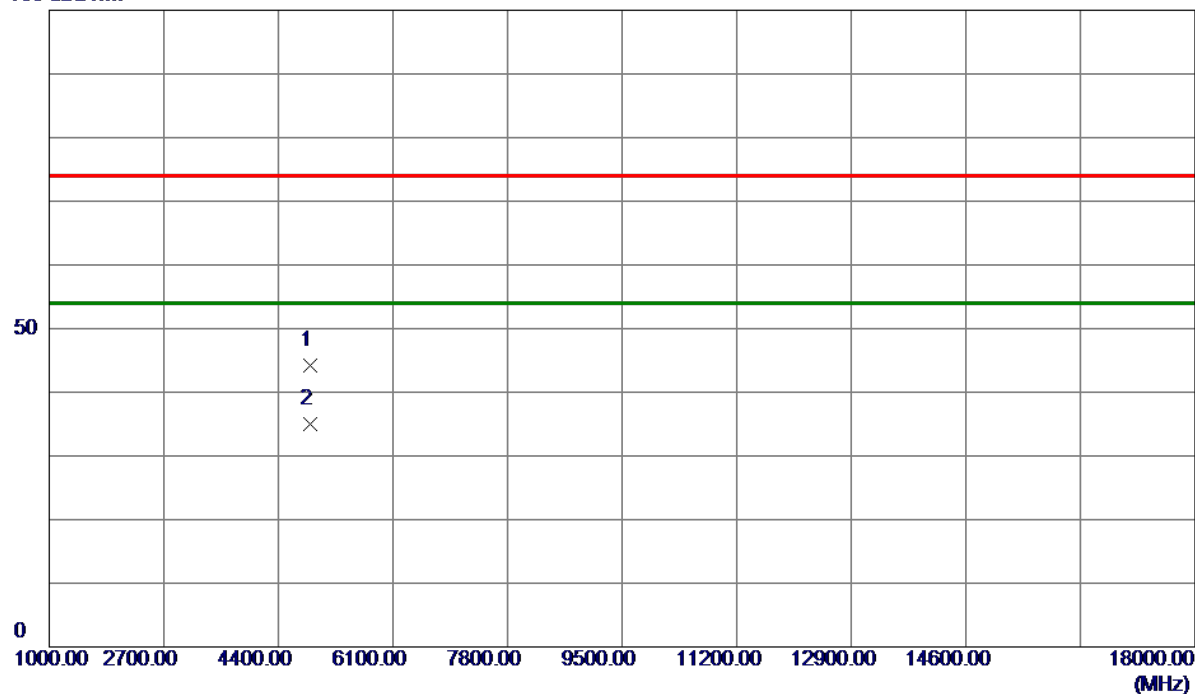
REMARKS:

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

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

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



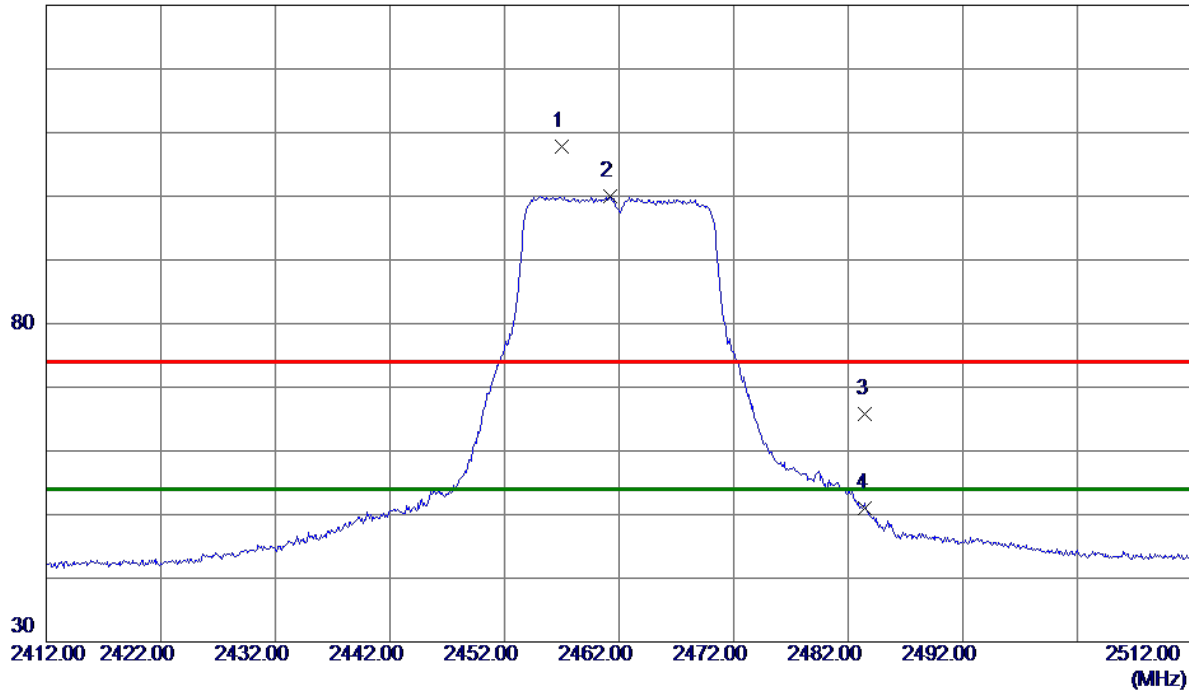
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4869.8400	40.64	3.57	44.21	74.00	-29.79	Peak	
2 *	4873.0200	31.41	3.58	34.99	54.00	-19.01	AVG	

REMARKS:

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

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



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2457.0000	99.67	8.09	107.76	74.00	33.76	Peak	No Limit
2 *	2461.2000	91.86	8.10	99.96	54.00	45.96	AVG	No Limit
3	2483.5000	57.65	8.11	65.76	74.00	-8.24	Peak	
4	2483.5000	42.98	8.11	51.09	54.00	-2.91	AVG	

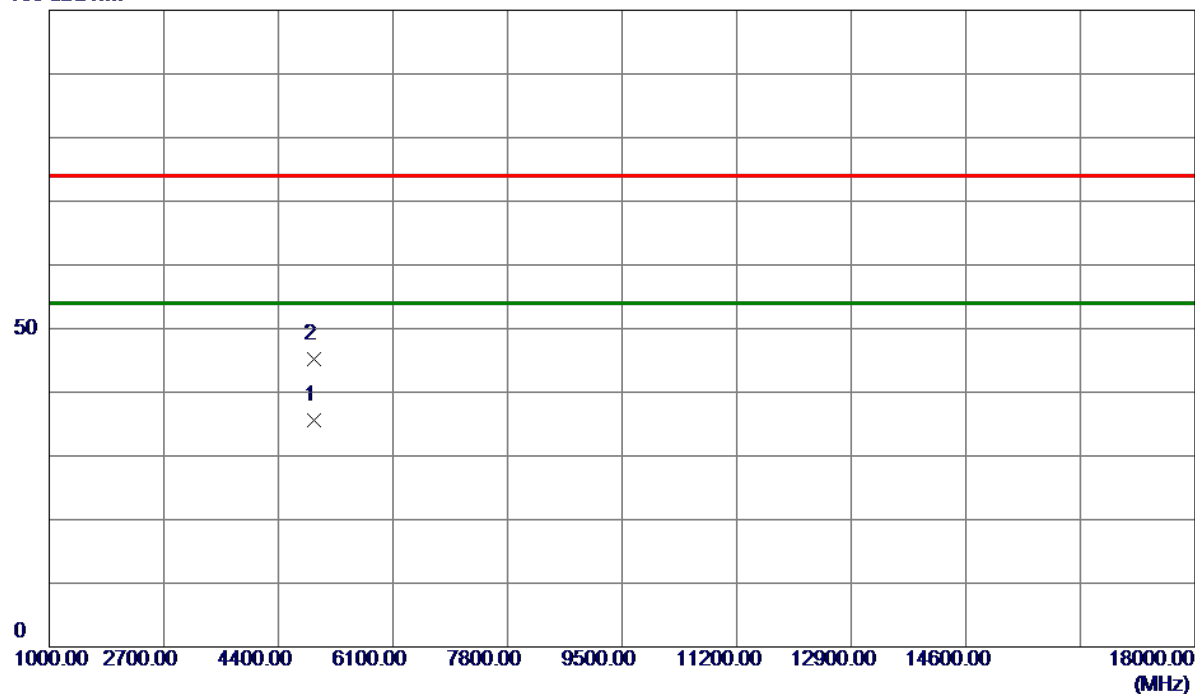
REMARKS:

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

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

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



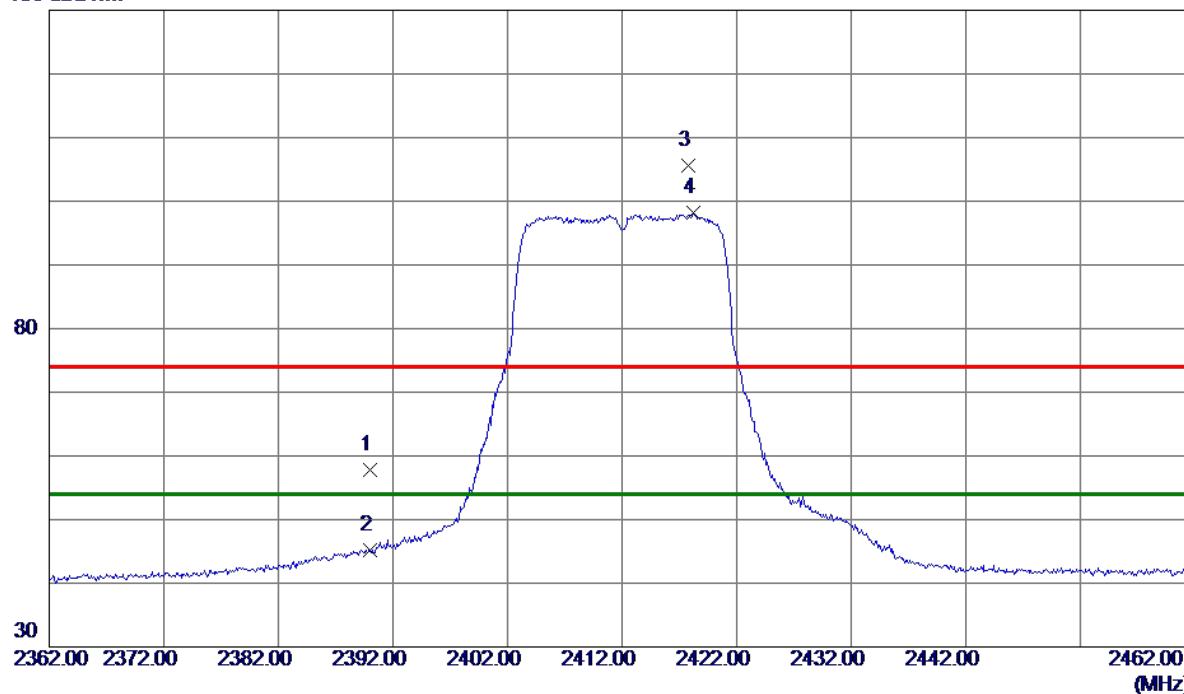
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4925.5800	31.82	3.76	35.58	54.00	-18.42	AVG	
2	4927.9400	41.43	3.77	45.20	74.00	-28.80	Peak	

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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130 dBuV/m



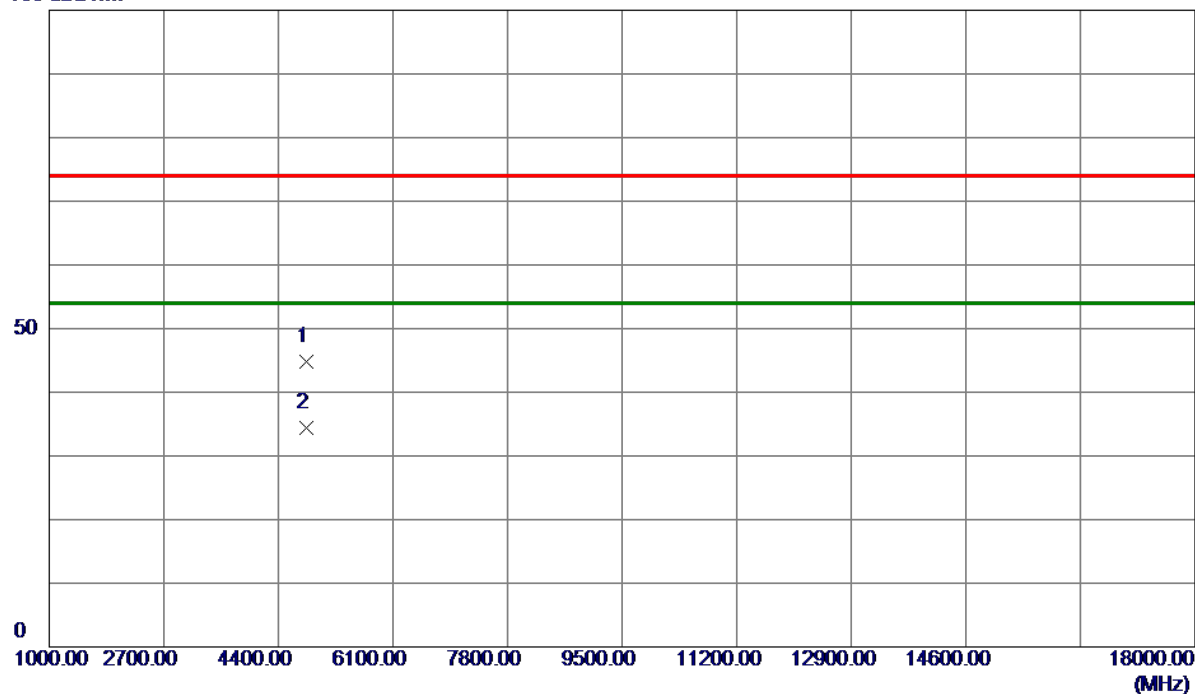
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	49.74	8.05	57.79	74.00	-16.21	Peak	
2	2390.0000	37.18	8.05	45.23	54.00	-8.77	AVG	
3	2417.8000	97.52	8.07	105.59	74.00	31.59	Peak	No Limit
4 *	2418.2000	90.13	8.07	98.20	54.00	44.20	AVG	No Limit

REMARKS:

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

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



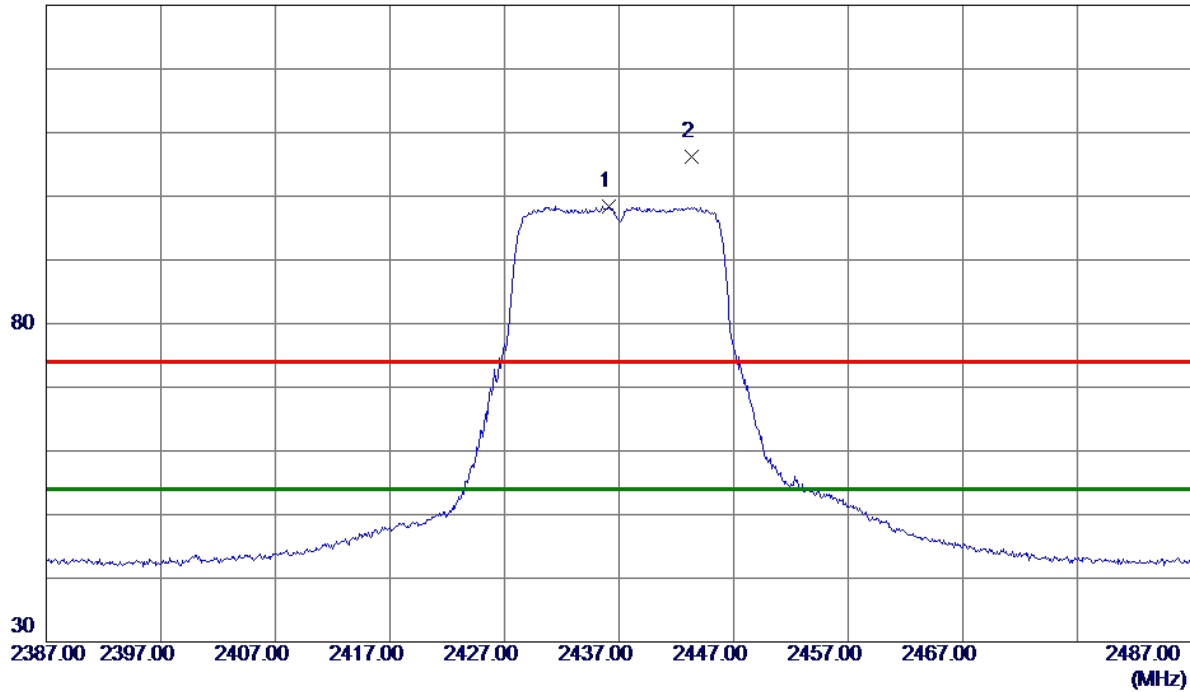
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4818.1600	41.34	3.39	44.73	74.00	-29.27	Peak	
2 *	4822.5600	30.92	3.40	34.32	54.00	-19.68	AVG	

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. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2436.1000	90.33	8.08	98.41	54.00	44.41	AVG	No Limit
2	2443.3000	98.16	8.08	106.24	74.00	32.24	Peak	No Limit

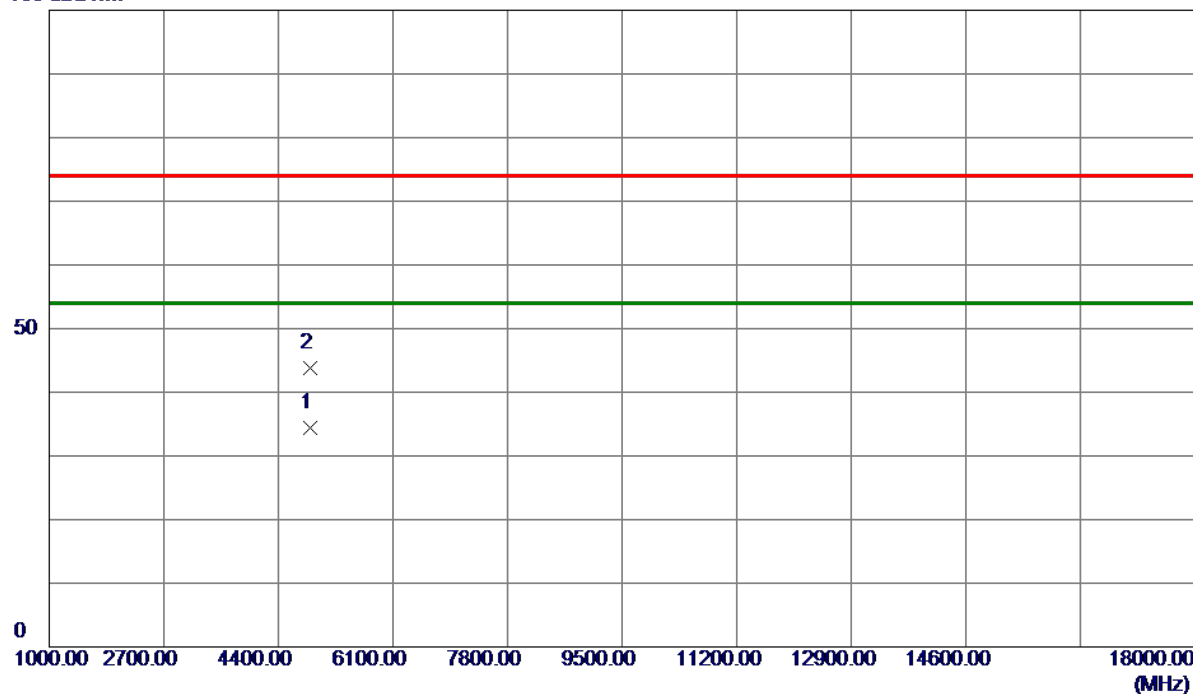
REMARKS:

(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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100 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4874.4800	30.87	3.58	34.45	54.00	-19.55	AVG	
2	4878.1800	40.18	3.60	43.78	74.00	-30.22	Peak	

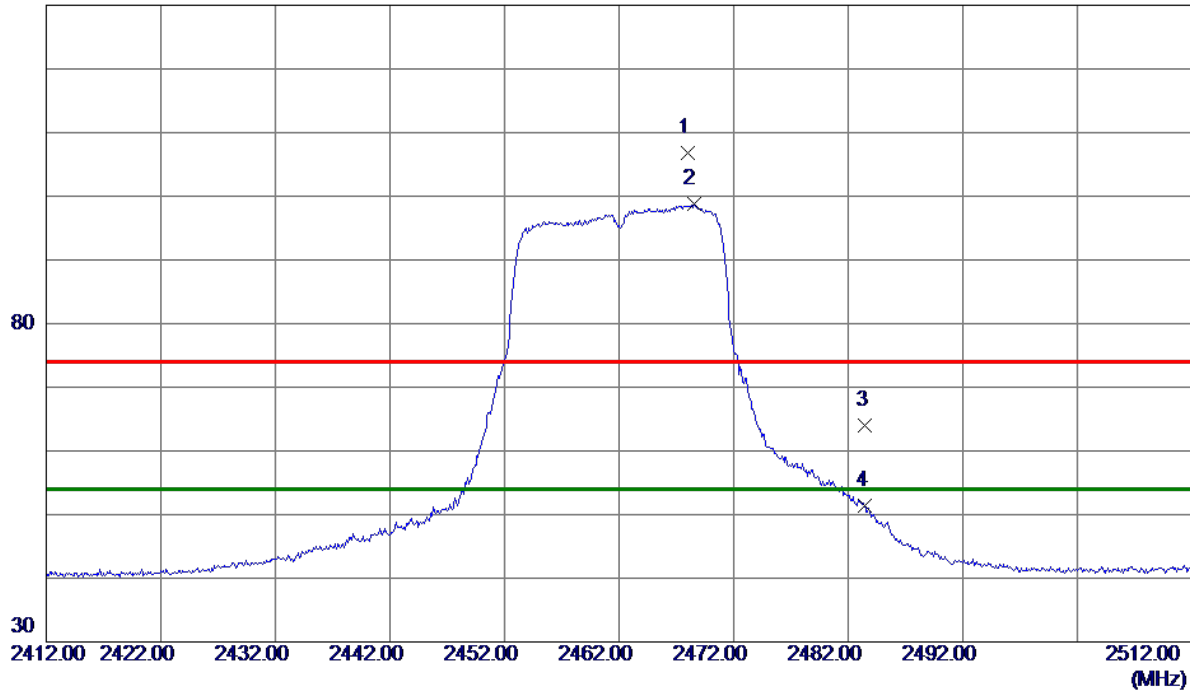
REMARKS:

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

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

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



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2468.0000	98.61	8.10	106.71	74.00	32.71	Peak	No Limit
2 *	2468.5000	90.70	8.10	98.80	54.00	44.80	AVG	No Limit
3	2483.5000	55.93	8.11	64.04	74.00	-9.96	Peak	
4	2483.5000	43.34	8.11	51.45	54.00	-2.55	AVG	

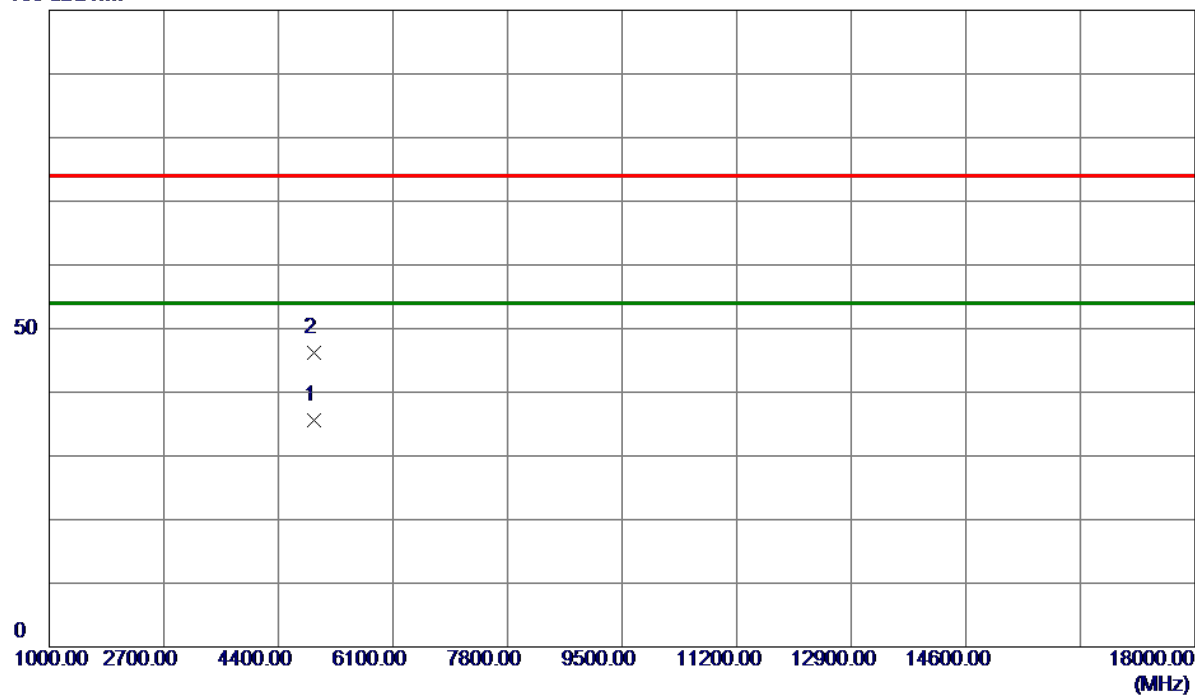
REMARKS:

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

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

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



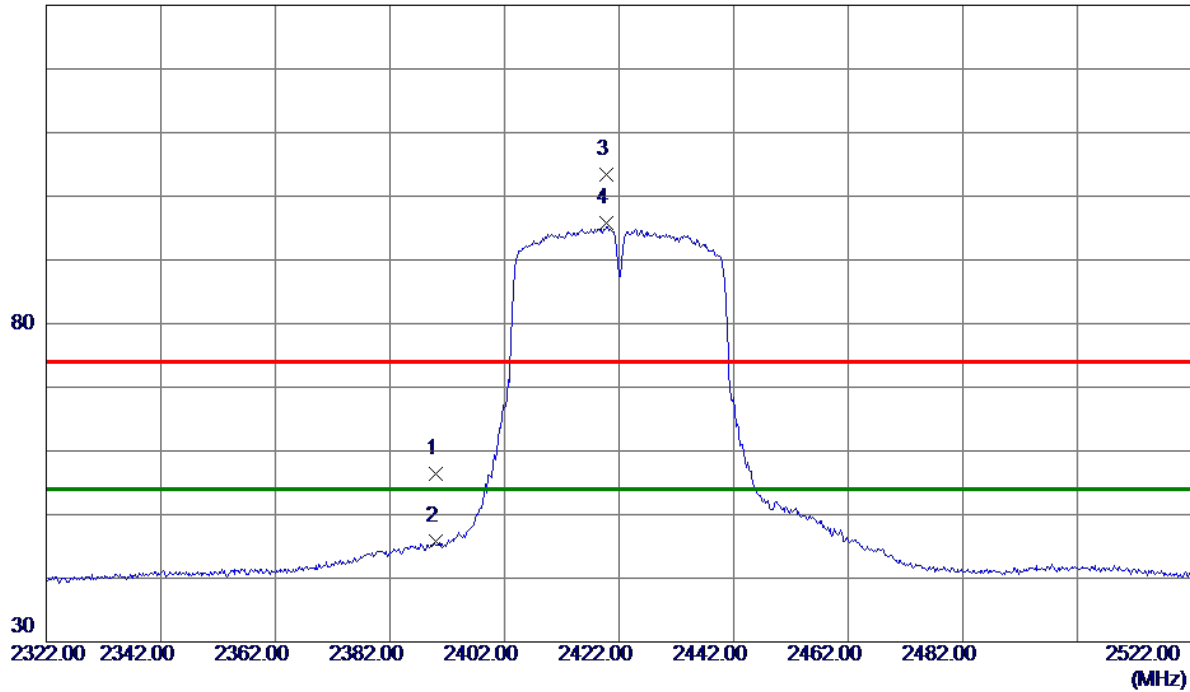
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4923.3200	31.82	3.75	35.57	54.00	-18.43	AVG	
2	4927.8700	42.36	3.77	46.13	74.00	-27.87	Peak	

REMARKS:

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

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



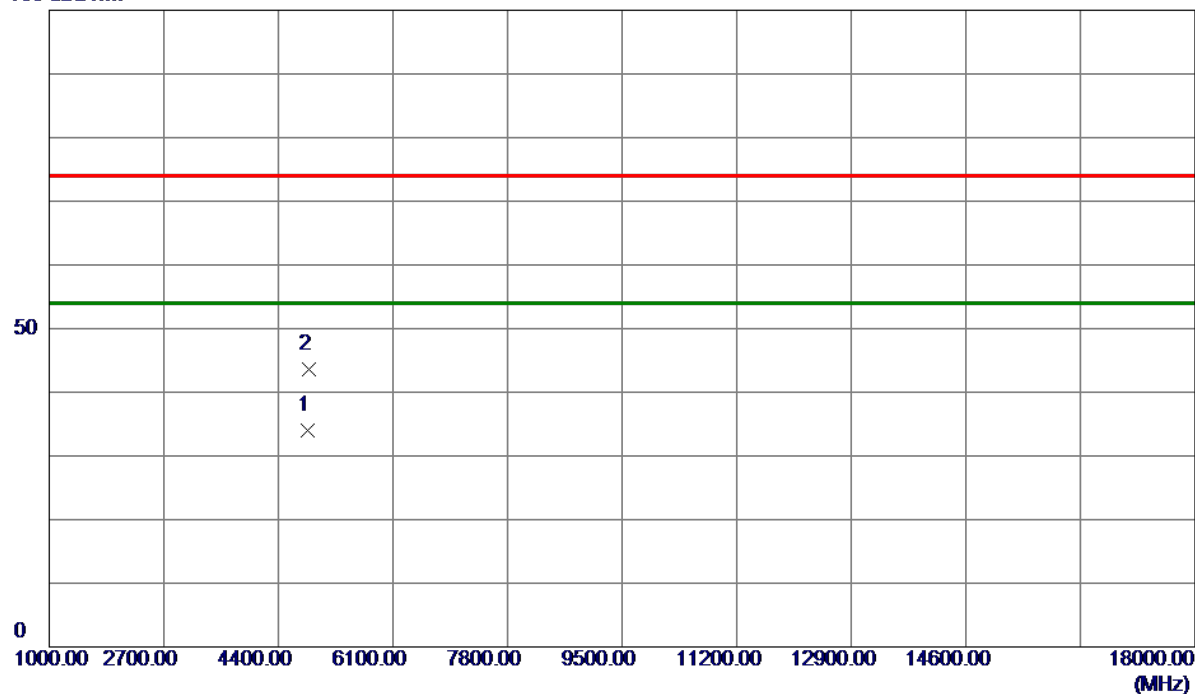
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	48.43	8.05	56.48	74.00	-17.52	Peak	
2	2390.0000	37.74	8.05	45.79	54.00	-8.21	AVG	
3	2419.8000	95.38	8.07	103.45	74.00	29.45	Peak	No Limit
4 *	2419.8000	87.65	8.07	95.72	54.00	41.72	AVG	No Limit

REMARKS:

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

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



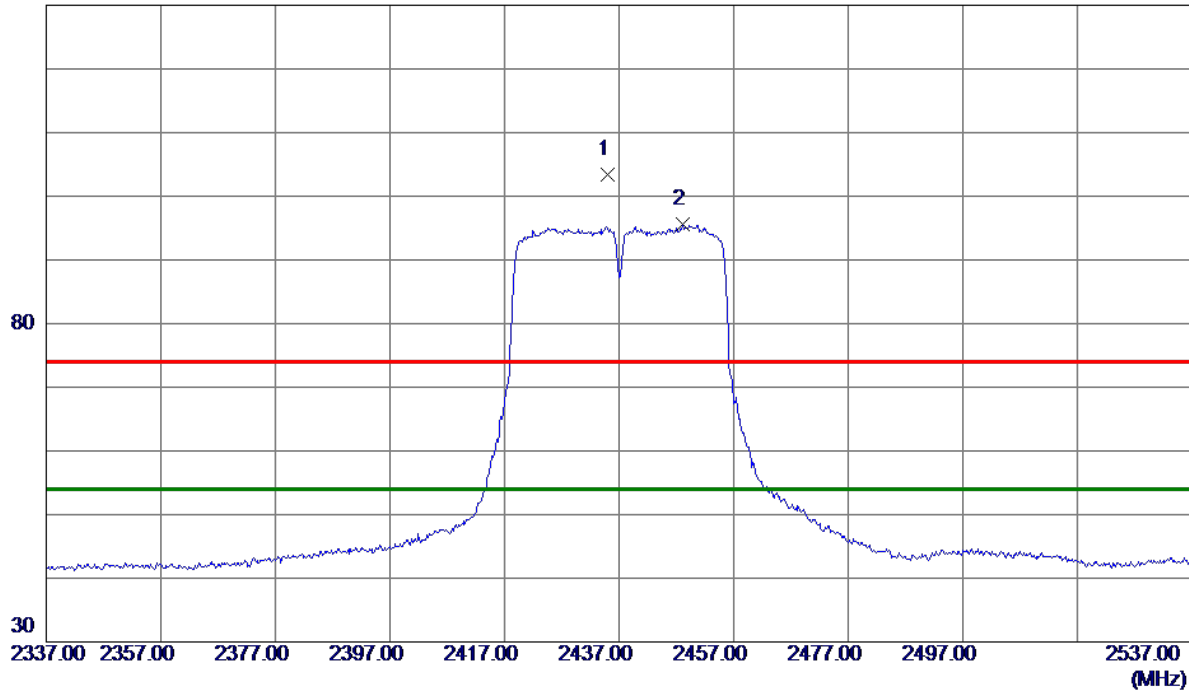
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4842.9400	30.47	3.47	33.94	54.00	-20.06	AVG	
2	4843.9000	40.15	3.48	43.63	74.00	-30.37	Peak	

REMARKS:

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

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



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2435.0000	95.28	8.08	103.36	74.00	29.36	Peak	No Limit
2 *	2448.2000	87.45	8.09	95.54	54.00	41.54	AVG	No Limit

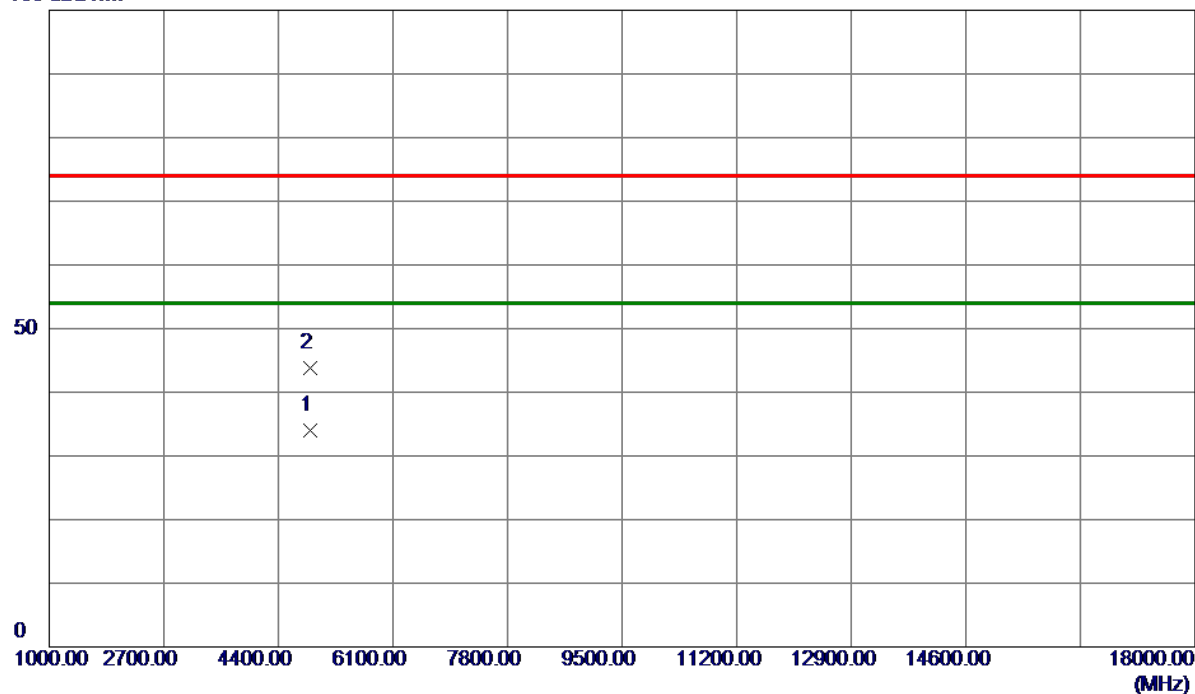
REMARKS:

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

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

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



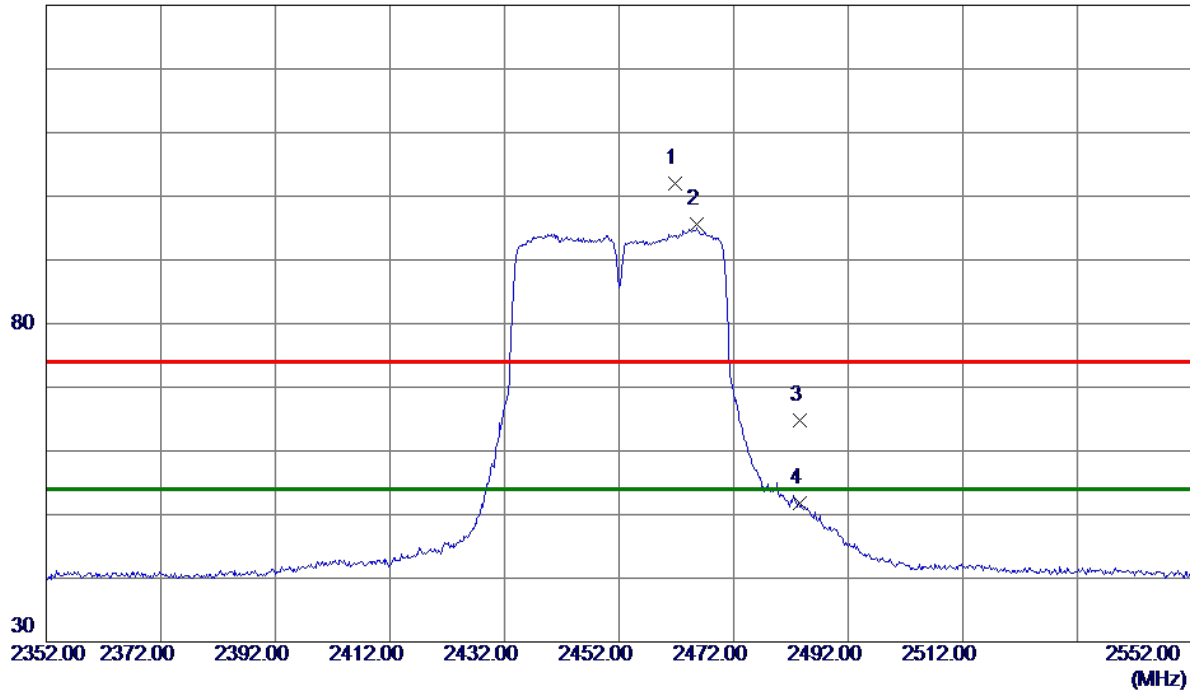
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4877.3900	30.49	3.59	34.08	54.00	-19.92	AVG	
2	4878.9200	40.12	3.60	43.72	74.00	-30.28	Peak	

REMARKS:

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

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



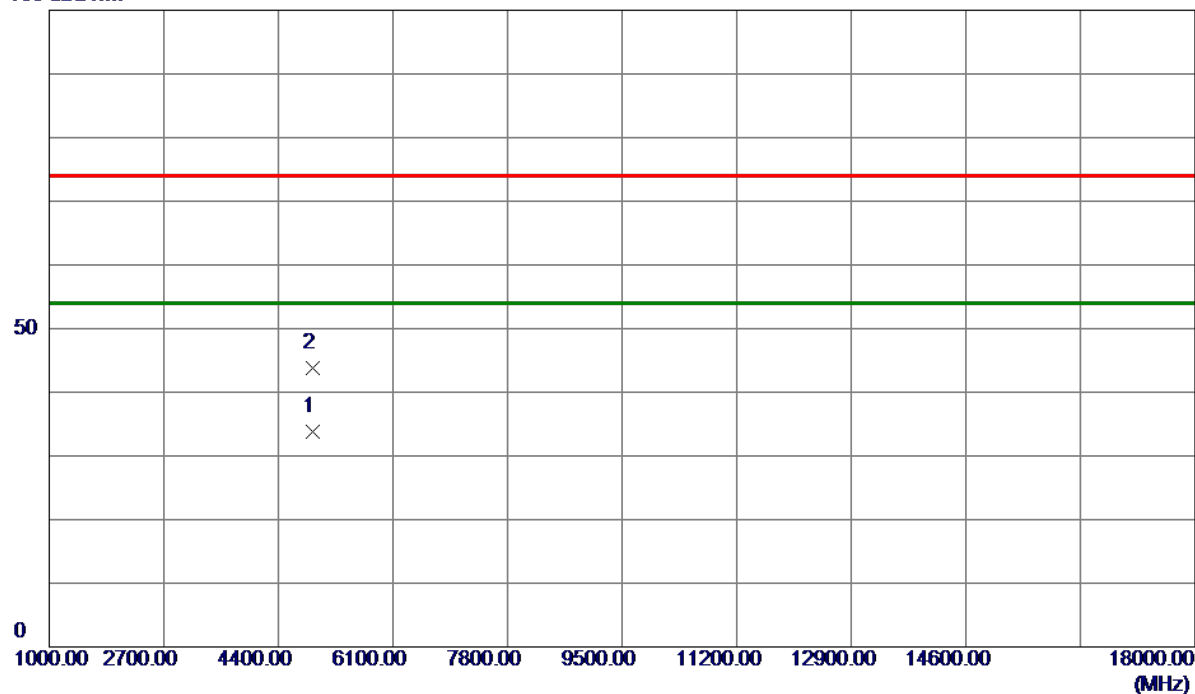
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2461.8000	93.99	8.10	102.09	74.00	28.09	Peak	No Limit
2 *	2465.6000	87.44	8.10	95.54	54.00	41.54	AVG	No Limit
3	2483.5000	56.61	8.11	64.72	74.00	-9.28	Peak	
4	2483.5000	43.68	8.11	51.79	54.00	-2.21	AVG	

REMARKS:

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

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



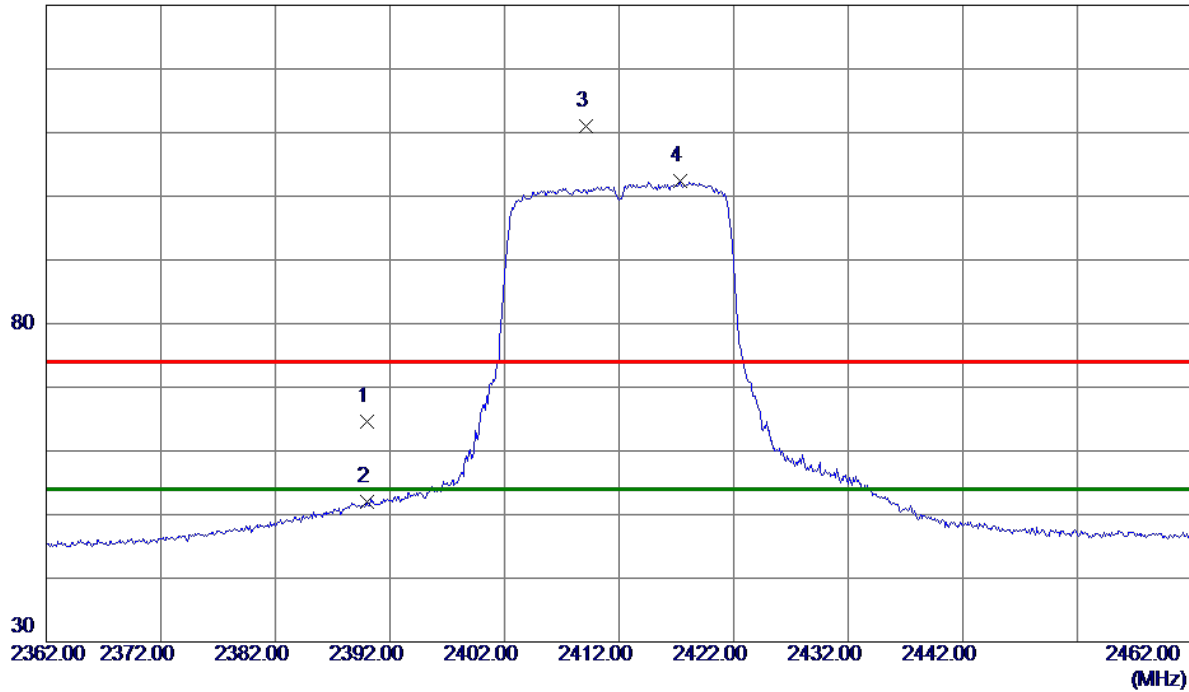
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4901.0500	30.03	3.68	33.71	54.00	-20.29	AVG	
2	4903.8400	40.11	3.69	43.80	74.00	-30.20	Peak	

REMARKS:

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

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



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	57.51	7.16	64.67	74.00	-9.33	Peak	
2	2390.0000	44.80	7.16	51.96	54.00	-2.04	AVG	
3	2409.1000	103.87	7.14	111.01	74.00	37.01	Peak	No Limit
4 *	2417.3000	95.31	7.14	102.45	54.00	48.45	AVG	No Limit

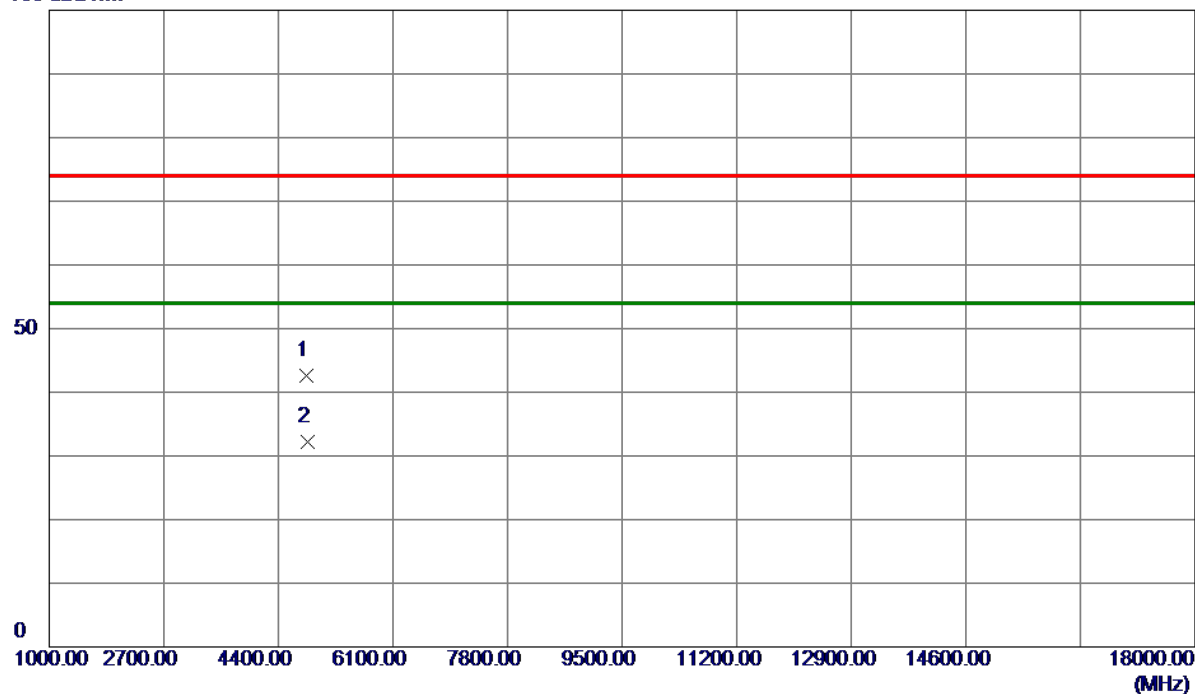
REMARKS:

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

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

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



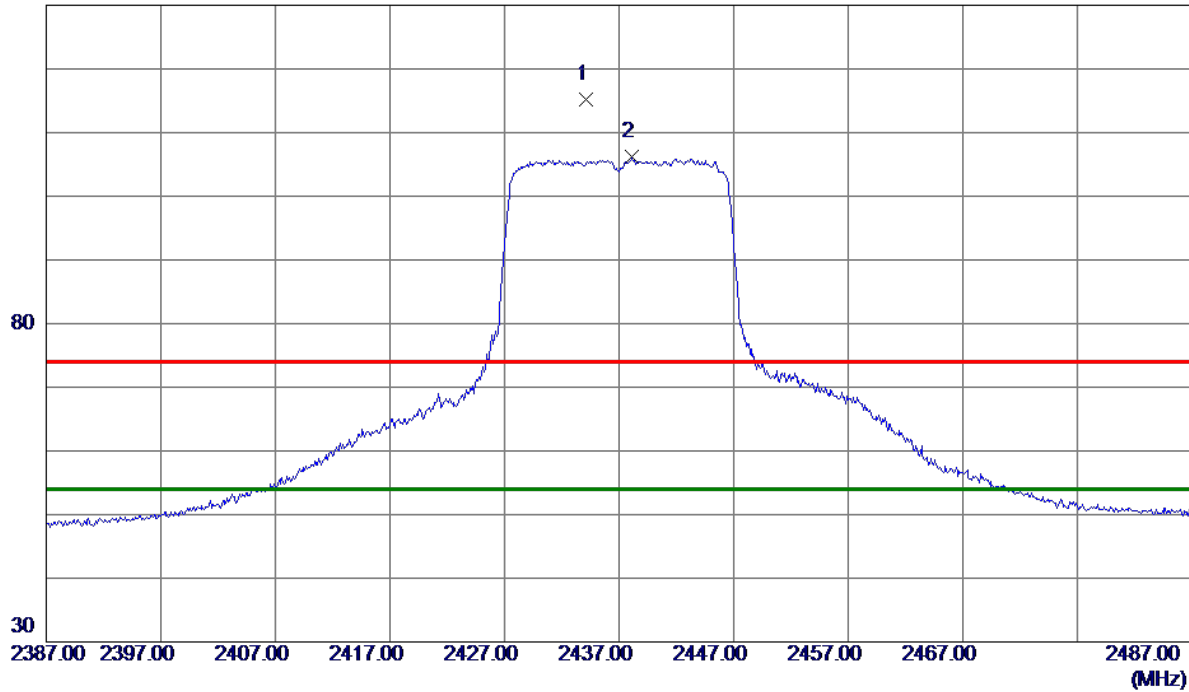
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4821.9300	39.91	2.70	42.61	74.00	-31.39	Peak	
2 *	4826.0050	29.42	2.71	32.13	54.00	-21.87	AVG	

REMARKS:

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

Test Mode	TX AX(HE20) Mode 2437 MHz	Polarization	Vertical
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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	2434.1000	108.11	7.13	115.24	74.00	41.24	Peak	No Limit
2 *	2438.1000	99.07	7.13	106.20	54.00	52.20	AVG	No Limit

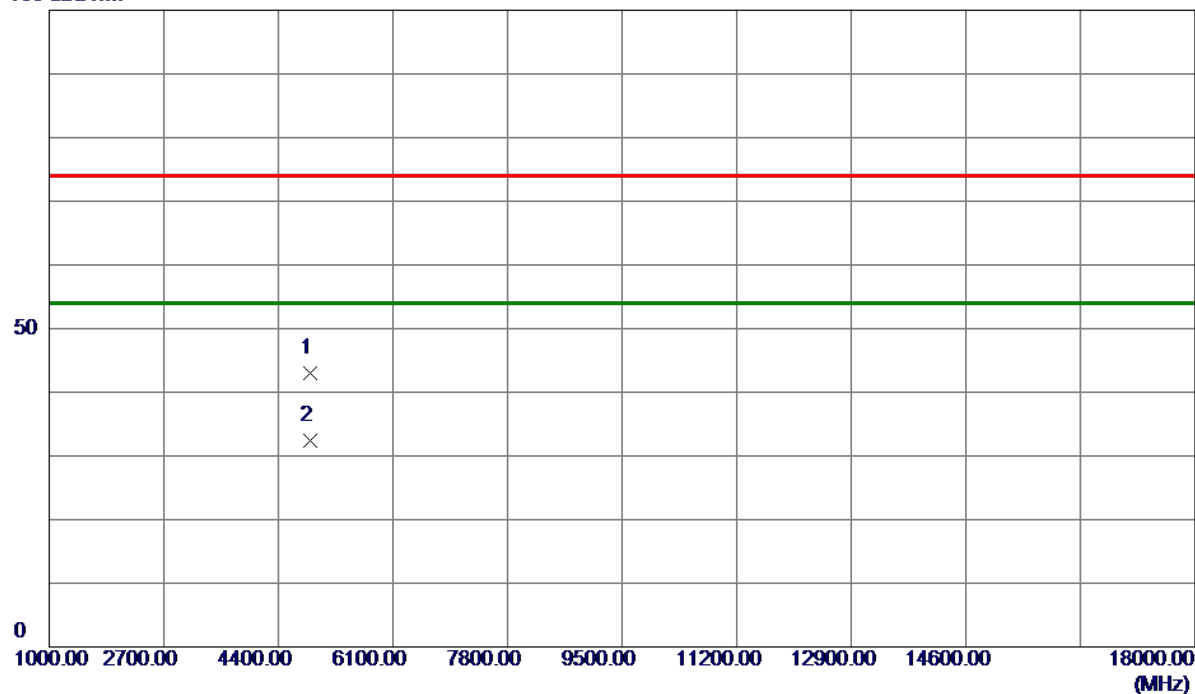
REMARKS:

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

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

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



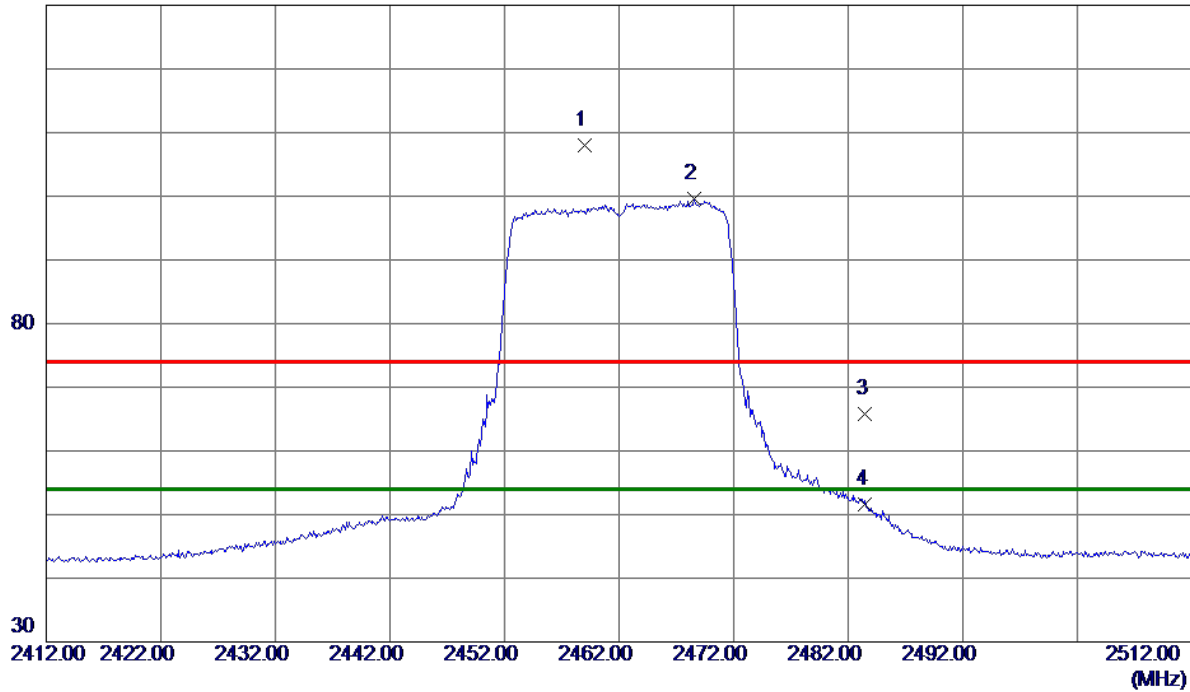
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4874.0700	40.10	2.87	42.97	74.00	-31.03	Peak	
2 *	4874.2050	29.62	2.87	32.49	54.00	-21.51	AVG	

REMARKS:

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

Test Mode	TX AX(HE20) Mode 2462 MHz	Polarization	Vertical
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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	2459.0000	100.88	7.11	107.99	74.00	33.99	Peak	No Limit
2 *	2468.6000	92.54	7.11	99.65	54.00	45.65	AVG	No Limit
3	2483.5000	58.64	7.10	65.74	74.00	-8.26	Peak	
4	2483.5000	44.48	7.10	51.58	54.00	-2.42	AVG	

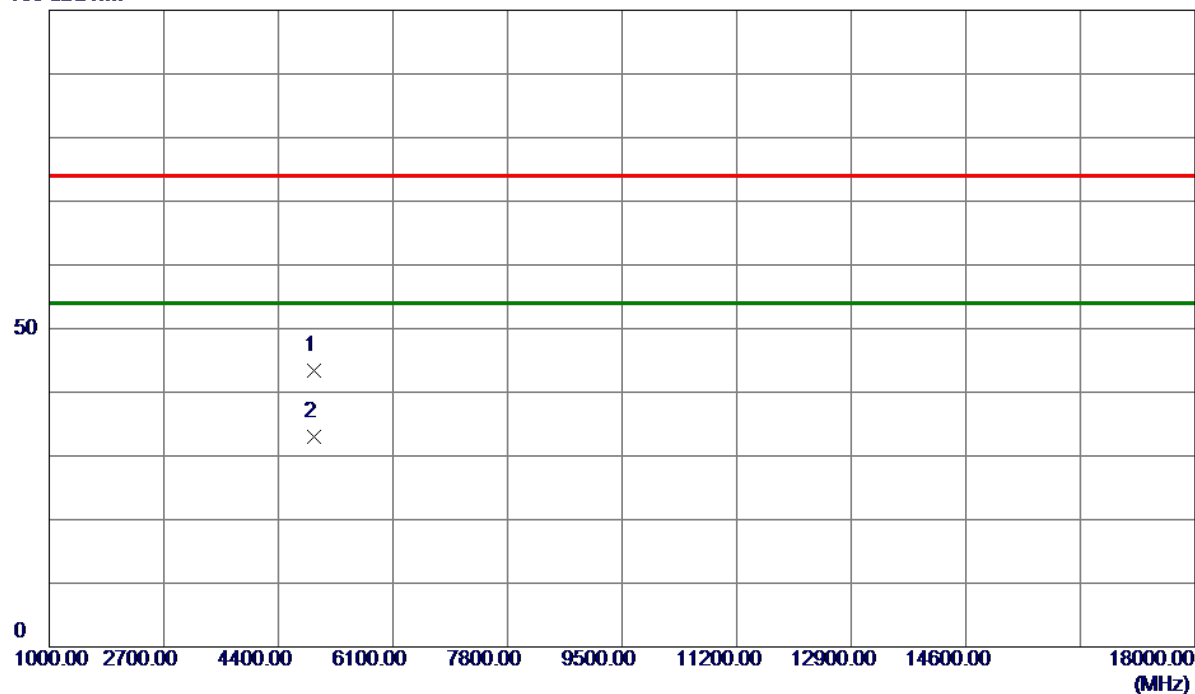
REMARKS:

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

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

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



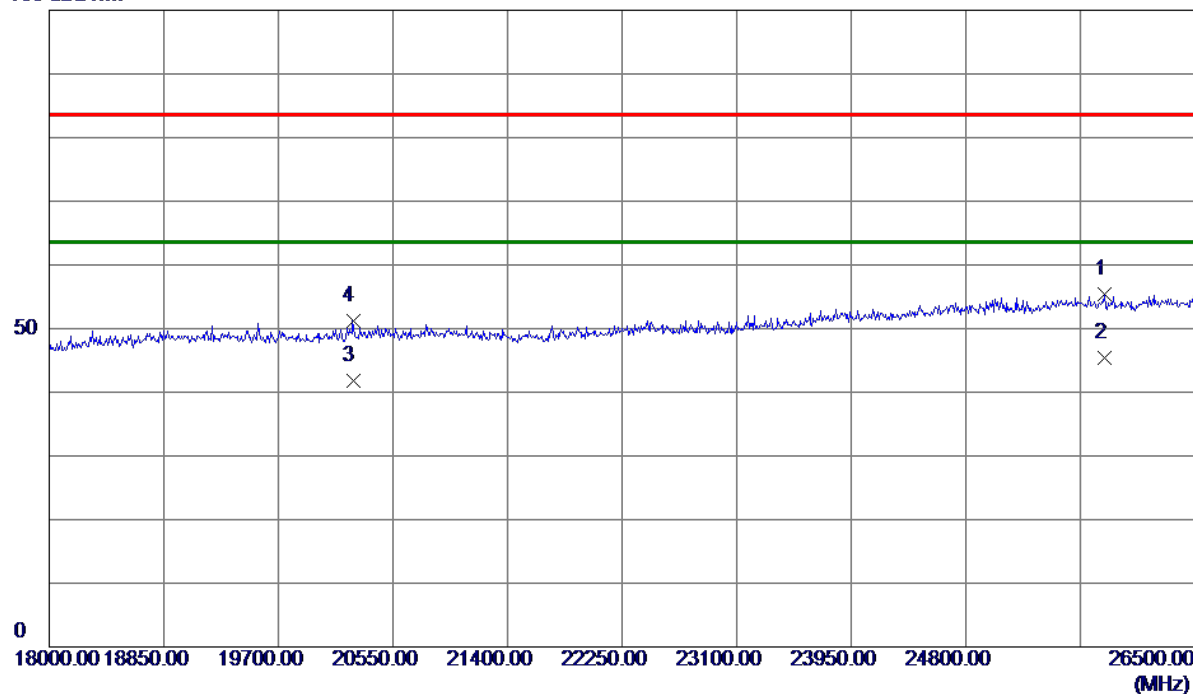
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4925.3800	40.39	3.04	43.43	74.00	-30.57	Peak	
2 *	4925.8900	29.97	3.04	33.01	54.00	-20.99	AVG	

REMARKS:

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

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



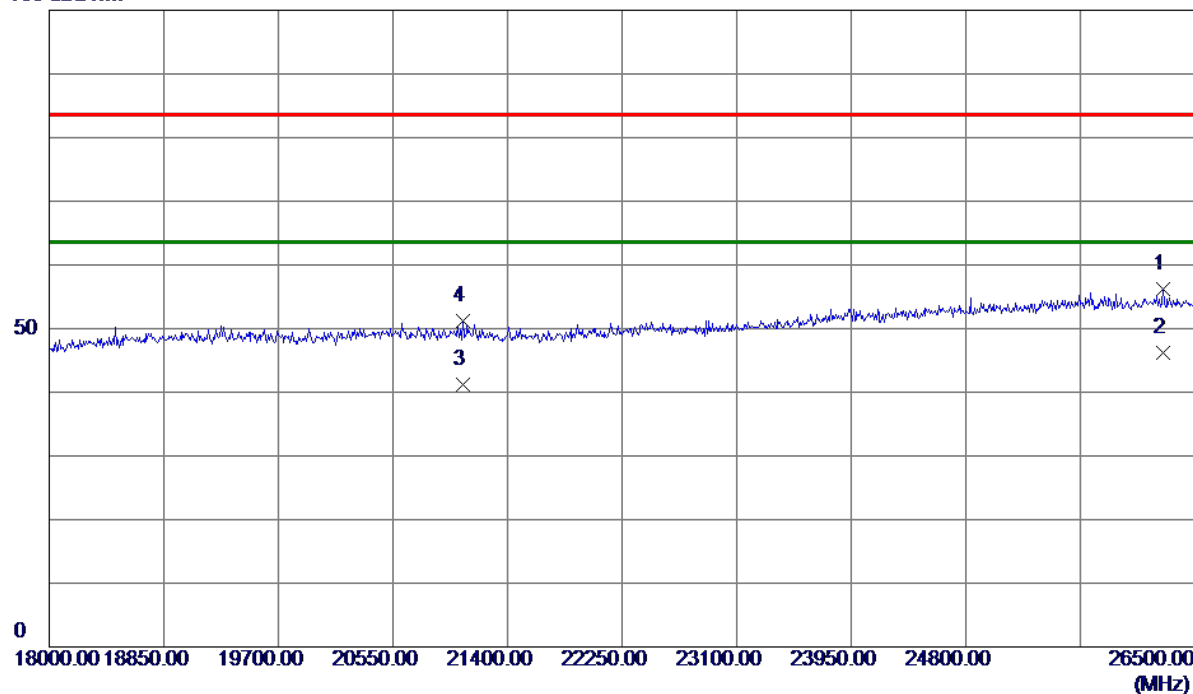
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	25828.5000	46.86	8.58	55.44	83.50	-28.06	Peak	
2 *	25828.5000	36.88	8.58	45.46	63.50	-18.04	AVG	
3	20252.5000	39.90	1.97	41.87	63.50	-21.63	AVG	
4	20252.5000	49.29	1.97	51.26	83.50	-32.24	Peak	

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



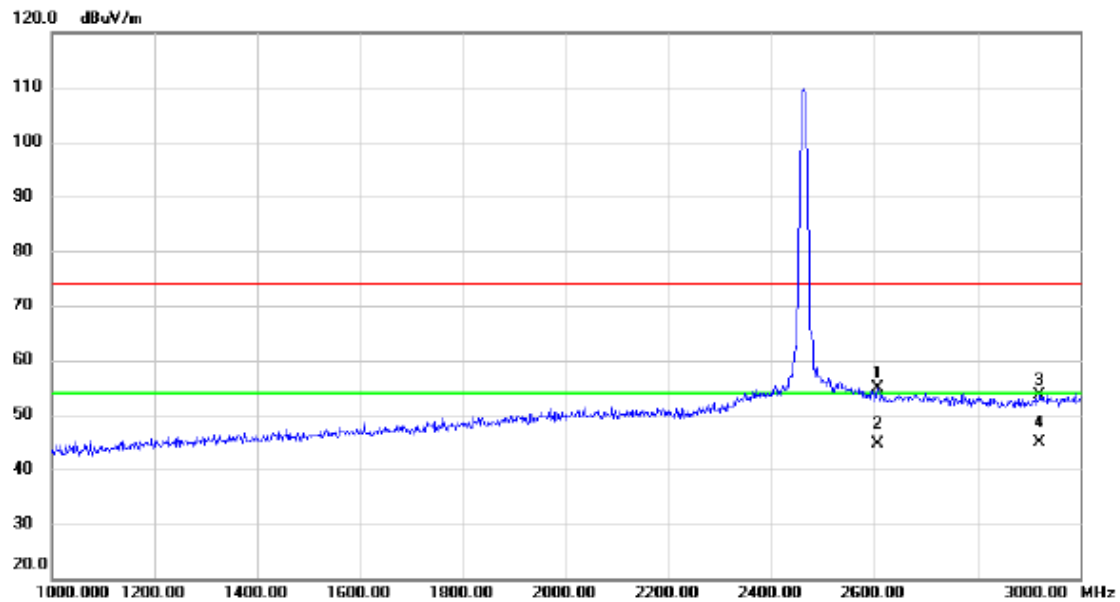
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	26262.0000	47.55	8.56	56.11	83.50	-27.39	Peak	
2 *	26262.0000	37.57	8.56	46.13	63.50	-17.37	AVG	
3	21068.5000	38.63	2.58	41.21	63.50	-22.29	AVG	
4	21068.5000	48.59	2.58	51.17	83.50	-32.33	Peak	

REMARKS:

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

Worst case:

Test Mode	TX B Mode 2462 MHz	Polarization	Vertical
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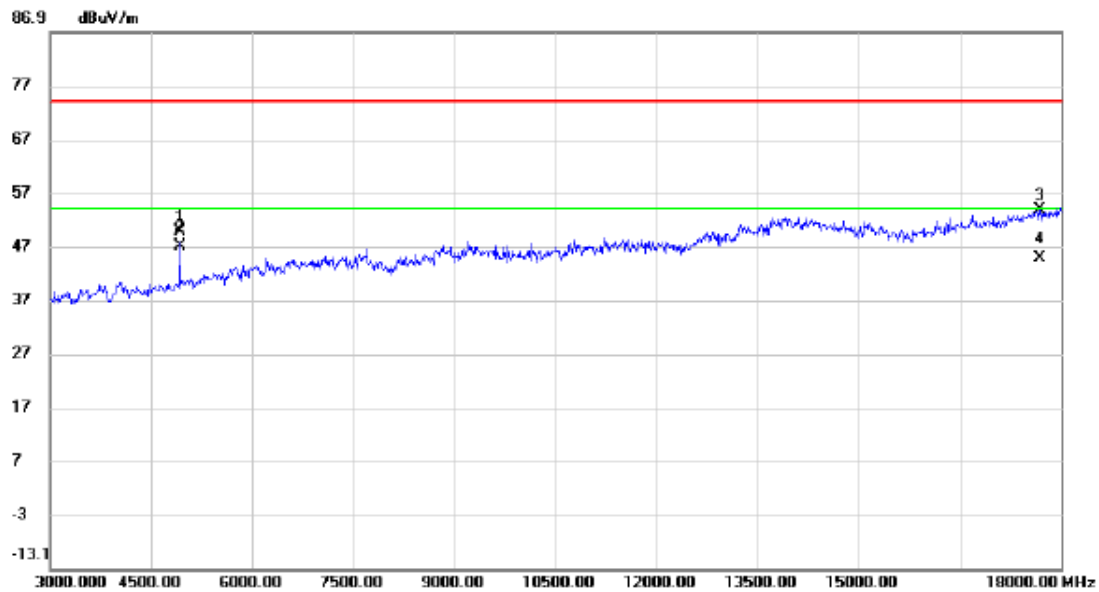
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2606.000	46.22	8.62	54.84	74.00	-19.16	peak	
2		2606.000	35.98	8.62	44.60	54.00	-9.40	AVG	
3		2922.000	43.56	10.11	53.67	74.00	-20.33	peak	
4 *		2922.000	34.72	10.11	44.83	54.00	-9.17	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.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4923.960	45.92	3.76	49.68	74.00	-24.32	peak	
2	*	4923.990	43.34	3.76	47.10	54.00	-6.90	AVG	
3		17685.000	38.06	15.60	53.66	74.00	-20.34	peak	
4		17685.000	29.16	15.60	44.76	54.00	-9.24	AVG	

REMARKS:

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

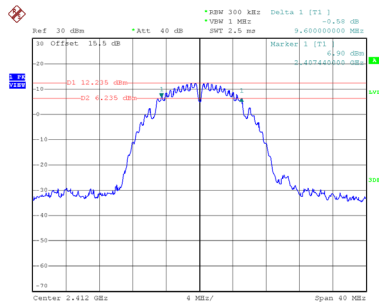
(2) Margin Level = Measurement Value - Limit Value.

APPENDIX E - BANDWIDTH

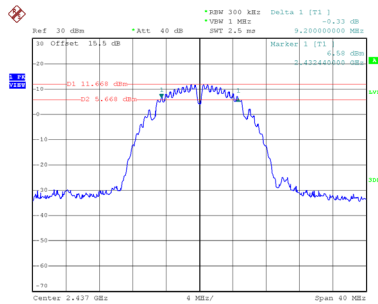
Test Mode	TX B Mode
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Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	9.600	13.120	0.5	Pass
06	2437	9.200	13.120	0.5	Pass
11	2462	9.600	13.120	0.5	Pass

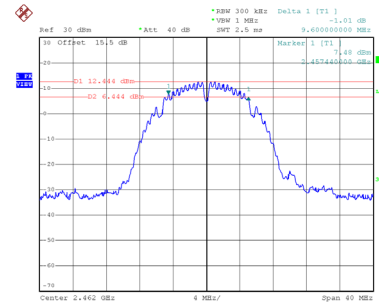
CH01



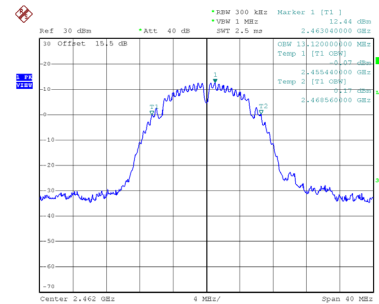
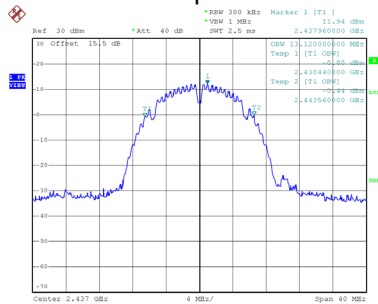
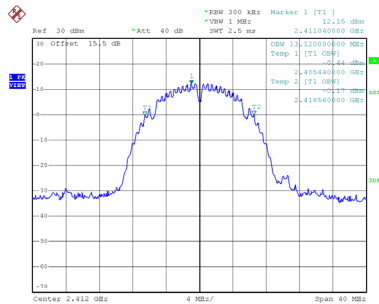
CH06
6 dB Bandwidth



CH11



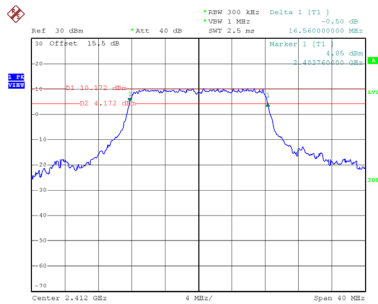
99 % Occupied Bandwidth



Test Mode	TX G Mode
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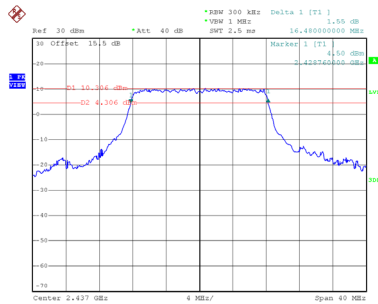
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	16.560	17.200	0.5	Pass
06	2437	16.480	17.200	0.5	Pass
11	2462	16.560	17.440	0.5	Pass

CH01



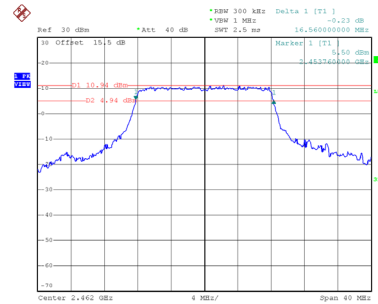
Date: 22.MAY.2026 13:17:35

CH06
6 dB Bandwidth



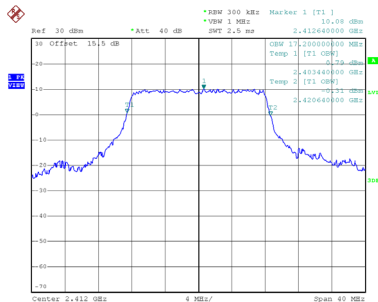
Date: 22.MAY.2026 13:42:38

CH11

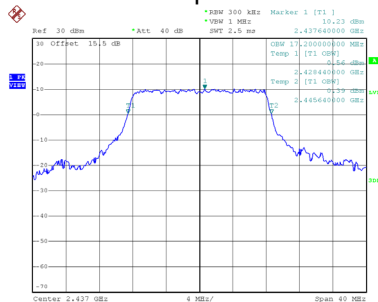


Date: 22.MAY.2026 13:45:09

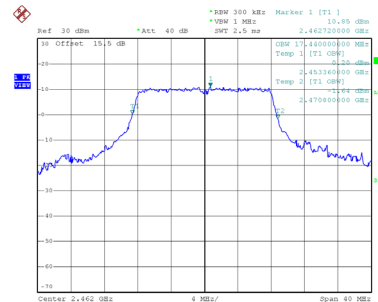
99 % Occupied Bandwidth



Date: 22.MAY.2026 13:17:48



Date: 22.MAY.2026 13:42:50

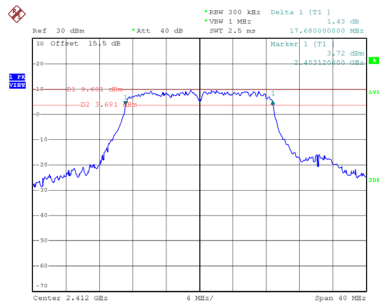


Date: 22.MAY.2026 13:45:22

Test Mode	TX N(HT20) Mode
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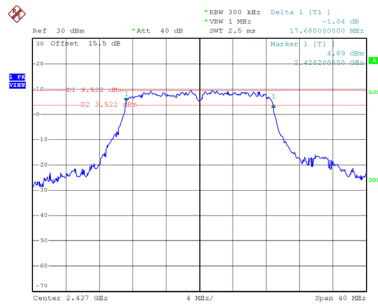
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	17.680	18.080	0.5	Pass
06	2437	17.680	18.080	0.5	Pass
11	2462	17.680	18.160	0.5	Pass

CH01



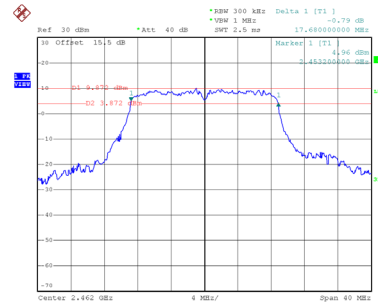
Date: 22.MAY.2026 13:48:14

CH06
6 dB Bandwidth



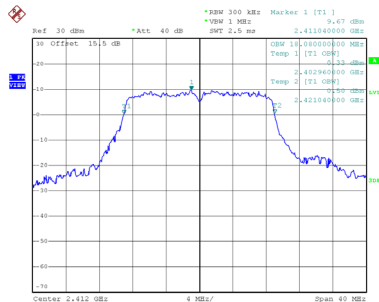
Date: 22.MAY.2026 13:50:51

CH11

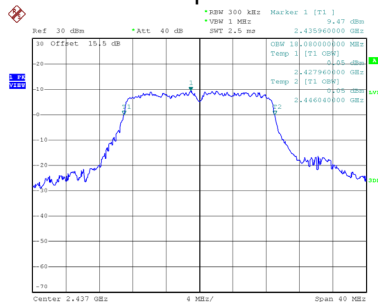


Date: 22.MAY.2026 14:03:11

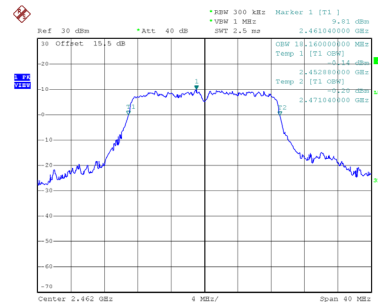
99 % Occupied Bandwidth



Date: 22.MAY.2026 13:48:26



Date: 22.MAY.2026 13:51:04

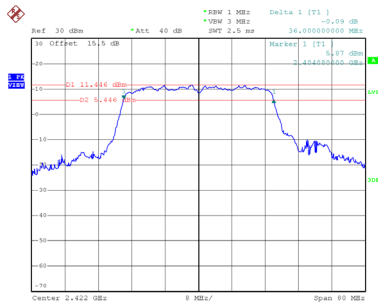


Date: 22.MAY.2026 14:03:24

Test Mode	TX N(HT40) Mode
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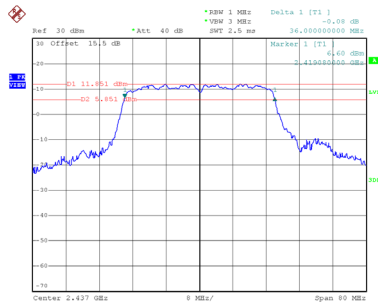
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
03	2422	36.000	37.120	0.5	Pass
06	2437	36.000	36.960	0.5	Pass
09	2452	36.160	37.120	0.5	Pass

CH03



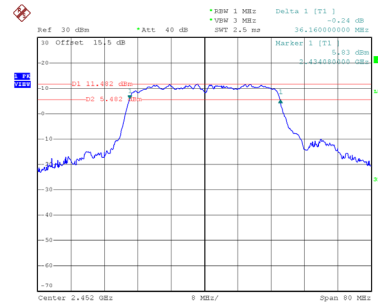
Date: 22.MAY.2026 14:47:27

CH06
6 dB Bandwidth



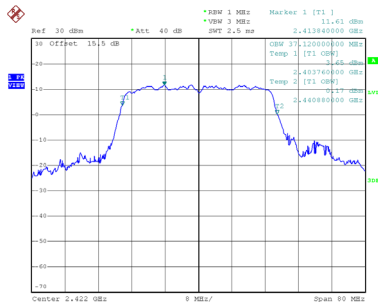
Date: 22.MAY.2026 14:51:15

CH09

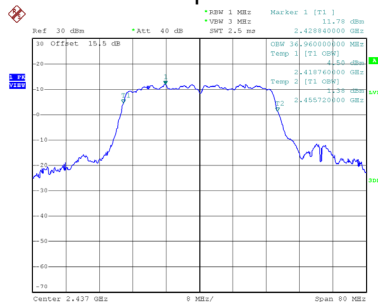


Date: 22.MAY.2026 14:56:57

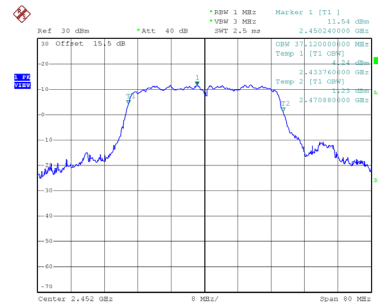
99 % Occupied Bandwidth



Date: 22.MAY.2026 14:47:39



Date: 22.MAY.2026 14:51:28

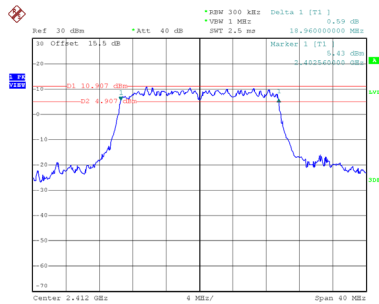


Date: 22.MAY.2026 14:57:10

Test Mode	TX AX(HE20) Mode
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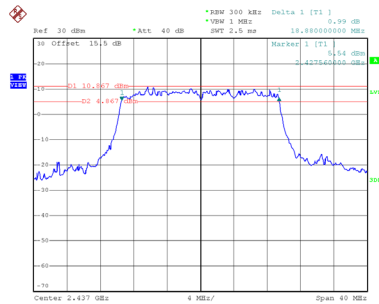
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	18.960	19.200	0.5	Pass
06	2437	18.880	19.200	0.5	Pass
11	2462	18.880	19.280	0.5	Pass

CH01



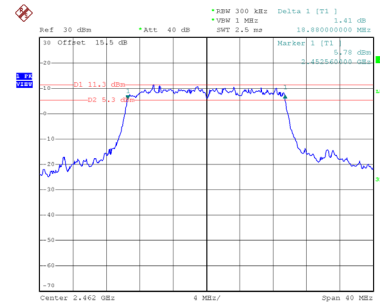
Date: 13.JUN.2026 09:06:16

CH06
6 dB Bandwidth



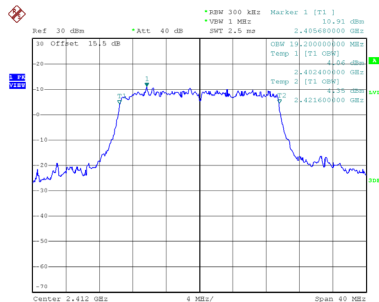
Date: 13.JUN.2026 09:08:00

CH11

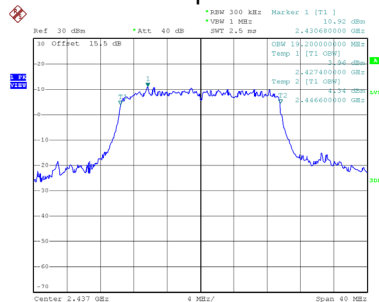


Date: 13.JUN.2026 09:11:25

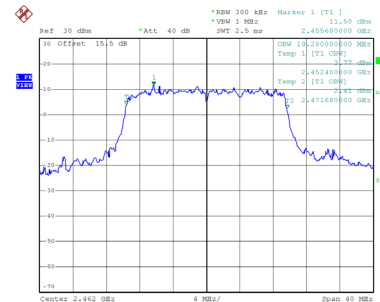
99 % Occupied Bandwidth



Date: 13.JUN.2026 09:06:28



Date: 13.JUN.2026 09:08:12



Date: 13.JUN.2026 09:11:37

APPENDIX F - MAXIMUM OUTPUT POWER

Test Mode	TX B Mode_Ant 1
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Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor (dB)	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	20.19	0.37	20.56	30.00	1.0000	Pass
06	2437	20.52	0.37	20.89	30.00	1.0000	Pass
11	2462	20.65	0.37	21.02	30.00	1.0000	Pass

Test Mode	TX G Mode_Ant 1
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Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor (dB)	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	19.15	0.30	19.45	30.00	1.0000	Pass
06	2437	19.49	0.30	19.79	30.00	1.0000	Pass
11	2462	19.64	0.30	19.94	30.00	1.0000	Pass

Test Mode	TX N(HT20) Mode_Ant 1
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Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor (dB)	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	17.78	0.31	18.09	30.00	1.0000	Pass
06	2437	17.93	0.31	18.24	30.00	1.0000	Pass
11	2462	18.11	0.31	18.42	30.00	1.0000	Pass

Test Mode	TX N(HT40) Mode_Ant 1
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Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor (dB)	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	17.06	0.58	17.64	30.00	1.0000	Pass
06	2437	17.09	0.58	17.67	30.00	1.0000	Pass
09	2452	17.19	0.58	17.77	30.00	1.0000	Pass

Test Mode	TX AX(HE20) Mode_Ant 1
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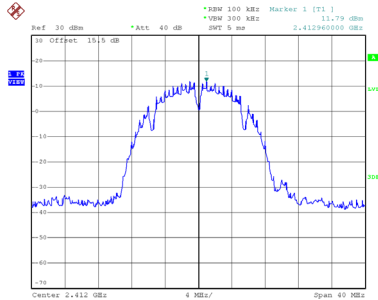
Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor (dB)	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	11.94	0.30	12.24	30.00	1.0000	Pass
06	2437	17.12	0.30	17.42	30.00	1.0000	Pass
11	2462	11.38	0.30	11.68	30.00	1.0000	Pass

Note: Output power = Measure result + Cable loss

APPENDIX G - CONDUCTED SPURIOUS EMISSIONS

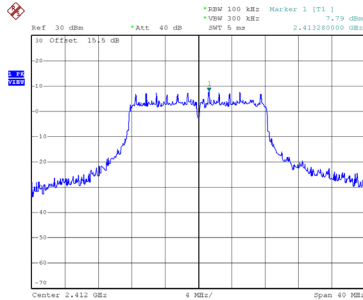
Test Mode TX B Mode_Ant. 1

Reference Level-CH01



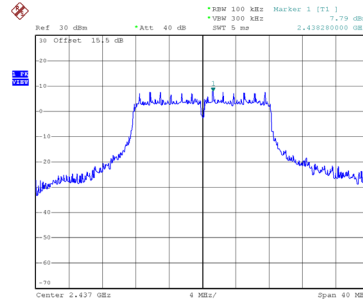
Test Mode TX G Mode_Ant. 1

Reference Level-CH01



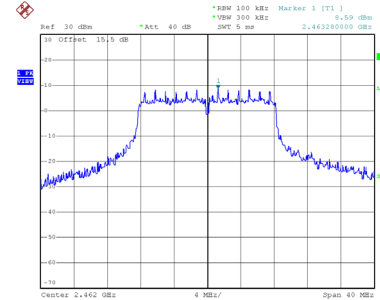
Date: 22.MAY.2026 13:18:11

Reference Level-CH06



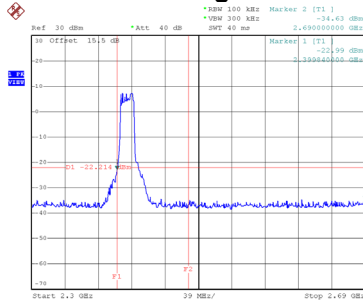
Date: 22.MAY.2026 13:43:14

Reference Level-CH11



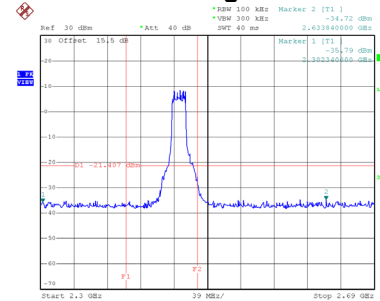
Date: 22.MAY.2026 13:45:45

Bandedge-CH01



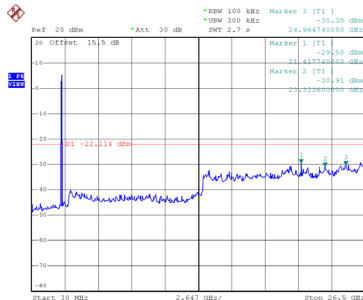
Date: 22.MAY.2026 13:18:24

Bandedge-CH11



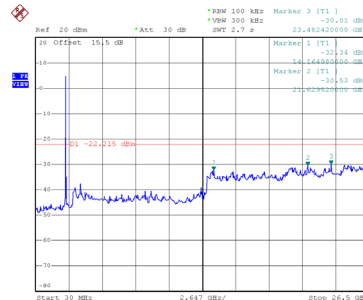
Date: 22.MAY.2026 13:45:58

Harmonic-CH01



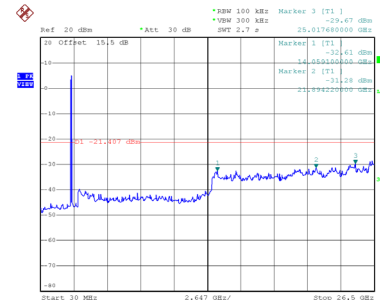
Date: 22.MAY.2026 13:18:37

Harmonic-CH06



Date: 22.MAY.2026 13:43:39

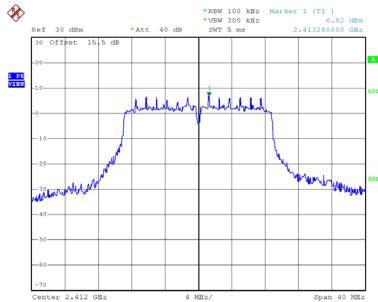
Harmonic-CH11



Date: 22.MAY.2026 13:46:11

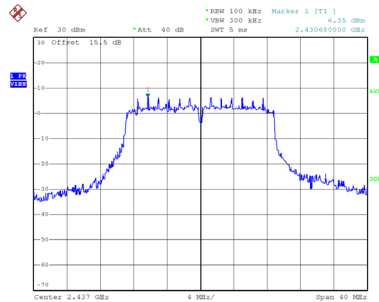
Test Mode	TX N(HT20) Mode_Ant. 1
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Reference Level-CH01



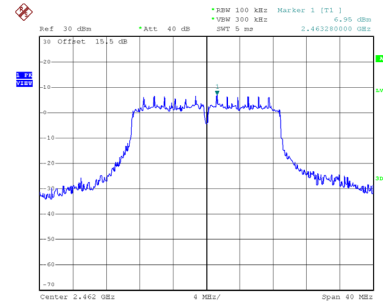
Date: 22.MAY.2026 13:48:49

Reference Level-CH06



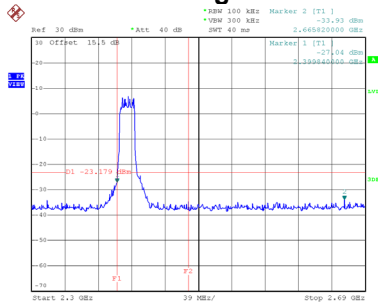
Date: 22.MAY.2026 13:51:27

Reference Level-CH11



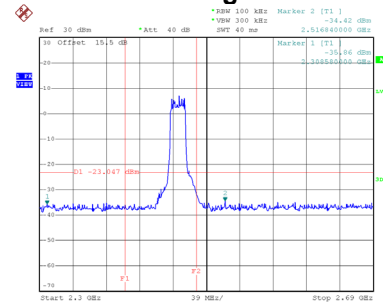
Date: 22.MAY.2026 14:03:47

Bandedge-CH01



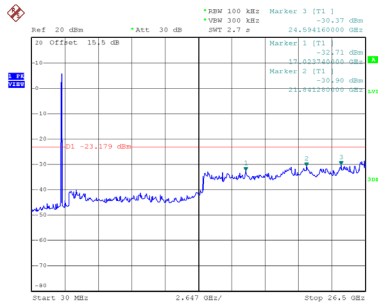
Date: 22.MAY.2026 13:49:02

Bandedge-CH11



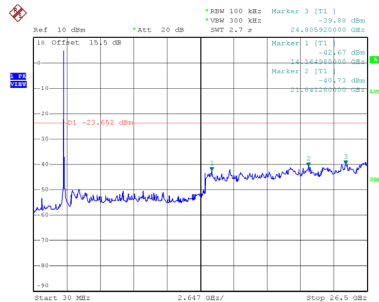
Date: 22.MAY.2026 14:04:00

Harmonic-CH01



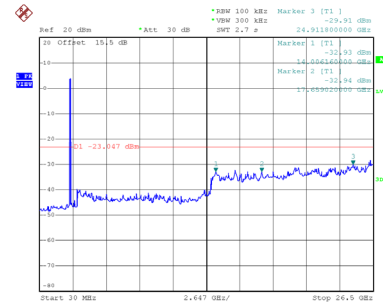
Date: 22.MAY.2026 13:49:15

Harmonic-CH06



Date: 22.MAY.2026 14:02:30

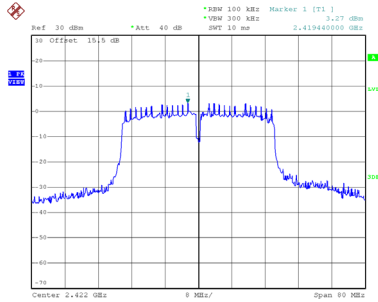
Harmonic-CH11



Date: 22.MAY.2026 14:04:13

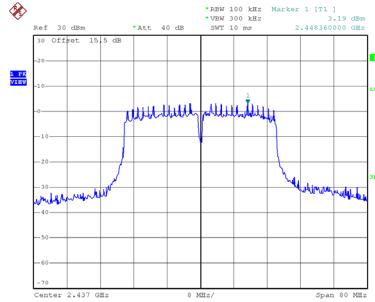
Test Mode TX N(HT40) Mode_Ant. 1

Reference Level-CH03



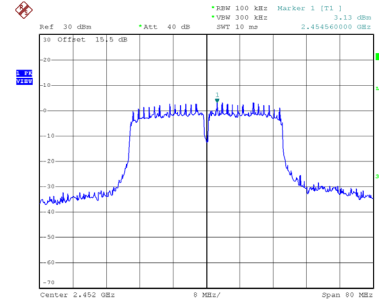
Date: 22.MAY.2026 14:48:08

Reference Level-CH06



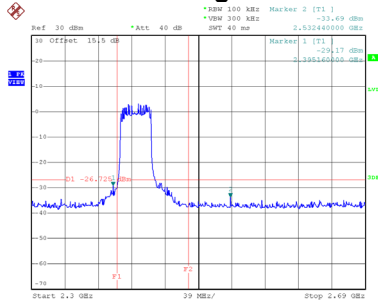
Date: 22.MAY.2026 14:55:03

Reference Level-CH09



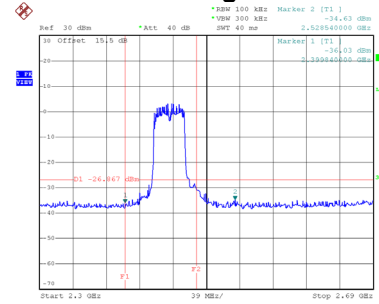
Date: 22.MAY.2026 14:57:38

Bandedge-CH03



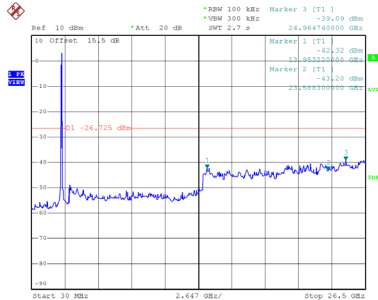
Date: 22.MAY.2026 14:48:20

Bandedge-CH09



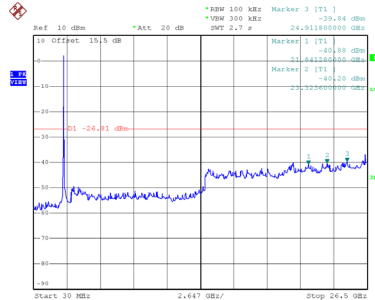
Date: 22.MAY.2026 14:57:51

Harmonic-CH03



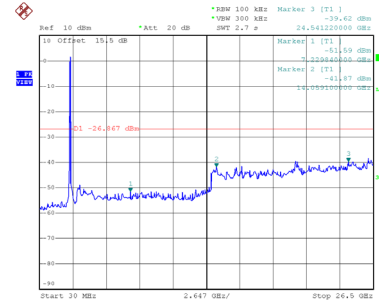
Date: 22.MAY.2026 14:50:50

Harmonic-CH06



Date: 22.MAY.2026 14:56:34

Harmonic-CH09



Date: 22.MAY.2026 14:58:03