



FCC Radio Test Report

FCC ID: 2BCGWEAP650DT

This report concerns: Original Grant

Project No. : 2407G075
Equipment : AX3000 Desktop Wi-Fi 6 Access Point
Brand Name : tp-link
Test Model : EAP650-Desktop
Series Model : N/A
Applicant : TP-LINK CORPORATION PTE. LTD.
Address : 7 Temasek Boulevard #29-03 Suntec Tower One, Singapore 038987
Manufacturer : TP-LINK CORPORATION PTE. LTD.
Address : 7 Temasek Boulevard #29-03 Suntec Tower One, Singapore 038987
Date of Receipt : Jul. 22, 2024
Date of Test : Jul. 22, 2024 ~ Oct. 12, 2024
Issued Date : Oct. 25, 2024
Report Version : R00
Test Sample : Engineering Sample No.: SSL20240722106 & SSL20240722105 for conducted, SSL2024072982 for others.
Standard(s) : FCC CFR Title 47, Part 15, Subpart C

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

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Declaration

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

Limitation

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

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

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REPORT ISSUED HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-2-2407G075	R00	Original Report.	Oct. 25, 2024	Valid

1. APPLICABLE STANDARDS

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

ANSI C63.10-2013

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

KDB 558074 D01 15.247 Meas Guidance v05r02

KDB 662911 D01 Multiple Transmitter Output v02r01

2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

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

Note:

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

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

2.1 TEST FACILITY

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

BTL's Registration Number for FCC: 747969

BTL's Designation Number for FCC: CN1377

2.2 MEASUREMENT UNCERTAINTY

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

The BTL measurement uncertainty as below table:

A. AC power line conducted emissions test:

Test Site	Method	Measurement Frequency Range	U,(dB)
DG-C02	CISPR	150kHz ~ 30MHz	2.88

B. Radiated emissions test:

Test Site	Method	Measurement Frequency Range	U,(dB)
DG-CB01	CISPR	9kHz ~ 30MHz	2.36

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

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

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

C. Other Measurement:

Test Item	Uncertainty
Bandwidth	0.90 %
Maximum Output Power	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	26°C	50%	AC 120V/60Hz	Hayden Chen	Oct. 10, 2024
Radiated Emissions-9kHz to 30 MHz	24°C	48%	AC 120V/60Hz	Hayden Chen	Jul. 24, 2024
Radiated Emissions-30MHz to 1000MHz	24°C	42%	AC 120V/60Hz	Chen Mo	Oct. 11, 2024
Radiated Emissions-Above 1000MHz	22°C	58%	AC 120V/60Hz	Jensen Zhou	Aug. 03, 2024
	24°C	55%	AC 120V/60Hz	Allen Tong	Aug. 04, 2024
Bandwidth	21-22°C	47-58%	AC 120V/60Hz	Arvin Tong	Aug. 01, 2024-Sep. 12, 2024
Maximum Output Power	23°C	48%	AC 120V/60Hz	Steve Zhou	Jul. 25, 2024-Aug. 21, 2024
Conducted Spurious Emissions	21-22°C	47-58%	AC 120V/60Hz	Arvin Tong	Aug. 01, 2024-Sep. 12, 2024
Power Spectral Density	21-22°C	47-58%	AC 120V/60Hz	Arvin Tong	Aug. 01, 2024-Sep. 12, 2024

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	AX3000 Desktop Wi-Fi 6 Access Point
Brand Name	tp-link
Test Model	EAP650-Desktop
Series Model	N/A
Model Difference(s)	N/A
Hardware Version	V1
Software Version	V1
Power Source	1# DC voltage supplied from AC adapter. Model: T120150-2B4 2# DC voltage supplied from PoE adapter(Support Unit).
Power Rating	1# Input: 100-240V~ 50/60Hz 0.6A Output: 12.0V===1.5A 2# PoE: 42.5-57V===1.2A 802.3at/bt
Operation Frequency	2412 MHz ~ 2462 MHz
Modulation Type	IEEE 802.11b: DSSS IEEE 802.11g: OFDM IEEE 802.11n: OFDM IEEE 802.11ax: OFDMA
Bit Rate of Transmitter	IEEE 802.11b: 11/5.5/2/1 Mbps IEEE 802.11g: 54/48/36/24/18/12/9/6 Mbps IEEE 802.11n: up to 300 Mbps IEEE 802.11ax: up to 573.6 Mbps
Maximum Output Power _Non Beamforming	IEEE 802.11ax(HE20): 26.71 dBm (0.4688 W)
Maximum Output Power _Beamforming	IEEE 802.11ax(HE20): 26.25 dBm (0.4217 W)

Note:

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

2. Channel List:

CH01 - CH11 for IEEE 802.11b, IEEE 802.11g, IEEE 802.11n(HT20), IEEE 802.11ax(HE20)							
CH03 - CH09 for IEEE 802.11n(HT40), IEEE 802.11ax(HE40)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	04	2427	07	2442	10	2457
02	2417	05	2432	08	2447	11	2462
03	2422	06	2437	09	2452		

3. Antenna Specification:

Ant.	Manufacturer	P/N	Antenna Type	Connector	Gain (dBi)
1	TP-LINK CORPORATION PTE. LTD.	EAP650-Desktop-Ant1	Dipole	N/A	3
2	TP-LINK CORPORATION PTE. LTD.	EAP650-Desktop-Ant2	Dipole	N/A	3

Note:

- This EUT supports CDD, and all antennas have the same gain, Directional gain = $G_{ANT} + \text{Array Gain}$.
For power measurements, Array Gain=0dB ($N_{ANT} \leq 4$), so the Directional gain=3.
For power spectral density measurements, $N_{ANT}=2$, $N_{SS} = 1$.
So the Directional gain= $G_{ANT} + \text{Array Gain} = G_{ANT} + 10\log(N_{ANT}/N_{SS})\text{dBi} = 3 + 10\log(2/1)\text{dBi} = 6.01$.
Then, the power spectral density limit is $8 - (6.01 - 6) = 7.99$.
- Beamforming Gain: 3 dB. So Beamforming Directional gain = $3 + 3 = 6$.

4. Table for Antenna Configuration:

Non Beamforming:

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

Beamforming:

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

3.2 DESCRIPTION OF TEST MODES

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

Pretest Mode	Description
Mode 1	TX B Mode Channel 01/06/11
Mode 2	TX G Mode Channel 01/06/11
Mode 3	TX N(HT20) Mode Channel 01/06/11
Mode 4	TX N(HT40) Mode Channel 03/06/09
Mode 5	TX AX(HE20) Mode Channel 01/06/11
Mode 6	TX AX(HE40) Mode Channel 03/06/09
Mode 7	TX AX(HE20) Mode Channel 06

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

AC power line conducted emissions test	
Final Test Mode	Description
Mode 7	TX AX(HE20) Mode Channel 06

Radiated emissions test - Below 1GHz	
Final Test Mode	Description
Mode 7	TX AX(HE20) Mode Channel 06

Radiated emissions test- Above 1GHz	
Final Test Mode	Description
Mode 1	TX B Mode Channel 01/06/11
Mode 2	TX G Mode Channel 01/06/11
Mode 3	TX N(HT20) Mode Channel 01/06/11
Mode 4	TX N(HT40) Mode Channel 03/06/09
Mode 5	TX AX(HE20) Mode Channel 01/06/11
Mode 6	TX AX(HE40) Mode Channel 03/06/09

Maximum Output Power test_Non Beamforming	
Final Test Mode	Description
Mode 1	TX B Mode Channel 01/06/11
Mode 2	TX G Mode Channel 01/06/11
Mode 3	TX N(HT20) Mode Channel 01/06/11
Mode 4	TX N(HT40) Mode Channel 03/06/09
Mode 5	TX AX(HE20) Mode Channel 01/06/11
Mode 6	TX AX(HE40) Mode Channel 03/06/09

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

Other Conducted test_Non Beamforming	
Final Test Mode	Description
Mode 1	TX B Mode Channel 01/06/11
Mode 2	TX G Mode Channel 01/06/11
Mode 3	TX N(HT20) Mode Channel 01/06/11
Mode 4	TX N(HT40) Mode Channel 03/06/09
Mode 5	TX AX(HE20) Mode Channel 01/06/11
Mode 6	TX AX(HE40) Mode Channel 03/06/09

NOTE:

- (1) All the bit rate of transmitter have been tested and found the lowest rate is found to be the worst case and recorded.
- (2) For AC power line conducted emissions and radiated emission below 1 GHz test, the TX AX(HE20) Mode Channel 06 is found to be the worst case and recorded.
- (3) For radiated emission above 1 GHz test, the spurious points of 1GHz~26.5GHz have been pre-tested and in this report only recorded the worst case. The remaining spurious points are all below the limit value of 20dB.
- (4) For radiated emission Harmonic above 18 GHz test, only tested the worst case and recorded.
- (5) The measurements for Output Power are tested, the Non Beamforming and Beamforming are recorded in the report. The worst case is Non Beamforming and only the worst case is documented for other test items.
- (6) For radiated emission above 1GHz test, both Vertical and Horizontal are evaluated, only the worst case is recorded.

3.3 PARAMETERS OF TEST SOFTWARE

Non Beamforming

Test Software Version	QATool_Ulv2.78_DLLv6.83_ap_2021.11.05_Customer		
Frequency (MHz)	2412	2437	2462
IEEE 802.11b	19.5	18	19
IEEE 802.11g	19.5	19	19.5
IEEE 802.11n(HT20)	19.5	19	19.5
IEEE 802.11ax(HE20)	19.5	19	17
Frequency (MHz)	2422	2437	2452
IEEE 802.11n(HT40)	16	19	16.5
IEEE 802.11ax(HE40)	16	18.5	16

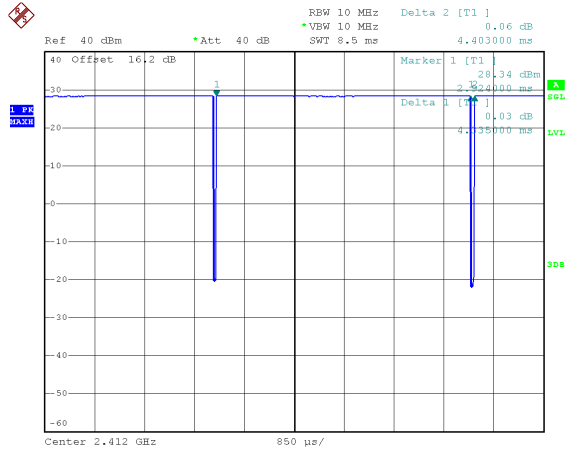
Beamforming

Test Software Version	QATool_Ulv2.78_DLLv6.83_ap_2021.11.05_Customer		
Frequency (MHz)	2412	2437	2462
IEEE 802.11n(HT20)	19	18.5	19
IEEE 802.11ax(HE20)	19	18.5	16.5
Frequency (MHz)	2422	2437	2452
IEEE 802.11n(HT40)	15.5	18.5	16
IEEE 802.11ax(HE40)	15.5	18	15.5

3.4 DUTY CYCLE

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

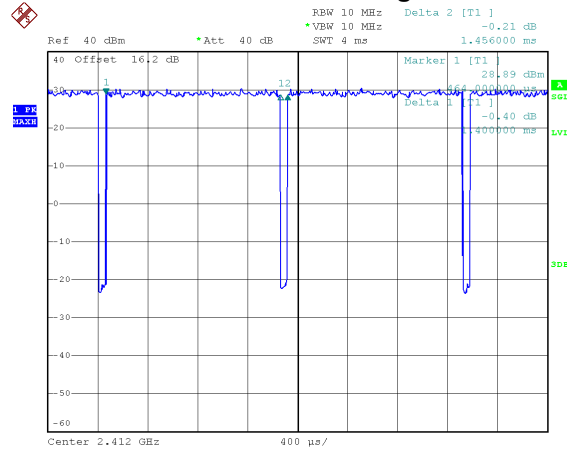
IEEE 802.11b



Date: 1.AUG.2024 17:19:00

Duty cycle = $4.335 \text{ ms} / 4.403 \text{ ms} = 98.46\%$
 Duty Factor = $10 \log(1/\text{Duty cycle}) = 0.00$

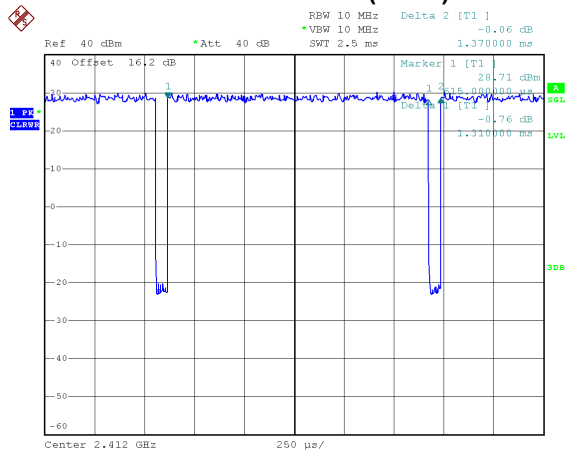
IEEE 802.11g



Date: 1.AUG.2024 17:19:42

Duty cycle = $1.400 \text{ ms} / 1.456 \text{ ms} = 96.15\%$
 Duty Factor = $10 \log(1/\text{Duty cycle}) = 0.17$

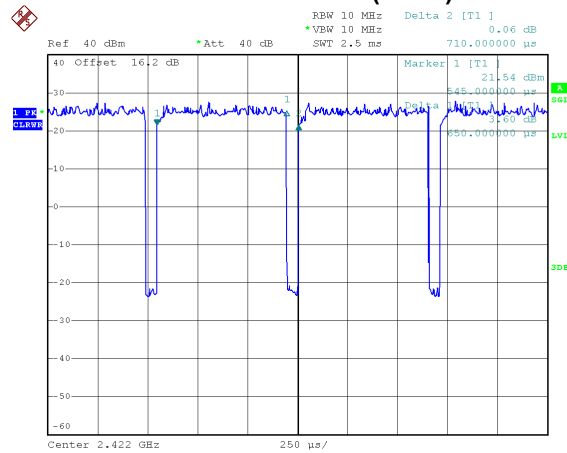
IEEE 802.11n(HT20)



Date: 1.AUG.2024 17:20:15

Duty cycle = $1.310 \text{ ms} / 1.370 \text{ ms} = 95.62\%$
 Duty Factor = $10 \log(1/\text{Duty cycle}) = 0.19$

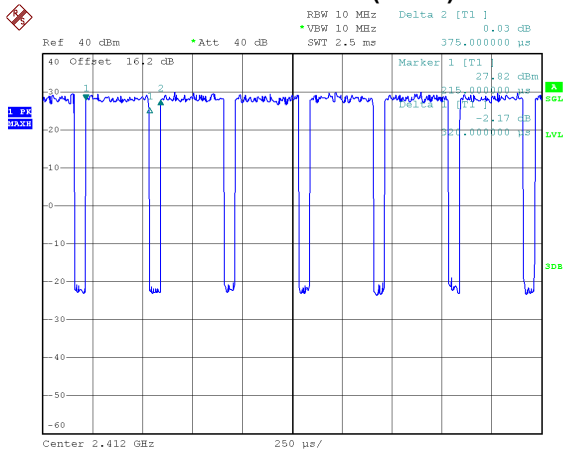
IEEE 802.11n(HT40)



Date: 1.AUG.2024 17:20:52

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

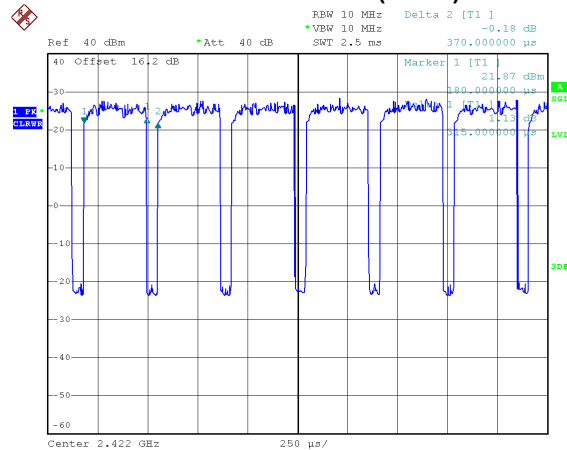
IEEE 802.11ax(HE20)



Date: 1.AUG.2024 17:25:53

Duty cycle = 0.320 ms / 0.375 ms = 85.33%
Duty Factor = 10 log(1/Duty cycle) = 0.69

IEEE 802.11ax(HE40)



Date: 1.AUG.2024 17:26:28

Duty cycle = 0.315 ms / 0.370 ms = 85.14%
Duty Factor = 10 log(1/Duty cycle) = 0.70

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 714 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 763 Hz.

For IEEE 802.11n(HT40):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 1538 Hz.

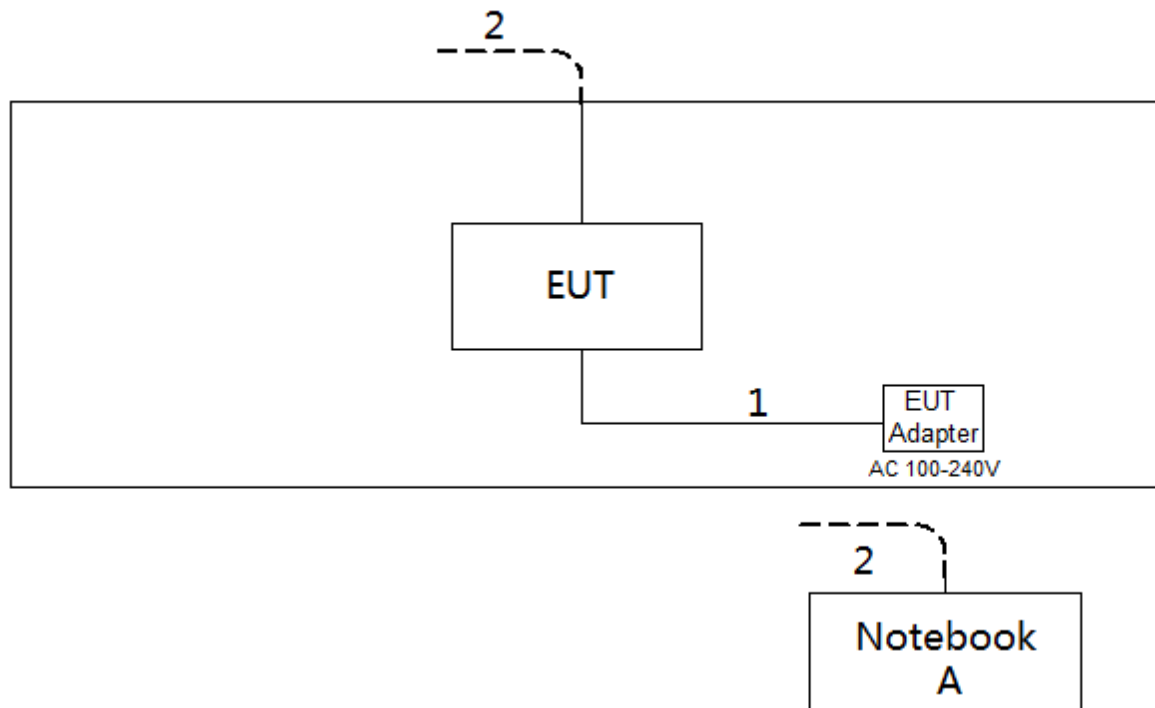
For IEEE 802.11ax(HE20):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3125 Hz.

For IEEE 802.11ax(HE40):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3175 Hz.

3.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



3.6 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.
A	Notebook	Honor	14SER5 3500	N/A

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

3.7 CUSTOMER INFORMATION DESCRIPTION

- 1) The antenna gain and beamforming gain are provided by the manufacturer.
- 2) Except for AC power line conducted emissions and radiated emissions, the results of all test items include cable losses. Part of the cable losses (1.5dB) 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.

4.2 TEST PROCEDURE

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

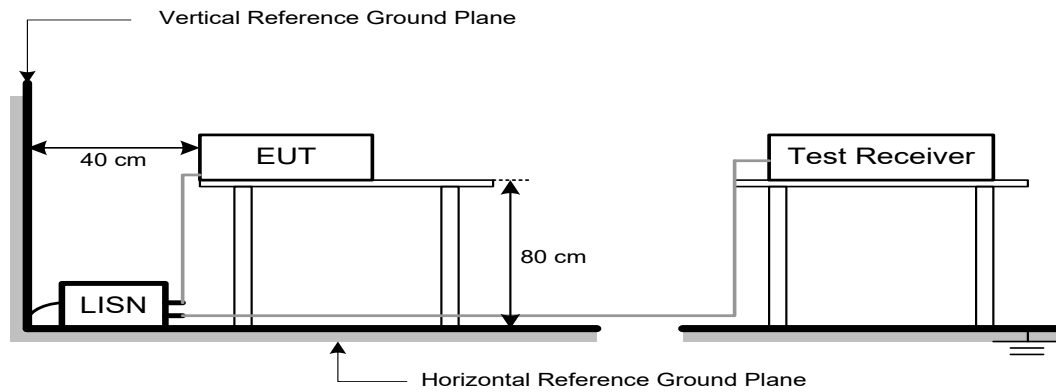
The following table is the setting of the receiver:

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

4.3 DEVIATION FROM TEST STANDARD

No deviation.

4.4 TEST SETUP



4.5 EUT OPERATION CONDITIONS

EUT was programmed to be in continuously transmitting mode.

4.6 TEST RESULTS

Please refer to the APPENDIX A.

5. RADIATED EMISSIONS

5.1 LIMIT

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

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

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

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000 MHz)

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

Note:

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

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

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

- 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

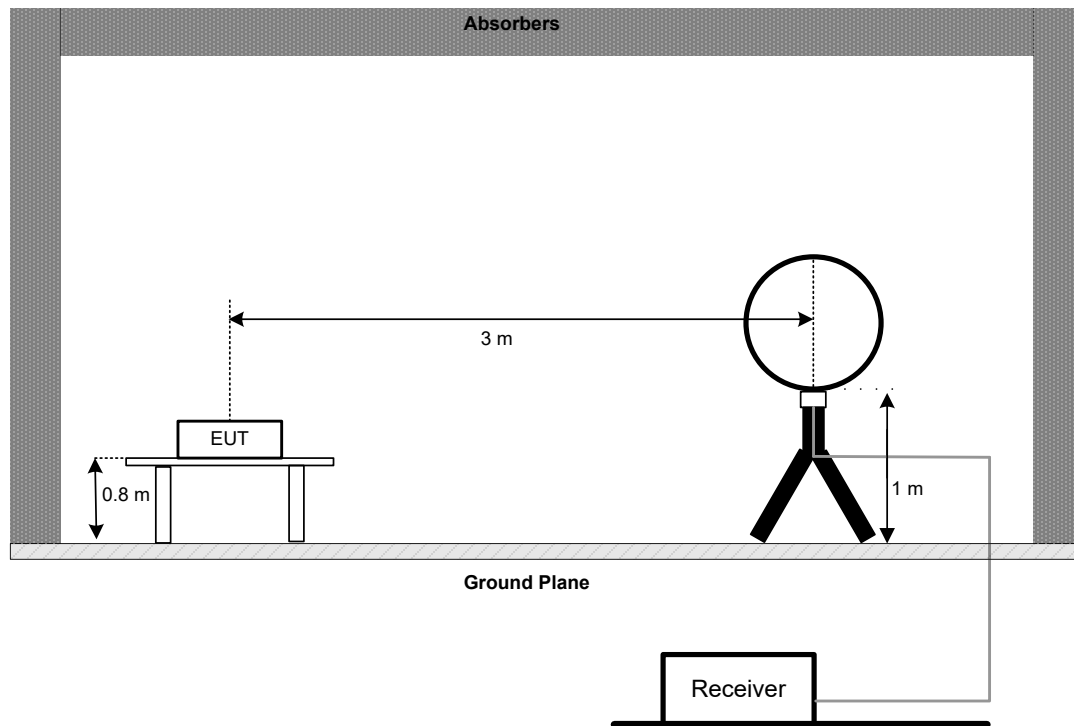
Receiver Parameters	Setting
Start ~ Stop Frequency	9 kHz~90 kHz for PK/AVG detector
Start ~ Stop Frequency	90 kHz~110 kHz for QP detector
Start ~ Stop Frequency	110 kHz~490 kHz for PK/AVG detector
Start ~ Stop Frequency	490 kHz~30 MHz for QP detector
Start ~ Stop Frequency	30 MHz~1000 MHz for QP detector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

5.3 DEVIATION FROM TEST STANDARD

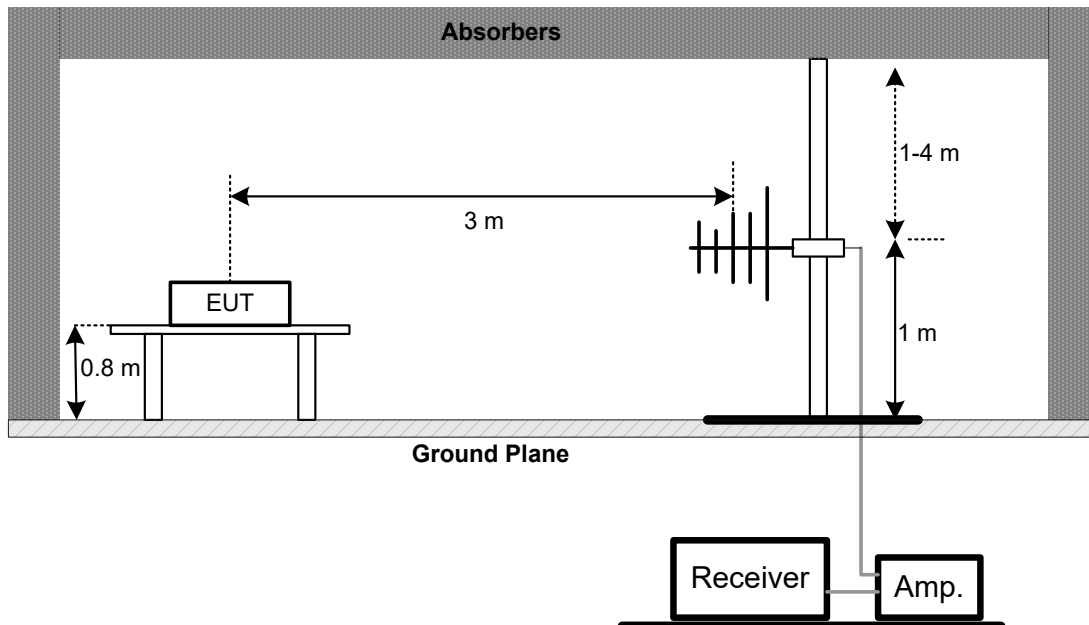
No deviation.

5.4 TEST SETUP

9 kHz to 30 MHz

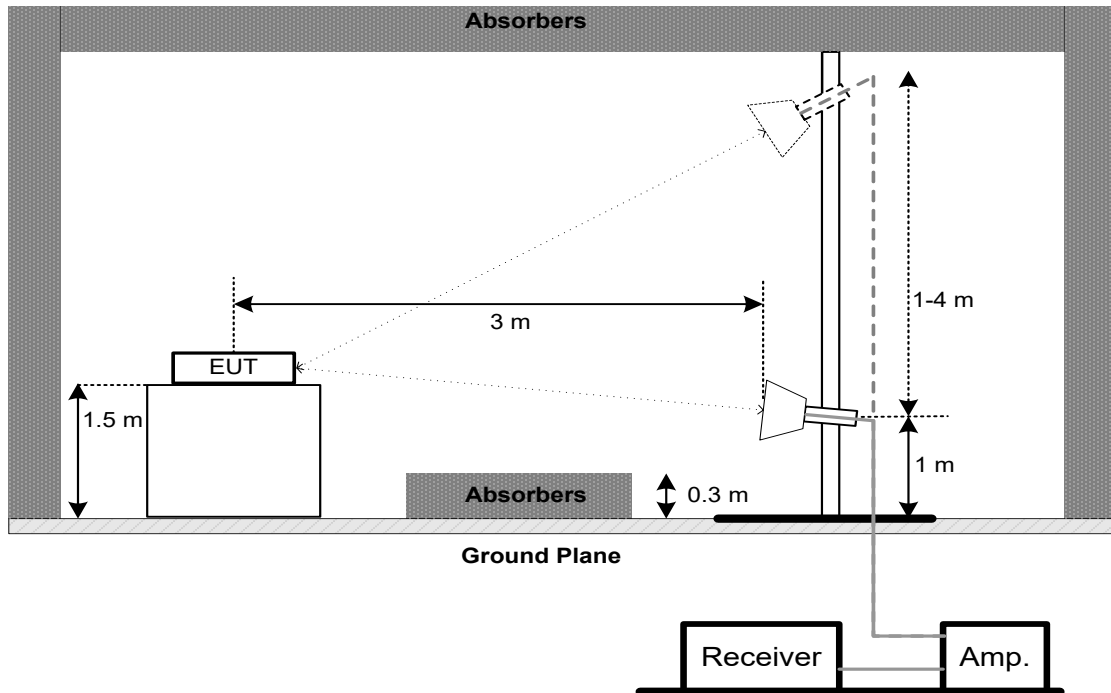


30 MHz to 1 GHz

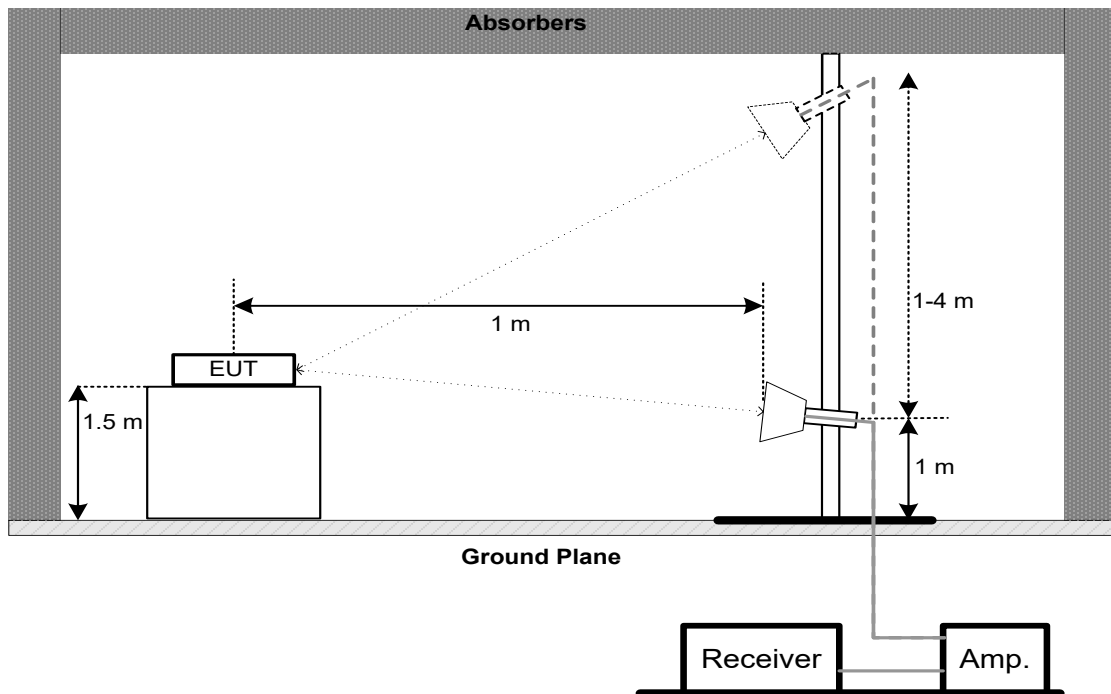


Above 1 GHz

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

For 99% Emission Bandwidth:

Spectrum Parameters	Setting
Span Frequency	Between 1.5 times and 5.0 times the OBW
RBW	300 kHz For 20MHz 1 MHz For 40MHz
VBW	1 MHz For 20MHz 3 MHz For 40MHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP



6.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

6.6 TEST RESULTS

Please refer to the APPENDIX E.

7. MAXIMUM OUTPUT POWER

7.1 LIMIT

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

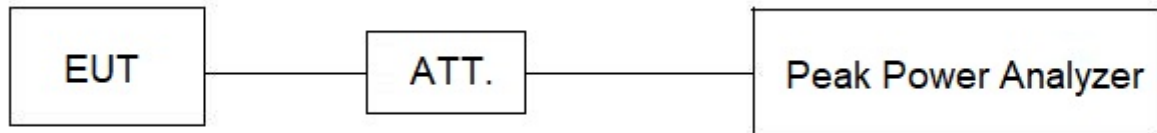
7.2 TEST PROCEDURE

- The EUT was directly connected to the peak power analyzer and antenna output port as show in the block diagram below.
- The maximum conducted output power was performed in accordance with method 11.9.2.3.1 (for AVG power) of ANSI C63.10-2013 and FCC KDB 662911 D01 v02r01 Multiple Transmitter Output.

7.3 DEVIATION FROM STANDARD

No deviation.

7.4 TEST SETUP



7.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

7.6 TEST RESULTS

Please refer to the APPENDIX F.

8. CONDUCTED SPURIOUS EMISSIONS

8.1 LIMIT

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

8.2 TEST PROCEDURE

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

For Reference Level:

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

For Emission Level:

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

8.3 DEVIATION FROM STANDARD

No deviation.

8.4 TEST SETUP



8.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

8.6 TEST RESULTS

Please refer to the APPENDIX G.

9. POWER SPECTRAL DENSITY

9.1 LIMIT

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

9.2 TEST PROCEDURE

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

Spectrum Parameters	Setting
Span Frequency	25 MHz (20 MHz) / 60 MHz (40 MHz)
RBW	3 kHz
VBW	10 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

9.3 DEVIATION FROM STANDARD

No deviation.

9.4 TEST SETUP



9.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

9.6 TEST RESULTS

Please refer to the APPENDIX H.

10. MEASUREMENT INSTRUMENTS LIST

AC Power Line Conducted Emissions					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	EMI TEST RECEIVER	R&S	ESCI	100382	Dec. 22, 2024
2	TWO-LINE V-NETWORK	R&S	ENV216	101447	Dec. 22, 2024
3	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
4	Cable	N/A	SFT205-NMNM-9M-001	9M	Nov. 27, 2024
5	643 Shield Room	ETS	6*4*3	N/A	N/A

Radiated Emissions - 9 kHz to 30 MHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Active Loop Antenna	Schwarzbeck	FMZB 1513-60	25	Mar. 30, 2025
2	MXE EMI Receiver	Keysight	N9038A	MY56400091	Dec. 22, 2024
3	Cable	N/A	RW2350-3.8A-NMB M-1.5M	N/A	Sep. 09, 2025
4	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
5	966 Chamber room	ETS	9*6*6	N/A	Jul. 11, 2024

Radiated Emissions - 30 MHz to 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Trilog-Broadband Antenna	Schwarzbeck	VULB 9168	1462	Dec. 13, 2024
2	Attenuator	EMC INSTRUMENT	EMCI-N-6-06	AT-06009	Dec. 13, 2024
3	Preamplifier	EMC INSTRUMENT	EMC001330	980998	Nov. 17, 2024
4	Cable	RegalWay	LMR400-NMNM-12.5m	N/A	Jun. 06, 2025
5	Cable	RegalWay	LMR400-NMNM-3m	N/A	Jun. 06, 2025
6	Cable	RegalWay	LMR400-NMNM-0.5m	N/A	Jun. 06, 2025
7	Receiver	Agilent	N9038A	MY52130039	Dec. 22, 2024
8	Positioning Controller	MF	MF-7802	N/A	N/A
9	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
10	966 Chamber room	CM	9*6*6	N/A	May 16, 2025

Radiated Emissions - 1 GHz to 18 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Receiver	Agilent	N9038A	MY52130039	Dec. 22, 2024
2	Preamplifier	EMC INSTRUMENT	EMC118A45SE	980888	Nov. 17, 2024
3	EXA Signal Analyzer	Keysight	N9010A	MY56480488	Dec. 22, 2024
4	Double Ridged Guide Antenna	ETS	3115	75789	Jun. 15, 2025
5	Cable	RegalWay	RWLP50-4.0A-SMSM-12.5M	N/A	Jul. 03, 2025
6	Cable	RegalWay	RWLP50-4.0A-NMRA SM-2.5M	N/A	Jul. 03, 2025
7	Cable	RegalWay	RWLP50-4.0A-NMRA SMRA-0.8M	N/A	Jul. 03, 2025
8	Low Noise Amplifier	CONNPHY	CLN-18G40G-4330-K	619413	Jul. 17, 2025
9	Cable	RegalWay	RWLP50-2.6A-2.92M 2.92M-1.1M	N/A	Jul. 25, 2025
10	Cable	Tonscend	HF160-KMKM-3M	N/A	Jul. 25, 2025
11	Broad-Band Horn Antenna	Schwarzbeck	BBHA9170(3m)	9170-319	Jun. 16, 2025
12	966 Chamber room	CM	9*6*6	N/A	May 19, 2025
13	Attenuator	Talent Microwave	TA10A2-S-18	N/A	N/A
14	Filter	STI	STI15-9912	N/A	May 31, 2025
15	Positioning Controller	MF	MF-7802	N/A	N/A
16	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Radiated Emissions - Above 18 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Receiver	Agilent	N9038A	MY52130039	Dec. 22, 2024
2	Preamplifier	EMC INSTRUMENT	EMC118A45SE	981001	May 31, 2025
3	Double Ridged Guide Antenna	ETS	3115	75789	Jun. 15, 2025
4	Cable	RegalWay	RWLP50-4.0A-SMS M-12.5M	N/A	Jul. 03, 2025
5	Cable	RegalWay	RWLP50-4.0A-NM RASM-2.5M	N/A	Jul. 03, 2025
6	Cable	RegalWay	RWLP50-4.0A-NM RASMRA-0.8M	N/A	Jul. 03, 2025
7	966 Chamber room	CM	9*6*6	N/A	May 19, 2025
8	Attenuator	Talent Microwave	TA10A2-S-18	N/A	N/A
9	Filter	STI	STI15-9912	N/A	May 31, 2025
10	Positioning Controller	MF	MF-7802	N/A	N/A
11	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 31, 2025
2	Attenuator	Talent Microwave	TA10A0-S-26.5	N/A	N/A
3	Attenuator	Talent Microwave	TA10A0-S-26.5	N/A	N/A
4	DC Block	N/A	N/A	N/A	N/A
5	Measurement Software	BTL	BTL Conducted Test	N/A	N/A

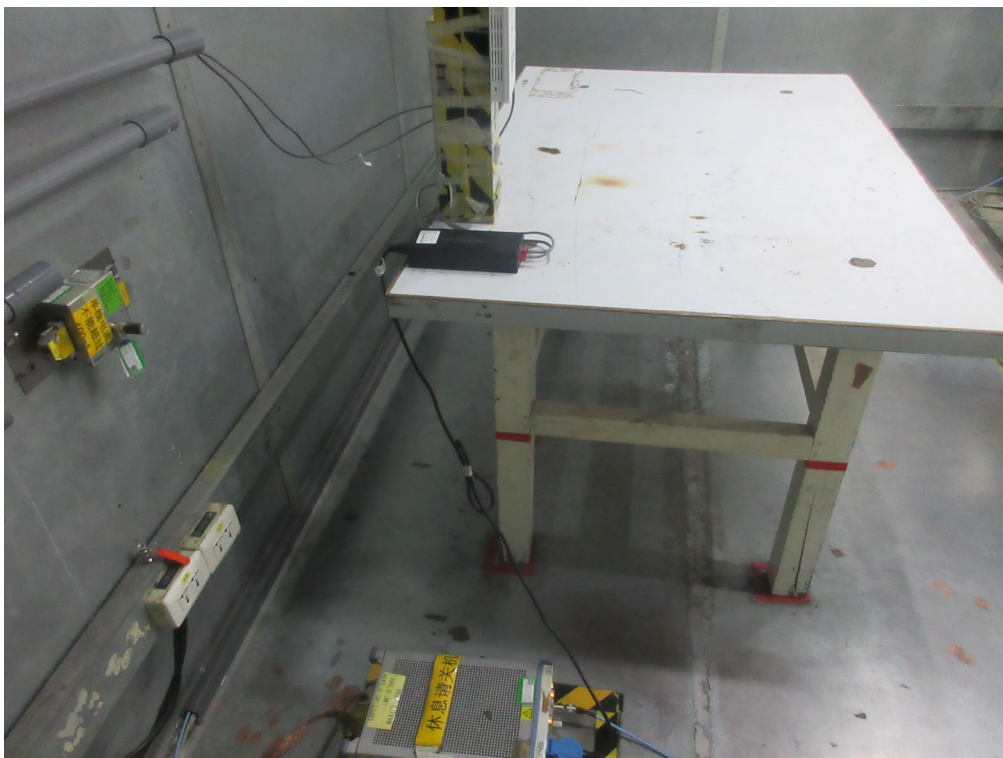
Maximum Output Power					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Peak Power Analyzer	Keysight	8990B	MY51000506	May 31, 2025
2	Wideband power sensor	Keysight	N1923A	MY58310004	May 31, 2025
3	Isolation attenuator	Z-Link	ASMA-10-18-2W	N/A	N/A

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

All calibration period of equipment list is one year.

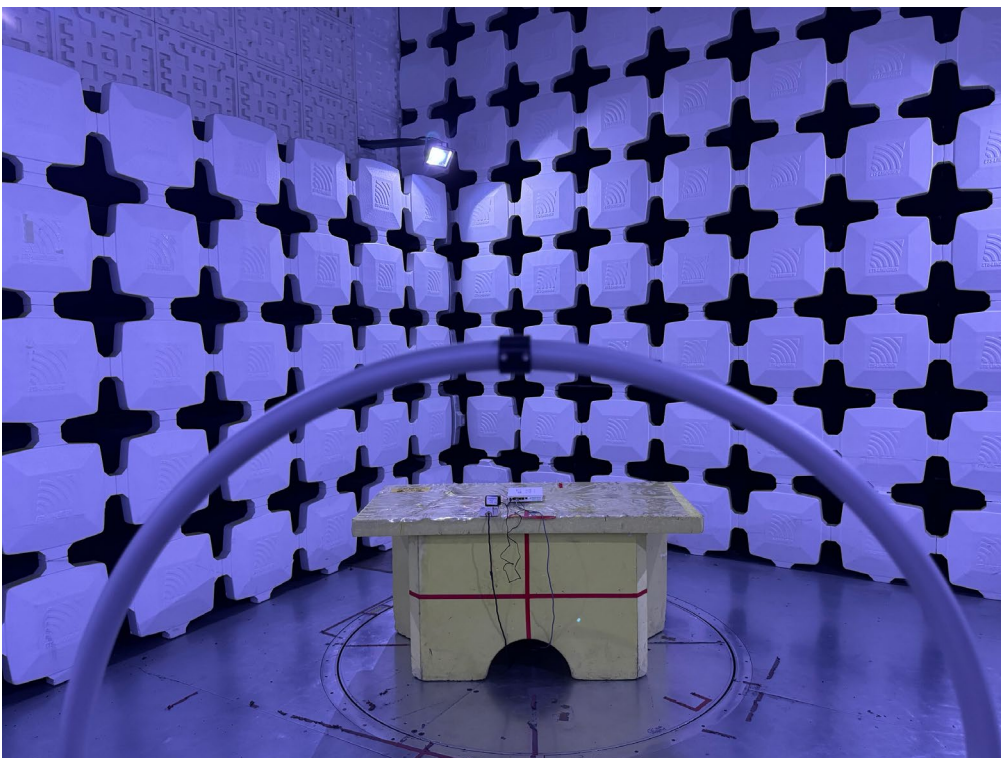
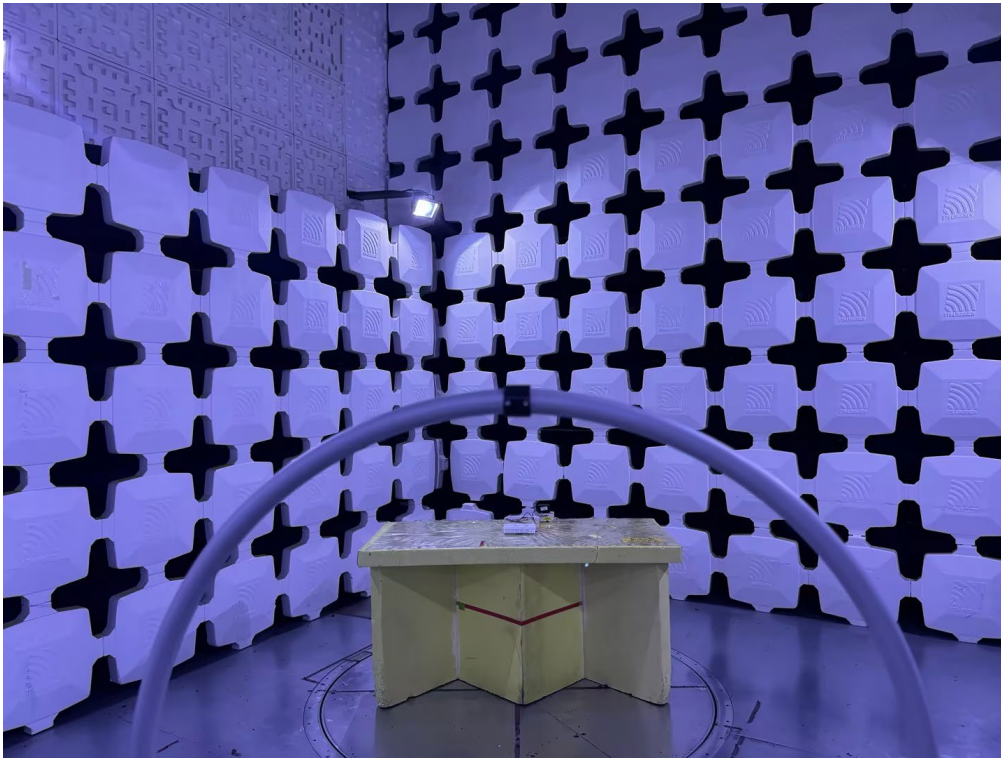
11. EUT TEST PHOTO

AC Power Line Conducted Emissions Test Photos



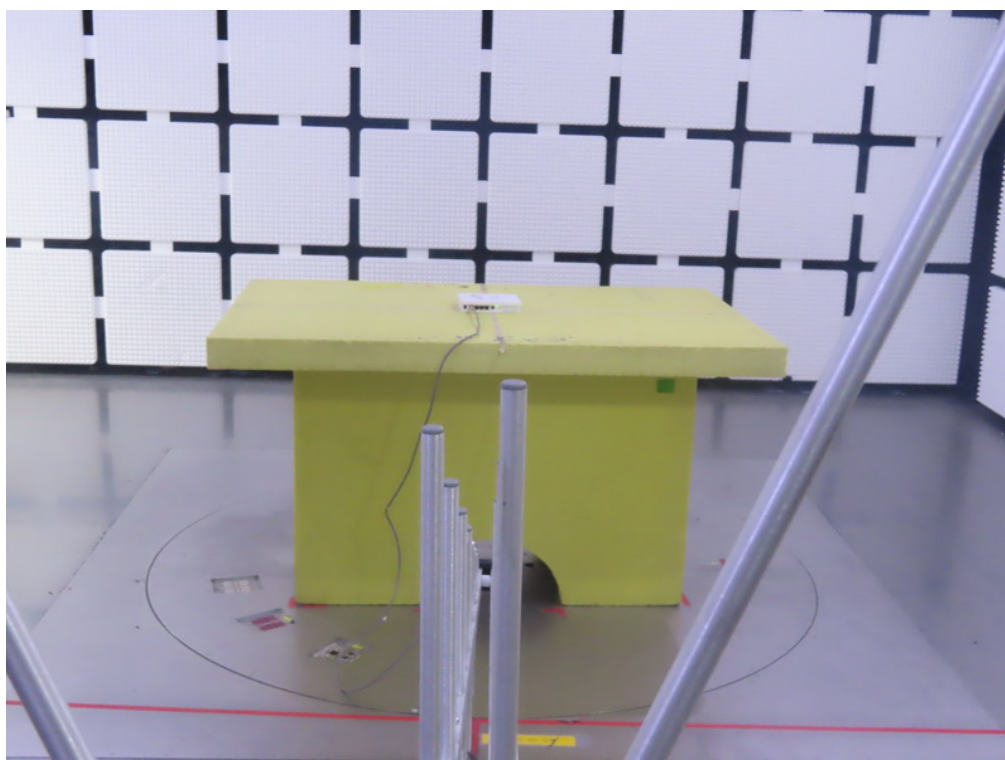
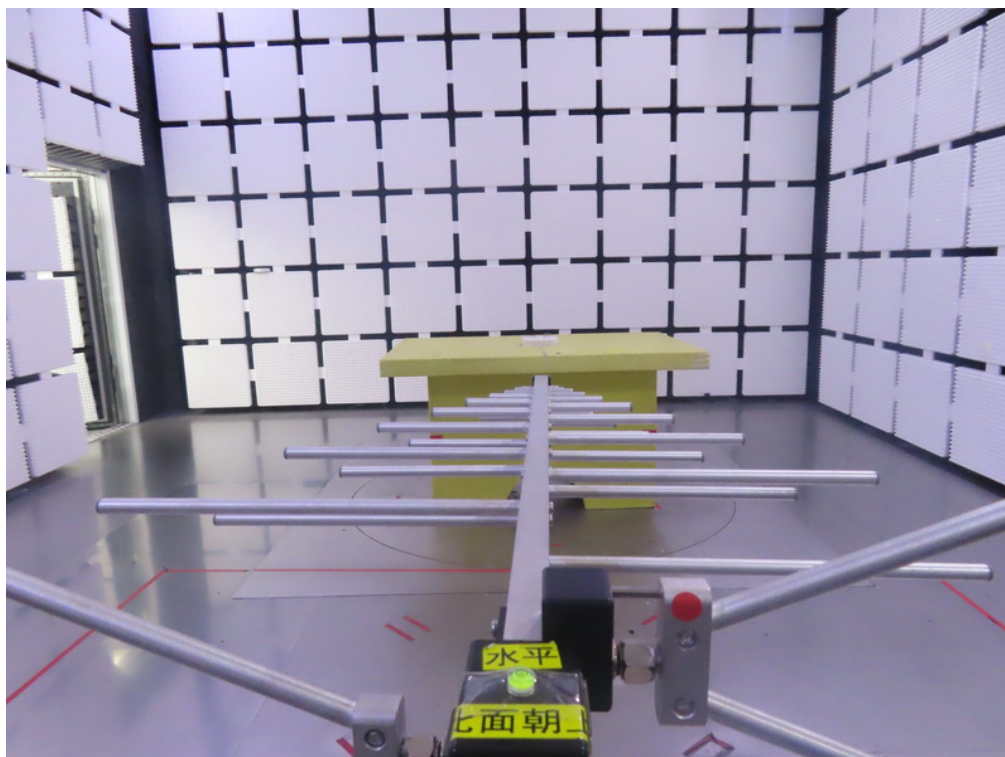
Radiated Emissions Test Photos

9 kHz to 30 MHz



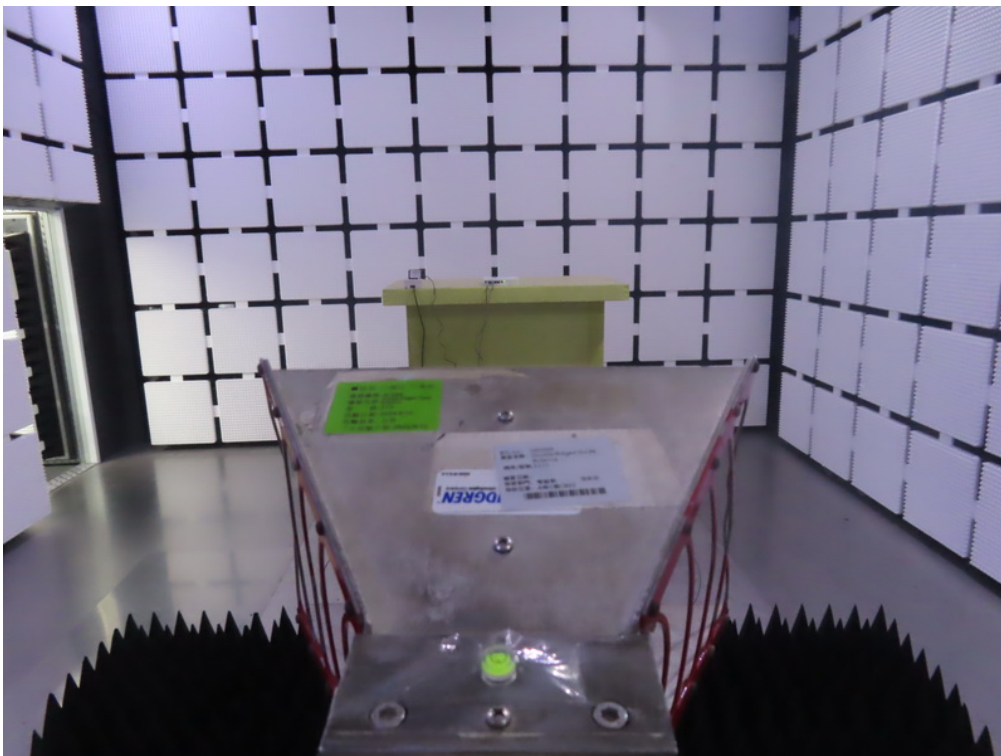
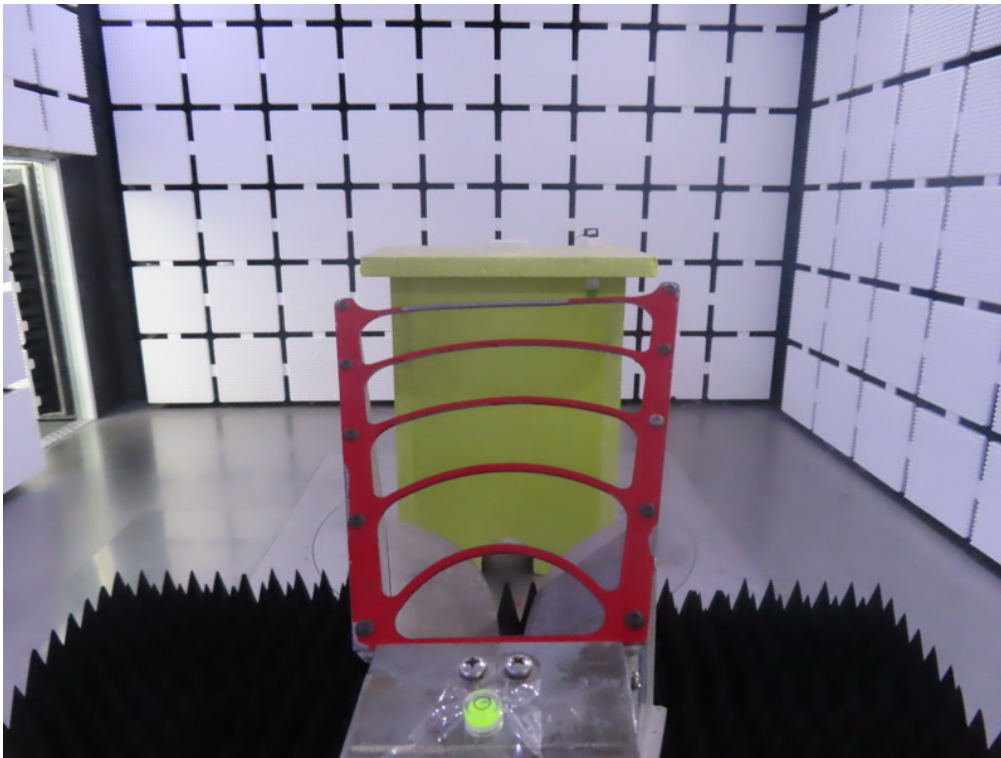
Radiated Emissions Test Photos

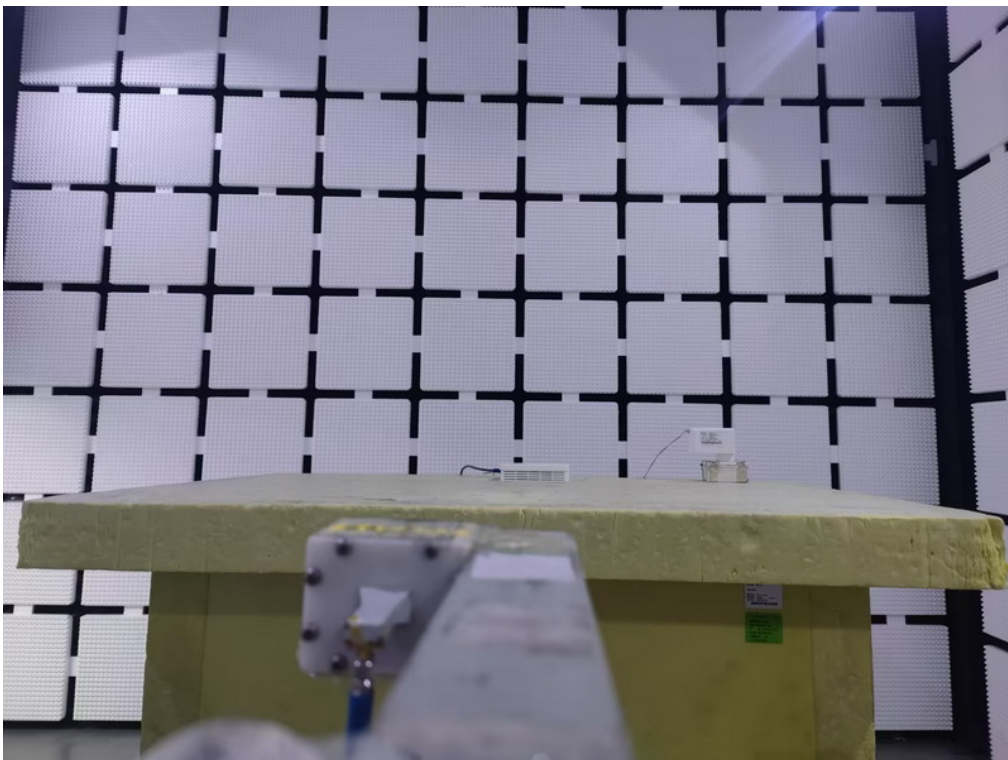
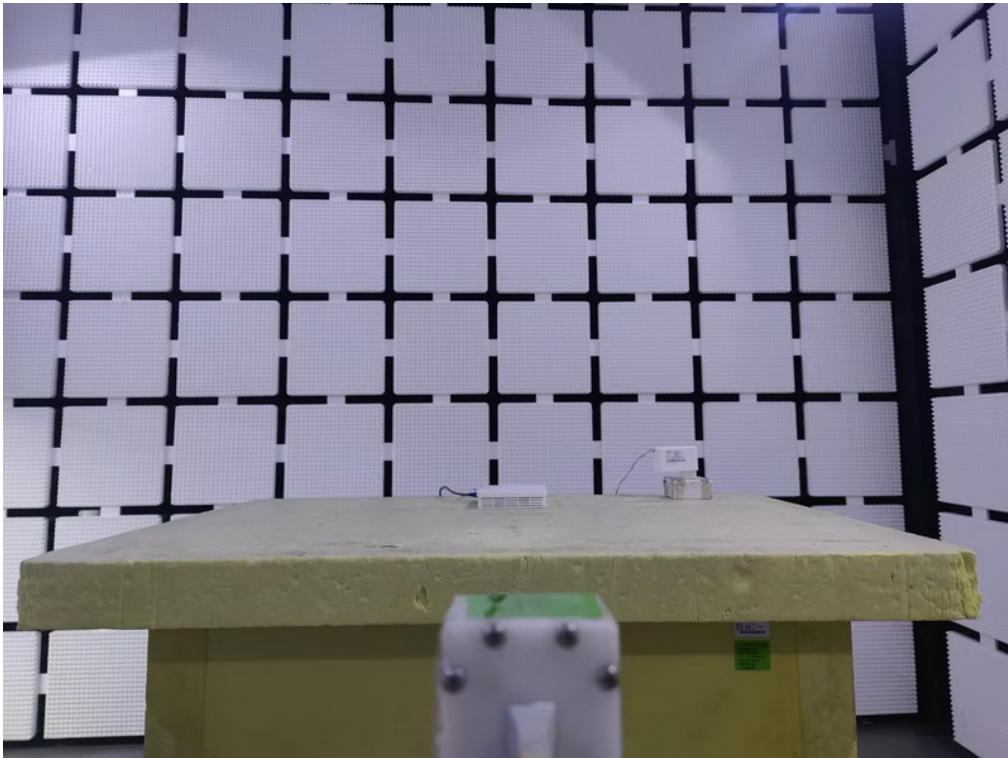
30 MHz to 1000 MHz



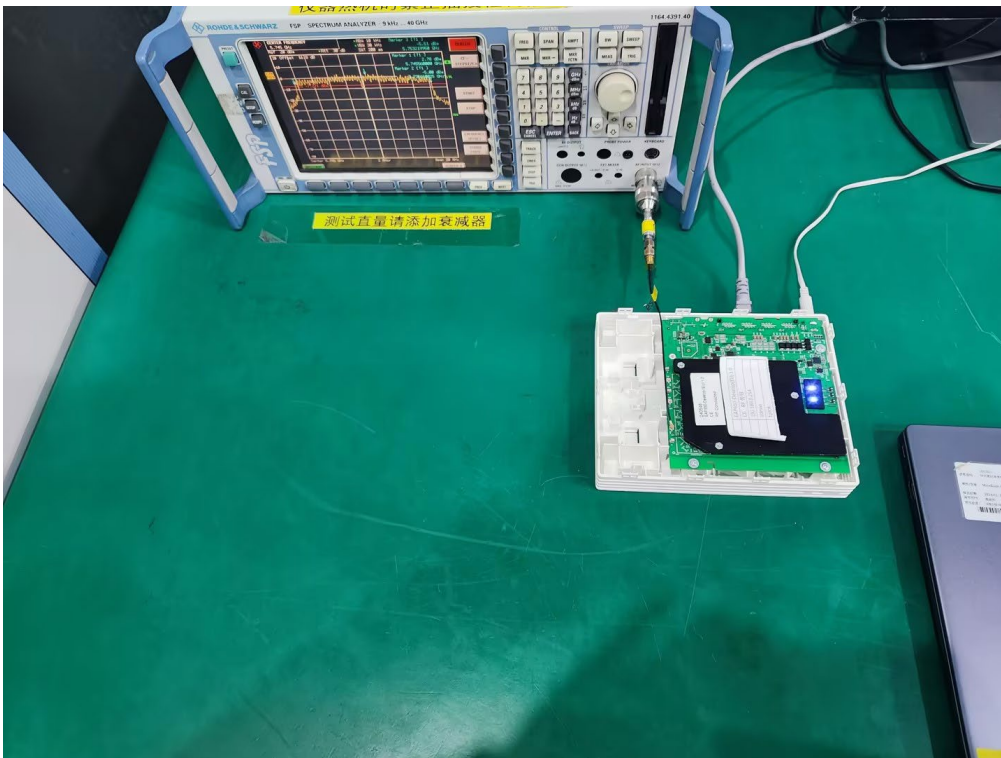
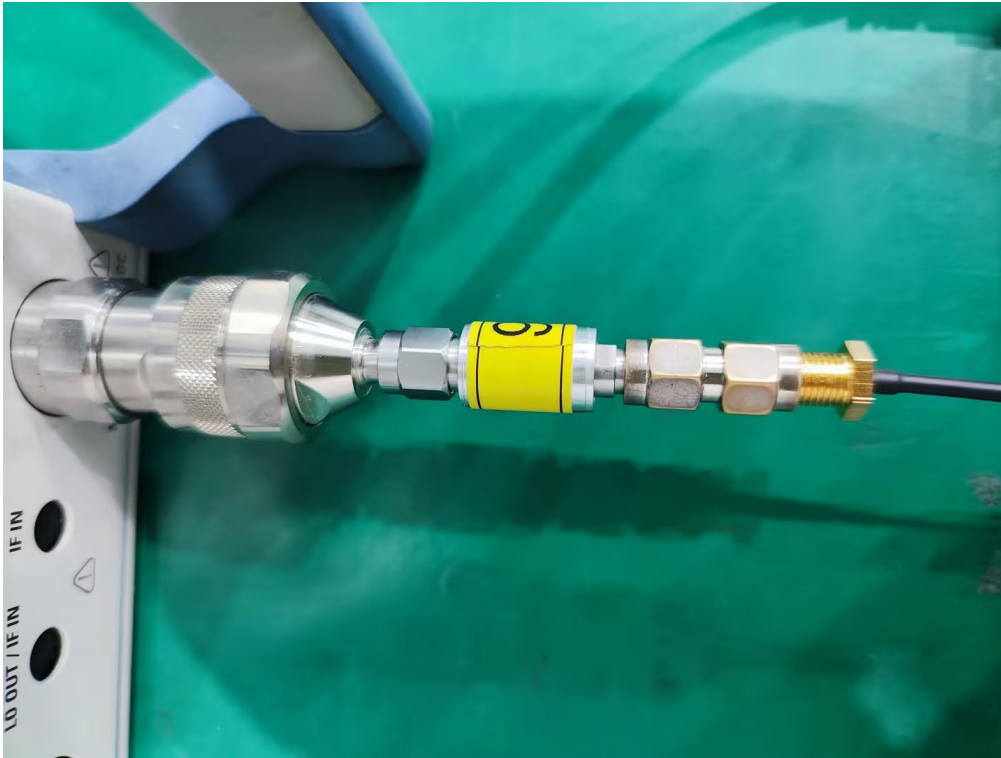
Radiated Emissions Test Photos

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



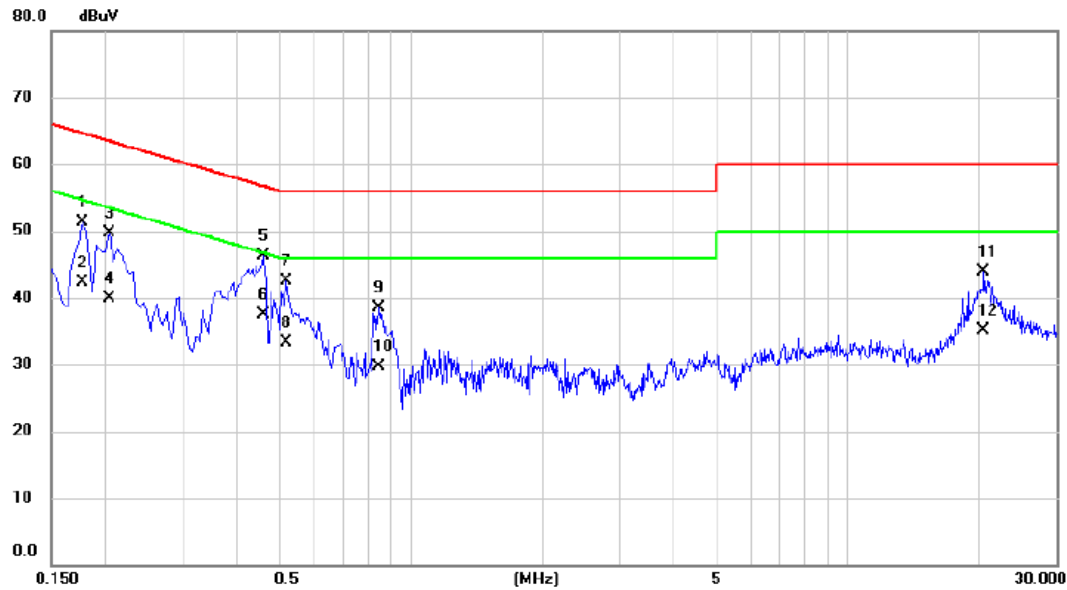
Radiated Emissions Test Photos**Above 1 GHz_Harmonic(18 GHz to 26.5 GHz)**

Conducted Test Photos



APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS

Test Mode	TX AX(HE20) Mode Channel 06	Phase	Line
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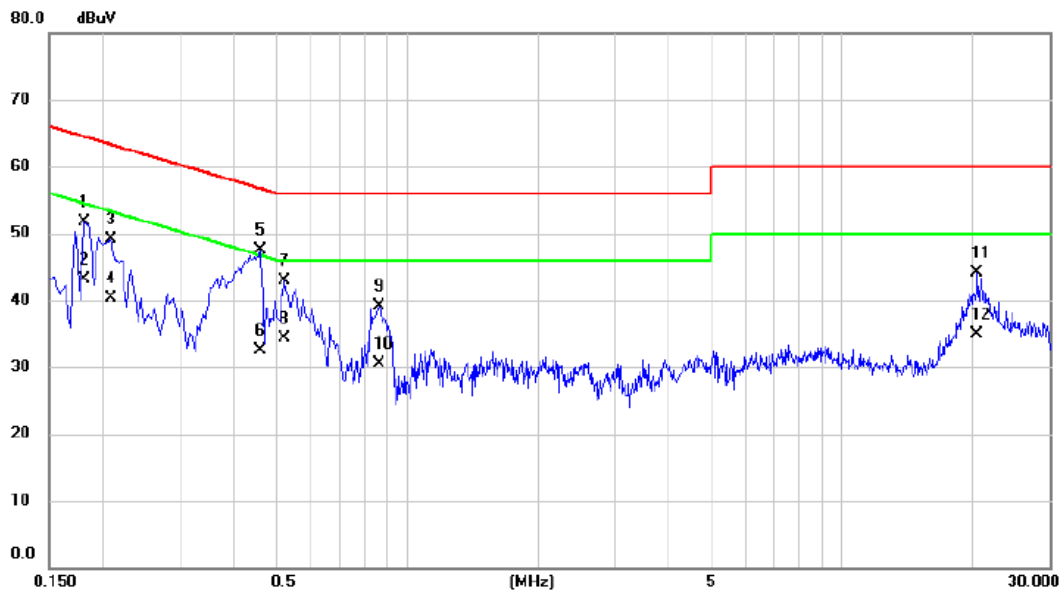


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1770	41.65	9.74	51.39	64.63	-13.24	QP	
2		0.1770	32.60	9.74	42.34	54.63	-12.29	AVG	
3		0.2040	39.89	9.74	49.63	63.45	-13.82	QP	
4		0.2040	30.10	9.74	39.84	53.45	-13.61	AVG	
5		0.4605	36.50	9.79	46.29	56.68	-10.39	QP	
6	*	0.4605	27.80	9.79	37.59	46.68	-9.09	AVG	
7		0.5190	32.77	9.79	42.56	56.00	-13.44	QP	
8		0.5190	23.60	9.79	33.39	46.00	-12.61	AVG	
9		0.8430	28.79	9.81	38.60	56.00	-17.40	QP	
10		0.8430	19.80	9.81	29.61	46.00	-16.39	AVG	
11		20.4045	33.44	10.47	43.91	60.00	-16.09	QP	
12		20.4045	24.70	10.47	35.17	50.00	-14.83	AVG	

REMARKS:

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

Test Mode	TX AX(HE20) Mode Channel 06	Phase	Neutral
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No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1815	42.11	9.59	51.70	64.42	-12.72	QP	
2	0.1815	33.60	9.59	43.19	54.42	-11.23	AVG	
3	0.2085	39.45	9.60	49.05	63.26	-14.21	QP	
4	0.2085	30.70	9.60	40.30	53.26	-12.96	AVG	
5 *	0.4605	37.80	9.65	47.45	56.68	-9.23	QP	
6	0.4605	22.90	9.65	32.55	46.68	-14.13	AVG	
7	0.5235	33.20	9.65	42.85	56.00	-13.15	QP	
8	0.5235	24.70	9.65	34.35	46.00	-11.65	AVG	
9	0.8610	29.52	9.67	39.19	56.00	-16.81	QP	
10	0.8610	20.90	9.67	30.57	46.00	-15.43	AVG	
11	20.4090	33.67	10.34	44.01	60.00	-15.99	QP	
12	20.4090	24.50	10.34	34.84	50.00	-15.16	AVG	

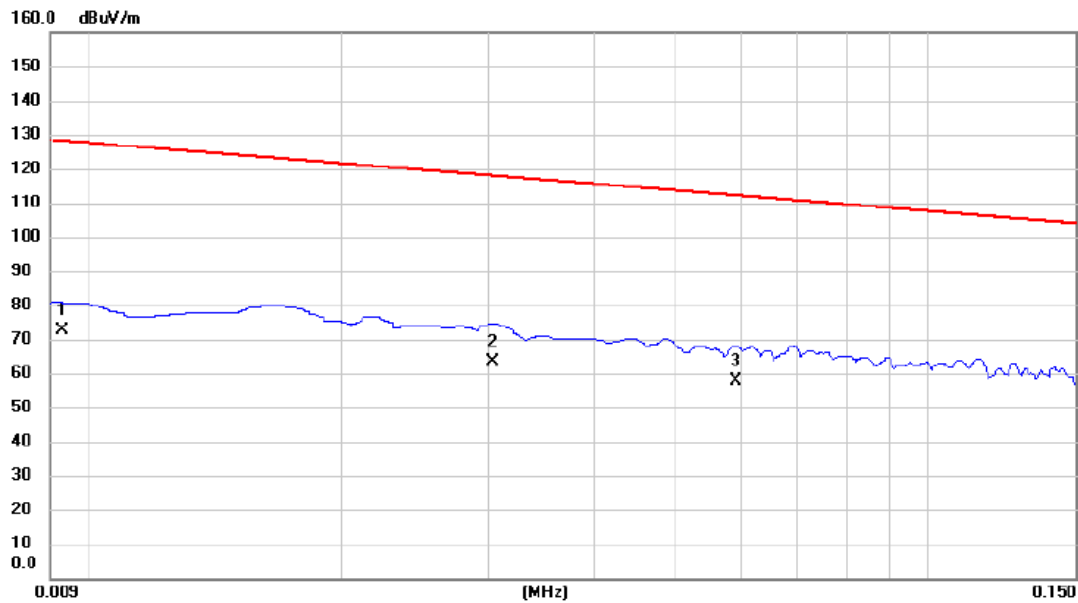
REMARKS:

(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 AX(HE20) Mode Channel 06	Polarization	Ant 0°
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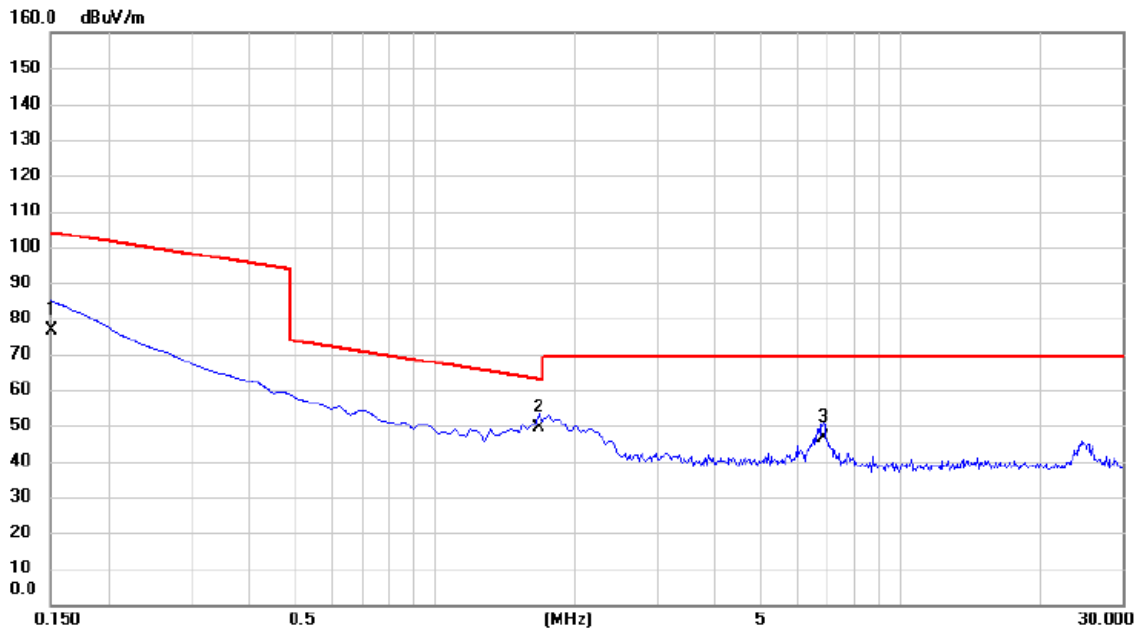


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.0093	52.36	20.43	72.79	128.24	-55.45	AVG	
2		0.0303	42.36	21.10	63.46	117.98	-54.52	AVG	
3	*	0.0590	36.59	21.23	57.82	112.19	-54.37	AVG	

REMARKS:

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

Test Mode	TX AX(HE20) Mode Channel 06	Polarization	Ant 0°
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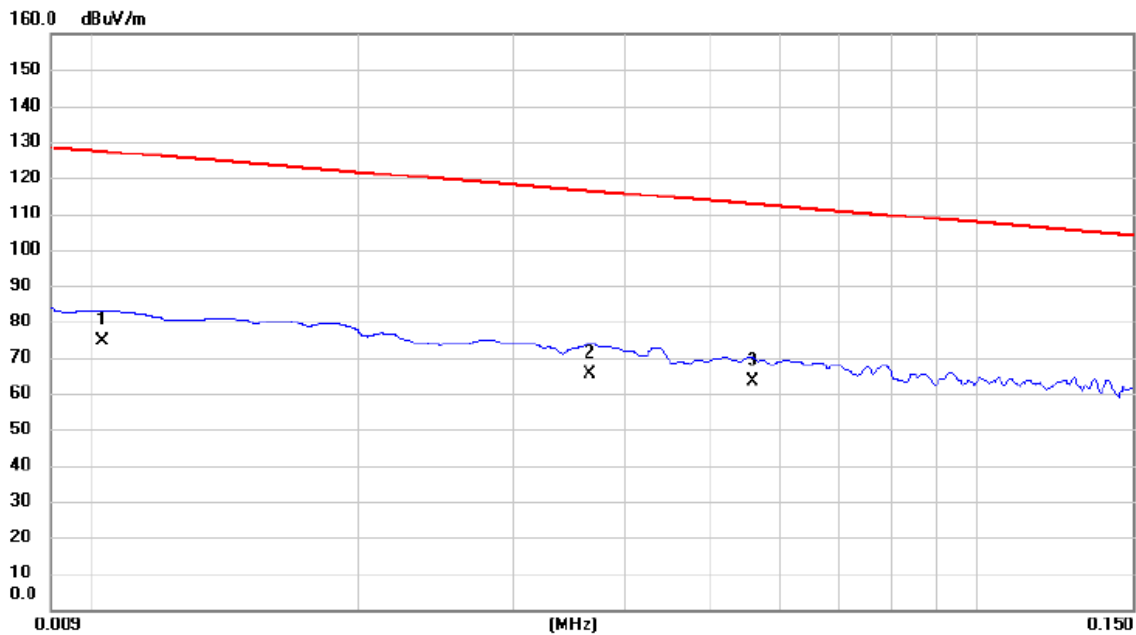
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.1500	55.22	21.27	76.49	104.09	-27.60	AVG	
2	*	1.6724	28.44	21.13	49.57	63.14	-13.57	QP	
3		6.8364	25.31	21.19	46.50	69.54	-23.04	QP	

REMARKS:

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

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

Test Mode	TX AX(HE20) Mode Channel 06	Polarization	Ant 90°
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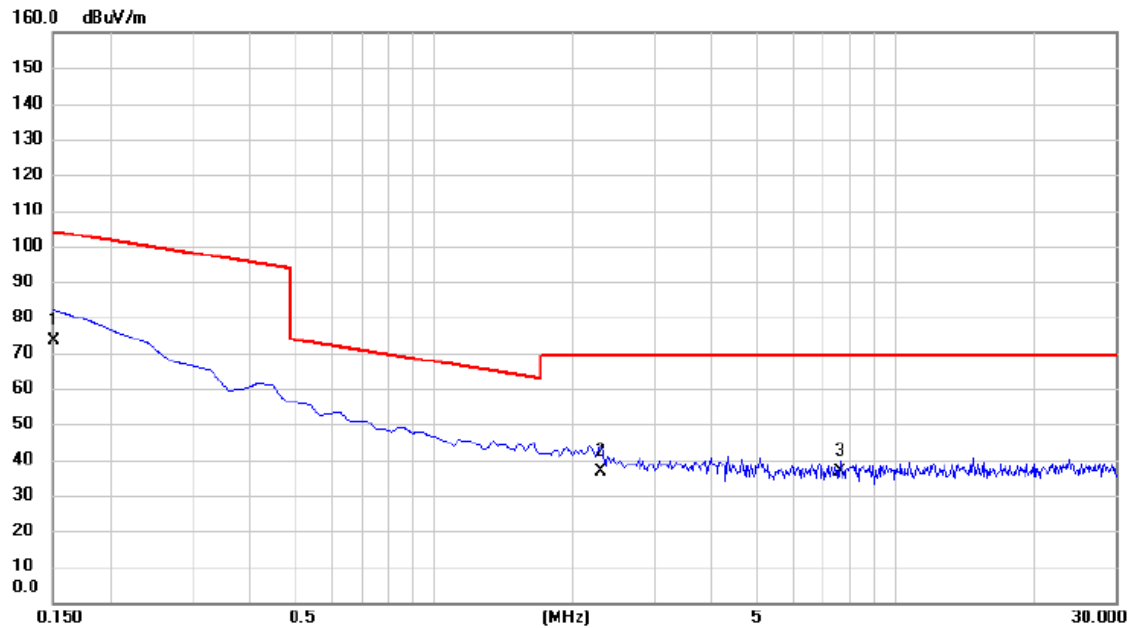
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.0103	54.23	20.51	74.74	127.35	-52.61	AVG	
2		0.0366	44.25	21.13	65.38	116.34	-50.96	AVG	
3	*	0.0558	42.33	21.22	63.55	112.67	-49.12	AVG	

REMARKS:

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

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

Test Mode	TX AX(HE20) Mode Channel 06	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	*	0.1500	52.11	21.27	73.38	104.09	-30.71	AVG	
2		2.2992	15.62	21.12	36.74	69.54	-32.80	QP	
3		7.5827	15.22	21.21	36.43	69.54	-33.11	QP	

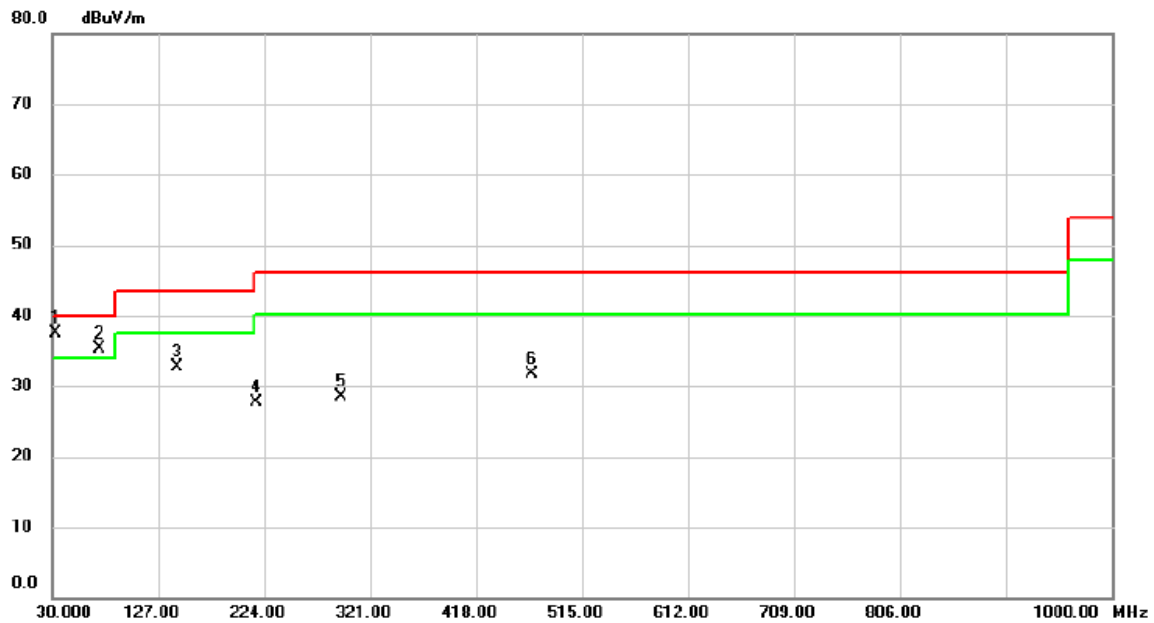
REMARKS:

(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 AX(HE20) Mode Channel 06	Polarization	Vertical
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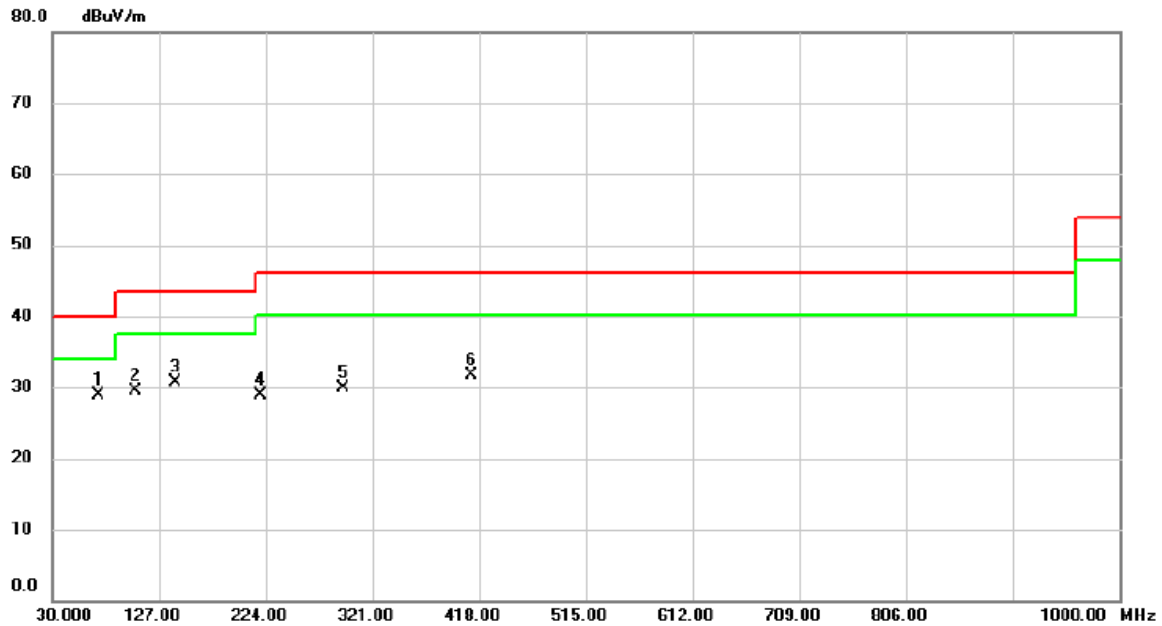
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	33.395	49.90	-12.48	37.42	40.00	-2.58	peak	
2	!	73.165	49.43	-14.05	35.38	40.00	-4.62	peak	
3		144.460	44.09	-11.46	32.63	43.52	-10.89	peak	
4		217.210	42.18	-14.38	27.80	46.02	-18.22	peak	
5		294.325	39.17	-10.67	28.50	46.02	-17.52	peak	
6		468.440	38.20	-6.49	31.71	46.02	-14.31	peak	

REMARKS:

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

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

Test Mode	TX AX(HE20) Mode Channel 06	Polarization	Horizontal
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No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	72.195	42.87	-13.88	28.99	40.00	-11.01	peak	
2		105.660	44.43	-14.98	29.45	43.52	-14.07	peak	
3		141.550	42.35	-11.61	30.74	43.52	-12.78	peak	
4		219.635	43.34	-14.36	28.98	46.02	-17.04	peak	
5		294.325	40.60	-10.67	29.93	46.02	-16.09	peak	
6		410.240	39.40	-7.78	31.62	46.02	-14.40	peak	

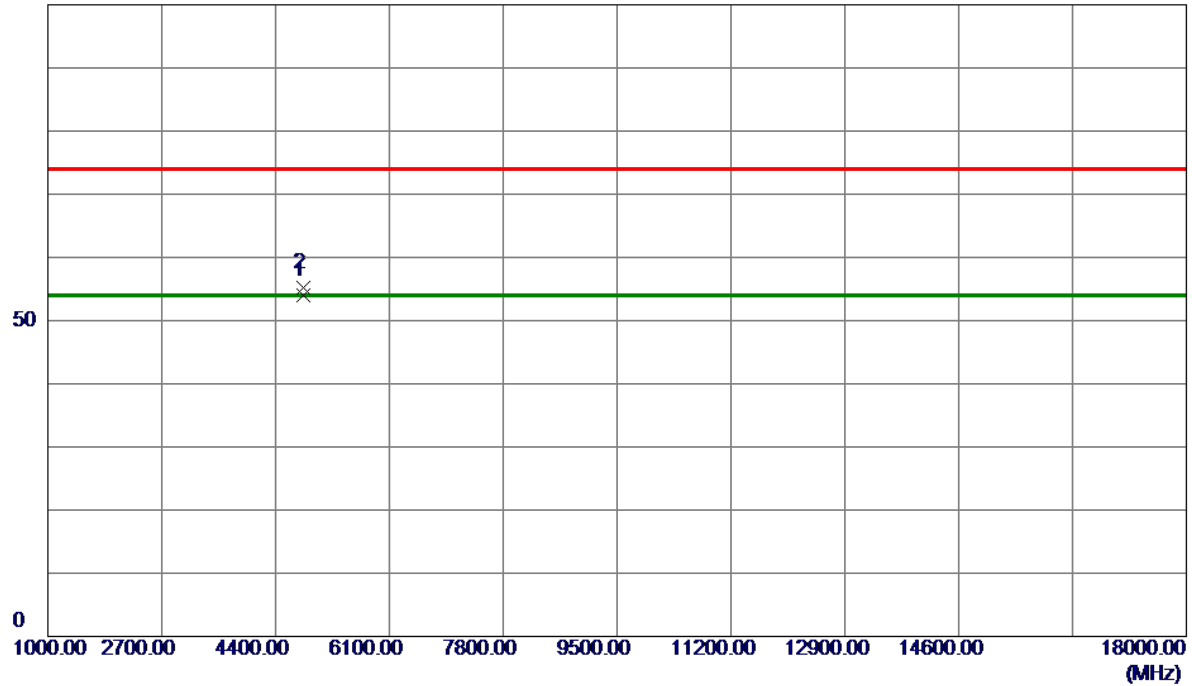
REMARKS:

- (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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100 dBuV/m



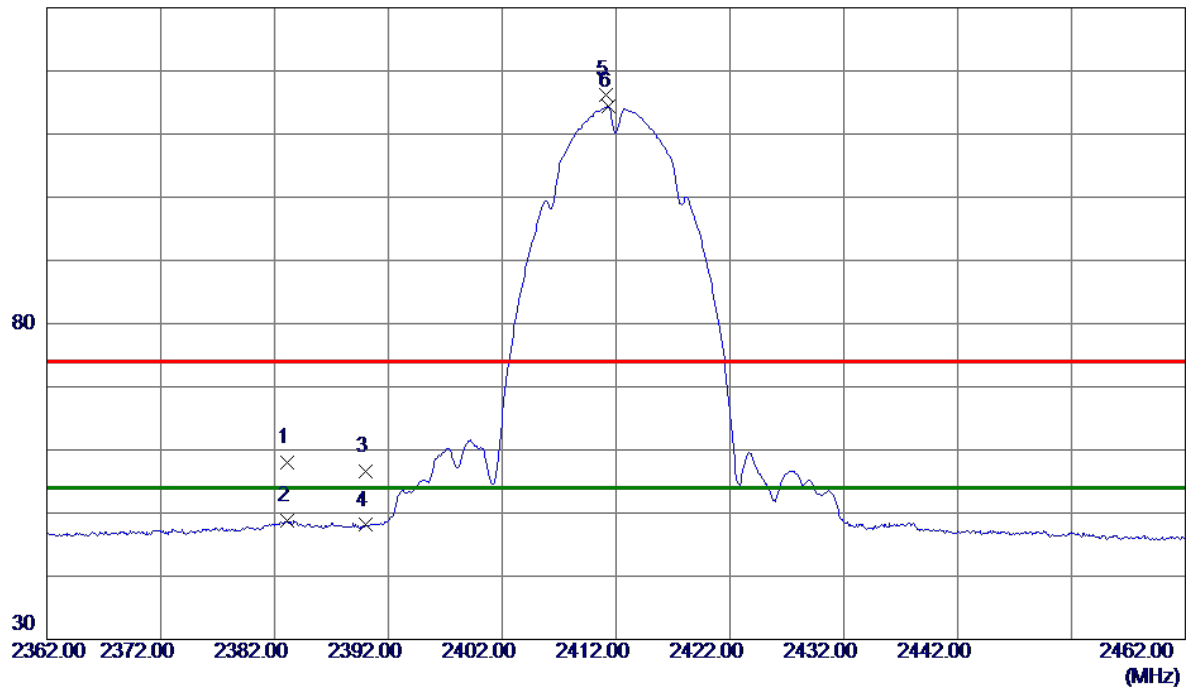
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4823.9750	51.12	2.84	53.96	54.00	-0.04	AVG	
2	4823.9750	52.30	2.84	55.14	74.00	-18.86	Peak	

REMARKS:

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

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



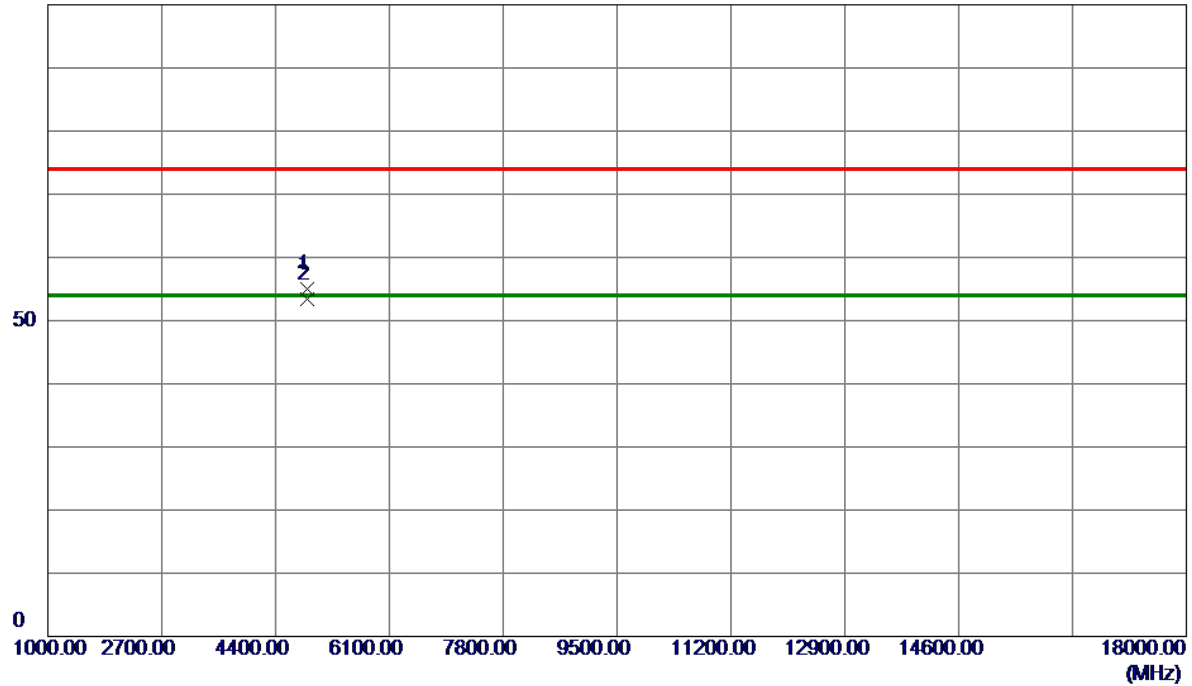
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2383.1000	50.28	7.69	57.97	74.00	-16.03	Peak	
2	2383.1000	41.13	7.69	48.82	54.00	-5.18	AVG	
3	2390.0000	48.99	7.70	56.69	74.00	-17.31	Peak	
4	2390.0000	40.40	7.70	48.10	54.00	-5.90	AVG	
5	2411.1000	108.55	7.72	116.27	74.00	42.27	Peak	No Limit
6 *	2411.3000	106.64	7.72	114.36	54.00	60.36	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

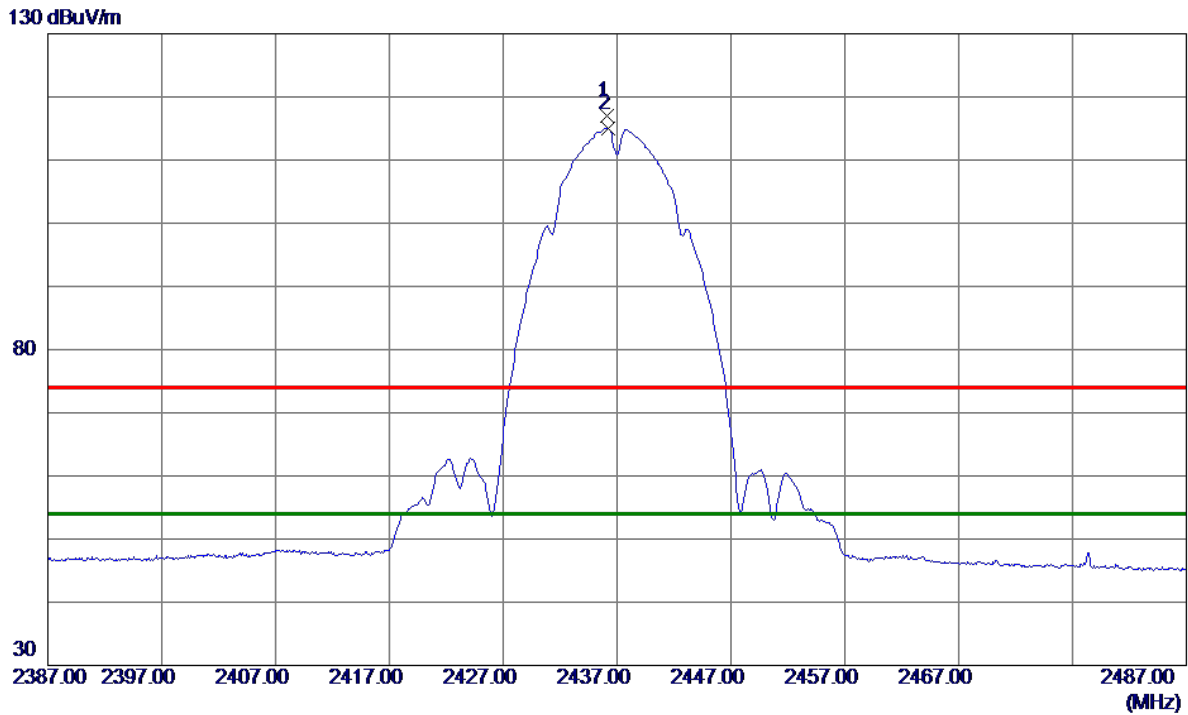


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4873.9000	52.04	2.96	55.00	74.00	-19.00	Peak	
2 *	4873.9500	50.51	2.96	53.47	54.00	-0.53	AVG	

REMARKS:

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

Test Mode	TX B Mode 2437 MHz	Polarization	Horizontal
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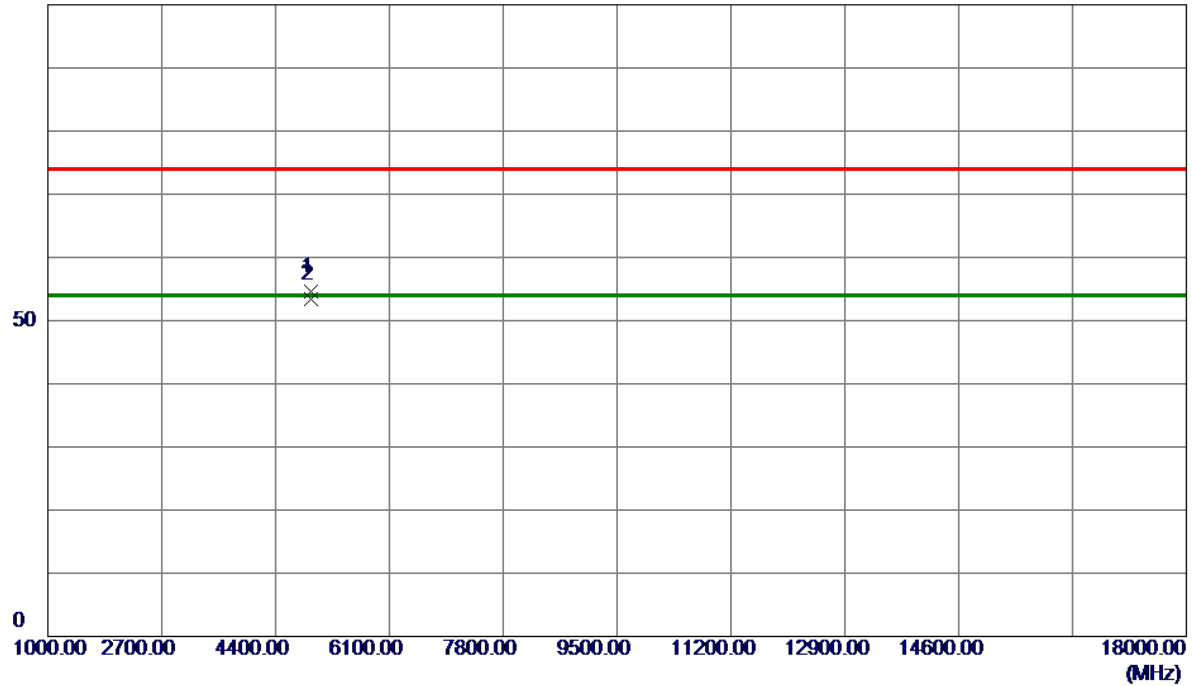
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2436.1000	109.25	7.75	117.00	74.00	43.00	Peak	No Limit
2 *	2436.2000	107.35	7.75	115.10	54.00	61.10	AVG	No Limit

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



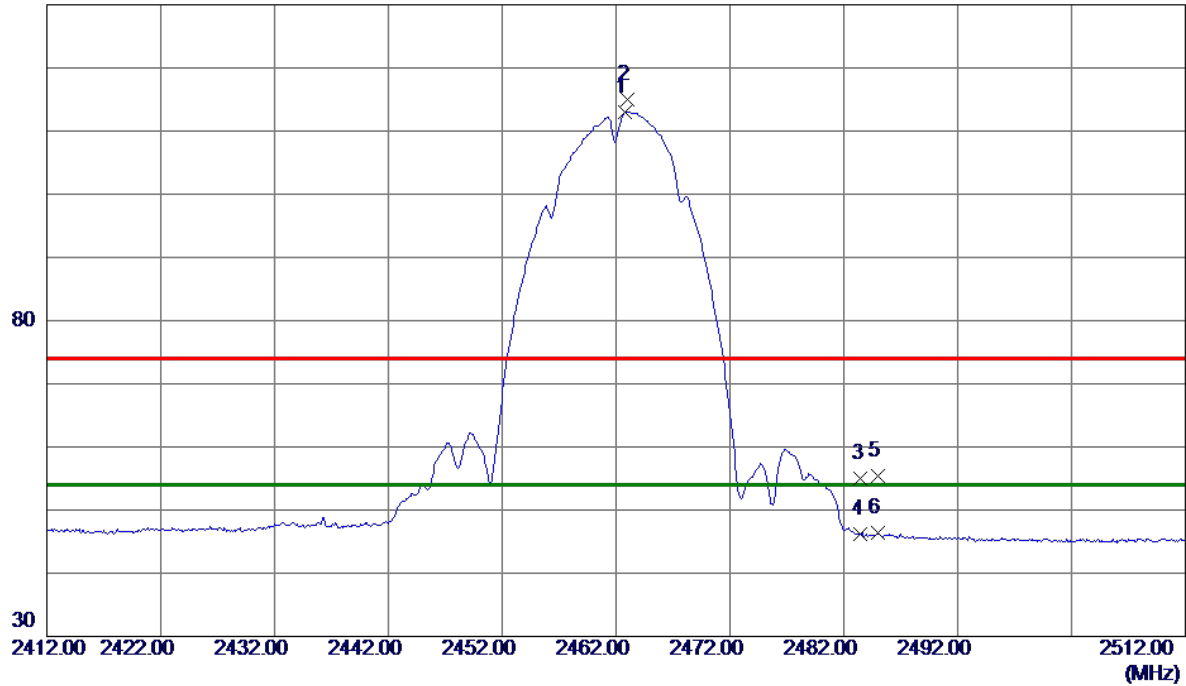
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4923.9250	51.45	3.07	54.52	74.00	-19.48	Peak	
2 *	4923.9500	50.28	3.07	53.35	54.00	-0.65	AVG	

REMARKS:

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

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



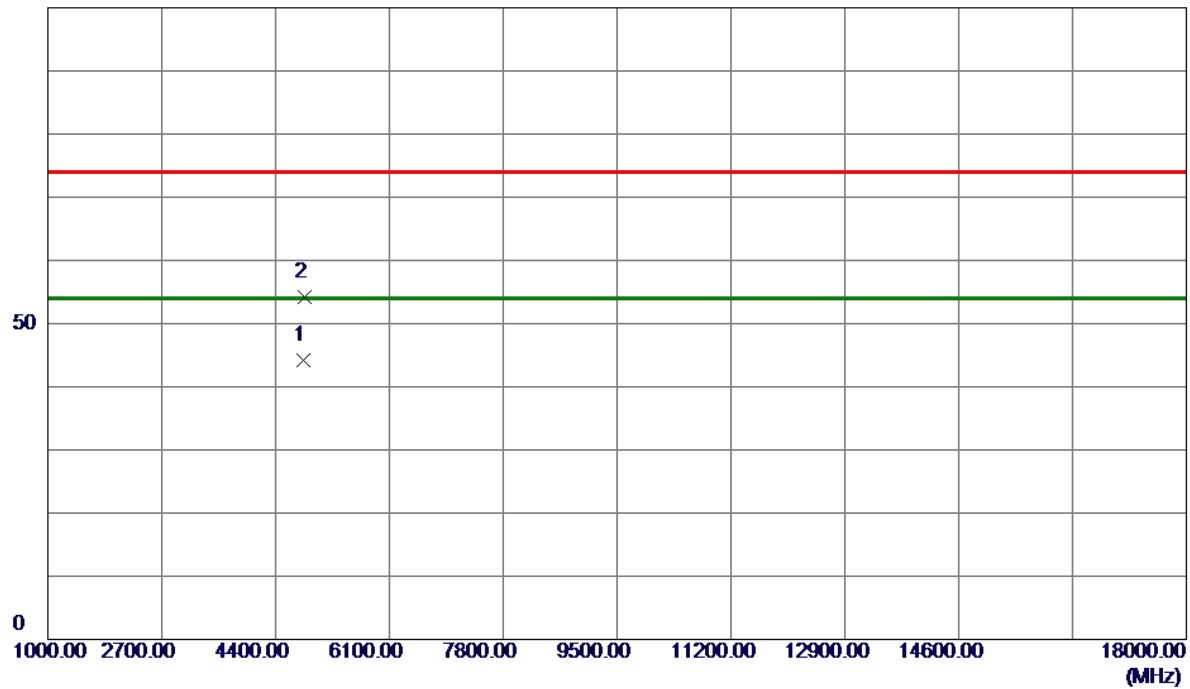
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2462.8000	105.27	7.79	113.06	54.00	59.06	AVG	No Limit
2	2462.9500	107.25	7.79	115.04	74.00	41.04	Peak	No Limit
3	2483.5000	47.18	7.81	54.99	74.00	-19.01	Peak	
4	2483.5000	38.40	7.81	46.21	54.00	-7.79	AVG	
5	2484.9500	47.55	7.81	55.36	74.00	-18.64	Peak	
6	2484.9500	38.52	7.81	46.33	54.00	-7.67	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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100 dBuV/m

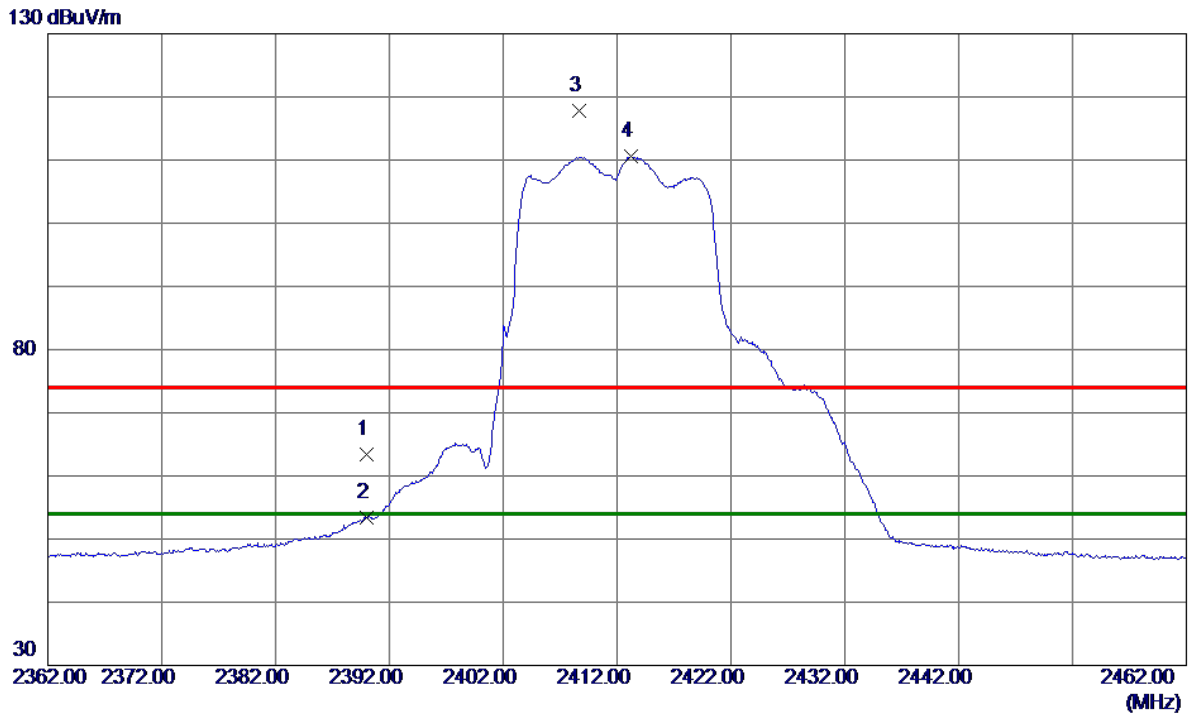


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4820.3500	41.40	2.83	44.23	54.00	-9.77	AVG	
2	4825.2500	51.39	2.84	54.23	74.00	-19.77	Peak	

REMARKS:

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

Test Mode	TX G Mode 2412 MHz	Polarization	Horizontal
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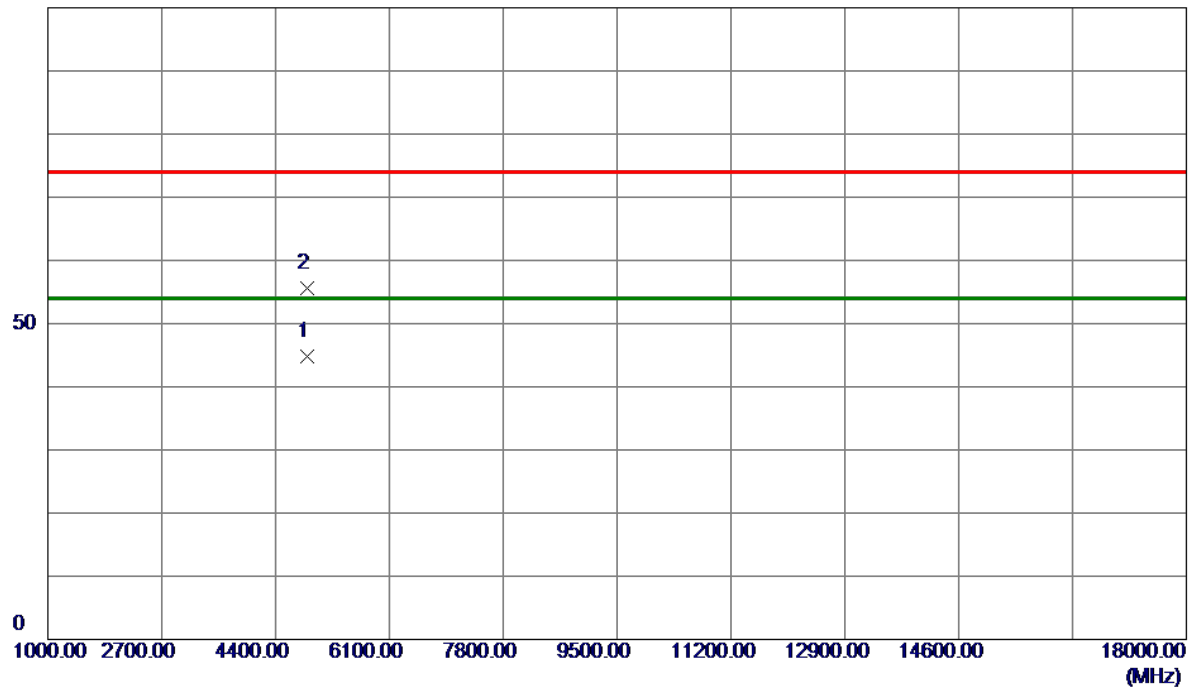
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	55.67	7.70	63.37	74.00	-10.63	Peak	
2	2390.0000	45.79	7.70	53.49	54.00	-0.51	AVG	
3	2408.6500	110.03	7.72	117.75	74.00	43.75	Peak	No Limit
4 *	2413.2000	102.84	7.73	110.57	54.00	56.57	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



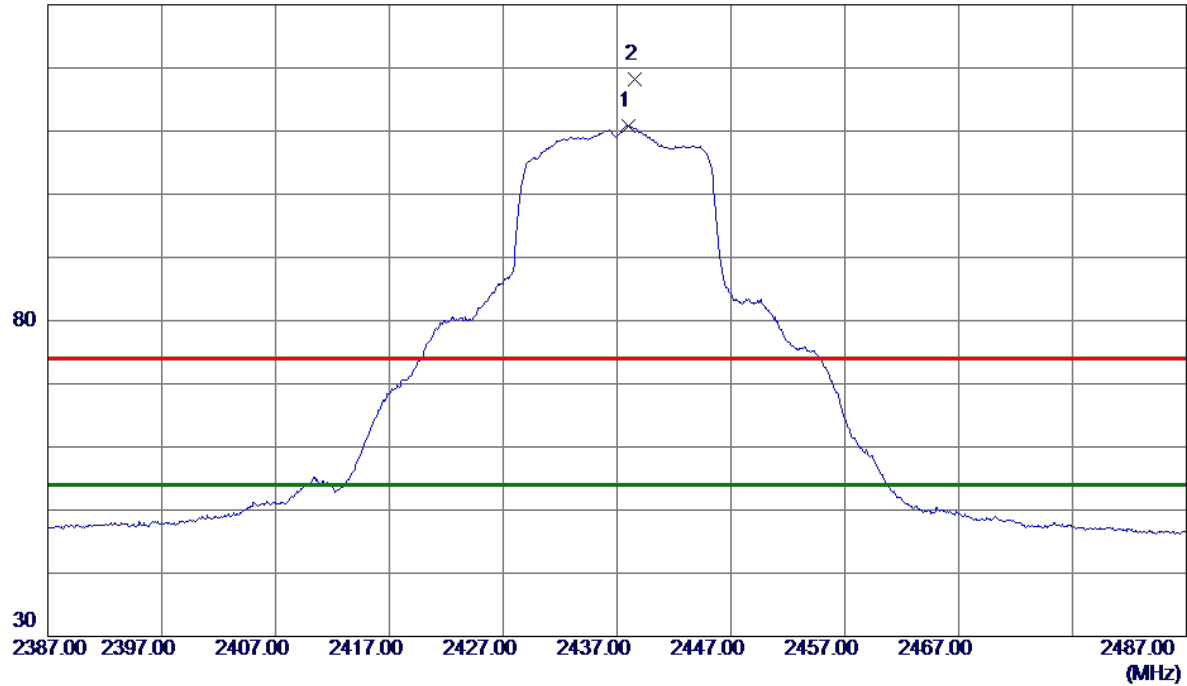
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4874.9500	41.83	2.96	44.79	54.00	-9.21	AVG	
2	4875.6000	52.58	2.96	55.54	74.00	-18.46	Peak	

REMARKS:

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

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



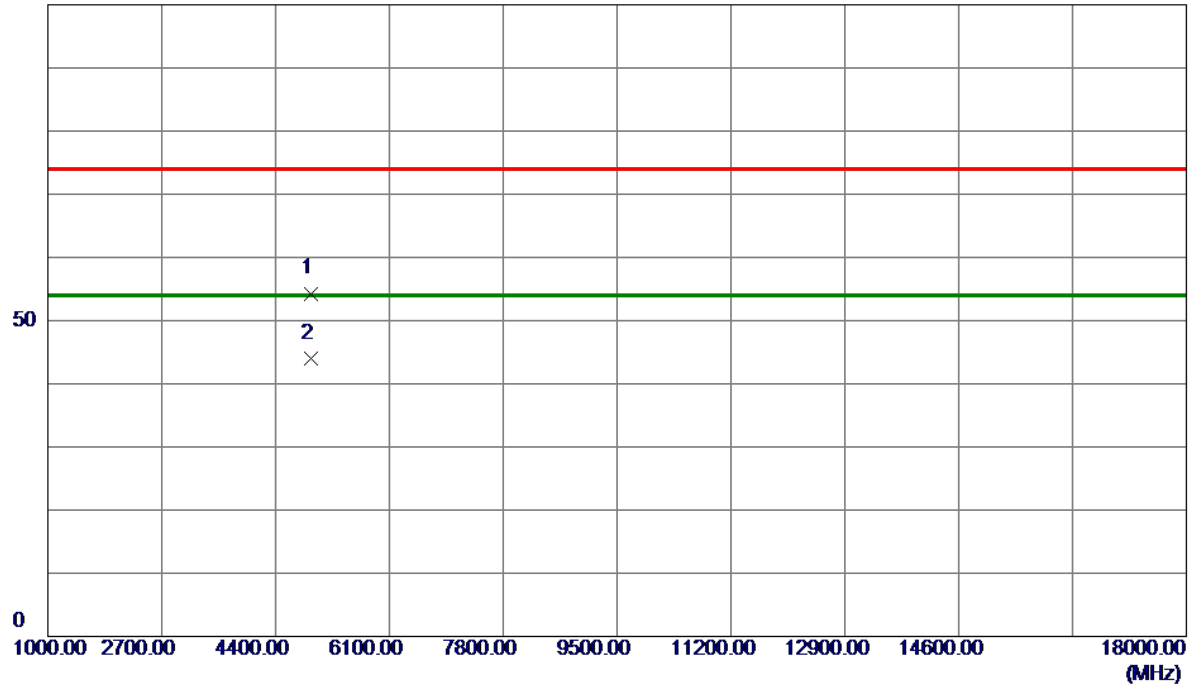
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2438.0000	103.10	7.76	110.86	54.00	56.86	AVG	No Limit
2	2438.5500	110.51	7.76	118.27	74.00	44.27	Peak	No Limit

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

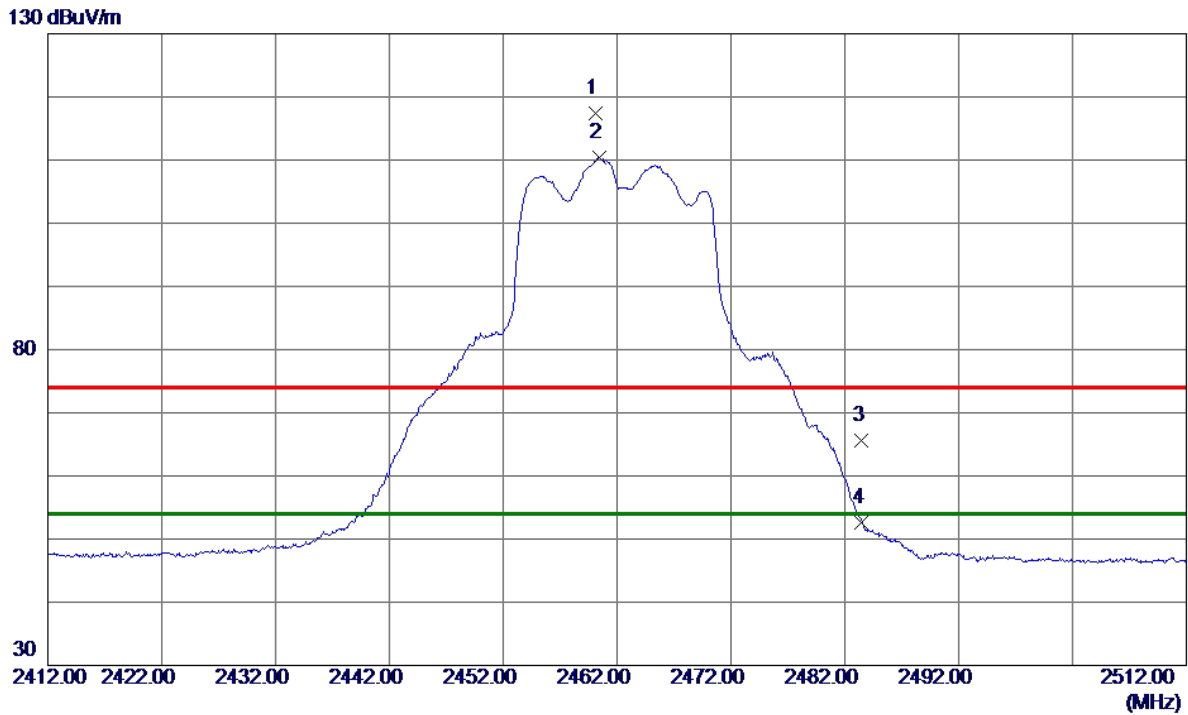


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4925.3250	51.22	3.08	54.30	74.00	-19.70	Peak	
2 *	4925.5500	40.83	3.08	43.91	54.00	-10.09	AVG	

REMARKS:

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

Test Mode	TX G Mode 2462 MHz	Polarization	Horizontal
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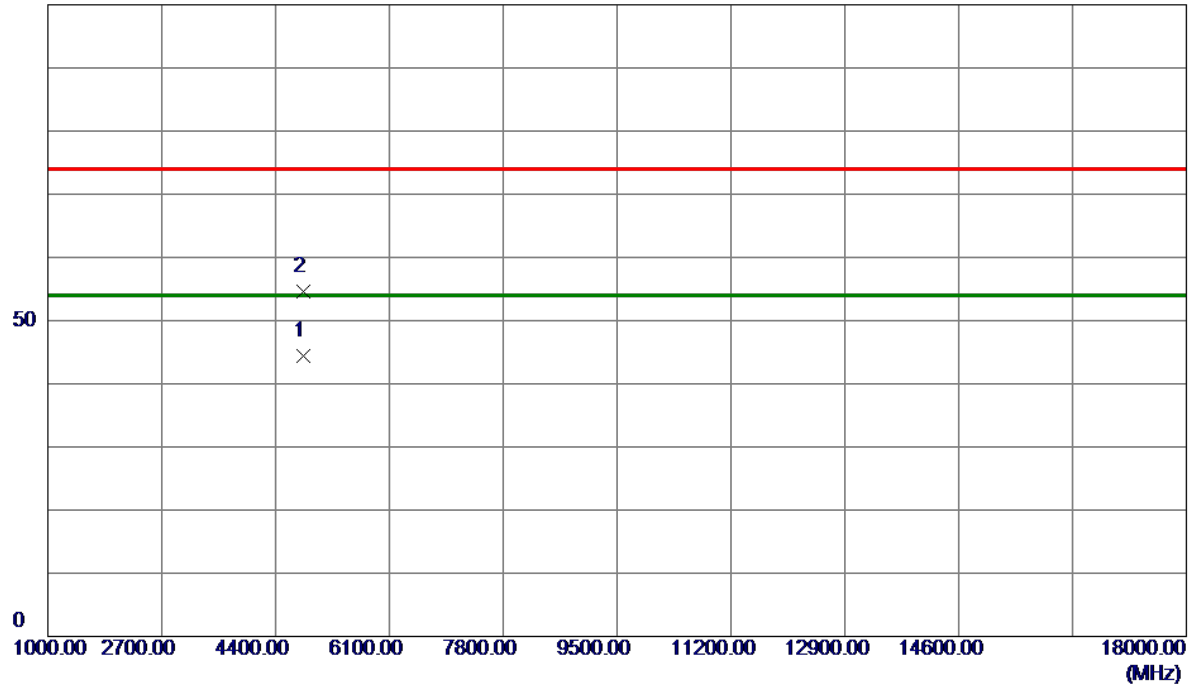
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2460.1000	109.67	7.78	117.45	74.00	43.45	Peak	No Limit
2 *	2460.4000	102.64	7.78	110.42	54.00	56.42	AVG	No Limit
3	2483.5000	57.75	7.81	65.56	74.00	-8.44	Peak	
4	2483.5000	44.71	7.81	52.52	54.00	-1.48	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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100 dBuV/m



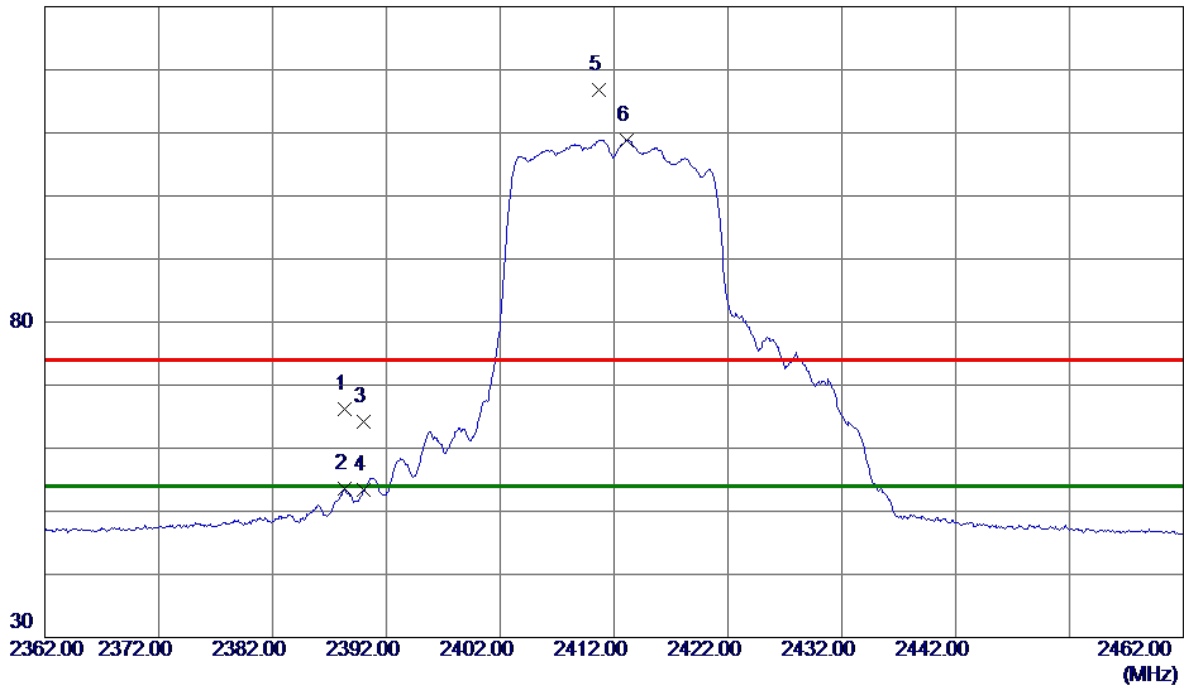
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4823.9250	41.63	2.84	44.47	54.00	-9.53	AVG	
2	4823.9750	51.84	2.84	54.68	74.00	-19.32	Peak	

REMARKS:

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

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



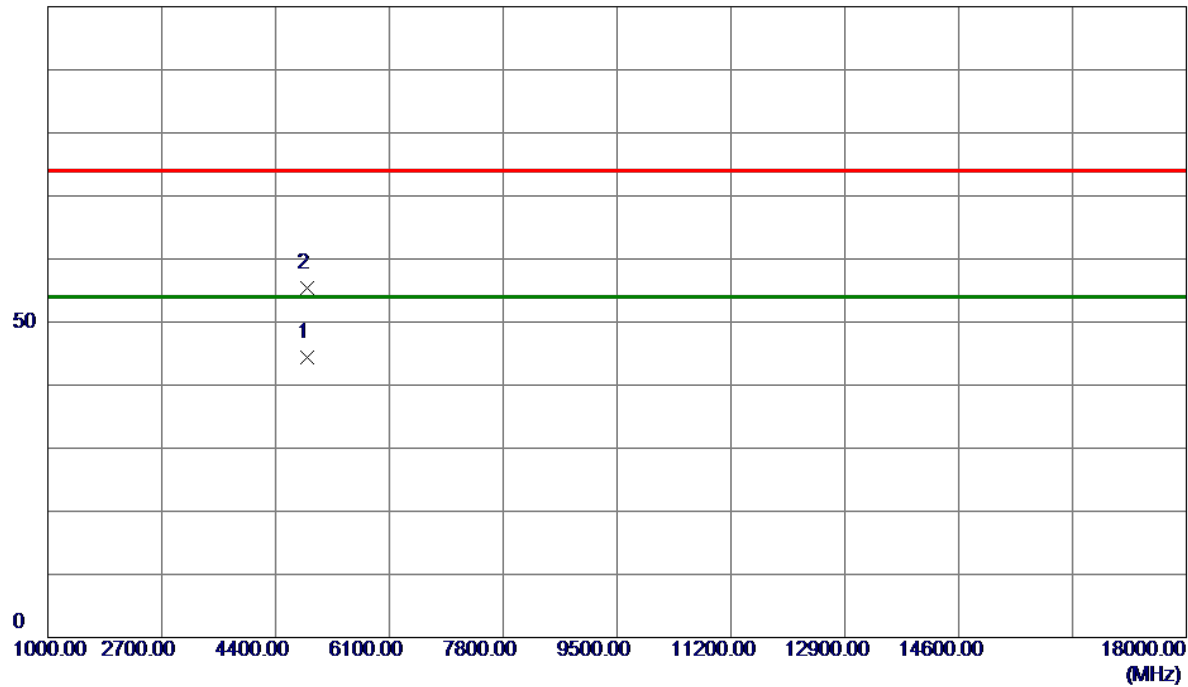
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2388.3000	58.55	7.70	66.25	74.00	-7.75	Peak	
2	2388.3000	45.82	7.70	53.52	54.00	-0.48	AVG	
3	2390.0000	56.50	7.70	64.20	74.00	-9.80	Peak	
4	2390.0000	45.63	7.70	53.33	54.00	-0.67	AVG	
5	2410.6500	108.99	7.72	116.71	74.00	42.71	Peak	No Limit
6 *	2413.1500	101.15	7.73	108.88	54.00	54.88	AVG	No Limit

REMARKS:

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

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



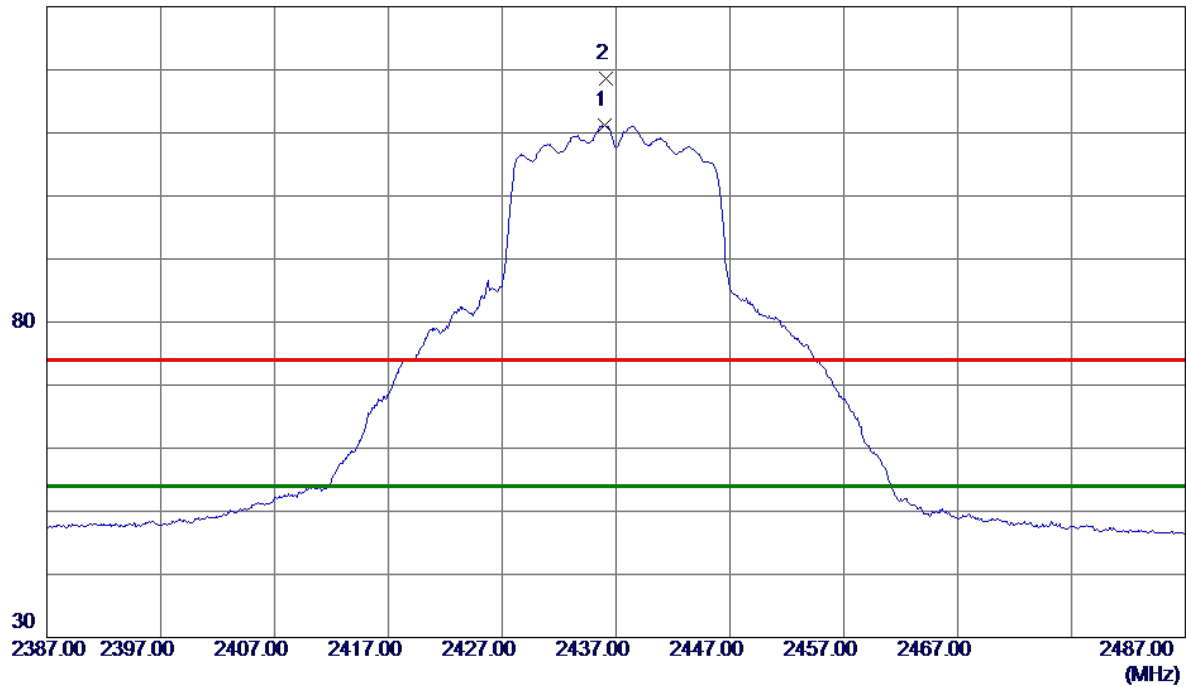
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4874.6750	41.51	2.96	44.47	54.00	-9.53	AVG	
2	4877.3250	52.45	2.96	55.41	74.00	-18.59	Peak	

REMARKS:

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

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



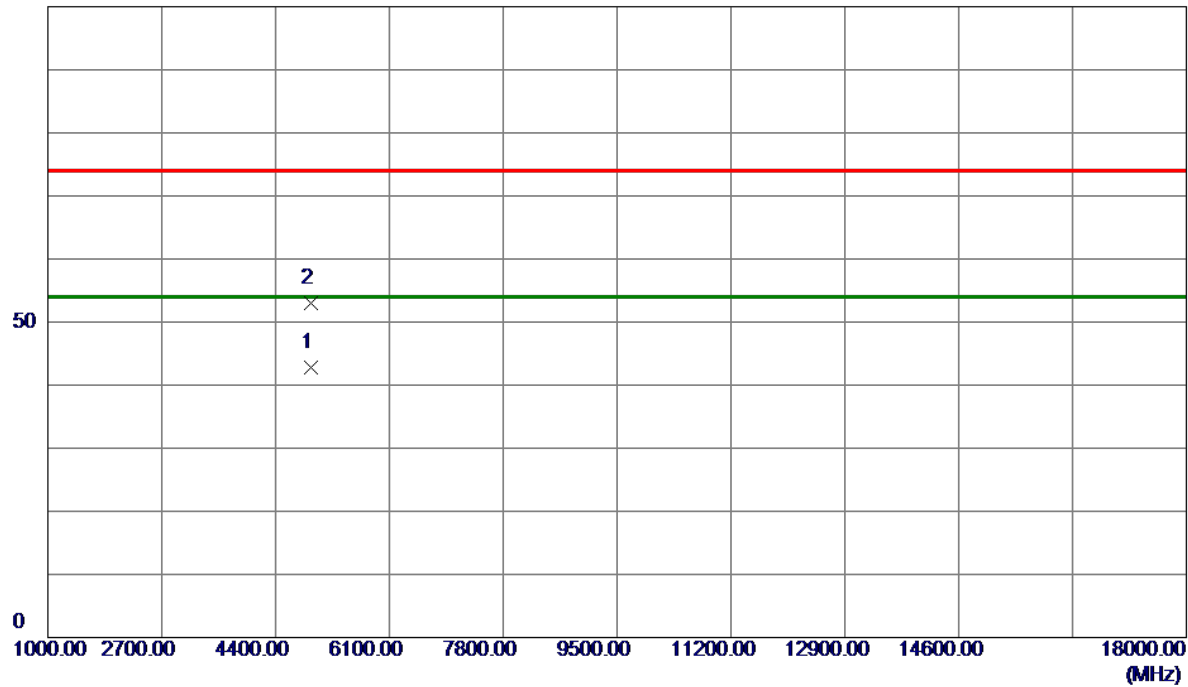
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2436.0000	103.42	7.75	111.17	54.00	57.17	AVG	No Limit
2	2436.1000	110.84	7.75	118.59	74.00	44.59	Peak	No Limit

REMARKS:

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

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



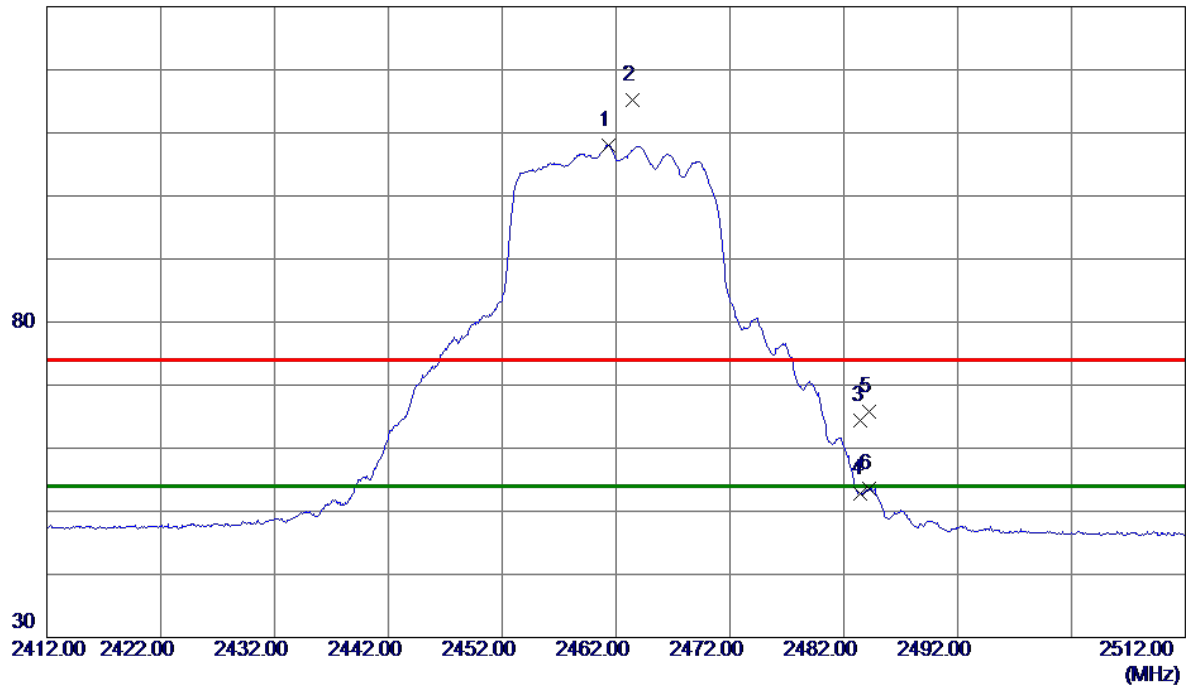
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4922.5000	39.70	3.07	42.77	54.00	-11.23	AVG	
2	4927.8250	49.84	3.08	52.92	74.00	-21.08	Peak	

REMARKS:

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

Test Mode	TX N(HT20) Mode 2462 MHz	Polarization	Horizontal
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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 *	2461.3000	100.28	7.78	108.06	54.00	54.06	AVG	No Limit
2	2463.4500	107.49	7.79	115.28	74.00	41.28	Peak	No Limit
3	2483.5000	56.63	7.81	64.44	74.00	-9.56	Peak	
4	2483.5000	45.07	7.81	52.88	54.00	-1.12	AVG	
5	2484.2500	57.94	7.81	65.75	74.00	-8.25	Peak	
6	2484.2500	45.77	7.81	53.58	54.00	-0.42	AVG	

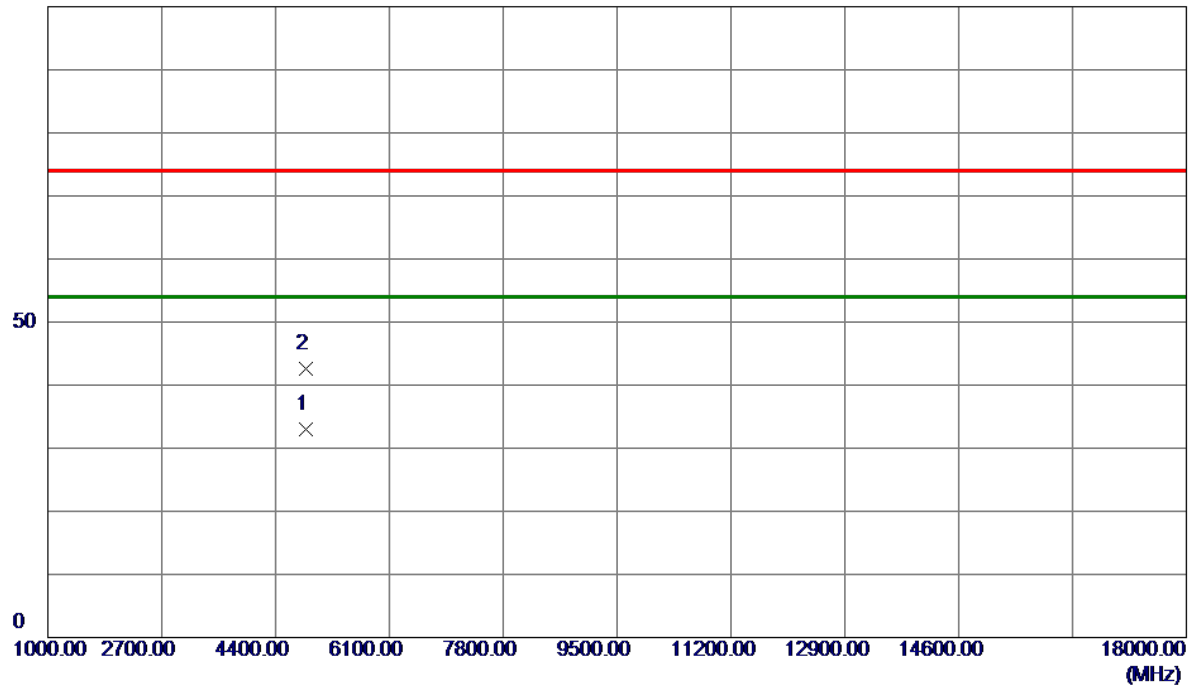
REMARKS:

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

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

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



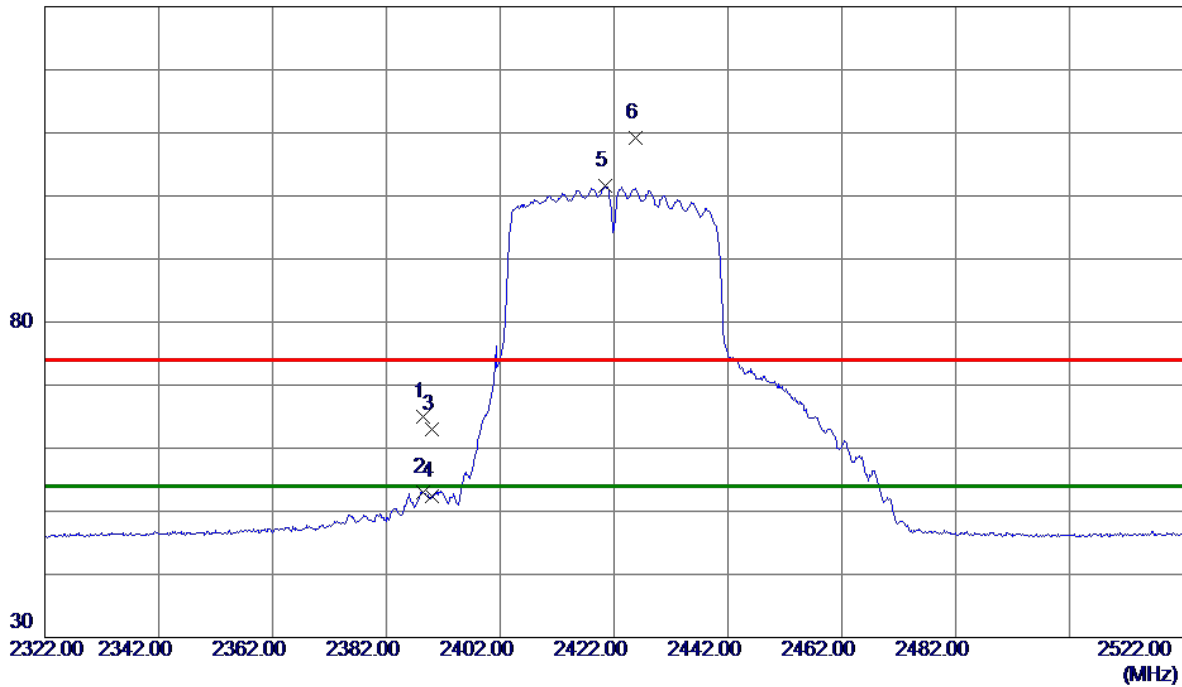
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4847.0000	30.02	2.89	32.91	54.00	-21.09	AVG	
2	4853.7500	39.72	2.91	42.63	74.00	-31.37	Peak	

REMARKS:

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

Test Mode	TX N(HT40) Mode 2422 MHz	Polarization	Horizontal
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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	2388.4000	57.32	7.70	65.02	74.00	-8.98	Peak	
2	2388.4000	45.33	7.70	53.03	54.00	-0.97	AVG	
3	2390.0000	55.27	7.70	62.97	74.00	-11.03	Peak	
4	2390.0000	44.72	7.70	52.42	54.00	-1.58	AVG	
5 *	2420.4000	93.89	7.73	101.62	54.00	47.62	AVG	No Limit
6	2425.8000	101.55	7.74	109.29	74.00	35.29	Peak	No Limit

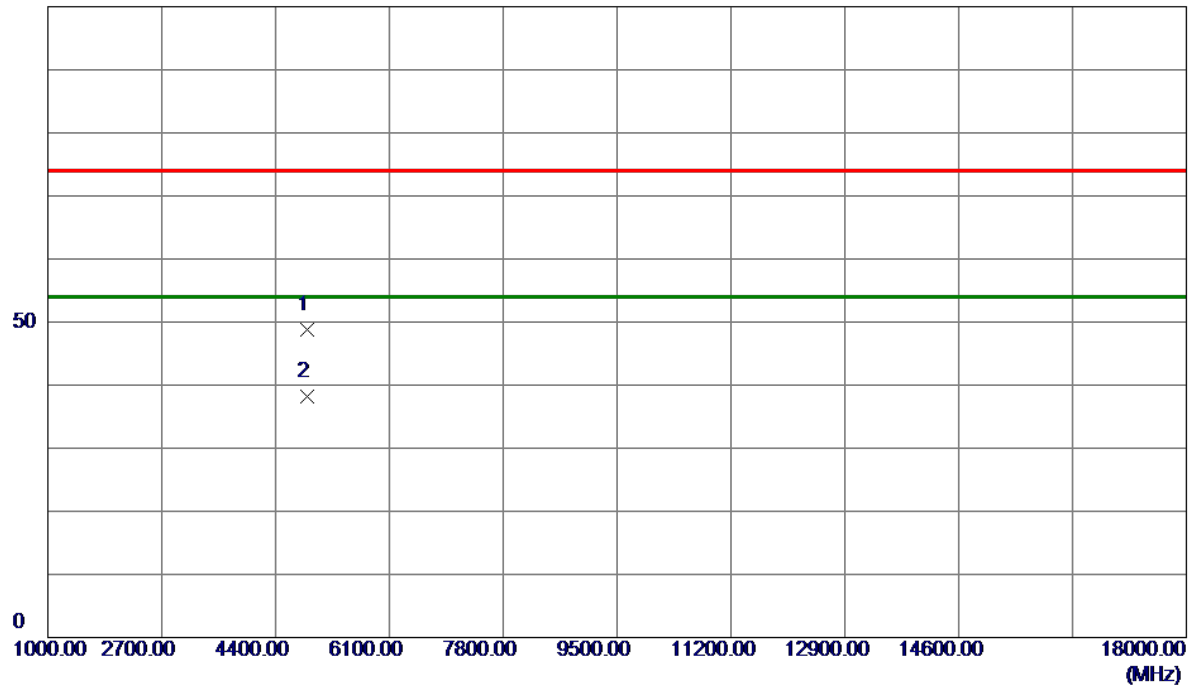
REMARKS:

(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



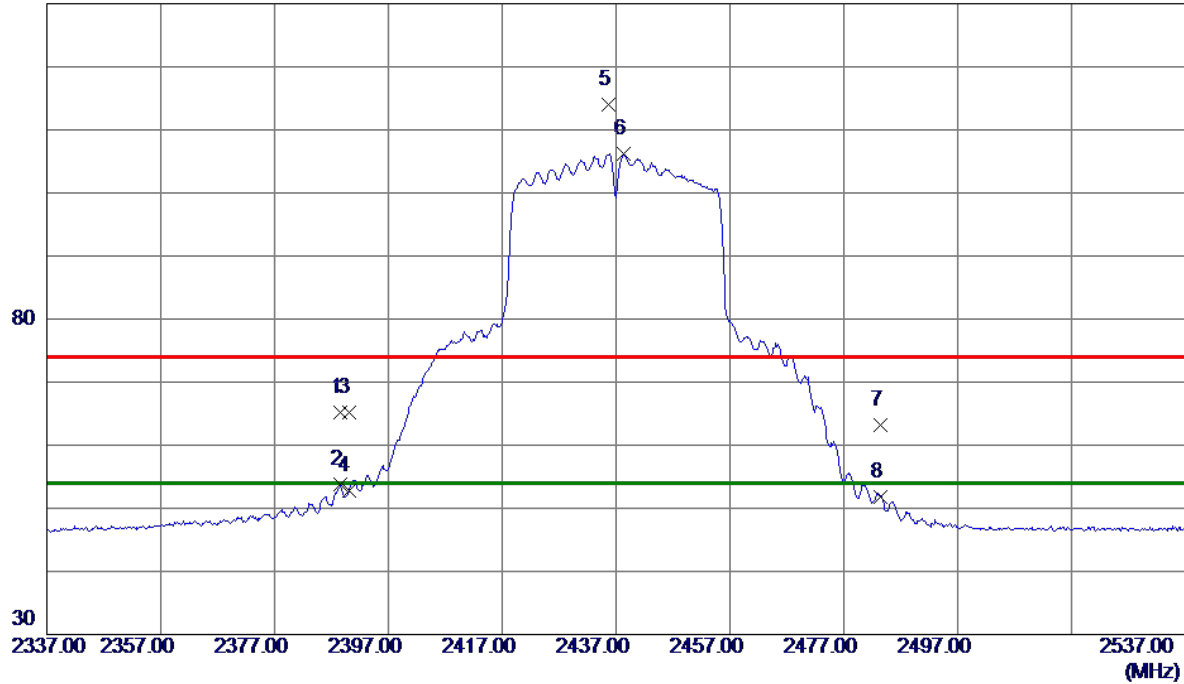
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4874.5500	45.84	2.96	48.80	74.00	-25.20	Peak	
2 *	4874.7000	35.25	2.96	38.21	54.00	-15.79	AVG	

REMARKS:

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

Test Mode	TX N(HT40) Mode 2437 MHz	Polarization	Horizontal
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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	2388.6000	57.45	7.70	65.15	74.00	-8.85	Peak	
2	2388.6000	46.10	7.70	53.80	54.00	-0.20	AVG	
3	2390.0000	57.47	7.70	65.17	74.00	-8.83	Peak	
4	2390.0000	45.09	7.70	52.79	54.00	-1.21	AVG	
5	2435.7000	106.19	7.75	113.94	74.00	39.94	Peak	No Limit
6 *	2438.4000	98.53	7.76	106.29	54.00	52.29	AVG	No Limit
7	2483.5000	55.42	7.81	63.23	74.00	-10.77	Peak	
8	2483.5000	43.92	7.81	51.73	54.00	-2.27	AVG	

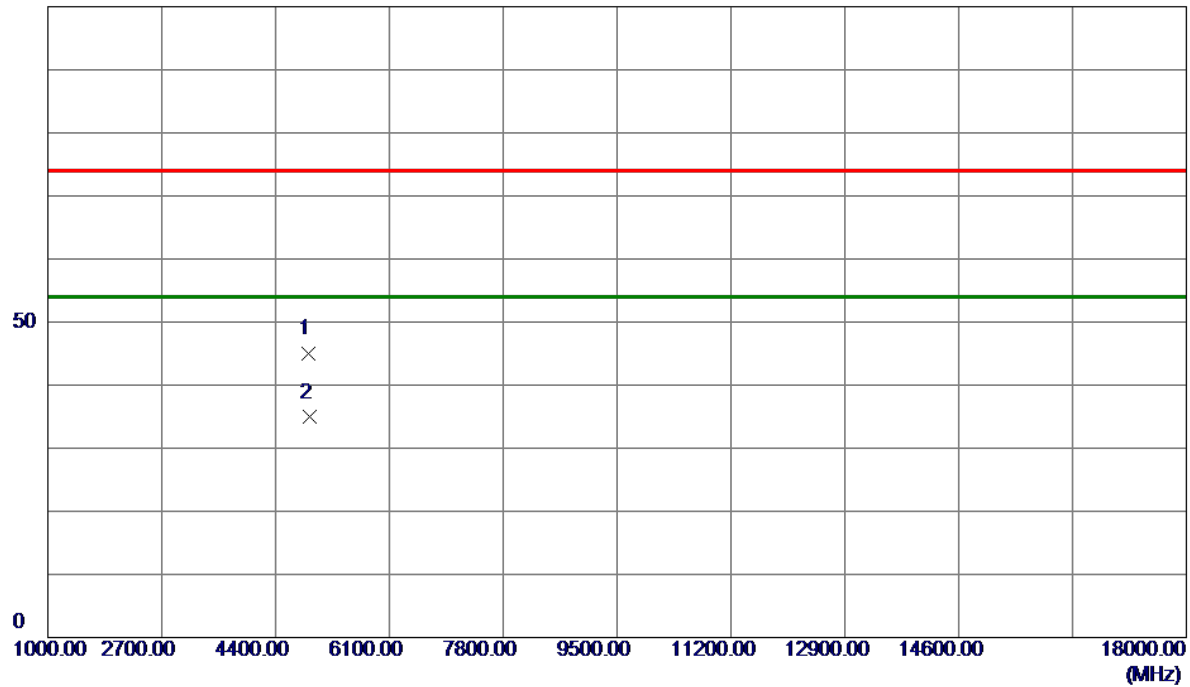
REMARKS:

(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



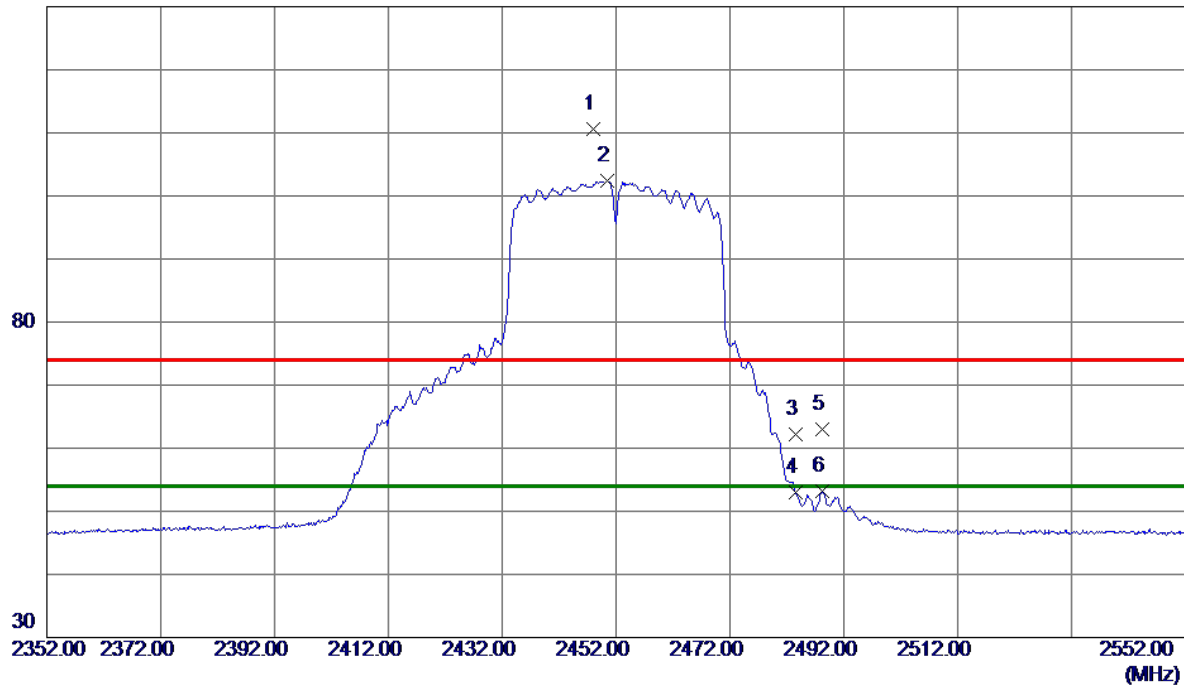
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4892.0500	41.97	3.00	44.97	74.00	-29.03	Peak	
2 *	4910.0500	31.86	3.04	34.90	54.00	-19.10	AVG	

REMARKS:

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

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



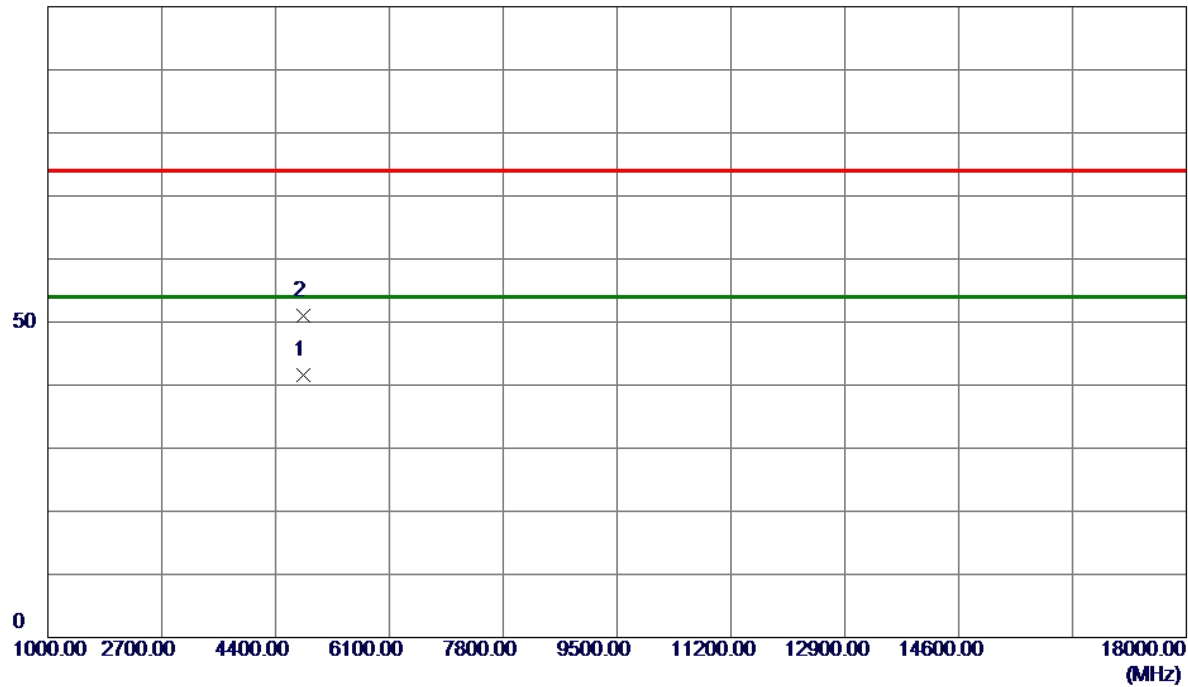
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2448.1000	102.88	7.77	110.65	74.00	36.65	Peak	No Limit
2 *	2450.4000	94.59	7.77	102.36	54.00	48.36	AVG	No Limit
3	2483.5000	54.47	7.81	62.28	74.00	-11.72	Peak	
4	2483.5000	45.26	7.81	53.07	54.00	-0.93	AVG	
5	2488.3000	55.21	7.82	63.03	74.00	-10.97	Peak	
6	2488.3000	45.29	7.82	53.11	54.00	-0.89	AVG	

REMARKS:

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

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



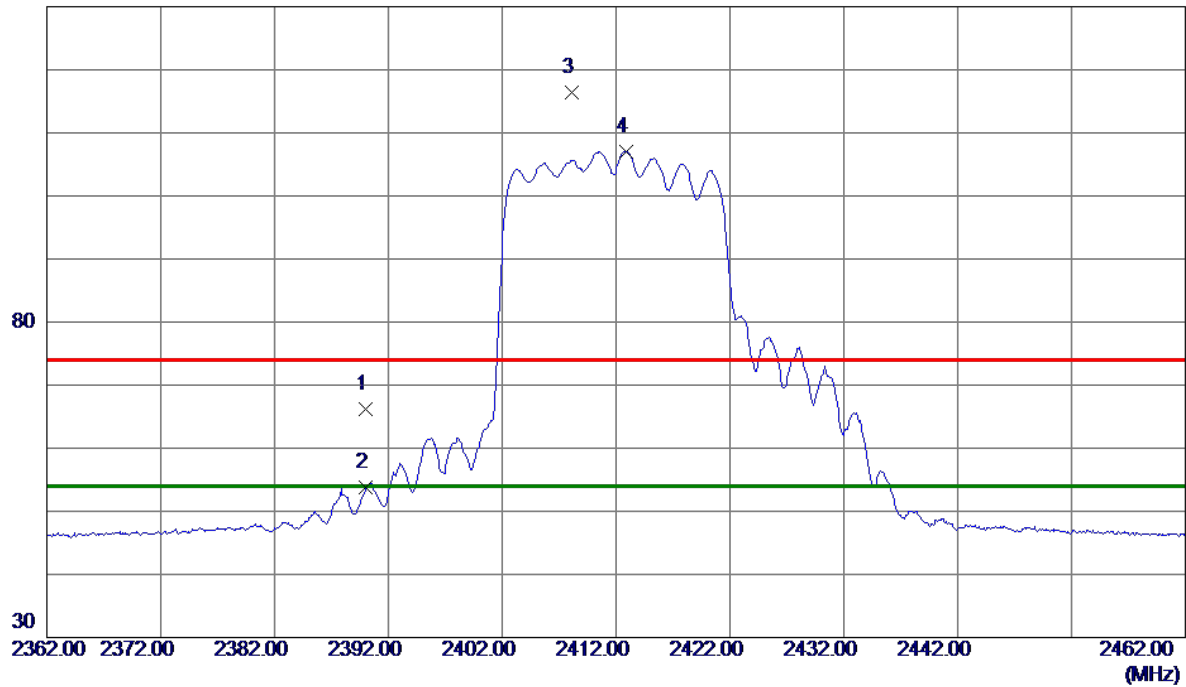
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4822.1000	38.84	2.84	41.68	54.00	-12.32	AVG	
2	4824.4250	48.12	2.84	50.96	74.00	-23.04	Peak	

REMARKS:

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

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



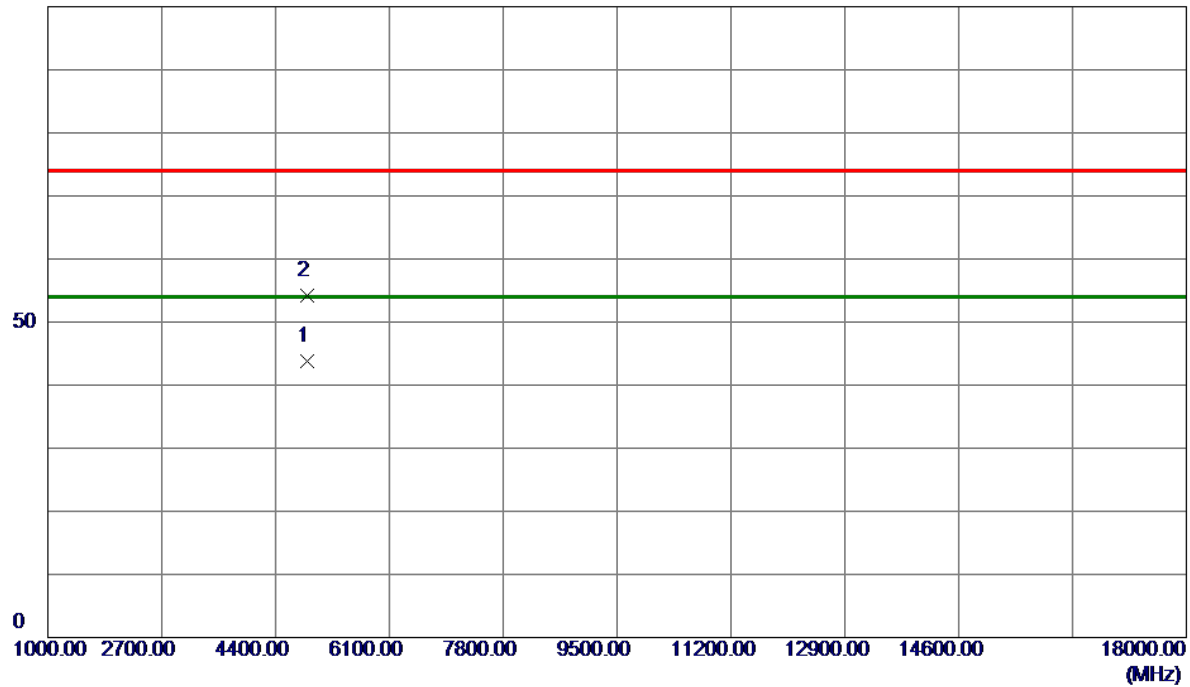
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	58.49	7.70	66.19	74.00	-7.81	Peak	
2	2390.0000	46.16	7.70	53.86	54.00	-0.14	AVG	
3	2408.1500	108.68	7.72	116.40	74.00	42.40	Peak	No Limit
4 *	2412.8500	99.37	7.73	107.10	54.00	53.10	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



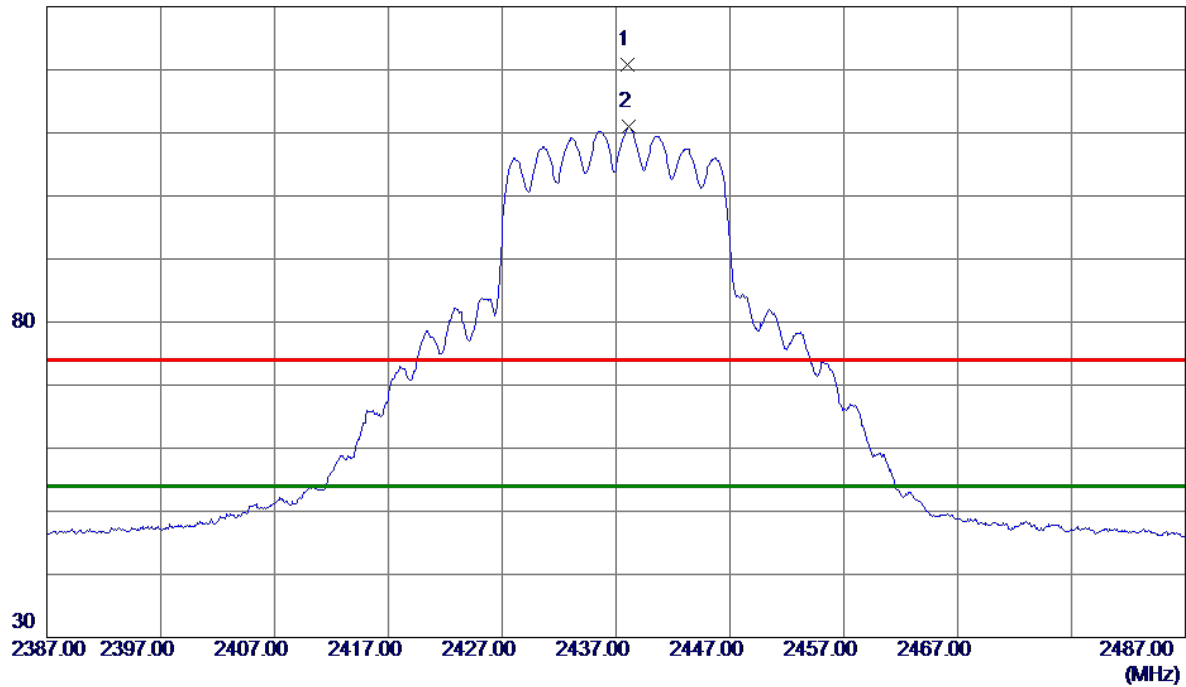
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4874.5750	40.76	2.96	43.72	54.00	-10.28	AVG	
2	4877.3000	51.31	2.96	54.27	74.00	-19.73	Peak	

REMARKS:

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

Test Mode	TX AX(HE20) Mode 2437 MHz	Polarization	Horizontal
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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	2438.0500	112.97	7.76	120.73	74.00	46.73	Peak	No Limit
2 *	2438.1000	103.15	7.76	110.91	54.00	56.91	AVG	No Limit

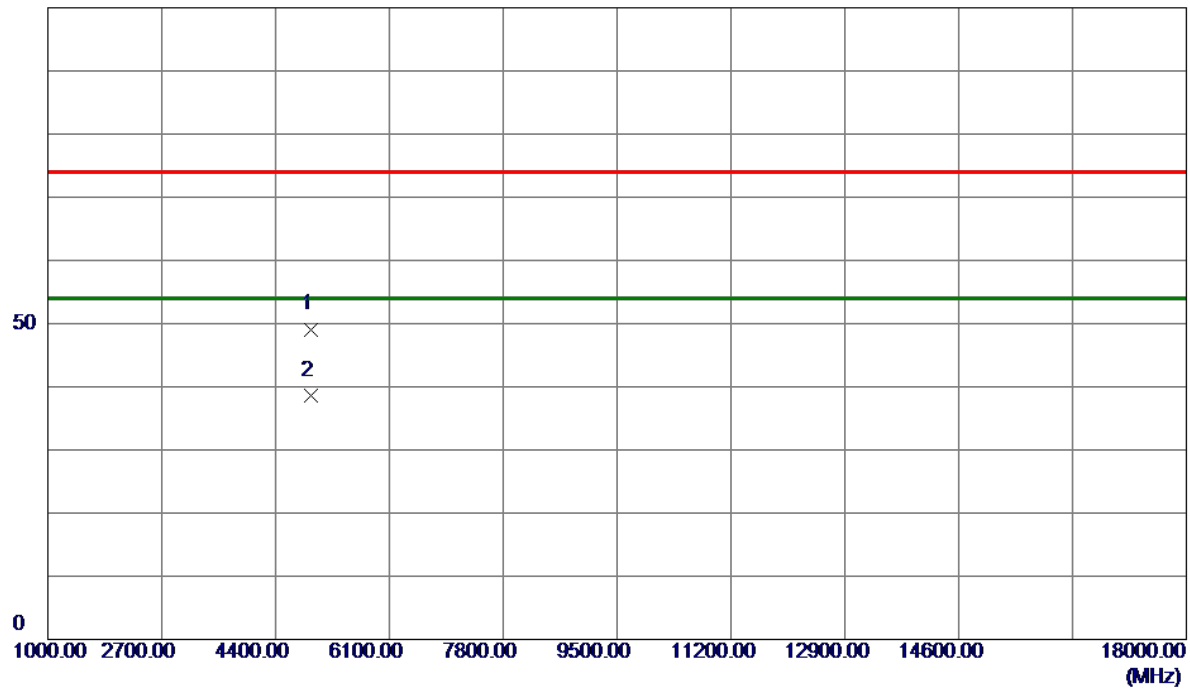
REMARKS:

(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



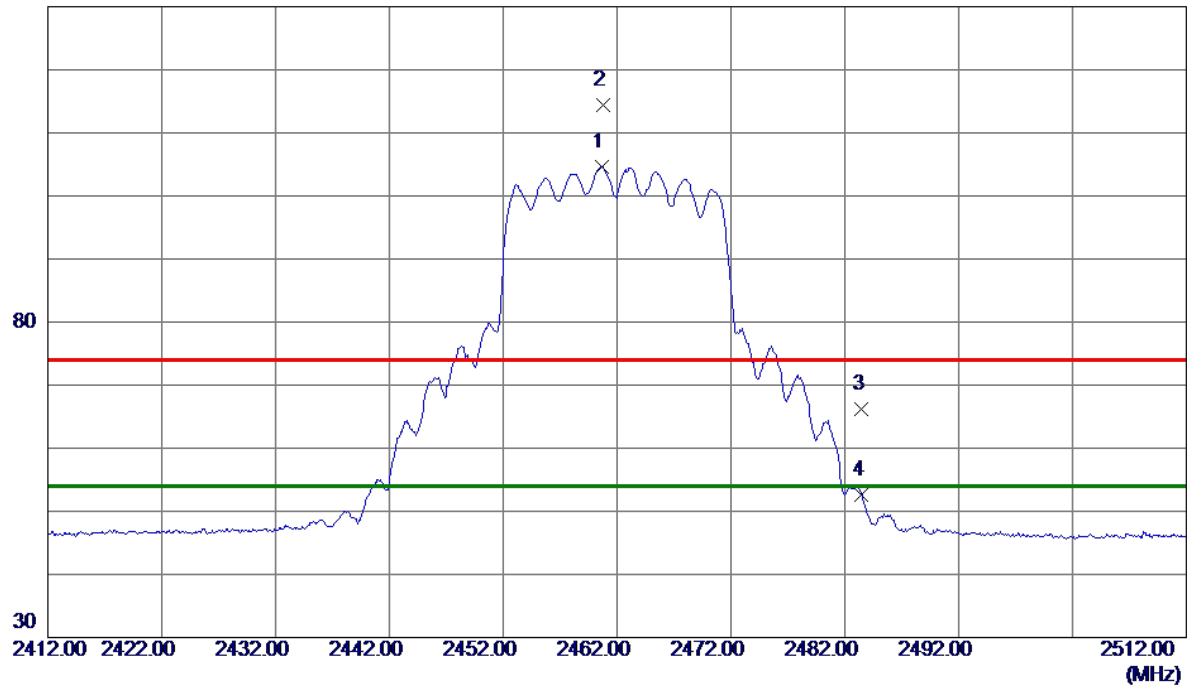
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4924.2250	46.03	3.07	49.10	74.00	-24.90	Peak	
2 *	4924.6500	35.62	3.07	38.69	54.00	-15.31	AVG	

REMARKS:

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

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



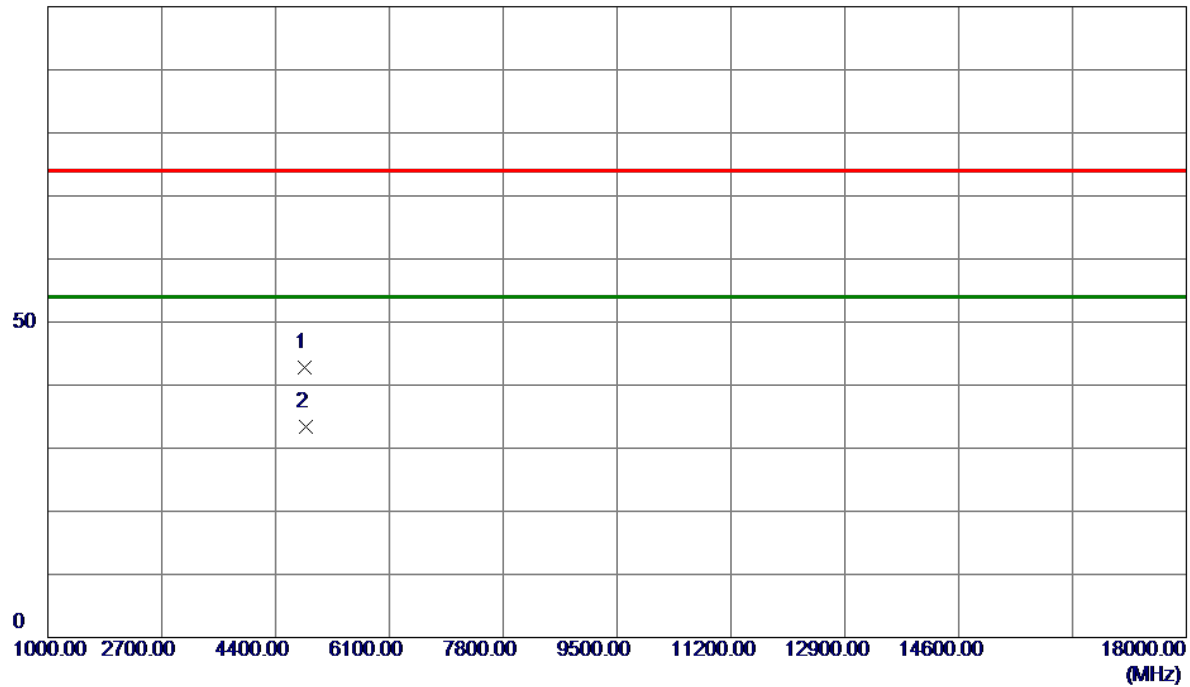
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2460.6500	96.89	7.78	104.67	54.00	50.67	AVG	No Limit
2	2460.7500	106.64	7.78	114.42	74.00	40.42	Peak	No Limit
3	2483.5000	58.36	7.81	66.17	74.00	-7.83	Peak	
4	2483.5000	44.76	7.81	52.57	54.00	-1.43	AVG	

REMARKS:

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

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



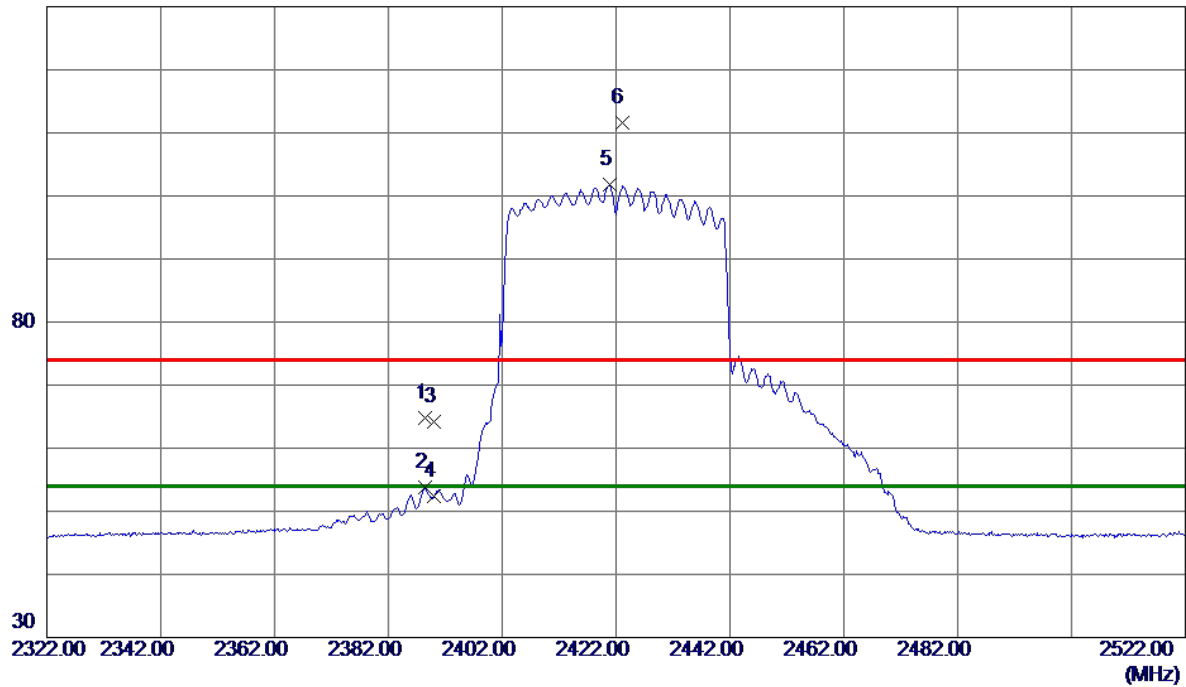
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4842.4500	40.00	2.88	42.88	74.00	-31.12	Peak	
2 *	4844.0500	30.47	2.89	33.36	54.00	-20.64	AVG	

REMARKS:

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

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



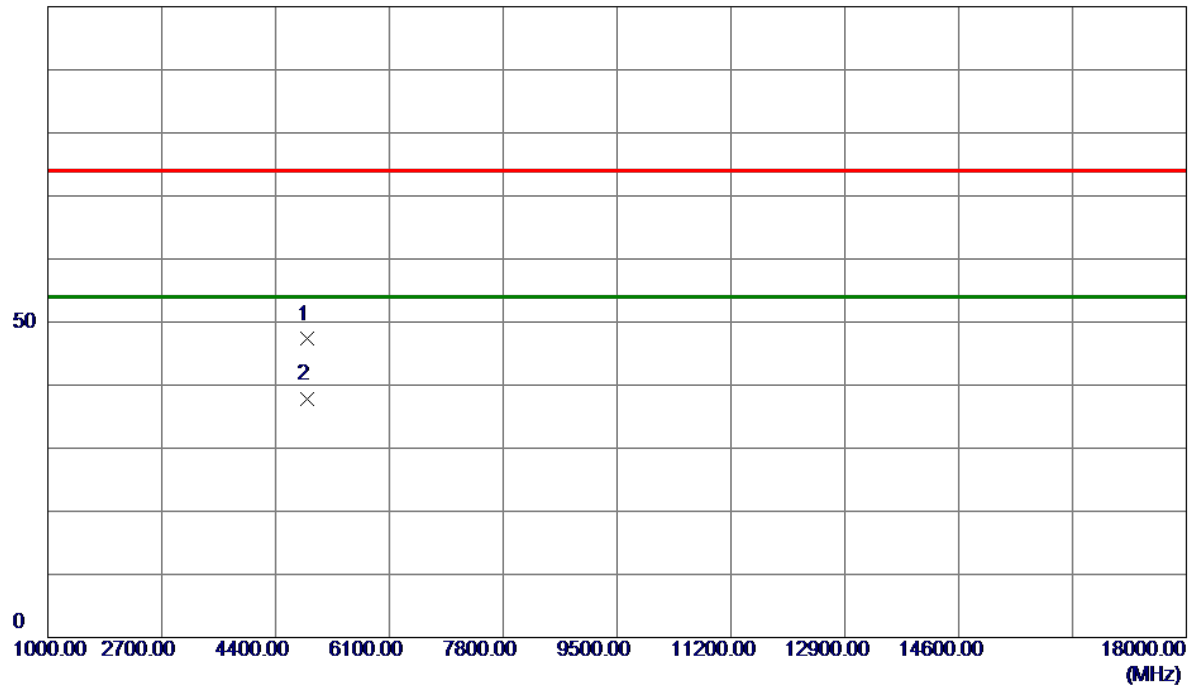
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2388.5000	57.11	7.70	64.81	74.00	-9.19	Peak	
2	2388.5000	46.05	7.70	53.75	54.00	-0.25	AVG	
3	2390.0000	56.47	7.70	64.17	74.00	-9.83	Peak	
4	2390.0000	44.62	7.70	52.32	54.00	-1.68	AVG	
5 *	2420.8000	94.07	7.73	101.80	54.00	47.80	AVG	No Limit
6	2423.0000	103.88	7.74	111.62	74.00	37.62	Peak	No Limit

REMARKS:

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

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



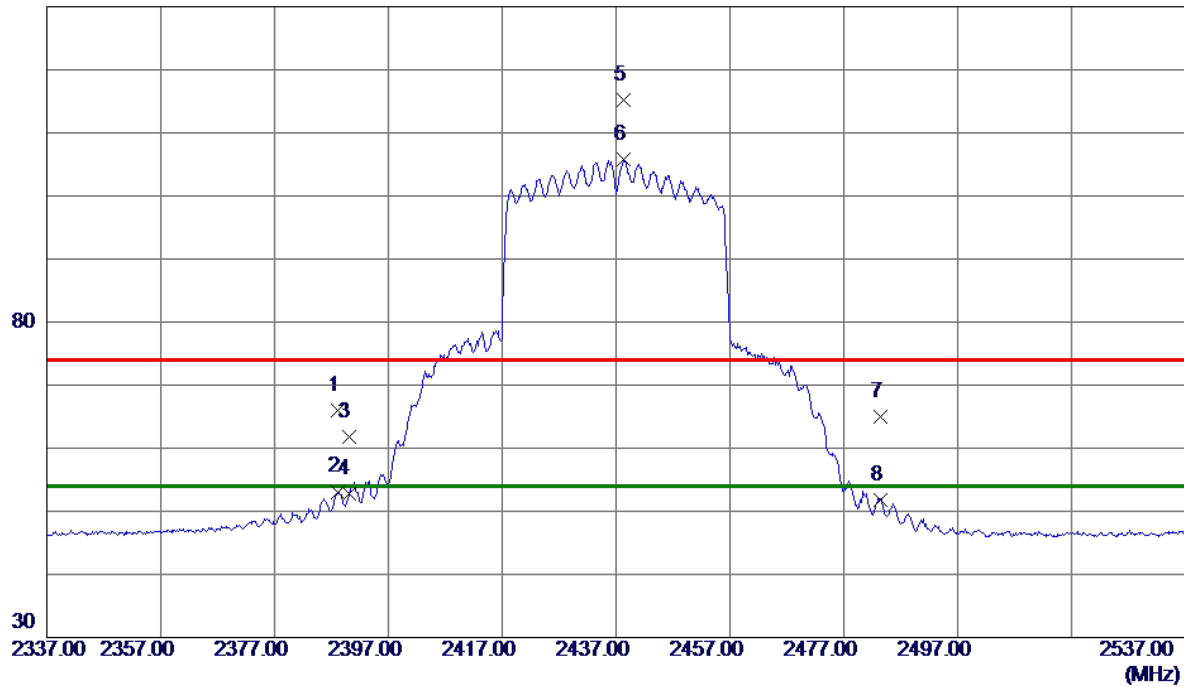
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	4865.2000	44.36	2.94	47.30	74.00	-26.70	Peak	
2 *	4877.2000	34.77	2.96	37.73	54.00	-16.27	AVG	

REMARKS:

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

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



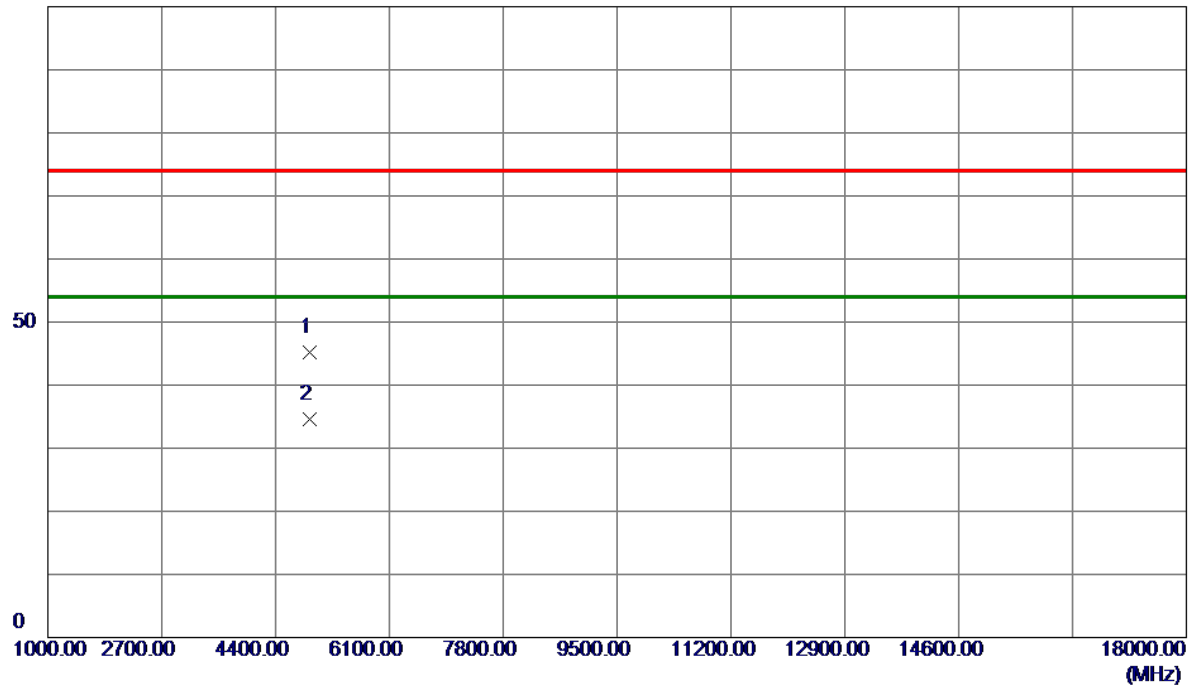
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2388.1000	58.26	7.70	65.96	74.00	-8.04	Peak	
2	2388.1000	45.40	7.70	53.10	54.00	-0.90	AVG	
3	2390.0000	54.14	7.70	61.84	74.00	-12.16	Peak	
4	2390.0000	45.08	7.70	52.78	54.00	-1.22	AVG	
5	2438.4000	107.41	7.76	115.17	74.00	41.17	Peak	No Limit
6 *	2438.4000	98.07	7.76	105.83	54.00	51.83	AVG	No Limit
7	2483.5000	57.22	7.81	65.03	74.00	-8.97	Peak	
8	2483.5000	43.91	7.81	51.72	54.00	-2.28	AVG	

REMARKS:

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

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

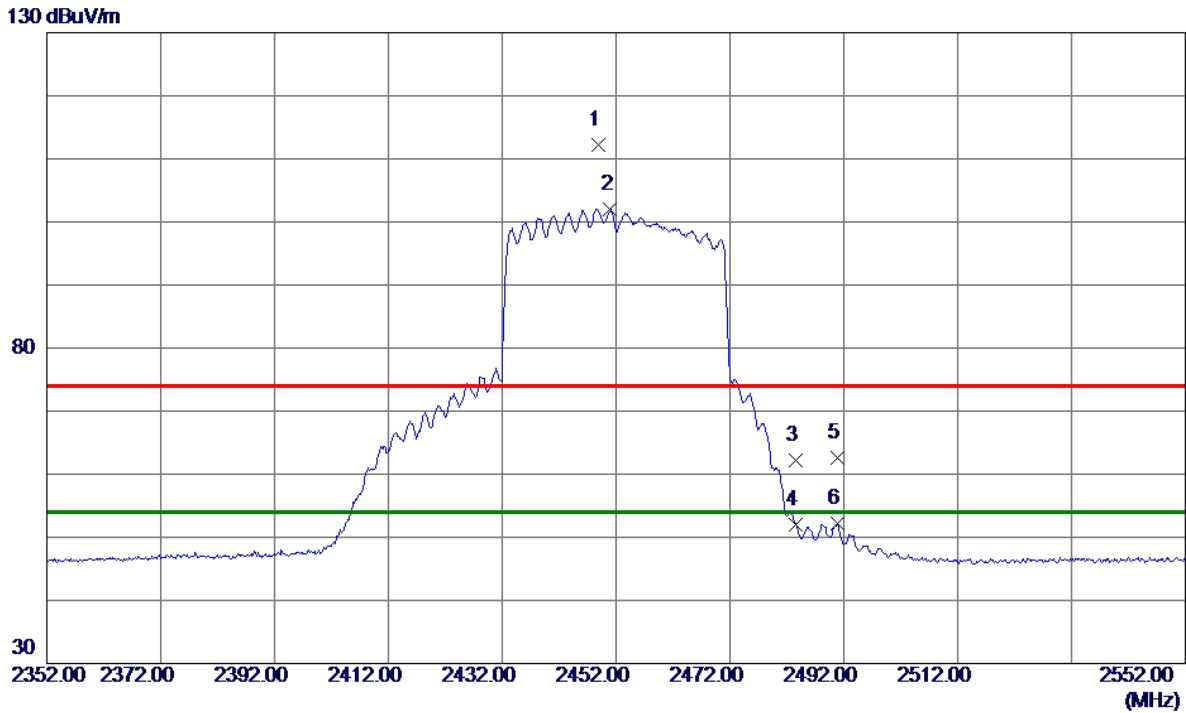


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4909.3000	42.15	3.04	45.19	74.00	-28.81	Peak	
2 *	4912.3000	31.51	3.05	34.56	54.00	-19.44	AVG	

REMARKS:

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

Test Mode	TX AX(HE40) Mode 2452 MHz	Polarization	Horizontal
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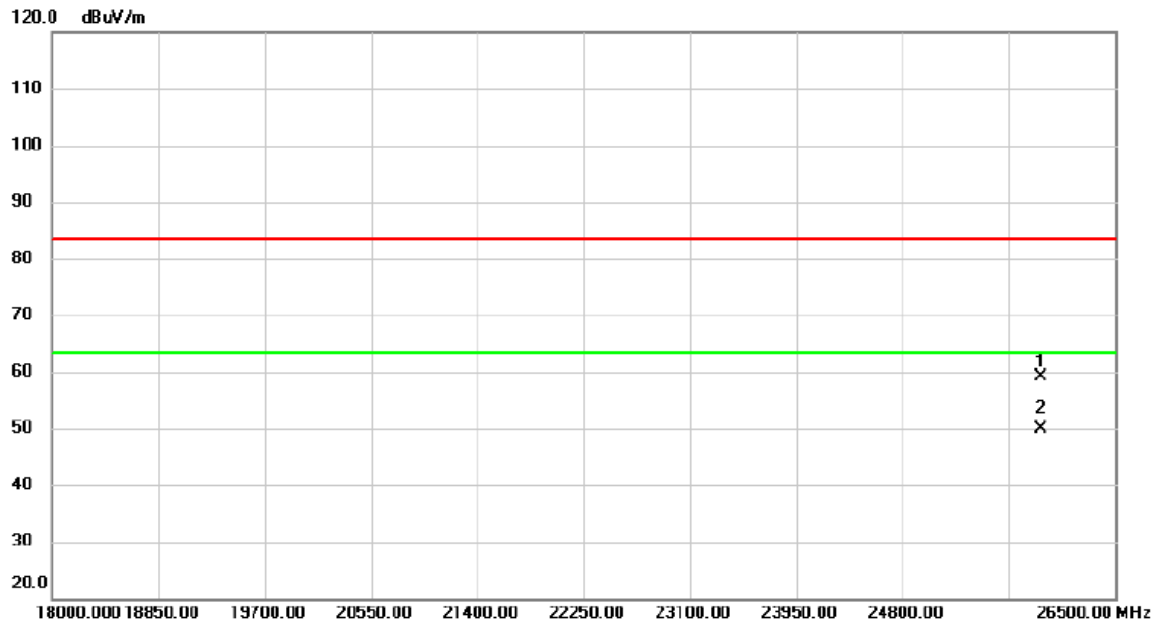
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2448.9000	104.43	7.77	112.20	74.00	38.20	Peak	No Limit
2 *	2451.0000	94.24	7.77	102.01	54.00	48.01	AVG	No Limit
3	2483.5000	54.32	7.81	62.13	74.00	-11.87	Peak	
4	2483.5000	44.27	7.81	52.08	54.00	-1.92	AVG	
5	2490.9000	54.77	7.82	62.59	74.00	-11.41	Peak	
6	2490.9000	44.34	7.82	52.16	54.00	-1.84	AVG	

REMARKS:

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

(2) $\text{Margin Level} = \text{Measurement Value} - \text{Limit Value}.$

Test Mode	TX AX(HE20) Mode 2437 MHz	Polarization	Vertical
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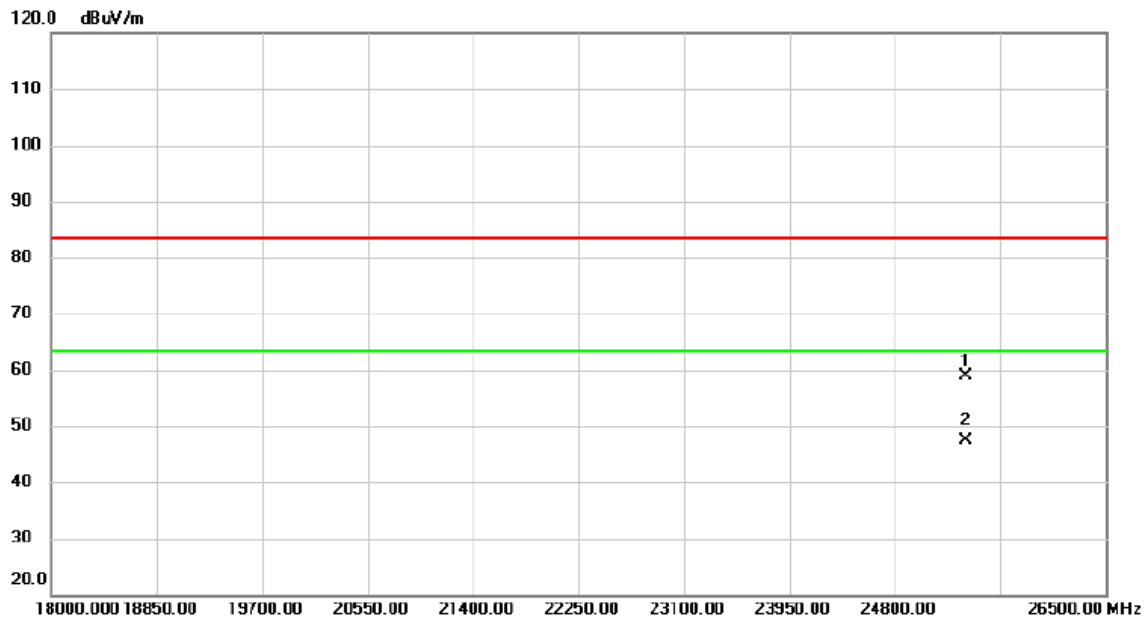
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		25905.00	46.86	12.28	59.14	83.50	-24.36	peak	
2	*	25905.00	37.69	12.28	49.97	63.50	-13.53	AVG	

REMARKS:

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

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

Test Mode	TX AX(HE20) Mode 2437 MHz	Polarization	Horizontal
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No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		25373.75	46.60	12.18	58.78	83.50	-24.72	peak	
2	*	25373.75	35.29	12.18	47.47	63.50	-16.03	AVG	

REMARKS:

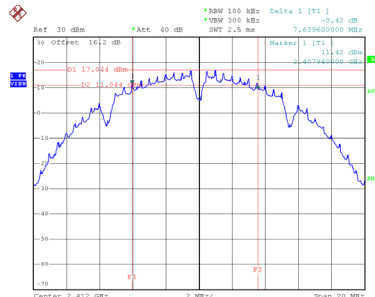
- (1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

APPENDIX E - BANDWIDTH

Test Mode	TX B Mode
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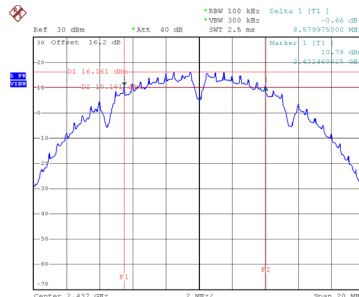
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	7.640	12.720	0.5	Complies
06	2437	8.580	12.720	0.5	Complies
11	2462	7.610	12.800	0.5	Complies

CH01



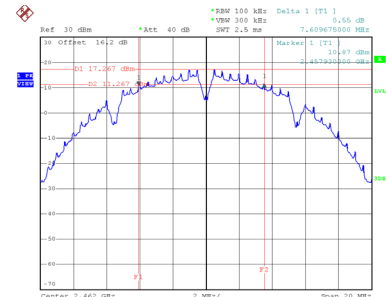
Date: 1.AUG.2024 14:32:26

CH06
6 dB Bandwidth



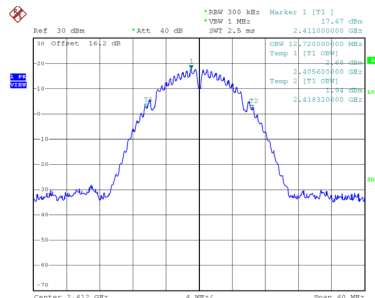
Date: 1.AUG.2024 14:35:44

CH11

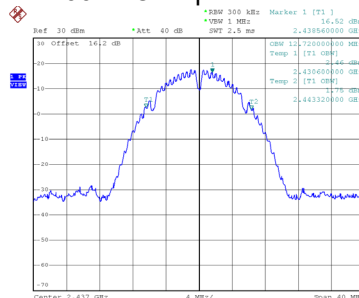


Date: 1.AUG.2024 14:38:37

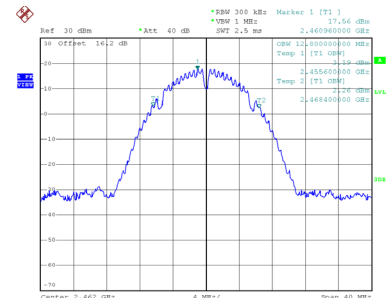
99 % Occupied Bandwidth



Date: 1.AUG.2024 14:32:34



Date: 1.AUG.2024 14:35:52

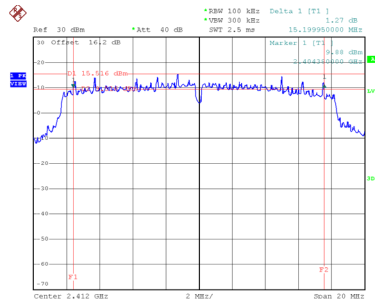


Date: 1.AUG.2024 14:38:45

Test Mode	TX G Mode
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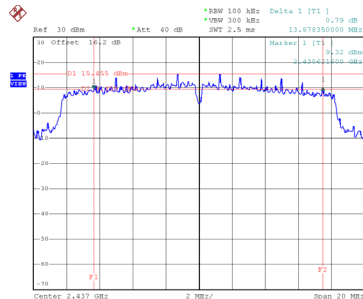
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	15.200	17.600	0.5	Complies
06	2437	13.878	18.000	0.5	Complies
11	2462	15.080	18.720	0.5	Complies

CH01



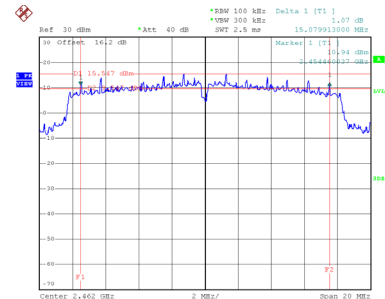
Date: 1.AUG.2024 14:41:01

CH06
6 dB Bandwidth



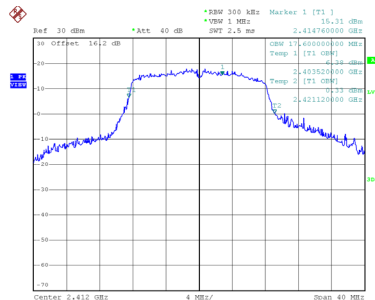
Date: 1.AUG.2024 14:43:17

CH11

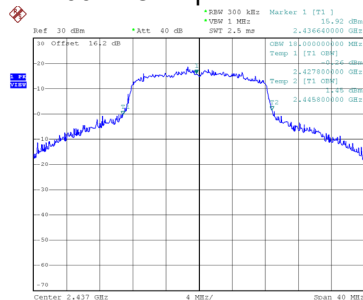


Date: 1.AUG.2024 14:45:26

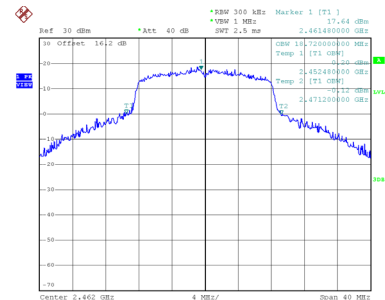
99 % Occupied Bandwidth



Date: 1.AUG.2024 14:41:08



Date: 1.AUG.2024 14:43:25

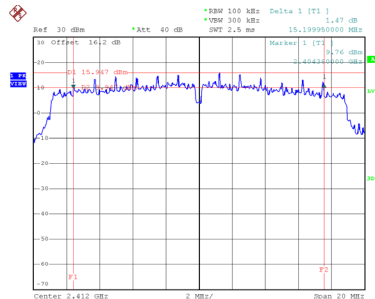


Date: 1.AUG.2024 14:45:34

Test Mode	TX N(HT20) Mode
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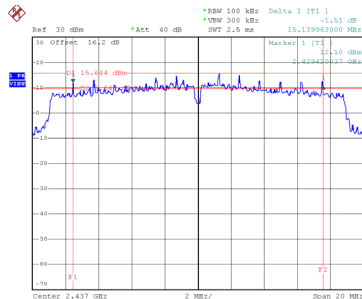
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	15.200	18.480	0.5	Complies
06	2437	15.140	18.880	0.5	Complies
11	2462	13.940	19.520	0.5	Complies

CH01



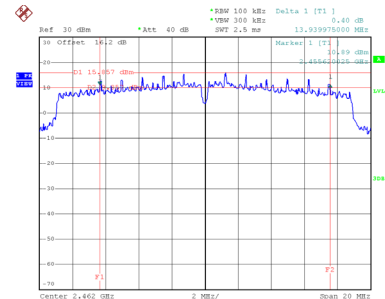
Date: 1.AUG.2024 14:50:15

CH06
6 dB Bandwidth



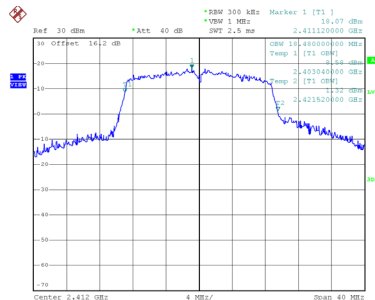
Date: 1.AUG.2024 14:51:59

CH11

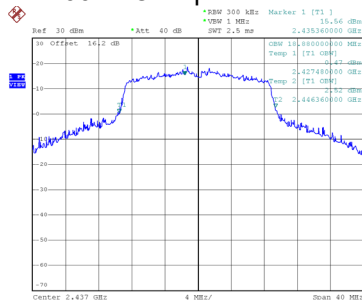


Date: 1.AUG.2024 14:53:44

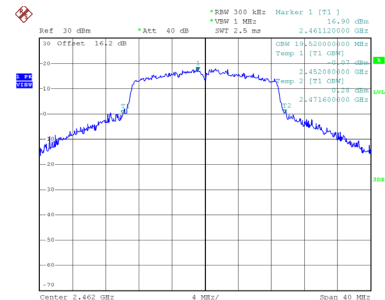
99 % Occupied Bandwidth



Date: 1.AUG.2024 14:50:22



Date: 1.AUG.2024 14:52:06

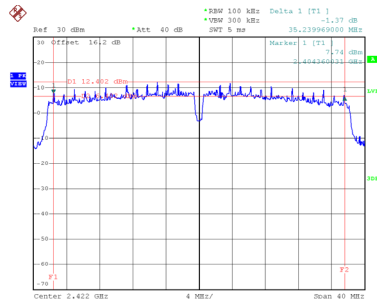


Date: 1.AUG.2024 14:53:52

Test Mode	TX N(HT40) Mode
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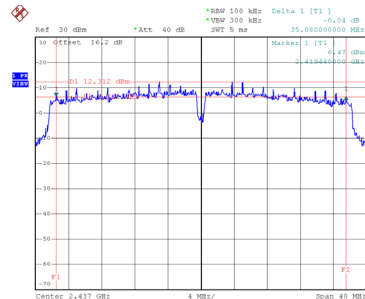
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
03	2422	35.240	37.280	0.5	Complies
06	2437	35.080	38.400	0.5	Complies
09	2452	35.129	38.400	0.5	Complies

CH03

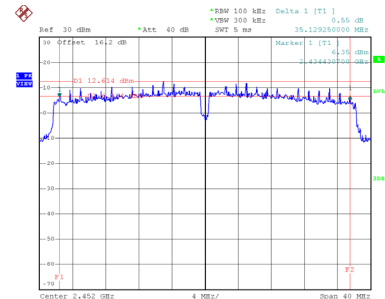


CH06

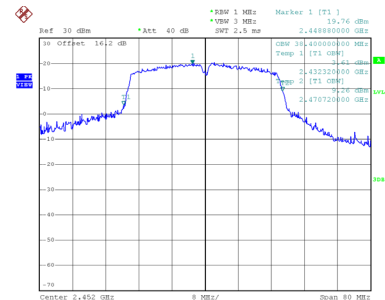
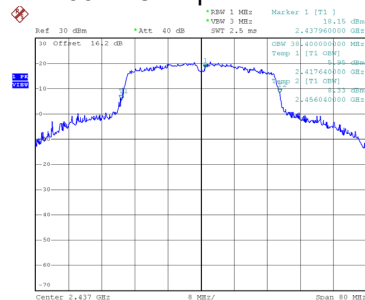
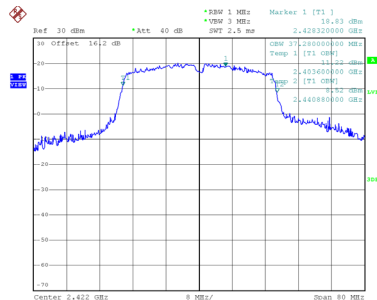
6 dB Bandwidth



CH09



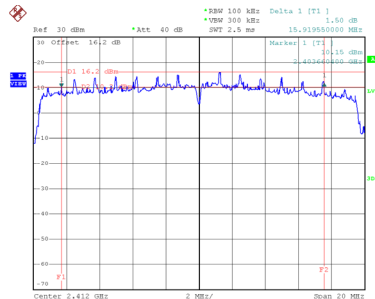
99 % Occupied Bandwidth



Test Mode	TX AX(HE20) Mode
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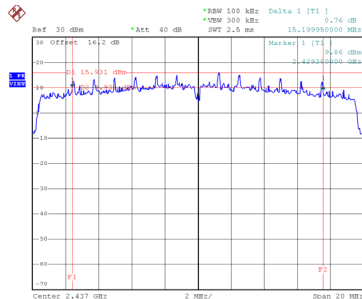
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	15.920	19.120	0.5	Complies
06	2437	15.200	19.360	0.5	Complies
11	2462	15.170	19.440	0.5	Complies

CH01



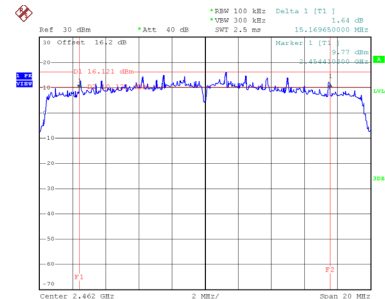
Date: 1.AUG.2024 15:03:37

CH06
6 dB Bandwidth



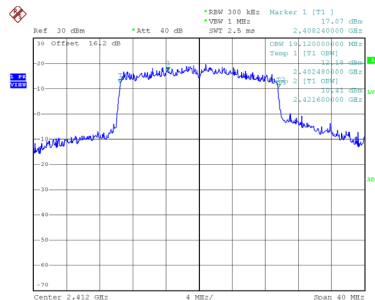
Date: 1.AUG.2024 15:05:47

CH11

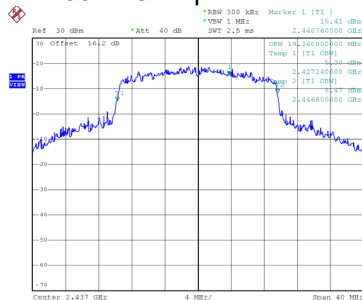


Date: 2.AUG.2024 17:31:10

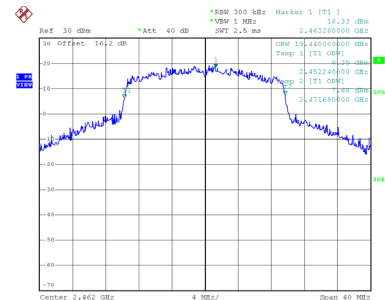
99 % Occupied Bandwidth



Date: 1.AUG.2024 15:03:45



Date: 1.AUG.2024 15:05:54

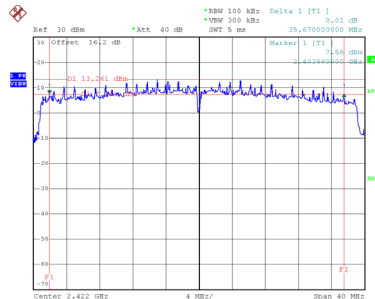


Date: 2.AUG.2024 17:31:18

Test Mode	TX AX(HE40) Mode
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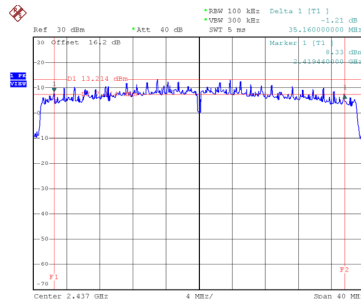
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
03	2422	35.670	40.320	0.5	Complies
06	2437	35.160	40.160	0.5	Complies
09	2452	35.200	41.280	0.5	Complies

CH03



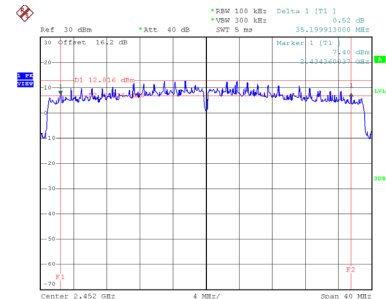
Date: 1.AUG.2024 15:08:51

CH06
6 dB Bandwidth



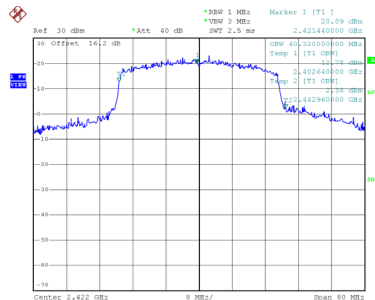
Date: 1.AUG.2024 15:10:50

CH09

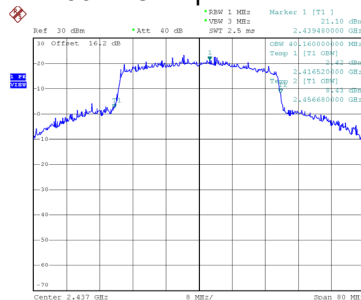


Date: 1.AUG.2024 15:12:22

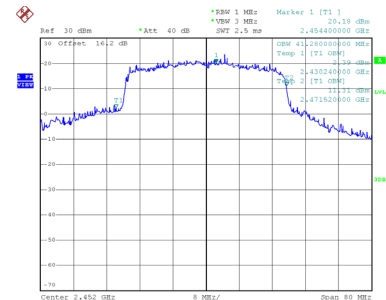
99 % Occupied Bandwidth



Date: 1.AUG.2024 15:08:58



Date: 1.AUG.2024 15:10:57



Date: 1.AUG.2024 15:12:29

APPENDIX F - MAXIMUM OUTPUT POWER

Non Beamforming

Test Mode	TX B Mode_Ant. 1
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Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	22.86	0.00	22.86	30.00	1.0000	Complies
06	2437	23.09	0.00	23.09	30.00	1.0000	Complies
11	2462	23.01	0.00	23.01	30.00	1.0000	Complies

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

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	23.51	0.00	23.51	30.00	1.0000	Complies
06	2437	23.29	0.00	23.29	30.00	1.0000	Complies
11	2462	23.56	0.00	23.56	30.00	1.0000	Complies

Test Mode	TX B Mode_Total
-----------	-----------------

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	26.21	30.00	1.0000	Complies
06	2437	26.20	30.00	1.0000	Complies
11	2462	26.30	30.00	1.0000	Complies

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

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	22.94	0.17	23.11	30.00	1.0000	Complies
06	2437	22.84	0.17	23.01	30.00	1.0000	Complies
11	2462	22.63	0.17	22.80	30.00	1.0000	Complies

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

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	23.41	0.17	23.58	30.00	1.0000	Complies
06	2437	23.43	0.17	23.60	30.00	1.0000	Complies
11	2462	23.25	0.17	23.42	30.00	1.0000	Complies

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

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	26.36	30.00	1.0000	Complies
06	2437	26.33	30.00	1.0000	Complies
11	2462	26.13	30.00	1.0000	Complies

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

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	22.89	0.19	23.08	30.00	1.0000	Complies
06	2437	22.68	0.19	22.87	30.00	1.0000	Complies
11	2462	22.48	0.19	22.67	30.00	1.0000	Complies

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

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	23.24	0.19	23.43	30.00	1.0000	Complies
06	2437	23.24	0.19	23.43	30.00	1.0000	Complies
11	2462	23.12	0.19	23.31	30.00	1.0000	Complies

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

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	26.27	30.00	1.0000	Complies
06	2437	26.17	30.00	1.0000	Complies
11	2462	26.02	30.00	1.0000	Complies

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

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	18.05	0.38	18.43	30.00	1.0000	Complies
06	2437	22.02	0.38	22.40	30.00	1.0000	Complies
09	2452	19.25	0.38	19.63	30.00	1.0000	Complies

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

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	18.42	0.38	18.80	30.00	1.0000	Complies
06	2437	22.56	0.38	22.94	30.00	1.0000	Complies
09	2452	19.72	0.38	20.10	30.00	1.0000	Complies

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

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	21.63	30.00	1.0000	Complies
06	2437	25.69	30.00	1.0000	Complies
09	2452	22.89	30.00	1.0000	Complies

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

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	22.53	0.69	23.22	30.00	1.0000	Complies
06	2437	22.72	0.69	23.41	30.00	1.0000	Complies
11	2462	19.77	0.69	20.46	30.00	1.0000	Complies

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

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	22.88	0.69	23.57	30.00	1.0000	Complies
06	2437	23.28	0.69	23.97	30.00	1.0000	Complies
11	2462	20.25	0.69	20.94	30.00	1.0000	Complies

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

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	26.41	30.00	1.0000	Complies
06	2437	26.71	30.00	1.0000	Complies
11	2462	23.72	30.00	1.0000	Complies

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

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	18.12	0.70	18.82	30.00	1.0000	Complies
06	2437	21.43	0.70	22.13	30.00	1.0000	Complies
09	2452	18.87	0.70	19.57	30.00	1.0000	Complies

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

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	18.38	0.70	19.08	30.00	1.0000	Complies
06	2437	21.96	0.70	22.66	30.00	1.0000	Complies
09	2452	19.28	0.70	19.98	30.00	1.0000	Complies

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

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	21.96	30.00	1.0000	Complies
06	2437	25.41	30.00	1.0000	Complies
09	2452	22.79	30.00	1.0000	Complies

Note: Output power = Measure result + Cable loss

Beamforming

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

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	22.50	0.19	22.69	30.00	1.0000	Complies
06	2437	22.16	0.19	22.35	30.00	1.0000	Complies
11	2462	22.06	0.19	22.25	30.00	1.0000	Complies

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

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	22.89	0.19	23.08	30.00	1.0000	Complies
06	2437	22.73	0.19	22.92	30.00	1.0000	Complies
11	2462	22.58	0.19	22.77	30.00	1.0000	Complies

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

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	25.90	30.00	1.0000	Complies
06	2437	25.66	30.00	1.0000	Complies
11	2462	25.53	30.00	1.0000	Complies

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

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	17.69	0.38	18.07	30.00	1.0000	Complies
06	2437	21.49	0.38	21.87	30.00	1.0000	Complies
09	2452	18.80	0.38	19.18	30.00	1.0000	Complies

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

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	17.83	0.38	18.21	30.00	1.0000	Complies
06	2437	21.98	0.38	22.36	30.00	1.0000	Complies
09	2452	19.23	0.38	19.61	30.00	1.0000	Complies

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

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	21.15	30.00	1.0000	Complies
06	2437	25.14	30.00	1.0000	Complies
09	2452	22.41	30.00	1.0000	Complies

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

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	22.04	0.69	22.73	30.00	1.0000	Complies
06	2437	22.14	0.69	22.83	30.00	1.0000	Complies
11	2462	19.22	0.69	19.91	30.00	1.0000	Complies

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

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	22.47	0.69	23.16	30.00	1.0000	Complies
06	2437	22.92	0.69	23.61	30.00	1.0000	Complies
11	2462	19.83	0.69	20.52	30.00	1.0000	Complies

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

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	25.96	30.00	1.0000	Complies
06	2437	26.25	30.00	1.0000	Complies
11	2462	23.23	30.00	1.0000	Complies

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

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	17.69	0.70	18.39	30.00	1.0000	Complies
06	2437	20.99	0.70	21.69	30.00	1.0000	Complies
09	2452	18.41	0.70	19.11	30.00	1.0000	Complies

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

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	18.02	0.70	18.72	30.00	1.0000	Complies
06	2437	21.42	0.70	22.12	30.00	1.0000	Complies
09	2452	18.69	0.70	19.39	30.00	1.0000	Complies

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

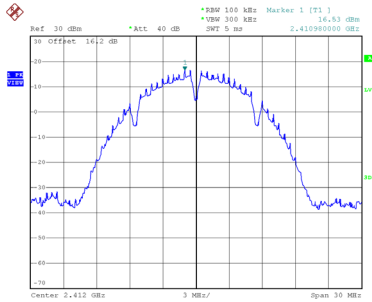
Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	21.57	30.00	1.0000	Complies
06	2437	24.92	30.00	1.0000	Complies
09	2452	22.26	30.00	1.0000	Complies

Note: Output power = Measure result + Cable loss

APPENDIX G - CONDUCTED SPURIOUS EMISSIONS

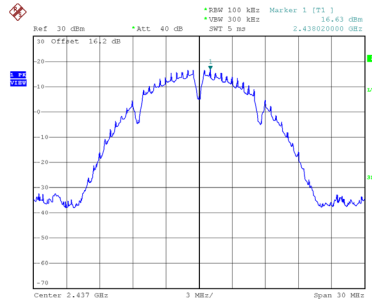
Test Mode TX B Mode_Ant. 1

Reference Level-CH01



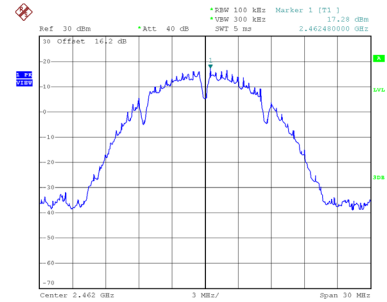
Date: 5.AUG.2024 09:16:34

Reference Level-CH06



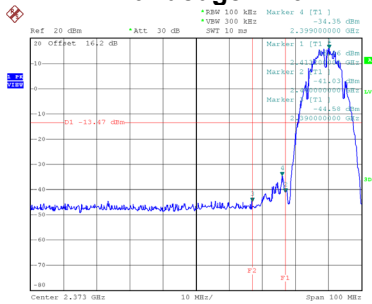
Date: 5.AUG.2024 09:41:15

Reference Level-CH11



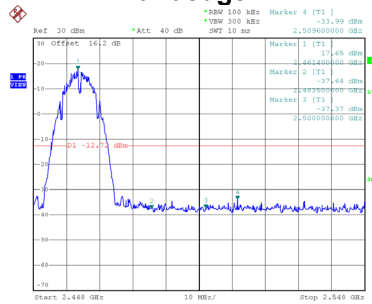
Date: 5.AUG.2024 09:44:01

Bandedge-CH01



Date: 5.AUG.2024 09:21:35

Bandedge-CH11



Date: 5.AUG.2024 11:41:08