

FCC Radio Test Report

FCC ID: 2AAGE5081SB48W

This report concerns: Original Grant

Project No. : 2111H055
Equipment : Tablet
Brand Name : Vantron
Test Model : VT-TABLET-5081S
Series Model : N/A
Applicant : Chengdu Vantron Technology Co., Ltd.
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610045
Manufacturer : Chengdu Vantron Technology Co., Ltd.
Address : No.5 GaoPeng Road, Hi-Tech Zone, Chengdu, SiChuan, P.R. China
610045
Date of Receipt : Nov. 29, 2021
Date of Test : Dec. 01, 2021~Dec. 13, 2021
Issued Date : Dec. 21, 2021
Report Version : R00
Test Sample : Engineering Sample No.: SH20211129111 for the radiation
SH20211129111 for the conducted
Standard(s) : FCC CFR Title 47, Part 15, Subpart C
FCC KDB 558074 D01 15.247 Meas Guidance v05r02
FCC KDB 662911 D01 Multiple Transmitter Output v02r01
ANSI C63.10-2013

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

Maker Qi

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TESTING CERT #5123.03

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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 Version	Description	Issued Date
R00	Original Issue.	Dec. 21, 2021

1. 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.

1.1 TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No. 29, Jintang Road, Tangzhen Industry Park, Pudong New Area, Shanghai 201210, China
 BTL's Test Firm Registration Number for FCC: 476765
 BTL's Designation Number for FCC: CN1241

1.2 MEASUREMENT UNCERTAINTY

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor ($k=2$))
 The BTL measurement uncertainty as below table:

A. AC power line conducted emissions test:

Test Site	Method	Measurement Frequency Range	U, (dB)
SH-C01	CISPR	150 kHz ~ 30 MHz	2.64

B. Radiated emissions test:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)
SH-CB02	CISPR	9 KHz~30 MHz	-	2.16
		30 MHz~200 MHz	V	4.04
		30 MHz~200 MHz	H	2.90
		200 MHz~1,000 MHz	V	3.76
		200 MHz~1,000 MHz	H	3.82
		1GHz ~ 6GHz	-	4.56
		6GHz ~ 18GHz	-	4.14
		18 ~ 26.5 GHz	-	3.48

C. Conducted test:

Parameter	U
Output Power	± 0.95 dB
Occupied Channel Bandwidth	± 3.8 %
Power Spectral Density	± 0.86 dB
Conducted Spurious Emission	± 2.71 dB
Temperature	± 0.08 °C
Humidity	± 1.5 %
Supply voltages	± 0.3 %

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

1.3 TEST ENVIRONMENT CONDITIONS

Test Item	Temperature	Humidity	Test Voltage	Tested By
AC Power Line Conducted Emissions	16°C	44%	AC 120V/60Hz	Max Liu
Radiated Emissions-9kHz to 30 MHz	26°C	61%	AC 120V/60Hz	Forest Li
Radiated Emissions-30MHz to 1000MHz	26°C	61%	AC 120V/60Hz	Forest Li
Radiated Emissions-Above 1000MHz	26°C	61%	AC 120V/60Hz	Forest Li
Bandwidth	26°C	60%	AC 120V/60Hz	Clint Hua
Maximum Output Power	26°C	60%	AC 120V/60Hz	Clint Hua
Conducted Spurious Emissions	26°C	60%	AC 120V/60Hz	Clint Hua
Power Spectral Density	26°C	60%	AC 120V/60Hz	Clint Hua

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Tablet
Brand Name	Vantron
Test Model	VT-TABLET-5081S
Series Model	N/A
Model Difference(s)	N/A
Software Version	rev1.0.1fcc
Hardware Version	4.3
Power Source	DC voltage supplied from AC/DC adapter.
Power Rating	I/P: DC 5V O/P: DC 3.8V
Operation Frequency	2412 MHz ~ 2462 MHz
Modulation Type	IEEE 802.11b: DSSS IEEE 802.11g: OFDM IEEE 802.11n: OFDM
Bit Rate of Transmitter	IEEE 802.11b: 11/5.5/2/1 Mbps IEEE 802.11g: 54/48/36/24/18/12/9/6 Mbps IEEE 802.11n: up to 144.4 Mbps
Maximum Output Power	IEEE 802.11n20: 22.88 dBm (0.1941 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)							
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	N/A	N/A	Internal PIFA Antenna	N/A	2.2
2	N/A	N/A	Internal PIFA Antenna	N/A	3.4

Note:

- 1) This EUT supports MIMO 2X2, any transmit signals are correlated with each other, so Directional gain= $10\log[(10^{G1/20}+10^{G2/20}+...10^{GN/20})^2/N]$ dBi, that is Directional gain= $10\log[(10^{2.2/20}+10^{3.4/20})^2/2]$ dBi=5.83. So, the output power limit is 30, the power spectral density limit is 8.
- 2) This EUT supports CDD, and all antenna gains are not equal, Directional gain = $G_{ANT} + \text{Array Gain}$. For power measurements, Array Gain=0dB ($N_{ANT} \leq 4$), so the Directional gain=3.4. For power spectral density measurements, $N_{ANT}=2$, $N_{SS} = 1$. So the Directional gain= $G_{ANT} + \text{Array Gain} = G_{ANT} + 10\log(N_{ANT}/N_{SS})$ dBi=3.4+10log(2/1)dBi=6.41. Then, the power spectral density limit is 8-(6.41-6)=7.59.
- 3) The antenna gain is provided by the manufacturer.

4. Table for Antenna Configuration:

Operating Mode	1TX	2TX
TX Mode		
IEEE 802.11b	✓	-
IEEE 802.11g	✓	-
IEEE 802.11n(HT20)	✓	✓

2.2 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

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 3	TX N(HT20) Mode Channel 11

Radiated emissions test - Below 1GHz	
Final Test Mode	Description
Mode 3	TX N(HT20) Mode Channel 11

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

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

NOTE:

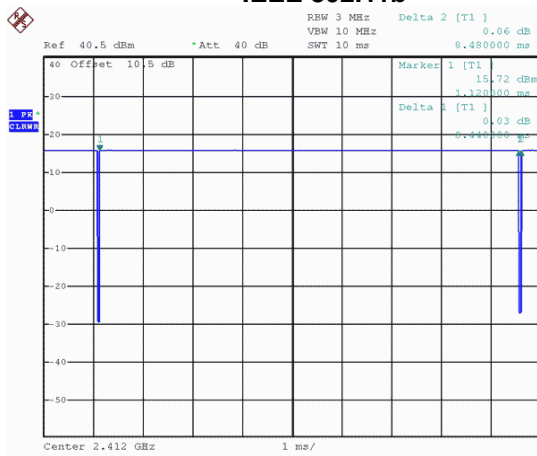
- (1) All the bit rate of transmitter have been tested and found the lowest rate is found to be the worst case and recorded.
- (2) For AC power line conducted emissions and radiated emission below 1 GHz test, the TX N(HT20) Mode Channel 11 is found to be the worst case and recorded.
- (3) For radiated 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.

2.3 PARAMETERS OF TEST SOFTWARE

Test Software Version	RFTTestTool		
Frequency (MHz)	2412	2437	2462
IEEE 802.11b	default	default	default
IEEE 802.11g	default	default	default
IEEE 802.11n(HT20)	default	default	default

2.4 DUTY CYCLE

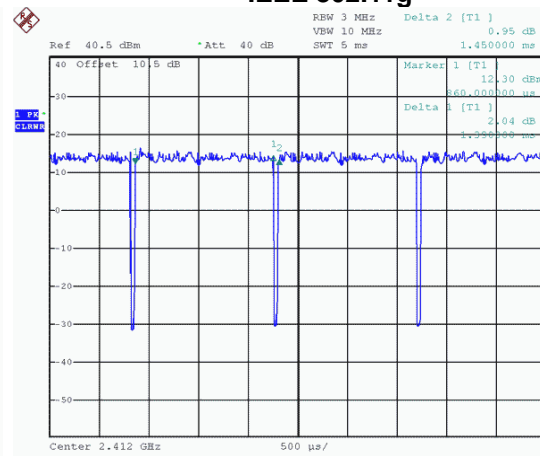
IEEE 802.11b



Date: 6.DEC.2021 12:58:34

Duty cycle = 8.440 ms / 8.480 ms = 99.53%
Duty Factor = 10 log(1/Duty cycle) = 0.0205

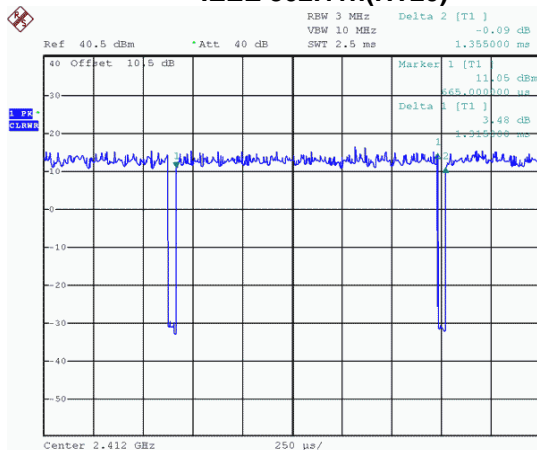
IEEE 802.11g



Date: 6.DEC.2021 13:01:03

Duty cycle = 1.390 ms / 1.450 ms = 95.86%
Duty Factor = 10 log(1/Duty cycle) = 0.1835

IEEE 802.11n(HT20)



Date: 6.DEC.2021 13:02:29

Duty cycle = 1.315 ms / 1.355 ms = 97.05%
Duty Factor = 10 log(1/Duty cycle) = 0.1301

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 10 Hz.

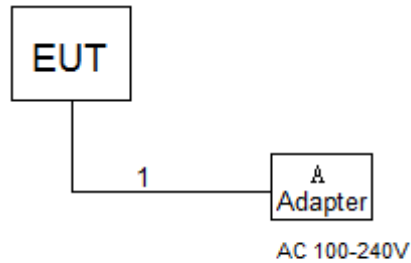
For IEEE 802.11g:

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

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 1 kHz.

2.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



2.6 SUPPORT UNITS

Item	Equipment	Brand	Model/Type No.	Series No.
A	adapter	SAMSUNG	EP-TA200	R37NAV/B0XJ1DK3

Item	Cable Type	Shielded Type	Ferrite Core	Length
1	DC	N/A	N/A	1m

3. AC POWER LINE CONDUCTED EMISSIONS

3.1 LIMIT

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

NOTE:

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

3.2 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.

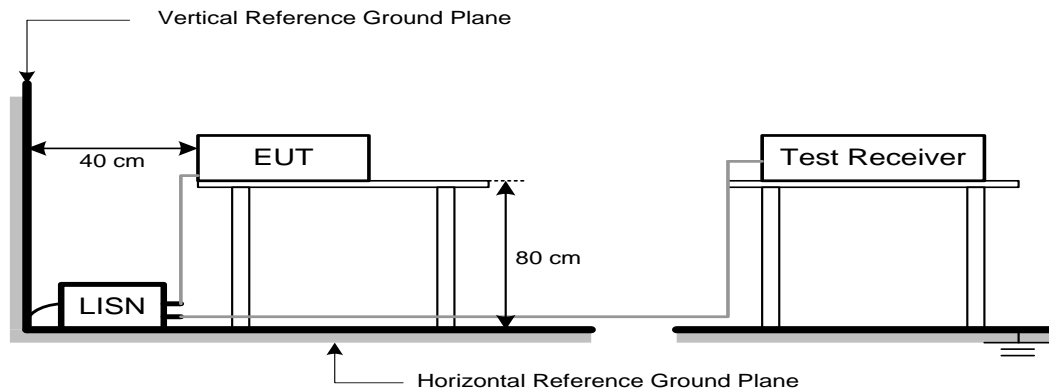
The following table is the setting of the receiver:

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

3.3 DEVIATION FROM TEST STANDARD

No deviation.

3.4 TEST SETUP



3.5 EUT OPERATION CONDITIONS

EUT was programmed to be in continuously transmitting mode.

3.6 TEST RESULTS

Please refer to the APPENDIX A.

4. RADIATED EMISSIONS

4.1 LIMIT

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

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

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

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000 MHz)

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

NOTE:

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

4.2 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 shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1 GHz)
- 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

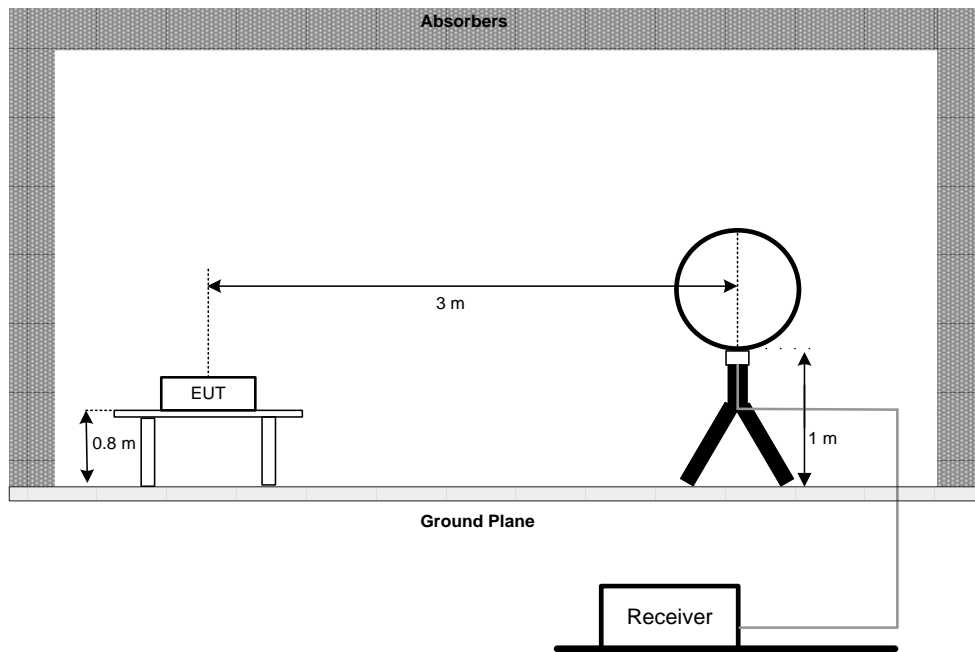
Receiver Parameters	Setting
Start ~ Stop Frequency	9 kHz~90 kHz for PK/AVG detector
Start ~ Stop Frequency	90 kHz~110 kHz for QP detector
Start ~ Stop Frequency	110 kHz~490 kHz for PK/AVG detector
Start ~ Stop Frequency	490 kHz~30 MHz for QP detector
Start ~ Stop Frequency	30 MHz~1000 MHz for QP detector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

4.3 DEVIATION FROM TEST STANDARD

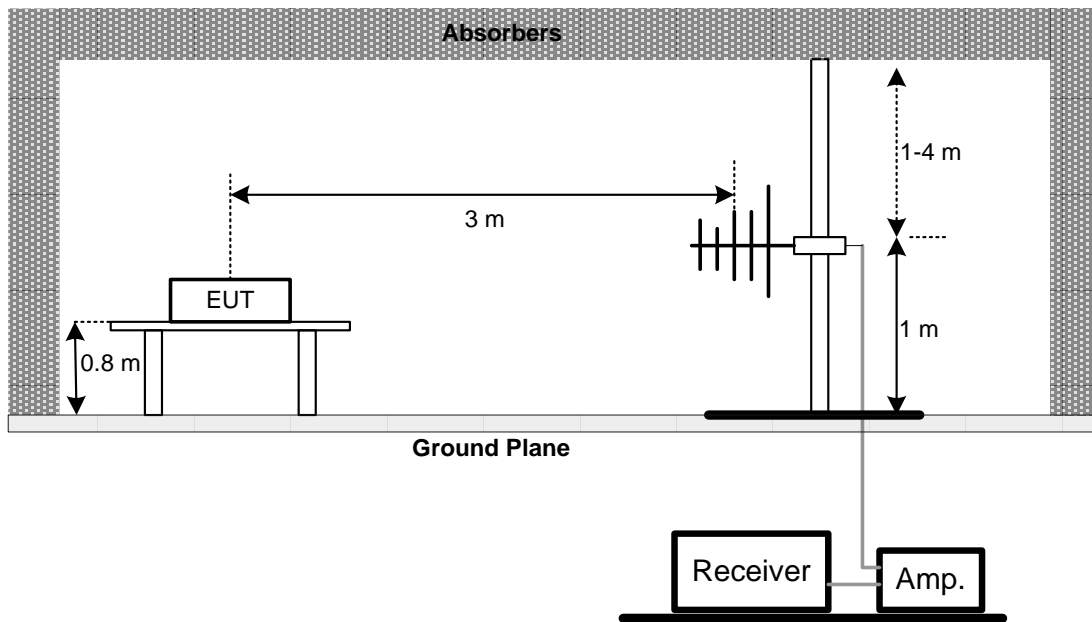
No deviation.

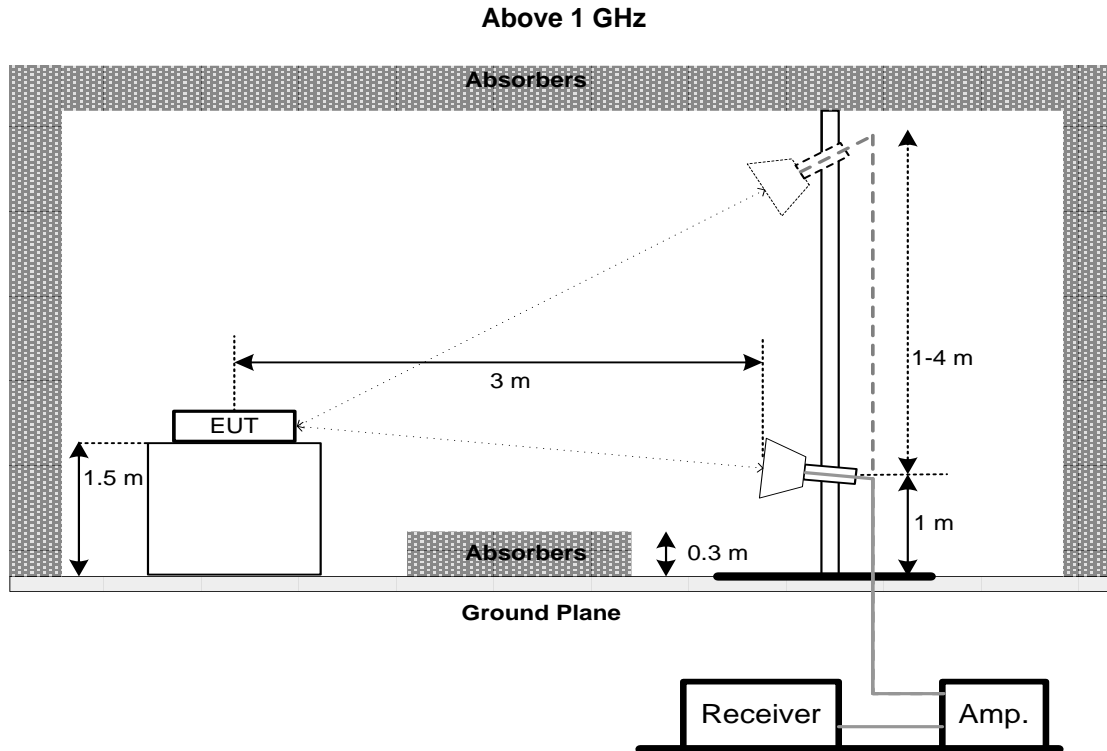
4.4 TEST SETUP

9 kHz to 30 MHz



30 MHz to 1 GHz





4.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

4.6 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.

4.7 TEST RESULTS - 30 MHZ TO 1000 MHZ

Please refer to the APPENDIX C.

4.8 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.

5. BANDWIDTH

5.1 LIMIT

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

5.2 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

5.3 DEVIATION FROM STANDARD

No deviation.

5.4 TEST SETUP



5.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

5.6 TEST RESULTS

Please refer to the APPENDIX E.

6. MAXIMUM OUTPUT POWER

6.1 LIMIT

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

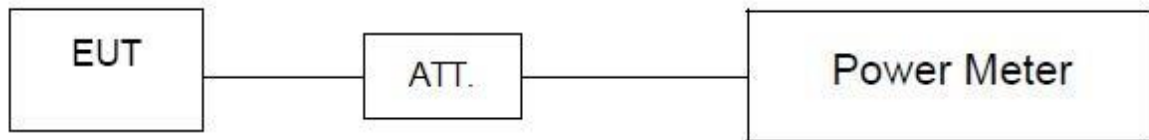
6.2 TEST PROCEDURE

- The EUT was directly connected to the power meter and antenna output port as show in the block diagram below.
- The maximum conducted output power was performed in accordance with method 11.9.1.3 (for peak power) of ANSI C63.10-2013 and FCC KDB 662911 D01 v02r01 Multiple Transmitter Output.

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 F.

7. CONDUCTED SPURIOUS EMISSIONS

7.1 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.

7.2 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
Start Frequency	30 MHz
Stop Frequency	26.5 GHz
RBW	100 kHz
VBW	300 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

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 G.

8. POWER SPECTRAL DENSITY

8.1 LIMIT

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

8.2 TEST PROCEDURE

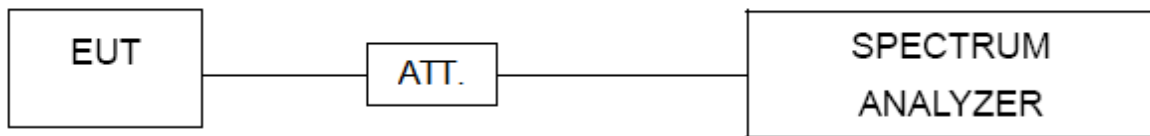
- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- The following table is the setting of the spectrum analyzer:

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

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 H.

9. MEASUREMENT INSTRUMENTS LIST

AC Power Line Conducted Emissions					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Line Impedance Stabilisation Network	Schwarzbeck	NNLK 8121	8121-822	Mar. 20, 2022
2	TWO-LINE V-NETWORK	R&S	ENV216	101340	Aug. 23, 2022
3	Test Cable	emci	EMCRG400-BM-N M-10000	170628	April. 11, 2022
4	EMI Test Receiver	R&S	ESCI	100082	Mar. 21, 2022
5	50Ω Terminator	SHX	TF2-1G-A	17051602	Mar. 20, 2022
6	50Ω coaxial switch	Anritsu	MP59B	6201750902	Mar. 21, 2022
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Radiated Emissions - 9 kHz to 30 MHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Loop Antenna	EMCI	EMCI LPA600	275	May. 20, 2022
2	MXE EMI Receiver	Keysight	N9038A	MY56400088	Mar. 21, 2022
3	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Radiated Emissions - 30 MHz to 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	TRILOG Broadband Antenna	Schwarzbeck	VULB 9160	9160-3233	Mar. 26, 2022
2	Pre-Amplifier	emci	EMC9135	980401	Mar. 20, 2022
3	MXE EMI Receiver	Keysight	N9038A	MY56400088	Mar. 21, 2022
4	Test Cable	emci	EMC104-SM-SM-7 000	181020	Apr. 11, 2022
5	Test Cable	emci	EMC104-SM-SM-2 500	170618	Apr. 11, 2022
6	Test Cable	emci	EMC104-SM-SM-8 00	170647	Apr. 11, 2022
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Radiated Emissions - Above 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Double Ridged Broadband Horn Antenna	Schwarzbeck	BBHA 9120D	9120D-1817	Mar. 26, 2022
2	Pre-Amplifier	emci	EMC051845SE	980725	Aug. 23, 2022
3	EXA Spectrum Analyzer	Keysight	N9010A	MY56480579	Mar. 21, 2022
4	Test Cable	emci	EMC104-SM-SM-7000	181020	Apr. 11, 2022
5	Test Cable	emci	EMC104-SM-SM-2500	170618	Apr. 11, 2022
6	Test Cable	emci	EMC104-SM-SM-800	170647	Apr. 11, 2022
7	Double-Ridged Waveguide Horn Antenna	ETS-Lindgren	3116C	00203919	May 19, 2022
8	Pre-Amplifier	emci	EMC184045B	980265	Apr. 11, 2022
9	Test Cable	emci	EMC102-SM-SM-800	170335	Apr. 11, 2022
10	Test Cable	emci	EMC102-KM-KM-2500	170627	Apr. 11, 2022
11	MXE EMI Receiver	Keysight	N9038A	MY5640088	Mar. 21, 2022
12	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Bandwidth					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100626	May 29, 2022
2	Attenuator	JUK	ATT-2W6G-S-10	N/A	N/A

Maximum Output Power					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Peak Power Analyze	Keysight	8990B	MY51000507	Mar. 21, 2022
2	Wideband Power Sensor	Keysight	N1923A	MY58310003	Mar. 21, 2022
3	Attenuator	JUK	ATT-2W6G-S-10	N/A	N/A

Antenna Conducted Spurious Emissions					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100626	May 29, 2022
2	Attenuator	JUK	ATT-2W6G-S-10	N/A	N/A

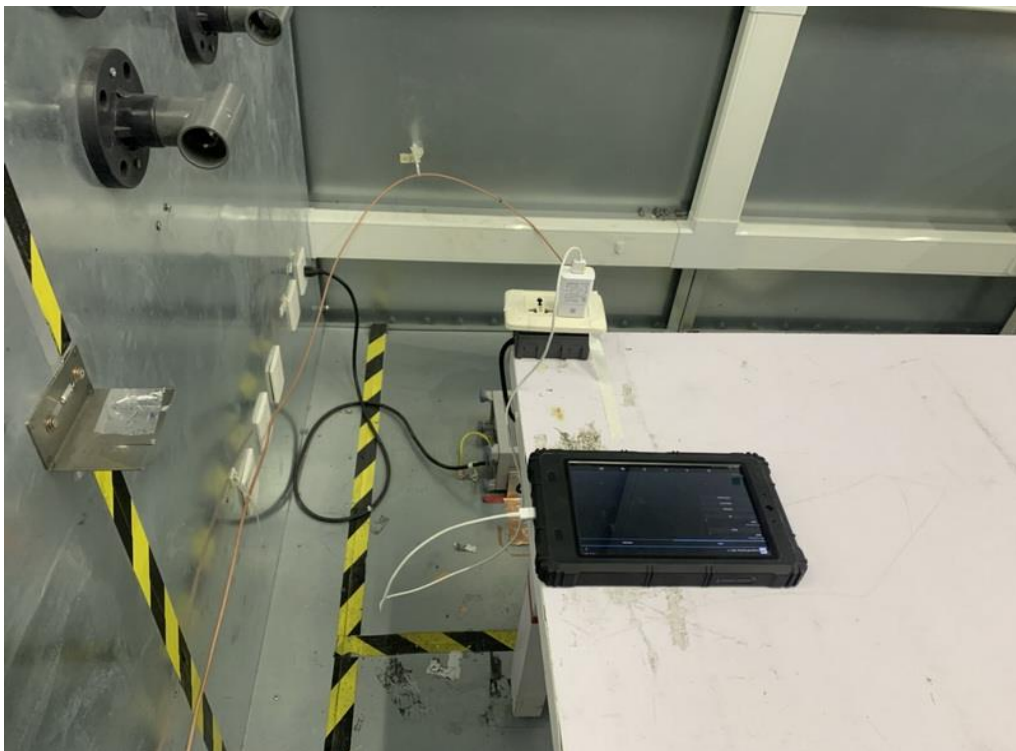
Power Spectral Density					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100626	May 29, 2022
2	Attenuator	JUK	ATT-2W6G-S-10	N/A	N/A

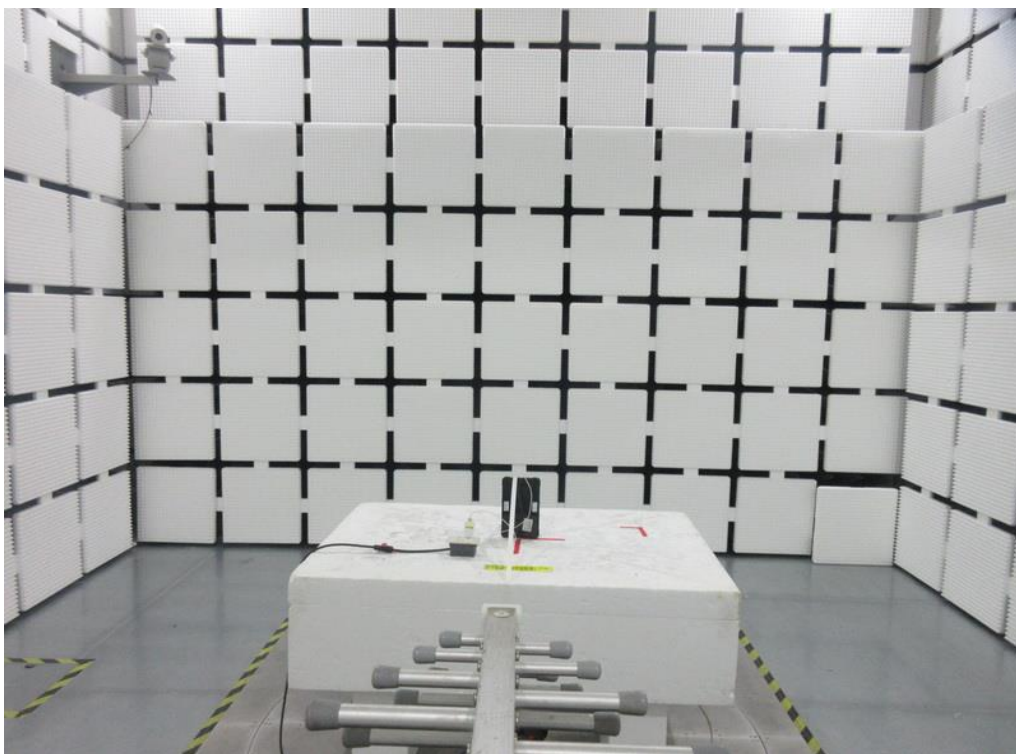
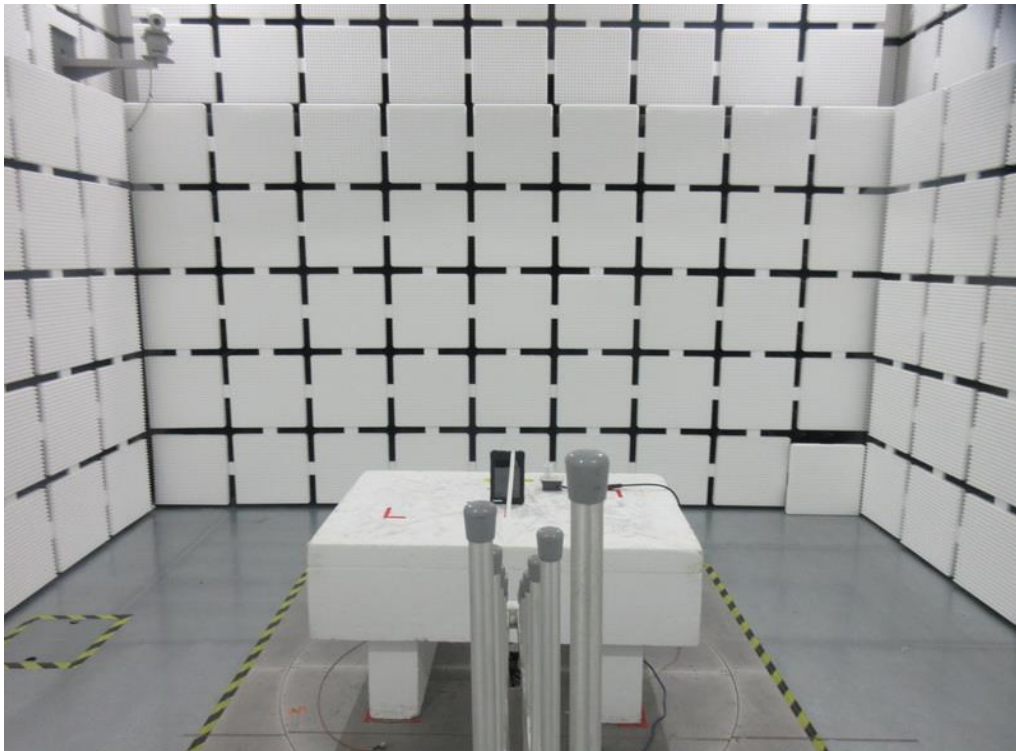
Remark: "N/A" denotes no model name, serial no. or calibration specified.

All calibration period of equipment list is one year.

10. EUT TEST PHOTO

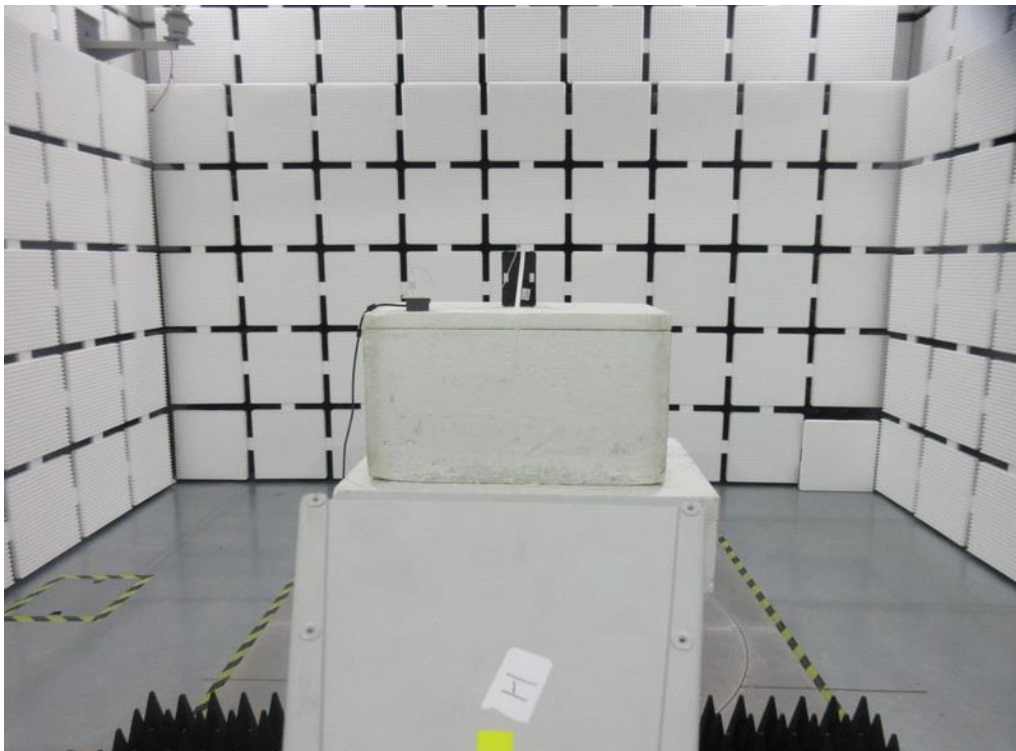
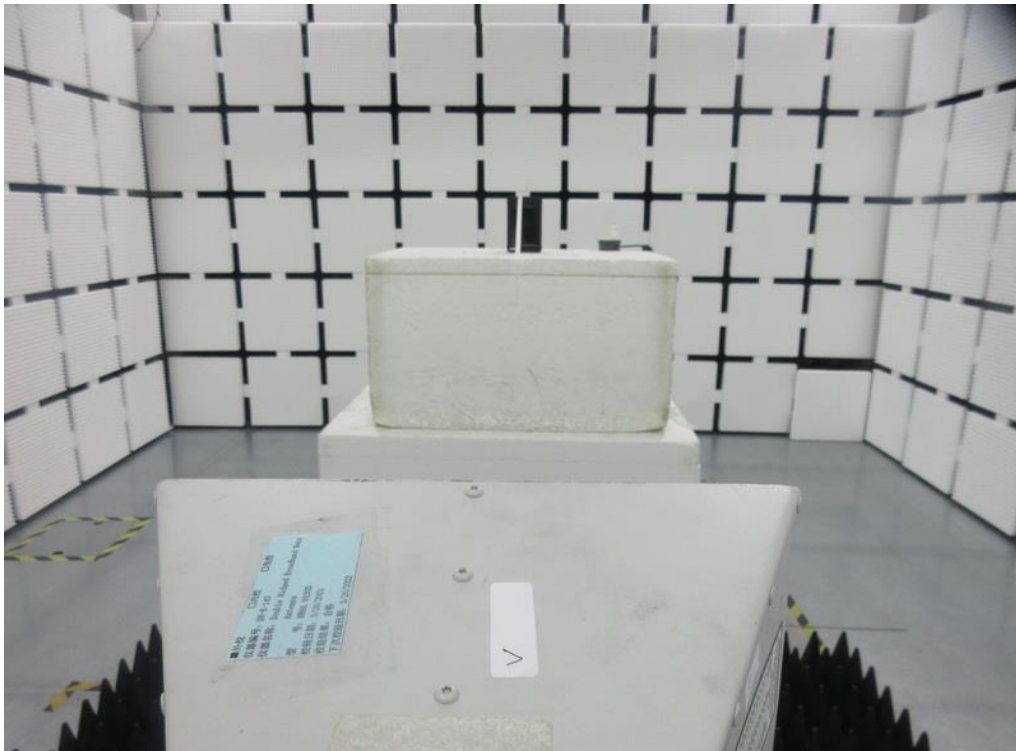
AC Power Line Conducted Emissions Test Photos



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

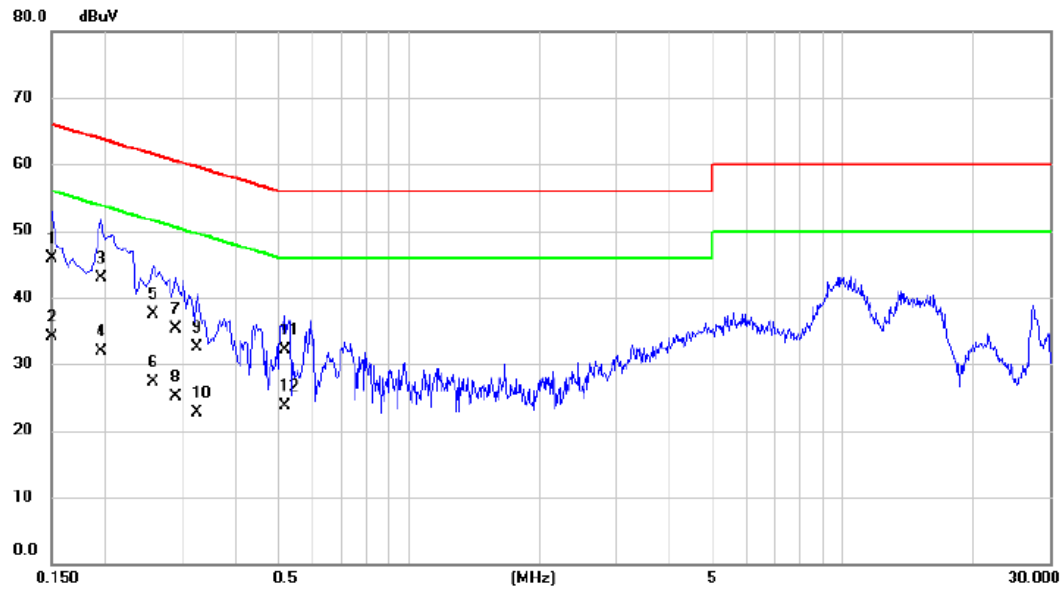
Radiated Emissions Test Photos

Above 1 GHz



APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS

Test Mode	TX N(HT20) Mode Channel 11	Phase	Line
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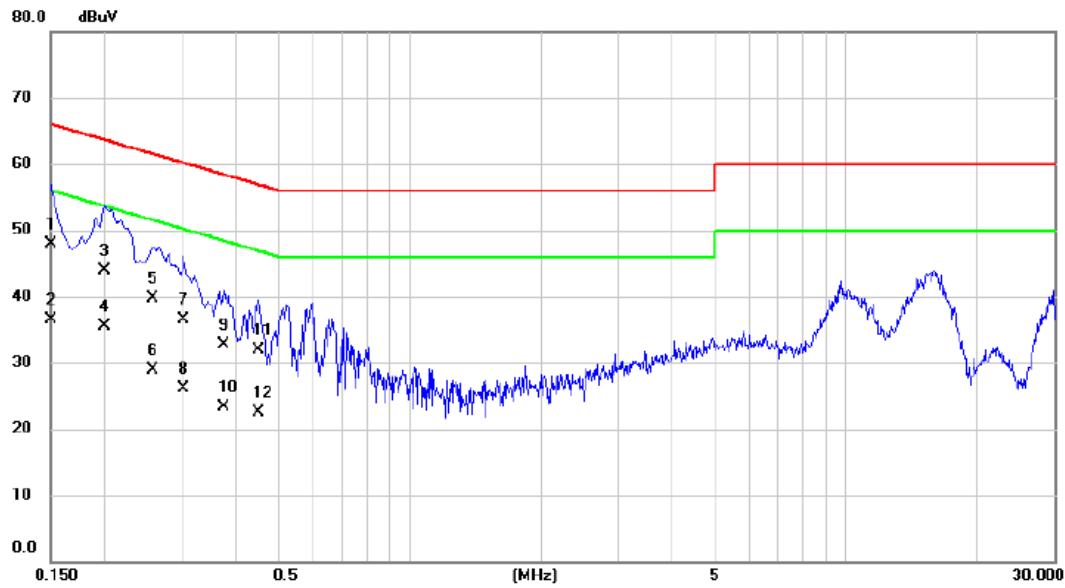


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1500	36.20	9.68	45.88	66.00	-20.12	QP	
2		0.1500	24.40	9.68	34.08	56.00	-21.92	AVG	
3		0.1950	33.20	9.70	42.90	63.82	-20.92	QP	
4		0.1950	22.20	9.70	31.90	53.82	-21.92	AVG	
5		0.2580	27.80	9.72	37.52	61.50	-23.98	QP	
6		0.2580	17.60	9.72	27.32	51.50	-24.18	AVG	
7		0.2895	25.60	9.72	35.32	60.54	-25.22	QP	
8		0.2895	15.40	9.72	25.12	50.54	-25.42	AVG	
9		0.3255	22.70	9.72	32.42	59.57	-27.15	QP	
10		0.3255	13.00	9.72	22.72	49.57	-26.85	AVG	
11		0.5190	22.30	9.75	32.05	56.00	-23.95	QP	
12		0.5190	14.00	9.75	23.75	46.00	-22.25	AVG	

REMARKS:

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

Test Mode	TX N(HT20) Mode Channel 11	Phase	Neutral
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No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1500	38.30	9.65	47.95	66.00	-18.05	QP	
2		0.1500	26.90	9.65	36.55	56.00	-19.45	AVG	
3		0.1995	34.20	9.67	43.87	63.63	-19.76	QP	
4		0.1997	25.80	9.67	35.47	53.62	-18.15	AVG	
5		0.2580	30.00	9.69	39.69	61.50	-21.81	QP	
6		0.2580	19.30	9.69	28.99	51.50	-22.51	AVG	
7		0.3030	26.80	9.69	36.49	60.16	-23.67	QP	
8		0.3030	16.50	9.69	26.19	50.16	-23.97	AVG	
9		0.3750	22.90	9.71	32.61	58.39	-25.78	QP	
10		0.3750	13.60	9.71	23.31	48.39	-25.08	AVG	
11		0.4515	22.10	9.72	31.82	56.85	-25.03	QP	
12		0.4515	12.70	9.72	22.42	46.85	-24.43	AVG	

REMARKS:

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

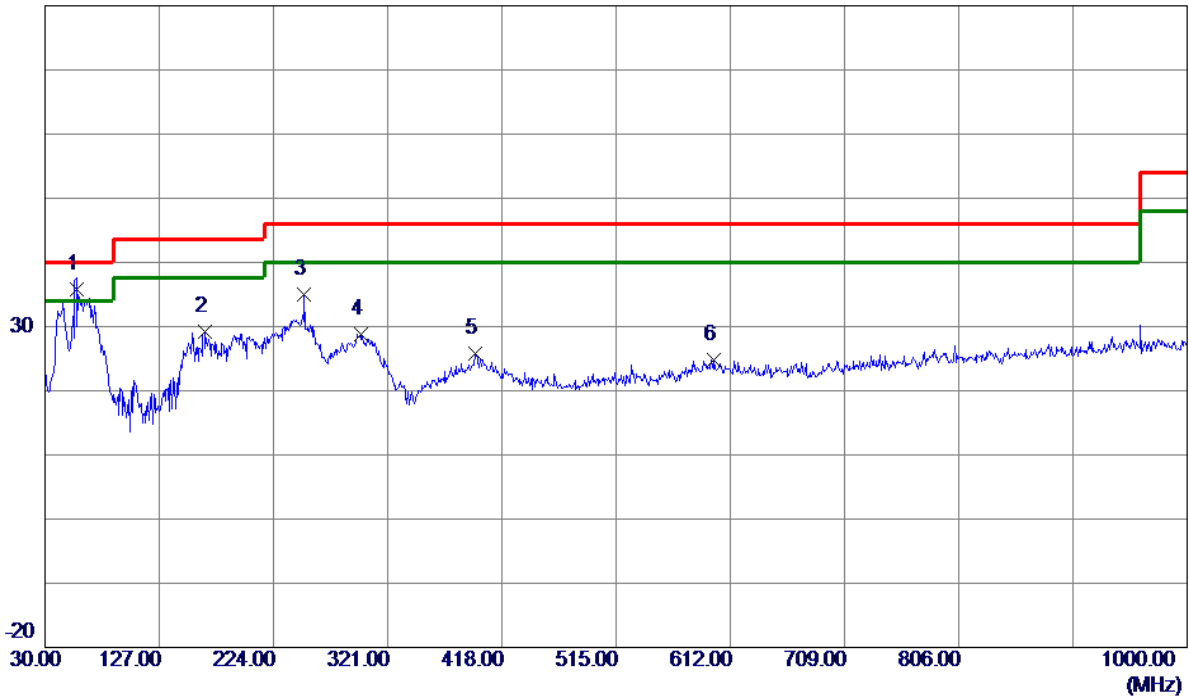
APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ

Note: The measured value have enough margin over 20dB than the limit, therefore they are not reported.

APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1000 MHZ

Test Mode	TX N(HT20) Mode Channel 11	Polarization	Vertical
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80 dBuV/m



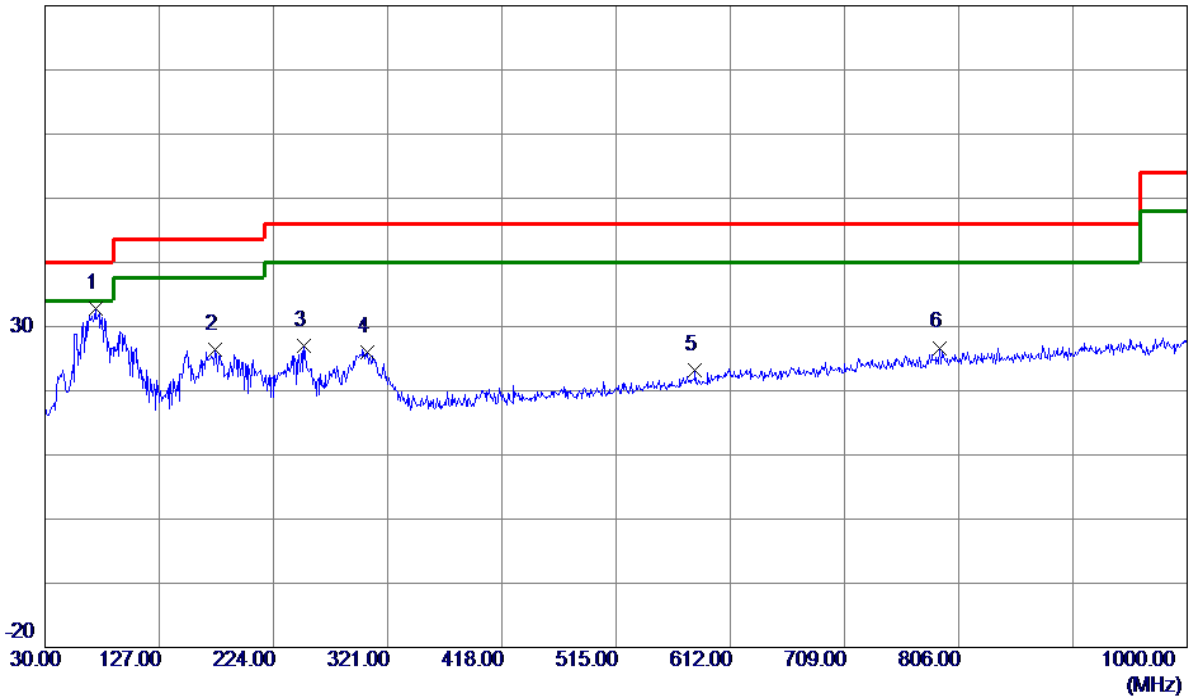
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	56.6750	52.74	-17.00	35.74	40.00	-4.26	QP	
2	165.3150	45.35	-16.21	29.14	43.50	-14.36	Peak	
3	250.1900	52.35	-17.35	35.00	46.00	-11.00	Peak	
4	298.2049	44.58	-15.70	28.88	46.00	-17.12	Peak	
5	395.6900	39.28	-13.42	25.86	46.00	-20.14	Peak	
6	598.4200	33.98	-9.21	24.77	46.00	-21.23	Peak	

REMARKS:

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

Test Mode	TX N(HT20) 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 *	72.6800	52.06	-19.18	32.88	40.00	-7.12	Peak	
2	174.5300	43.21	-16.78	26.43	43.50	-17.07	Peak	
3	250.1900	44.34	-17.35	26.99	46.00	-19.01	Peak	
4	304.0250	41.53	-15.53	26.00	46.00	-20.00	Peak	
5	581.9300	32.76	-9.65	23.11	46.00	-22.89	Peak	
6	789.9950	33.33	-6.63	26.70	46.00	-19.30	Peak	

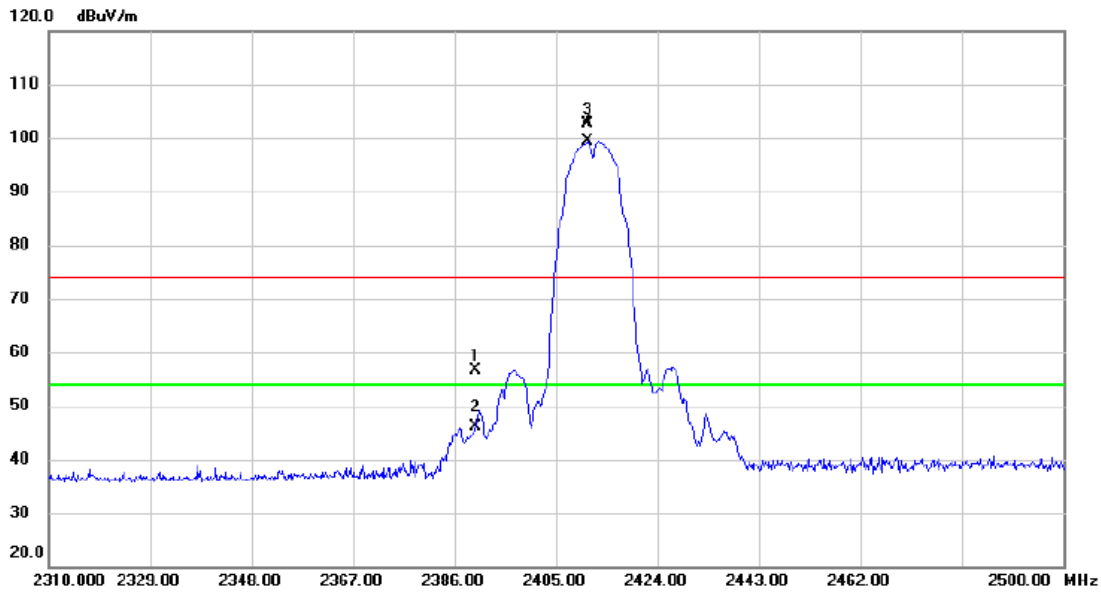
REMARKS:

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

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

APPENDIX D - RADIATED EMISSION- ABOVE 1000 MHZ

Test Mode	TX B Mode 2412 MHz	Polarization	Vertical
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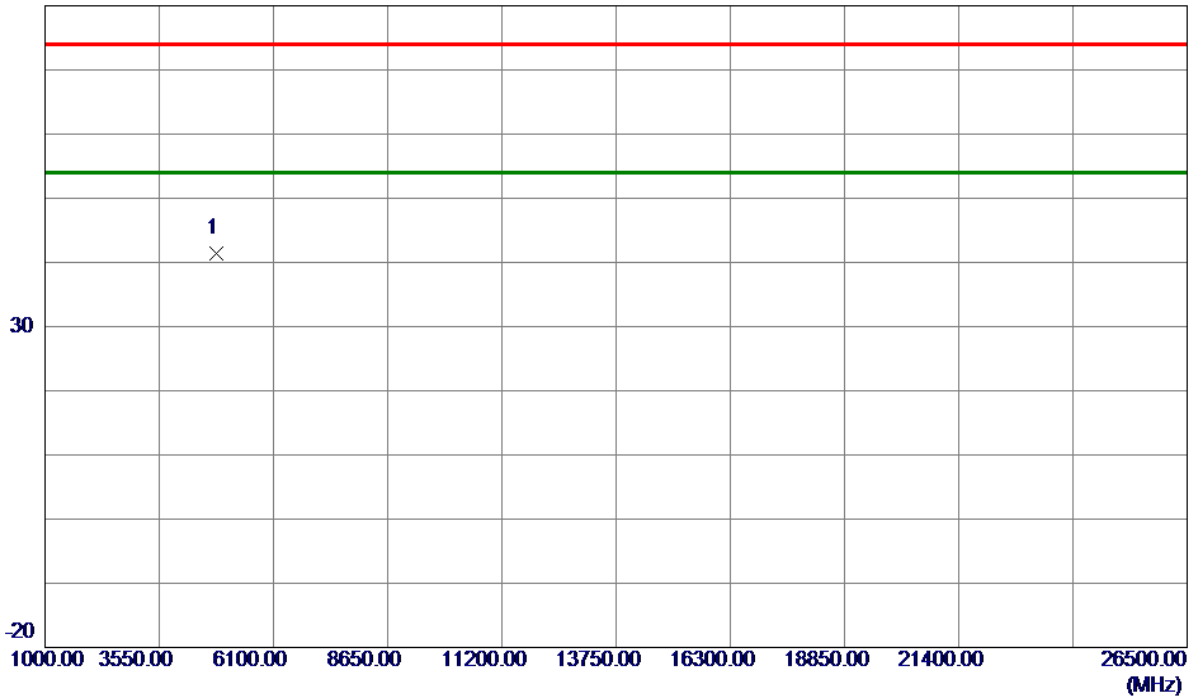
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	24.93	31.74	56.67	74.00	-17.33	peak	
2		2390.000	14.43	31.74	46.17	54.00	-7.83	AVG	
3	X	2410.890	70.98	31.72	102.70	74.00	28.70	peak	NO limit
4	*	2410.890	67.60	31.72	99.32	54.00	45.32	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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80 dBuV/m

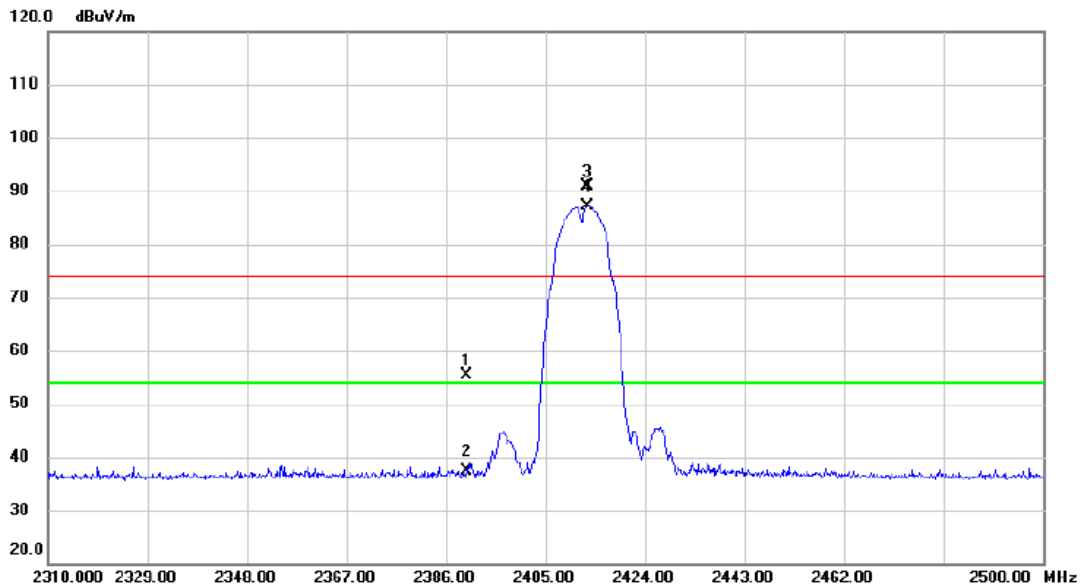


No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4823.7250	58.31	-16.98	41.33	74.00	-32.67	Peak	

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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No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	23.59	31.74	55.33	74.00	-18.67	peak	
2		2390.000	5.55	31.74	37.29	54.00	-16.71	AVG	
3	X	2412.885	59.26	31.72	90.98	74.00	16.98	peak	NO limit
4	*	2412.885	55.42	31.72	87.14	54.00	33.14	AVG	NO limit

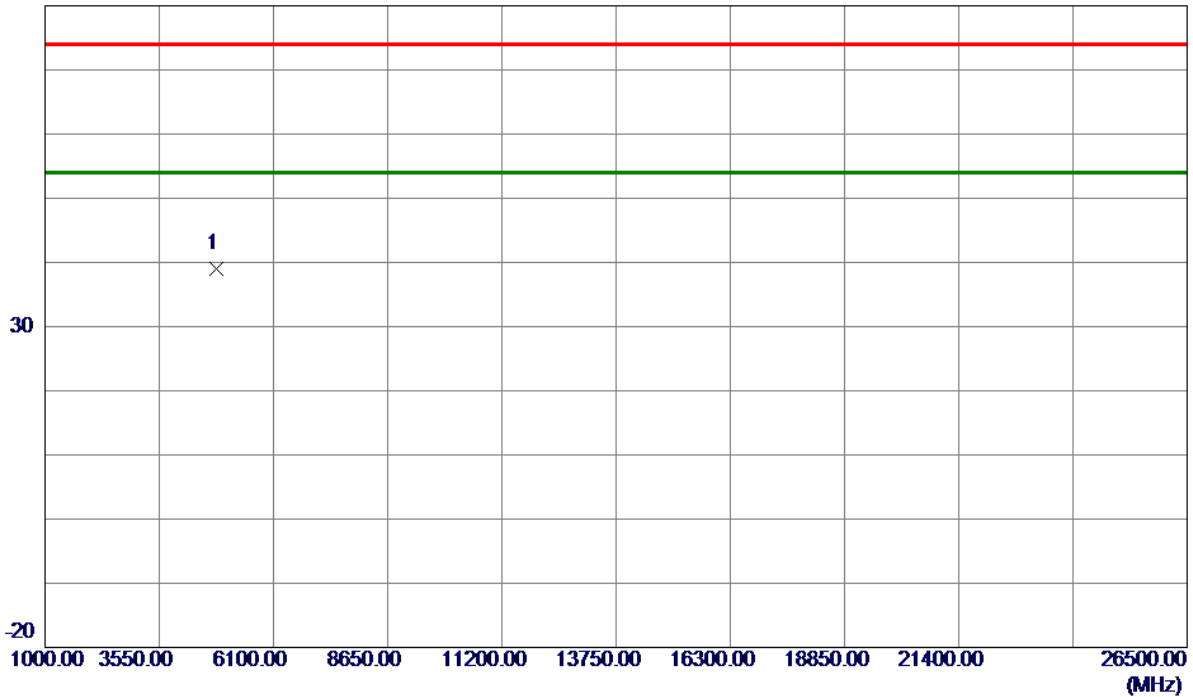
REMARKS:

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

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

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

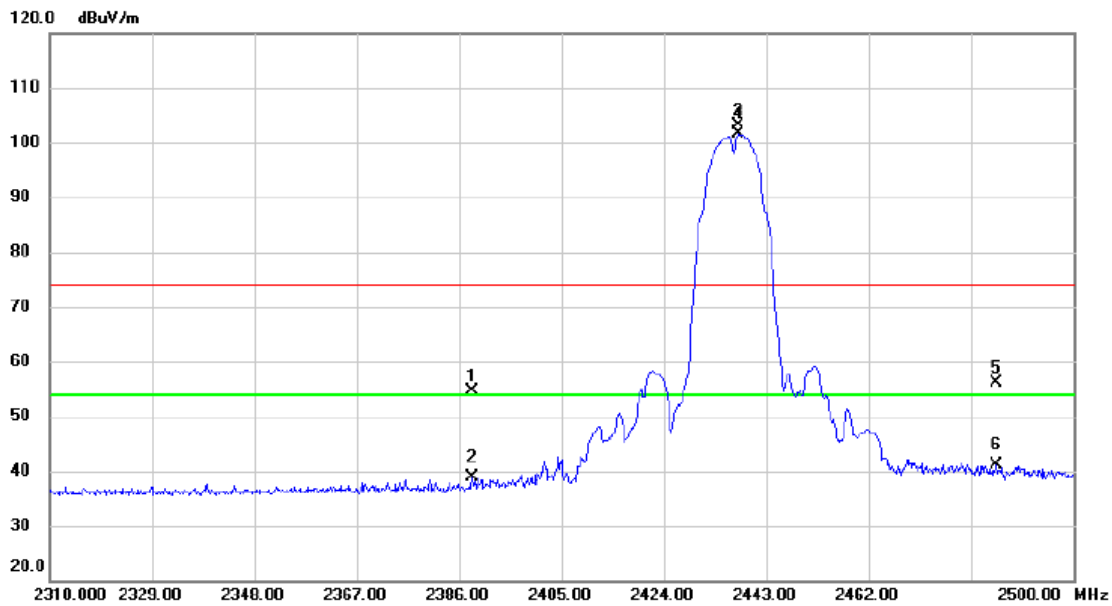


No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4823.7250	55.92	-16.98	38.94	74.00	-35.06	Peak	

REMARKS:

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

Test Mode	TX B Mode 2437 MHz	Polarization	Vertical
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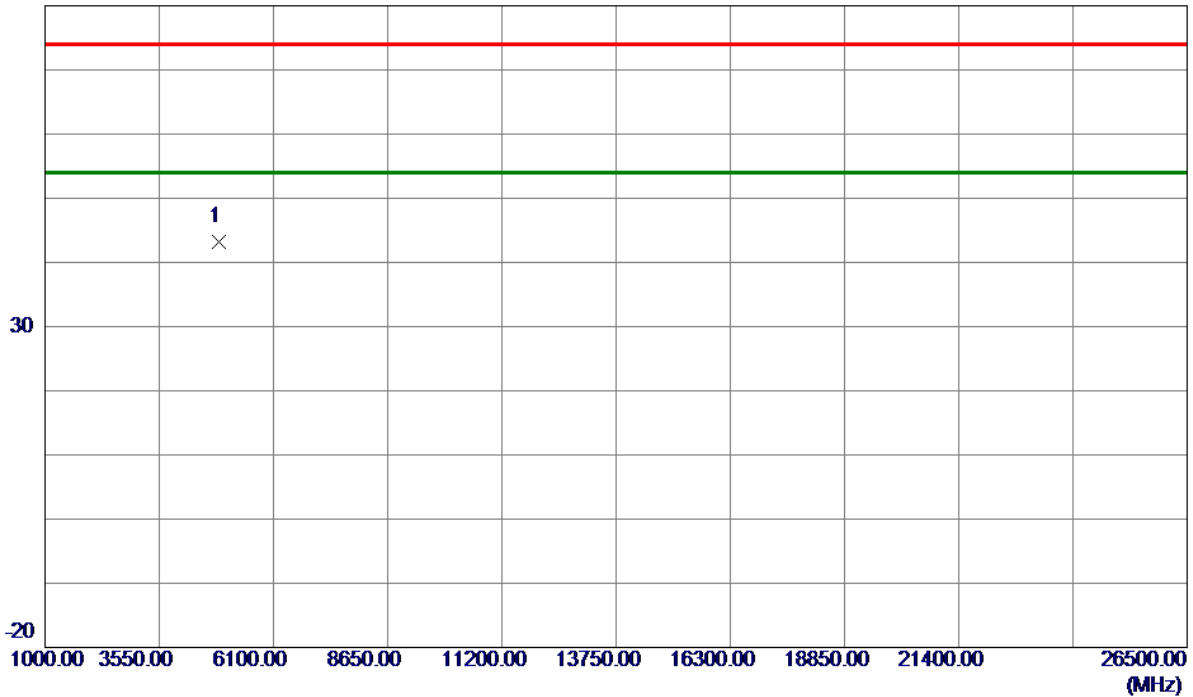
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2388.375	22.98	31.75	54.73	74.00	-19.27	peak	
2		2388.375	7.23	31.75	38.98	54.00	-15.02	AVG	
3	X	2437.870	71.48	31.71	103.19	74.00	29.19	peak	NO limit
4	*	2437.870	69.84	31.71	101.55	54.00	47.55	AVG	NO limit
5		2485.750	24.33	31.71	56.04	74.00	-17.96	peak	
6		2485.750	9.30	31.71	41.01	54.00	-12.99	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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80 dBuV/m

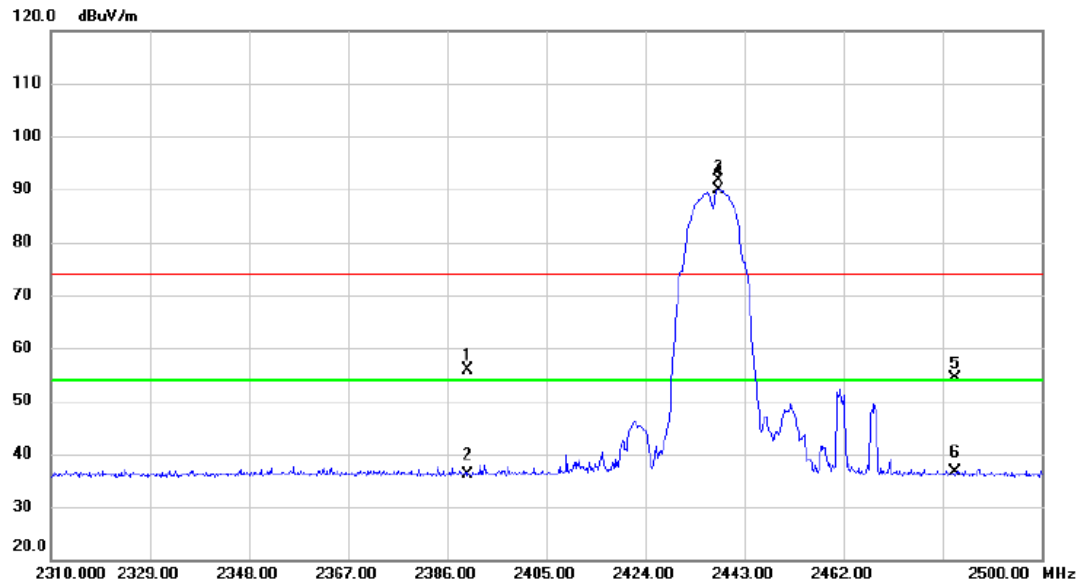


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4873.4500	60.10	-16.91	43.19	74.00	-30.81	Peak	

REMARKS:

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

Test Mode	TX B Mode 2437 MHz	Polarization	Horizontal
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No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	24.15	31.74	55.89	74.00	-18.11	peak	
2		2390.000	4.44	31.74	36.18	54.00	-17.82	AVG	
3	X	2437.965	60.01	31.71	91.72	74.00	17.72	peak	NO limit
4	*	2437.965	58.21	31.71	89.92	54.00	35.92	AVG	NO limit
5		2483.500	22.60	31.72	54.32	74.00	-19.68	peak	
6		2483.500	4.94	31.72	36.66	54.00	-17.34	AVG	

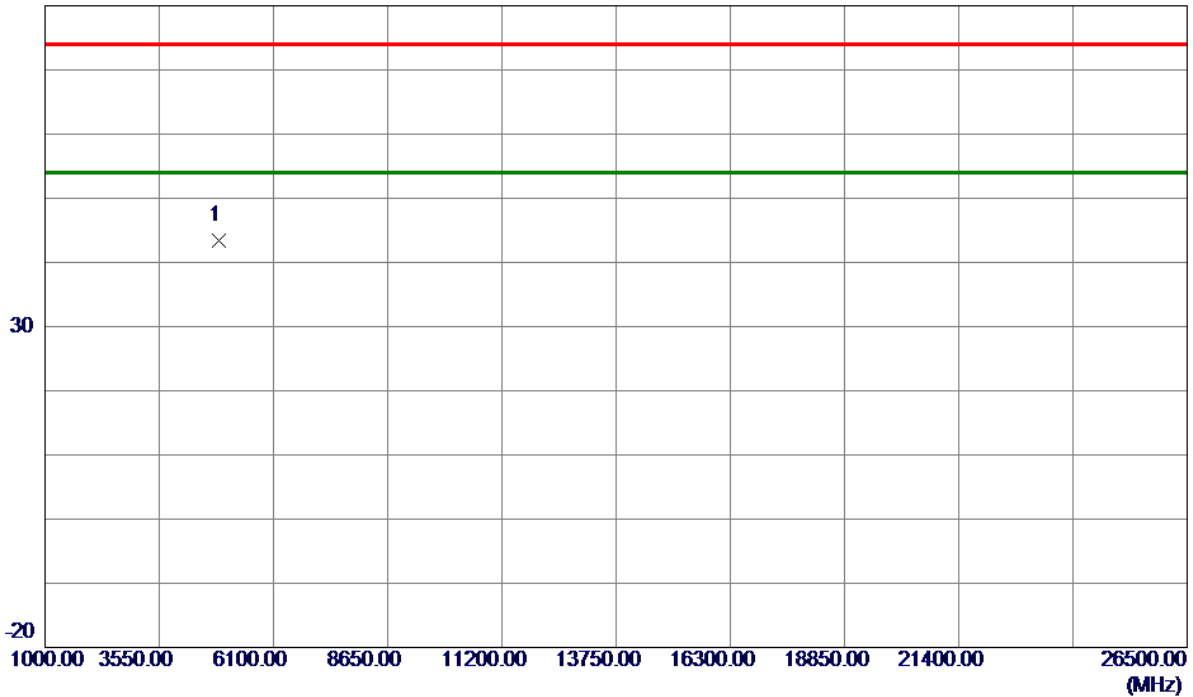
REMARKS:

(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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80 dBuV/m

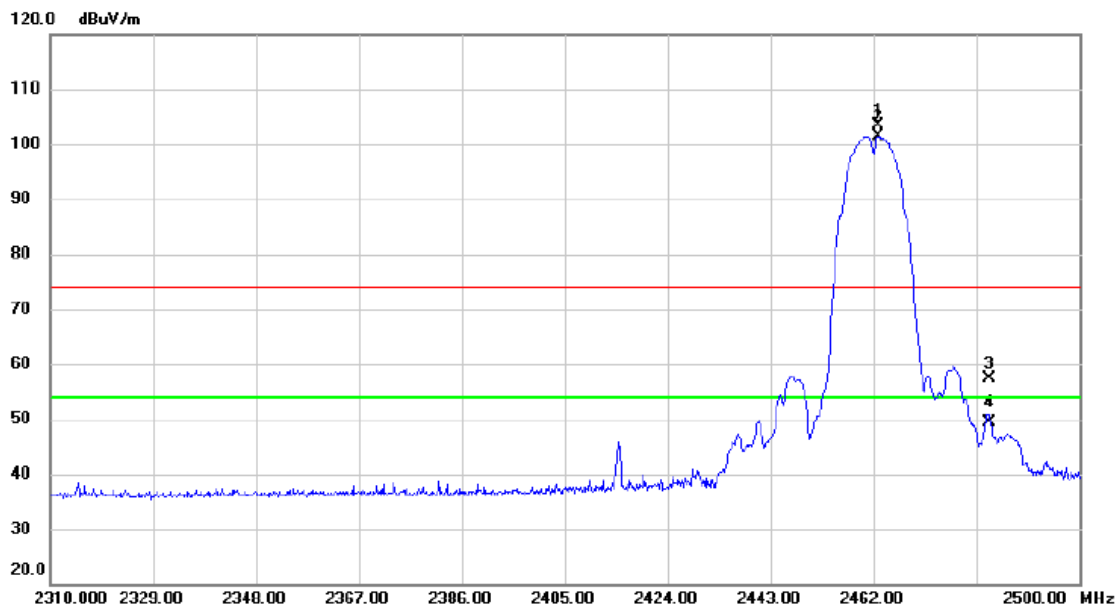


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4873.4500	60.40	-16.91	43.49	74.00	-30.51	Peak	

REMARKS:

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

Test Mode	TX B Mode 2462 MHz	Polarization	Vertical
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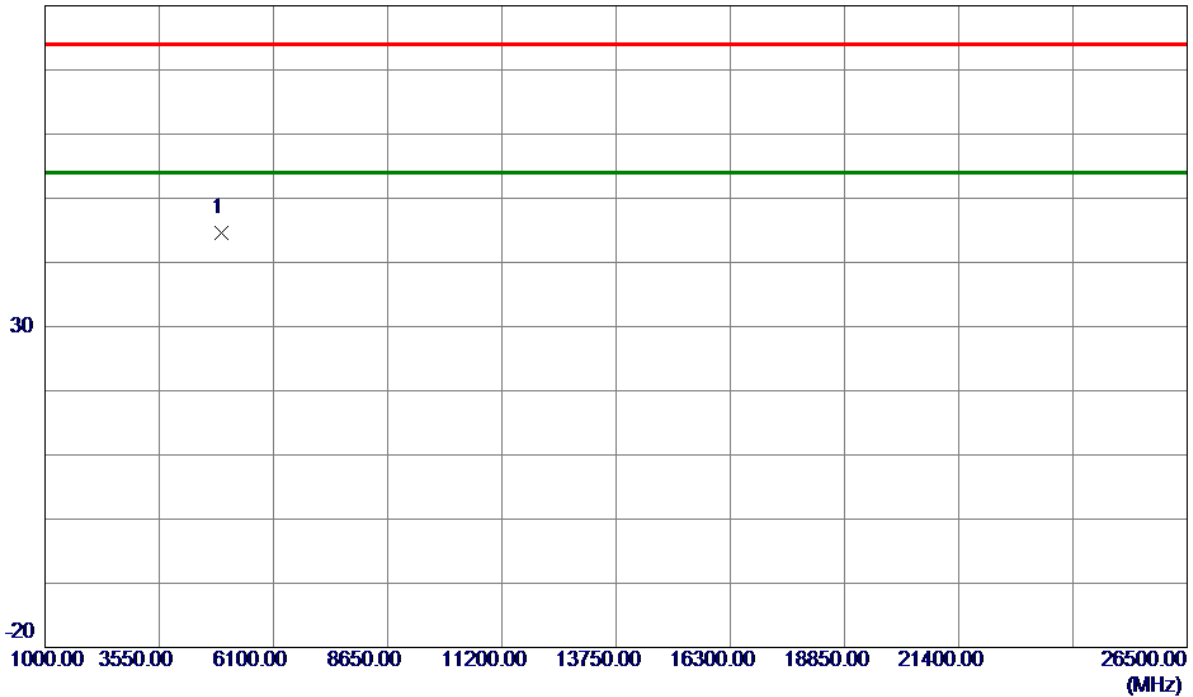
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2462.950	71.59	31.72	103.31	74.00	29.31	peak	NO limit
2	*	2462.950	69.78	31.72	101.50	54.00	47.50	AVG	NO limit
3		2483.500	25.72	31.72	57.44	74.00	-16.56	peak	
4		2483.500	17.74	31.72	49.46	54.00	-4.54	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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80 dBuV/m

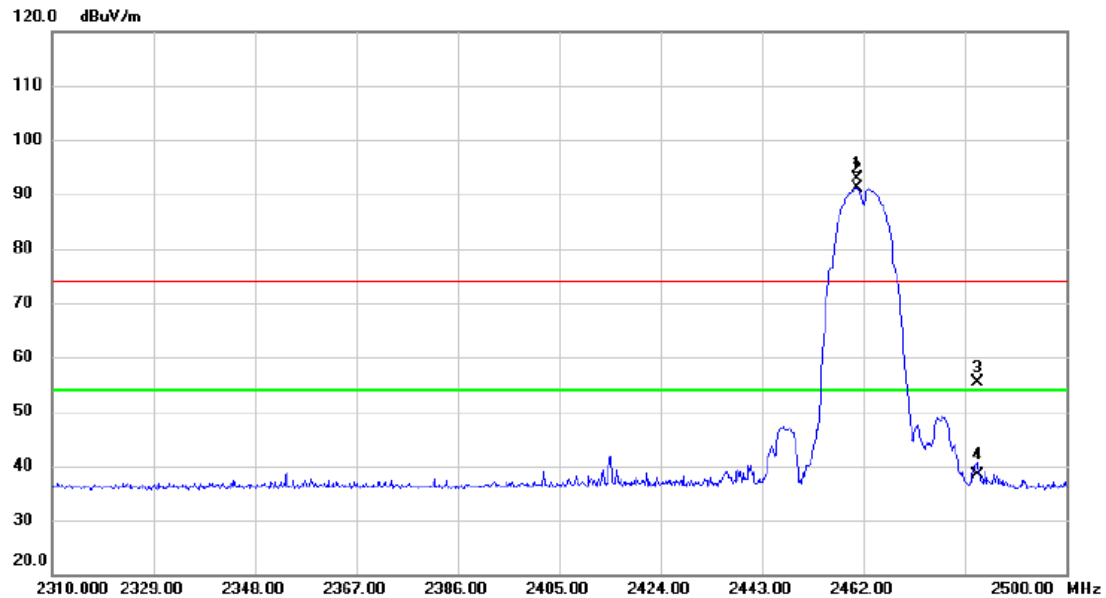


No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4924.4500	61.43	-16.77	44.66	74.00	-29.34	Peak	

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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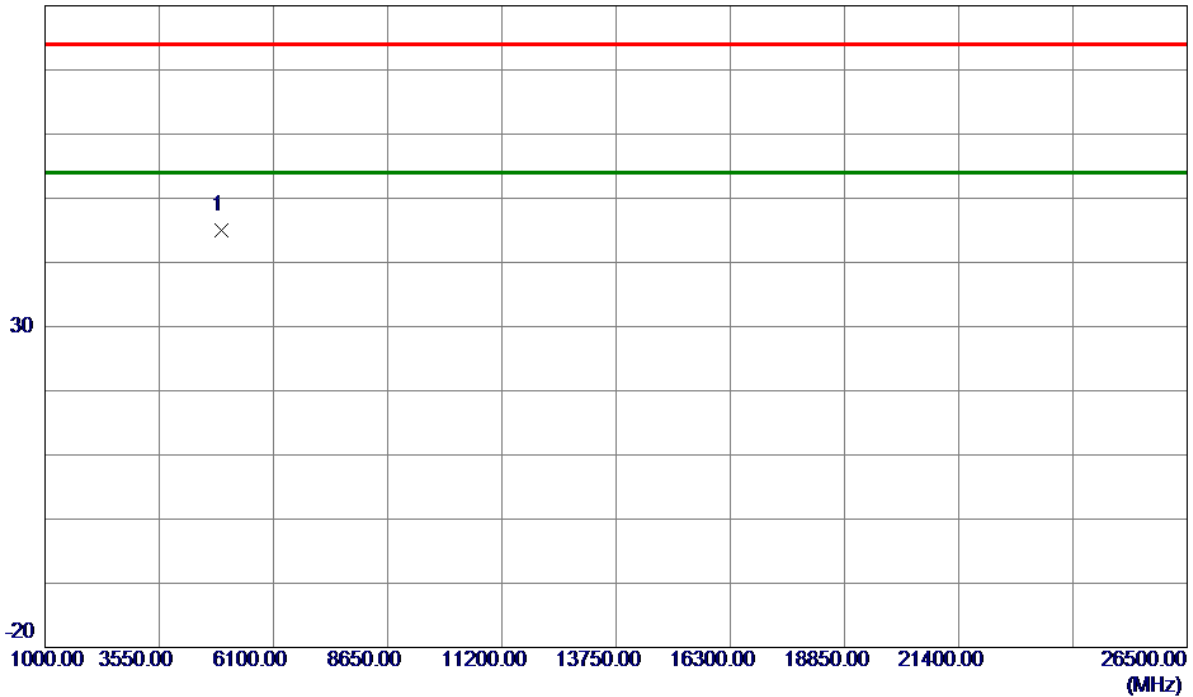
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2460.955	61.24	31.71	92.95	74.00	18.95	peak	NO limit
2	*	2460.955	59.45	31.71	91.16	54.00	37.16	AVG	NO limit
3		2483.500	23.68	31.72	55.40	74.00	-18.60	peak	
4		2483.500	6.78	31.72	38.50	54.00	-15.50	AVG	

REMARKS:

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

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

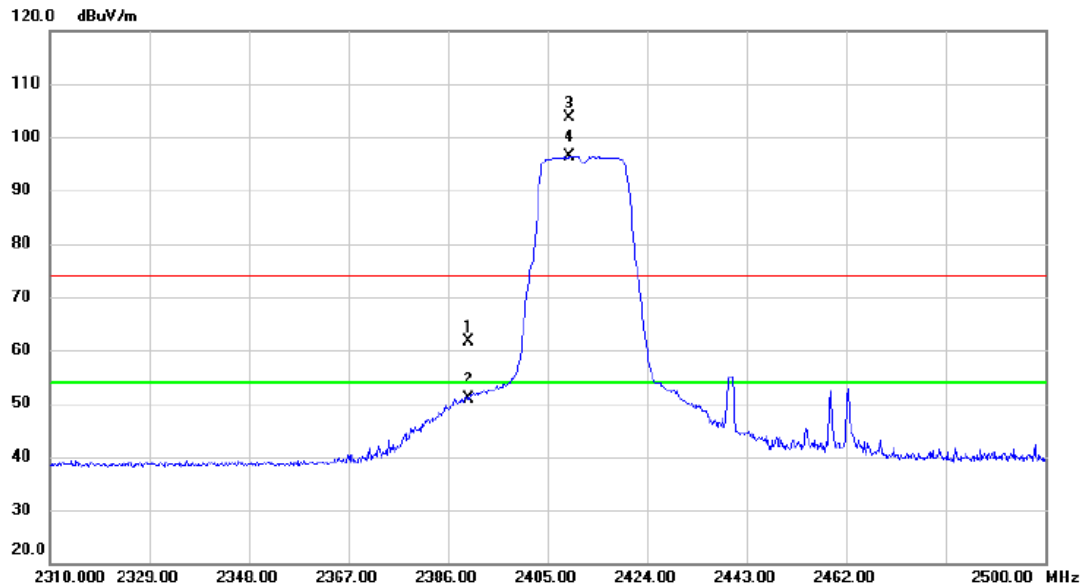


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4924.4500	61.85	-16.77	45.08	74.00	-28.92	Peak	

REMARKS:

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

Test Mode	TX G Mode 2412 MHz	Polarization	Vertical
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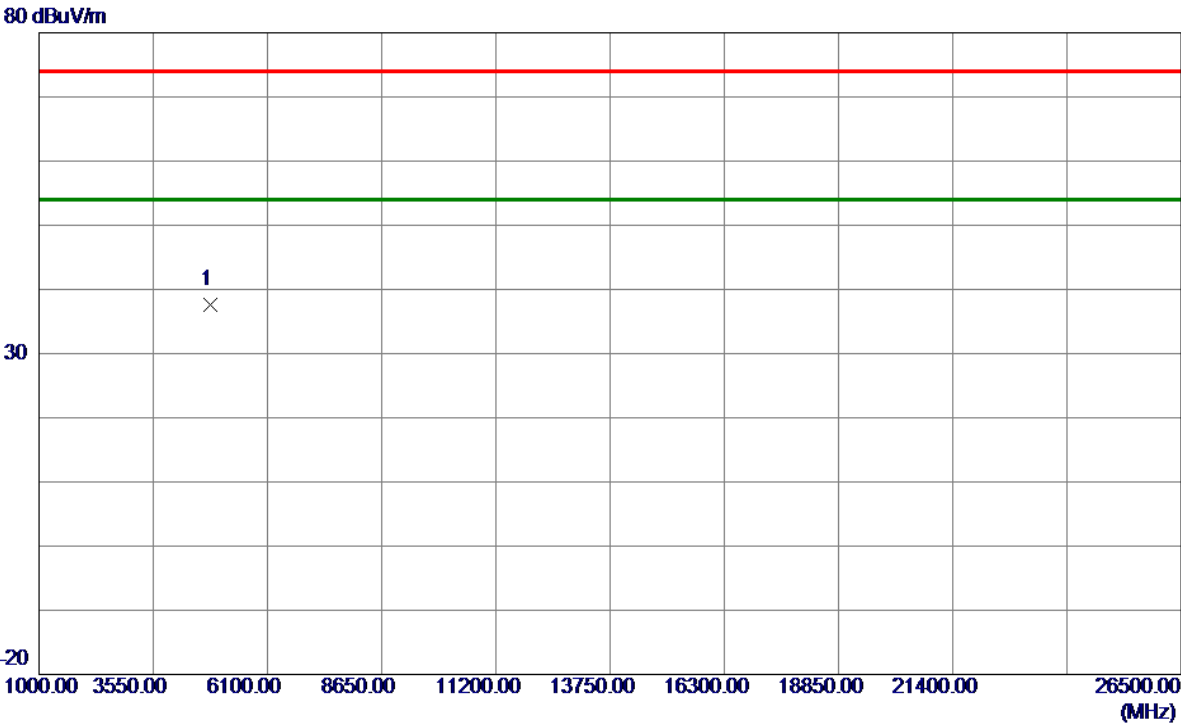


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	29.92	31.74	61.66	74.00	-12.34	peak	
2		2390.000	19.21	31.74	50.95	54.00	-3.05	AVG	
3	X	2409.275	71.95	31.72	103.67	74.00	29.67	peak	NO limit
4	*	2409.275	64.64	31.72	96.36	54.00	42.36	AVG	NO limit

REMARKS:

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

Test Mode	TX G Mode 2412 MHz	Polarization	Vertical
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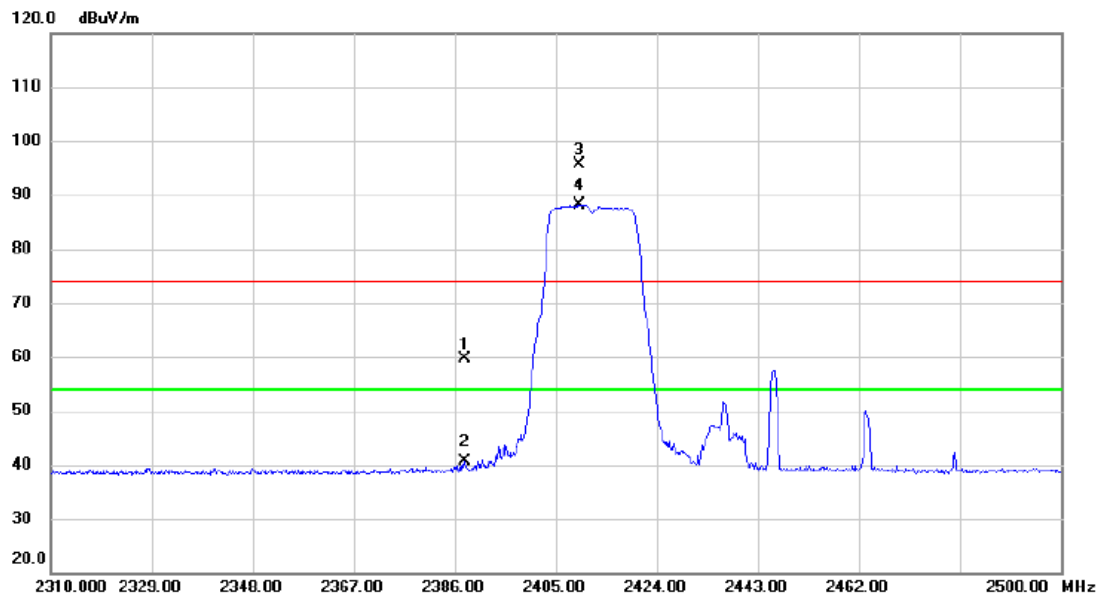
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4824.0000	54.56	-16.98	37.58	74.00	-36.42	Peak	

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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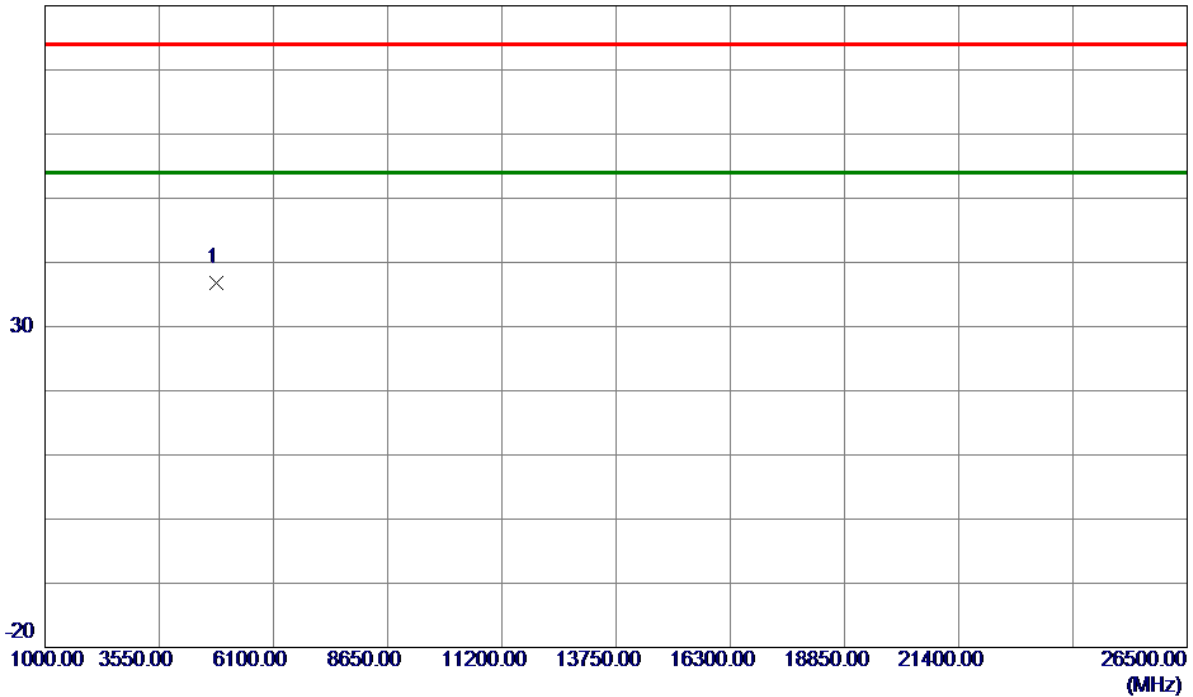
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2387.805	27.78	31.75	59.53	74.00	-14.47	peak	
2		2387.805	8.78	31.75	40.53	54.00	-13.47	AVG	
3	X	2409.370	63.90	31.72	95.62	74.00	21.62	peak	NO limit
4	*	2409.370	56.39	31.72	88.11	54.00	34.11	AVG	NO limit

REMARKS:

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

Test Mode	TX G Mode 2412 MHz	Polarization	Horizontal
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80 dBuV/m

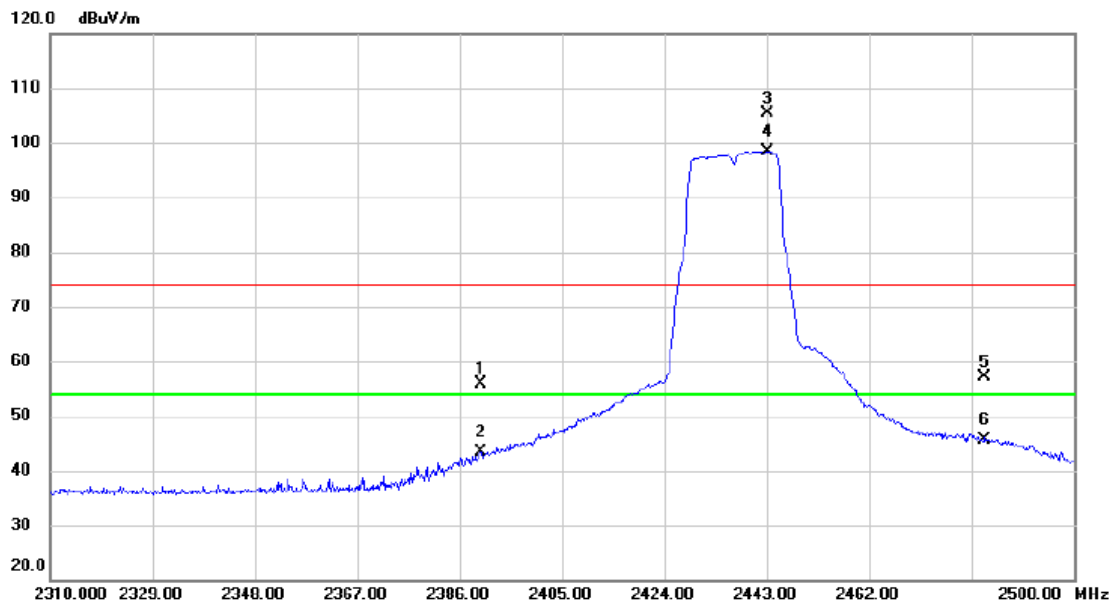


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4824.0000	53.70	-16.98	36.72	74.00	-37.28	Peak	

REMARKS:

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

Test Mode	TX G Mode 2437 MHz	Polarization	Vertical
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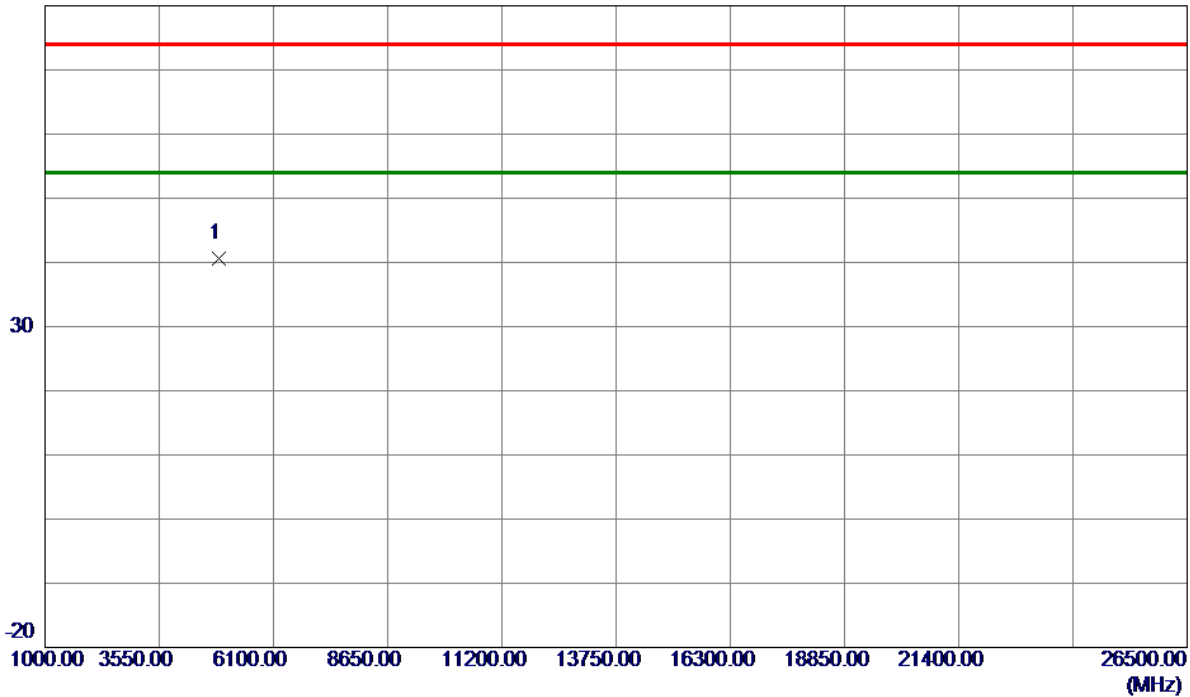
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	24.22	31.74	55.96	74.00	-18.04	peak	
2		2390.000	11.53	31.74	43.27	54.00	-10.73	AVG	
3	X	2443.095	73.55	31.72	105.27	74.00	31.27	peak	NO limit
4	*	2443.095	66.69	31.72	98.41	54.00	44.41	AVG	NO limit
5		2483.500	25.45	31.72	57.17	74.00	-16.83	peak	
6		2483.500	13.79	31.72	45.51	54.00	-8.49	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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80 dBuV/m

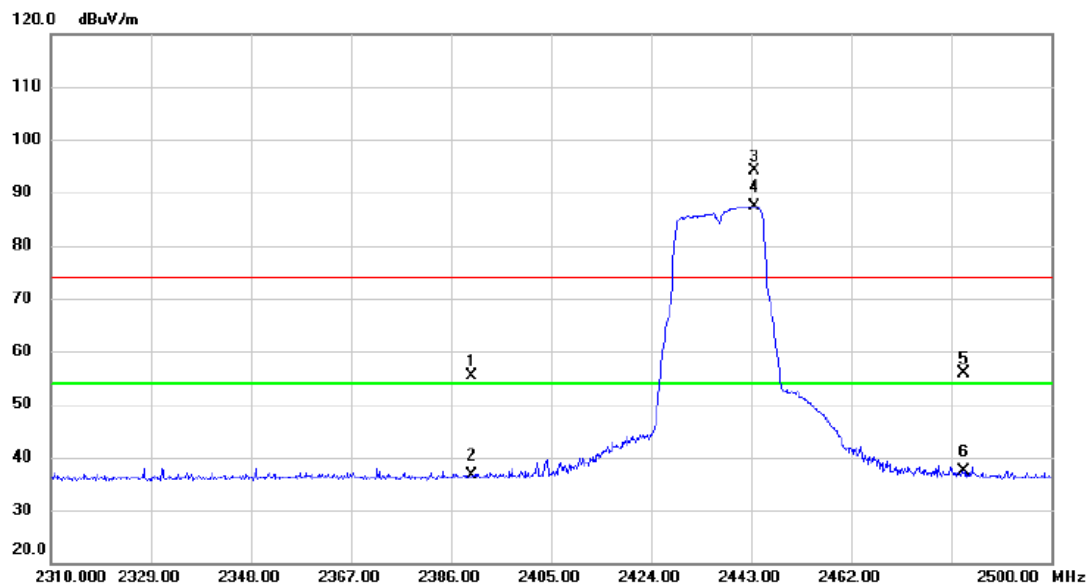


No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4876.0000	57.58	-16.90	40.68	74.00	-33.32	Peak	

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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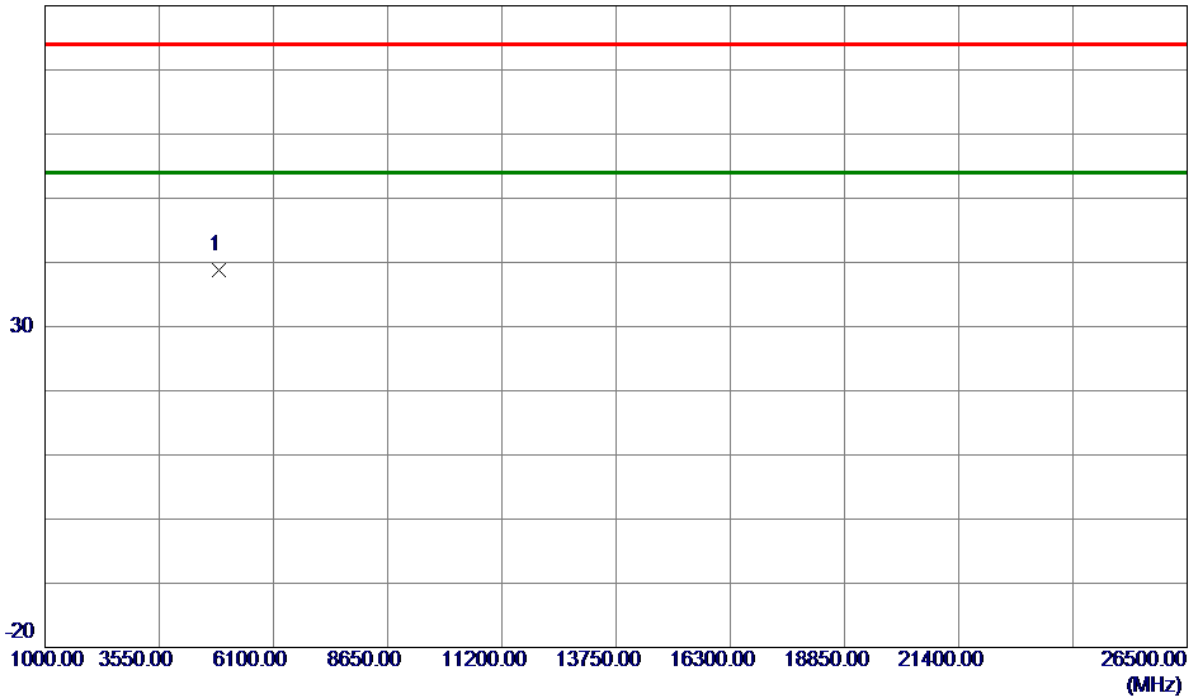
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	23.60	31.74	55.34	74.00	-18.66	peak	
2		2390.000	4.91	31.74	36.65	54.00	-17.35	AVG	
3	X	2443.665	62.44	31.72	94.16	74.00	20.16	peak	NO limit
4	*	2443.665	55.70	31.72	87.42	54.00	33.42	AVG	NO limit
5		2483.500	24.27	31.72	55.99	74.00	-18.01	peak	
6		2483.500	5.58	31.72	37.30	54.00	-16.70	AVG	

REMARKS:

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

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

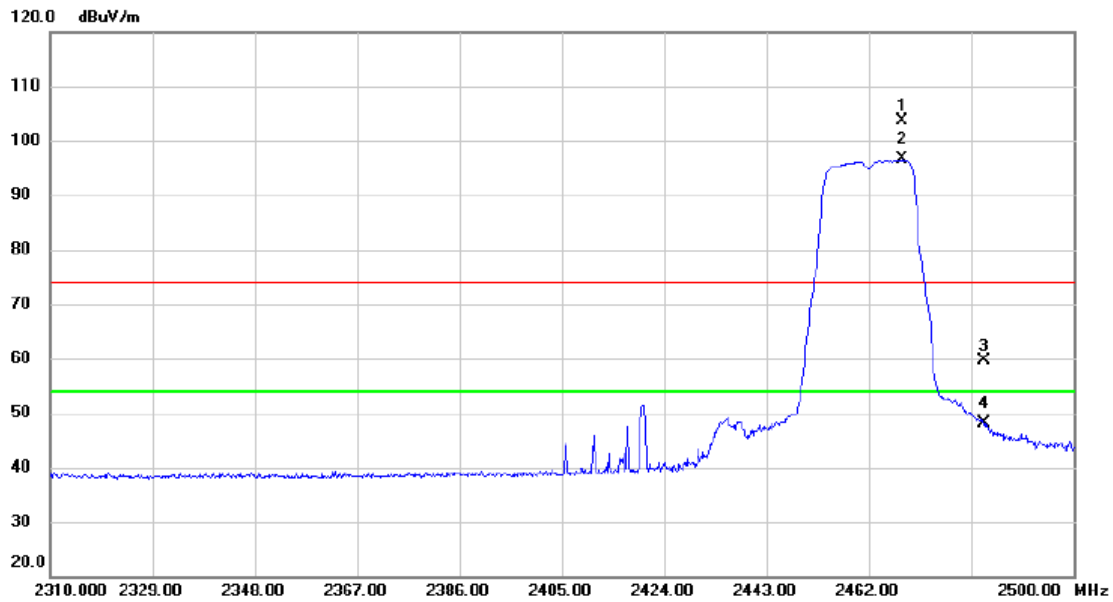


No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4874.0000	55.73	-16.91	38.82	74.00	-35.18	Peak	

REMARKS:

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

Test Mode	TX G Mode 2462 MHz	Polarization	Vertical
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No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2468.175	72.01	31.71	103.72	74.00	29.72	peak	NO limit
2	*	2468.175	64.85	31.71	96.56	54.00	42.56	AVG	NO limit
3		2483.500	28.01	31.72	59.73	74.00	-14.27	peak	
4		2483.500	16.34	31.72	48.06	54.00	-5.94	AVG	

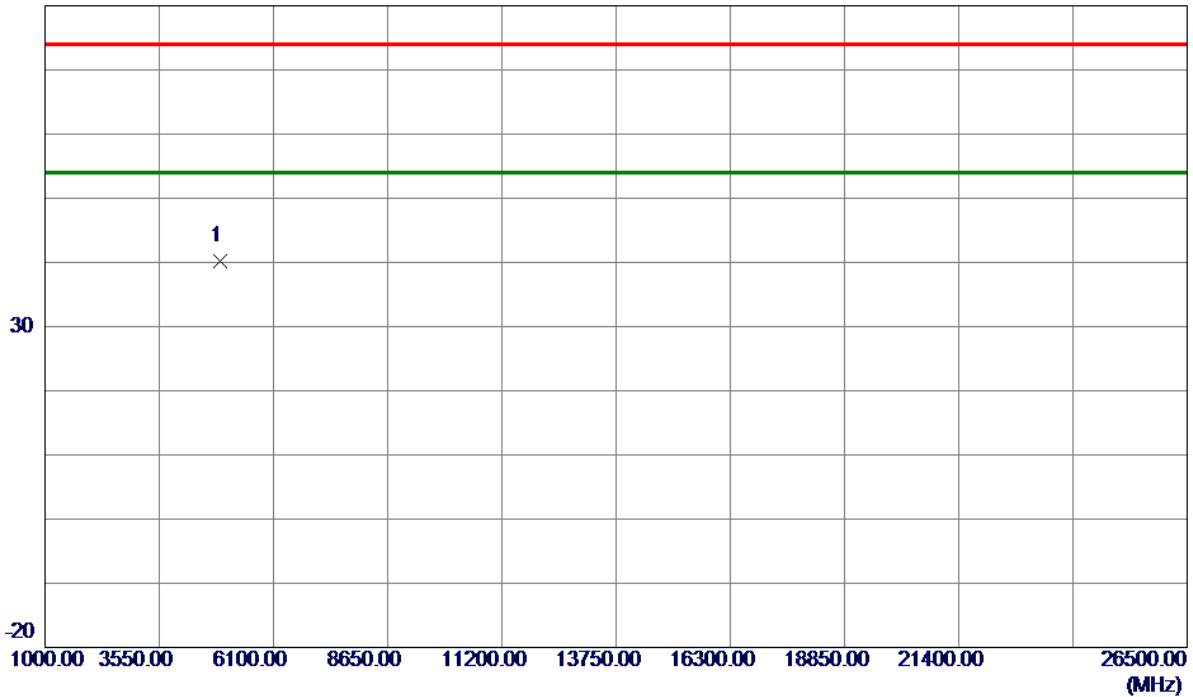
REMARKS:

(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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80 dBuV/m

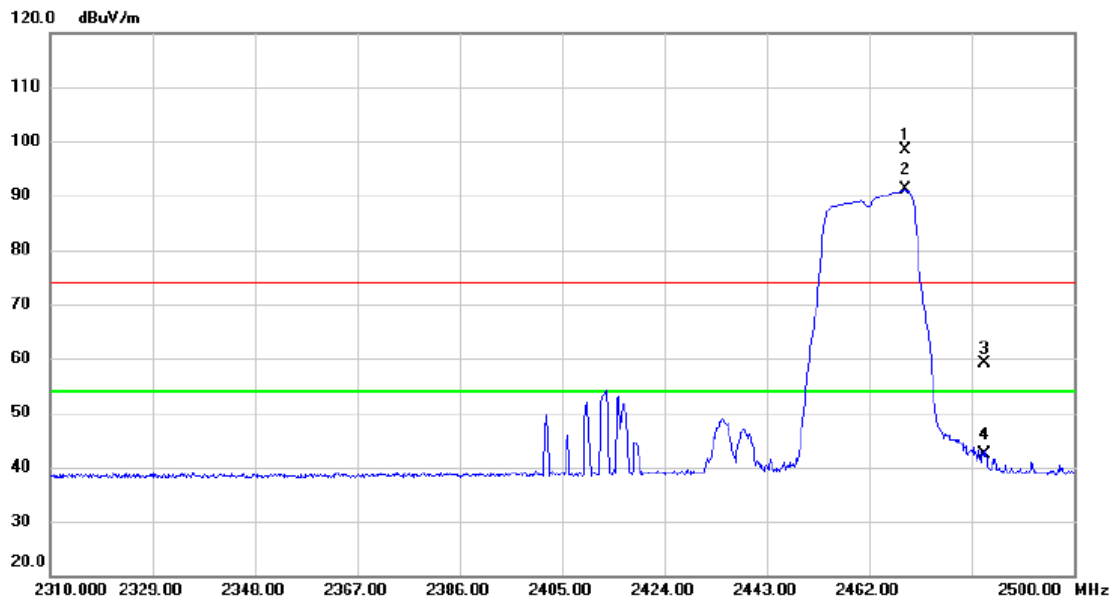


No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4920.6250	57.01	-16.79	40.22	74.00	-33.78	Peak	

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.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2468.745	66.69	31.71	98.40	74.00	24.40	peak	NO limit
2	*	2468.745	59.32	31.71	91.03	54.00	37.03	AVG	NO limit
3		2483.500	27.34	31.72	59.06	74.00	-14.94	peak	
4		2483.500	10.56	31.72	42.28	54.00	-11.72	AVG	

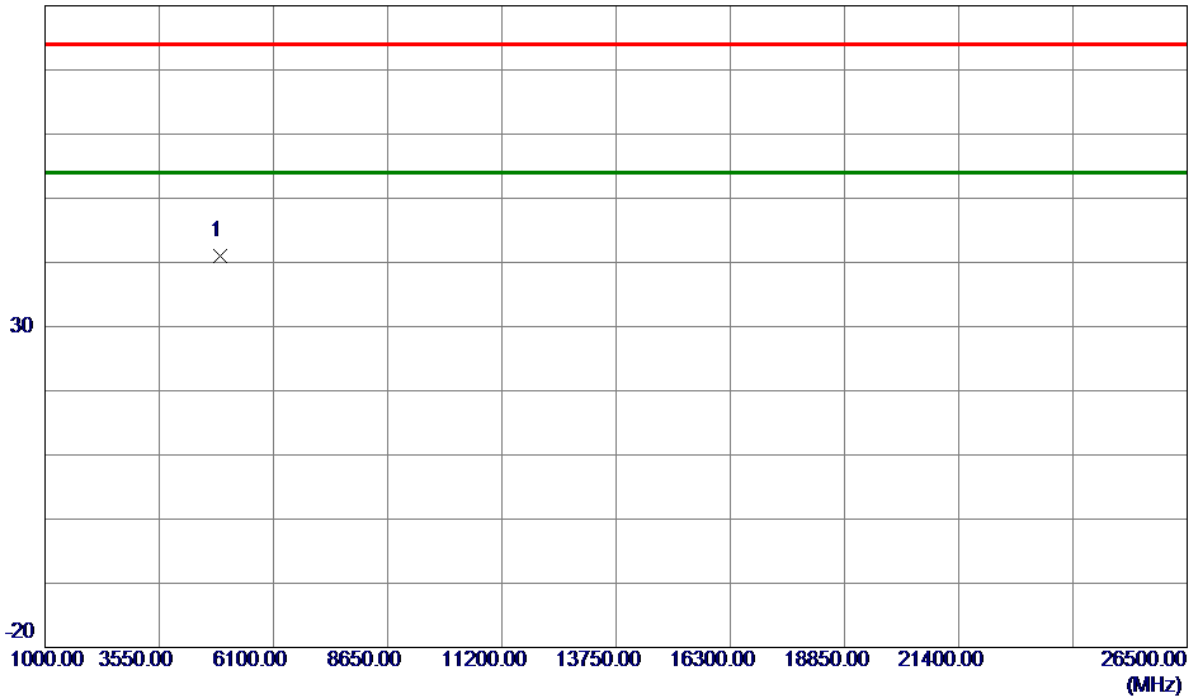
REMARKS:

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

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

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

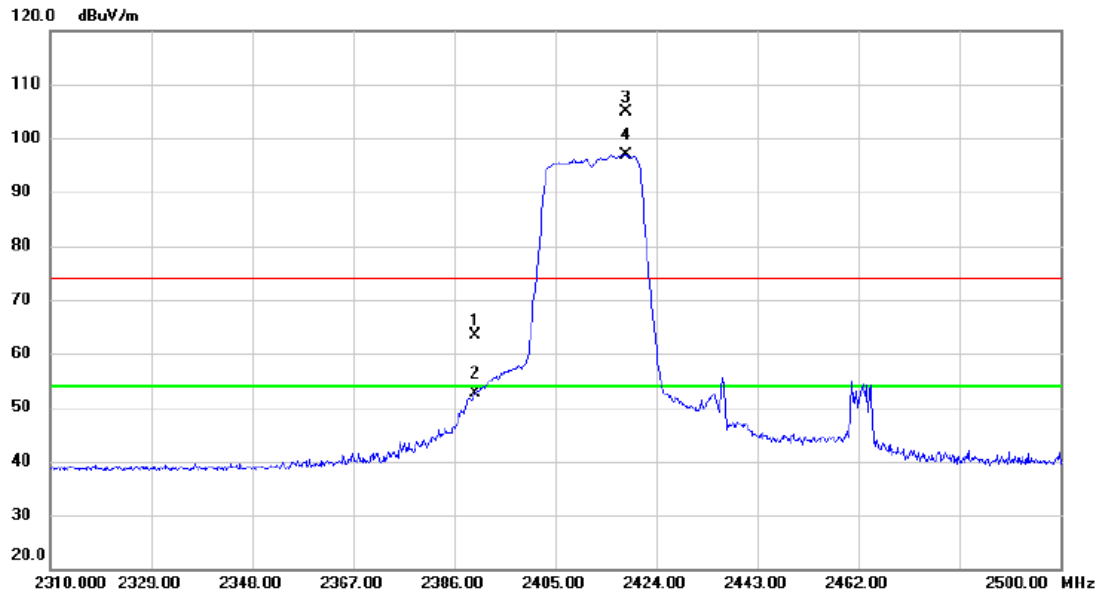


No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4920.6250	57.88	-16.79	41.09	74.00	-32.91	Peak	

REMARKS:

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

Test Mode	TX N(HT20) Mode 2412 MHz	Polarization	Vertical
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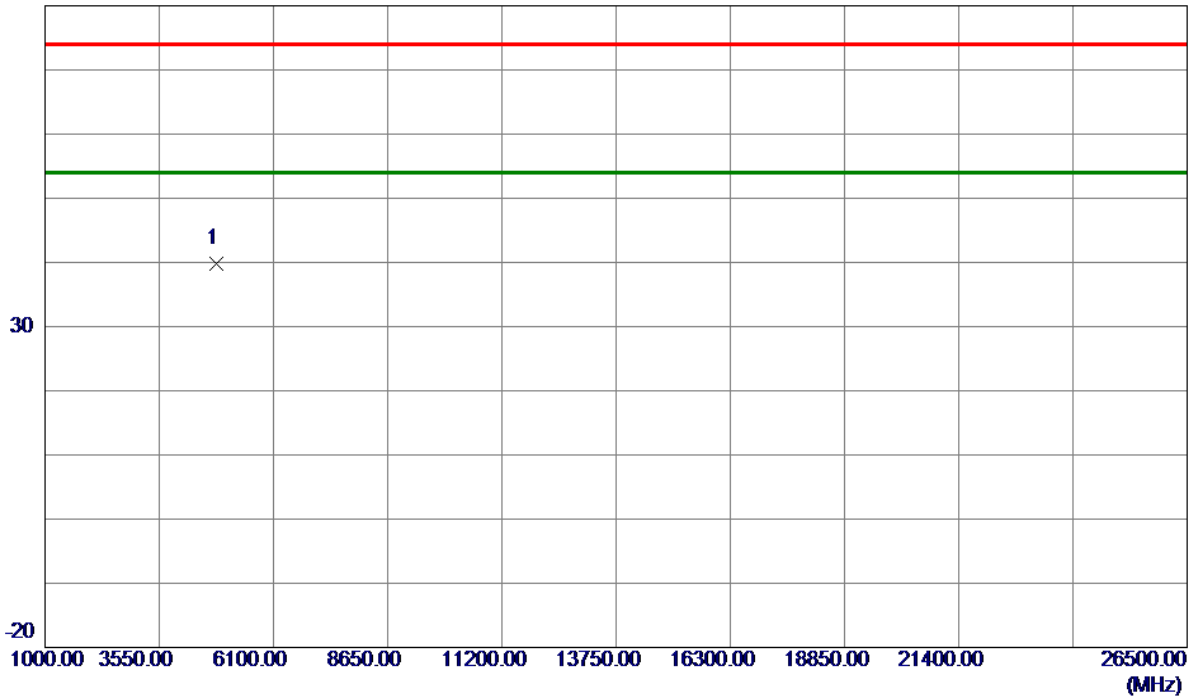
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	31.69	31.74	63.43	74.00	-10.57	peak	
2		2390.000	20.94	31.74	52.68	54.00	-1.32	AVG	
3	X	2418.300	73.19	31.72	104.91	74.00	30.91	peak	NO limit
4	*	2418.300	65.27	31.72	96.99	54.00	42.99	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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80 dBuV/m

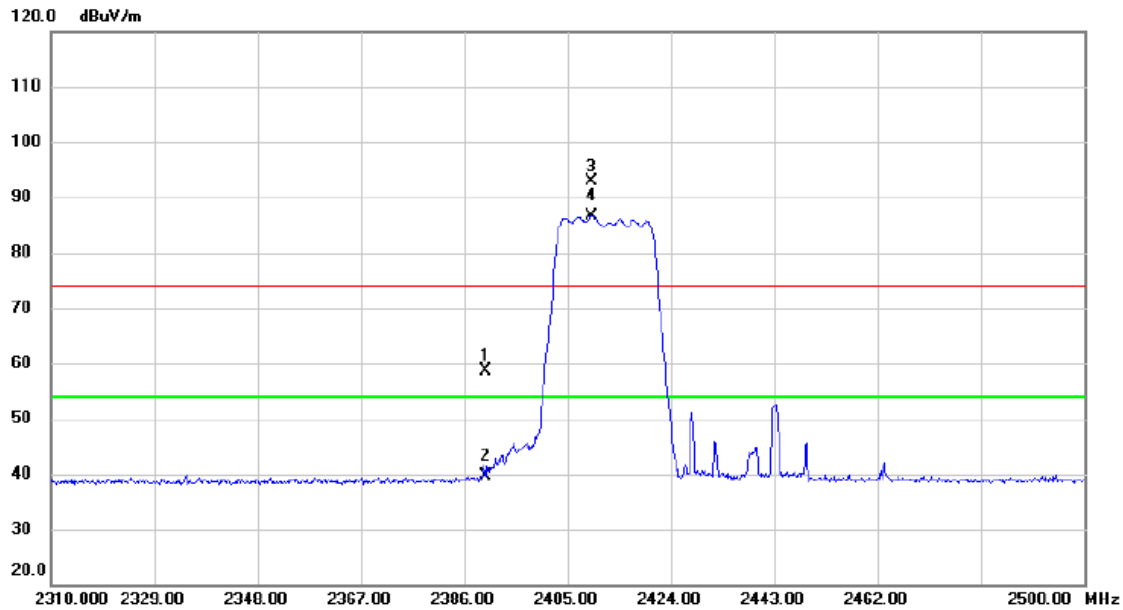


No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4830.1000	56.70	-16.97	39.73	74.00	-34.27	Peak	

REMARKS:

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

Test Mode	TX N(HT20) Mode 2412 MHz	Polarization	Horizontal
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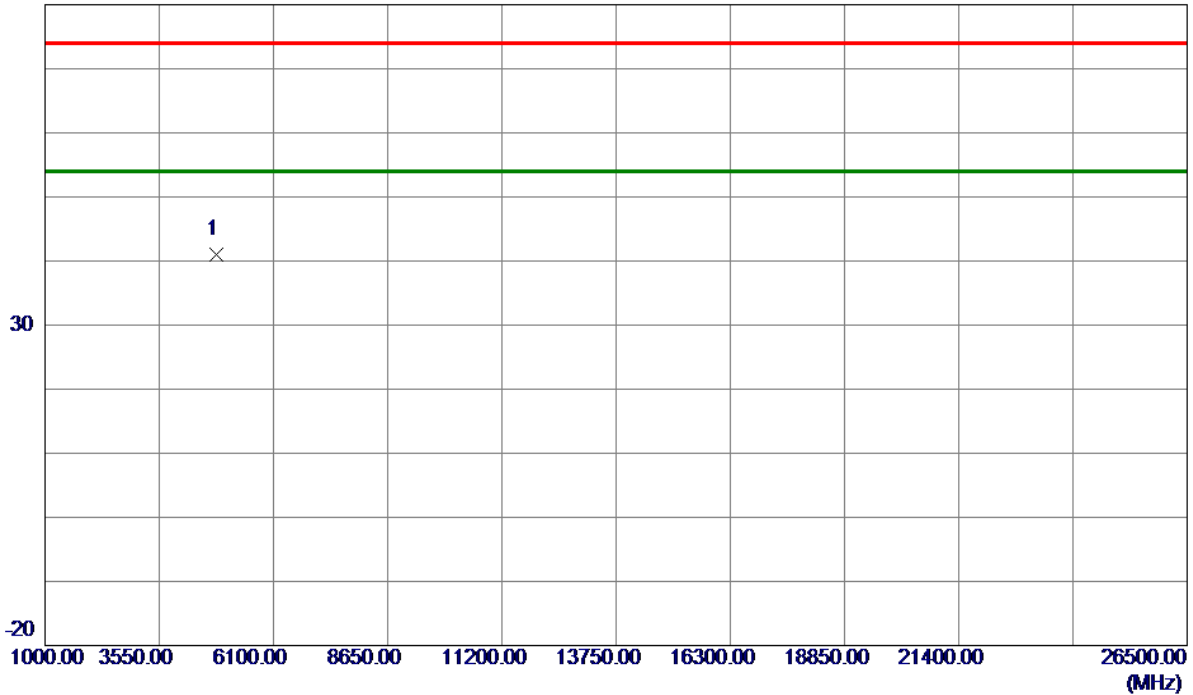
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	26.95	31.74	58.69	74.00	-15.31	peak	
2		2390.000	7.94	31.74	39.68	54.00	-14.32	AVG	
3	X	2409.370	61.10	31.72	92.82	74.00	18.82	peak	NO limit
4	*	2409.370	54.88	31.72	86.60	54.00	32.60	AVG	NO limit

REMARKS:

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

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

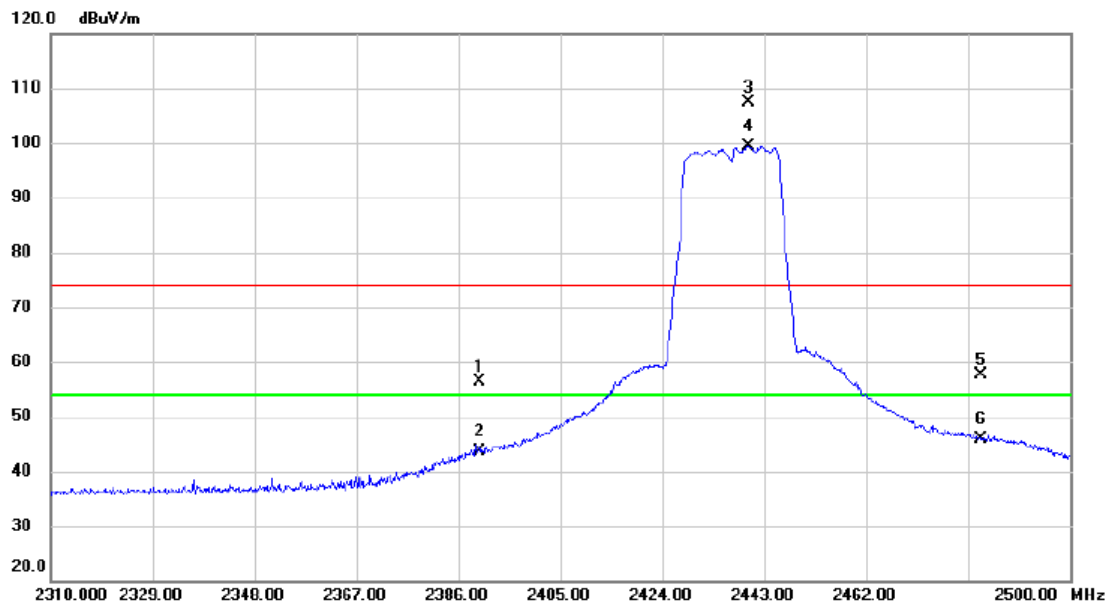


No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4826.2750	58.07	-16.98	41.09	74.00	-32.91	Peak	

REMARKS:

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

Test Mode	TX N(HT20) Mode 2437 MHz	Polarization	Vertical
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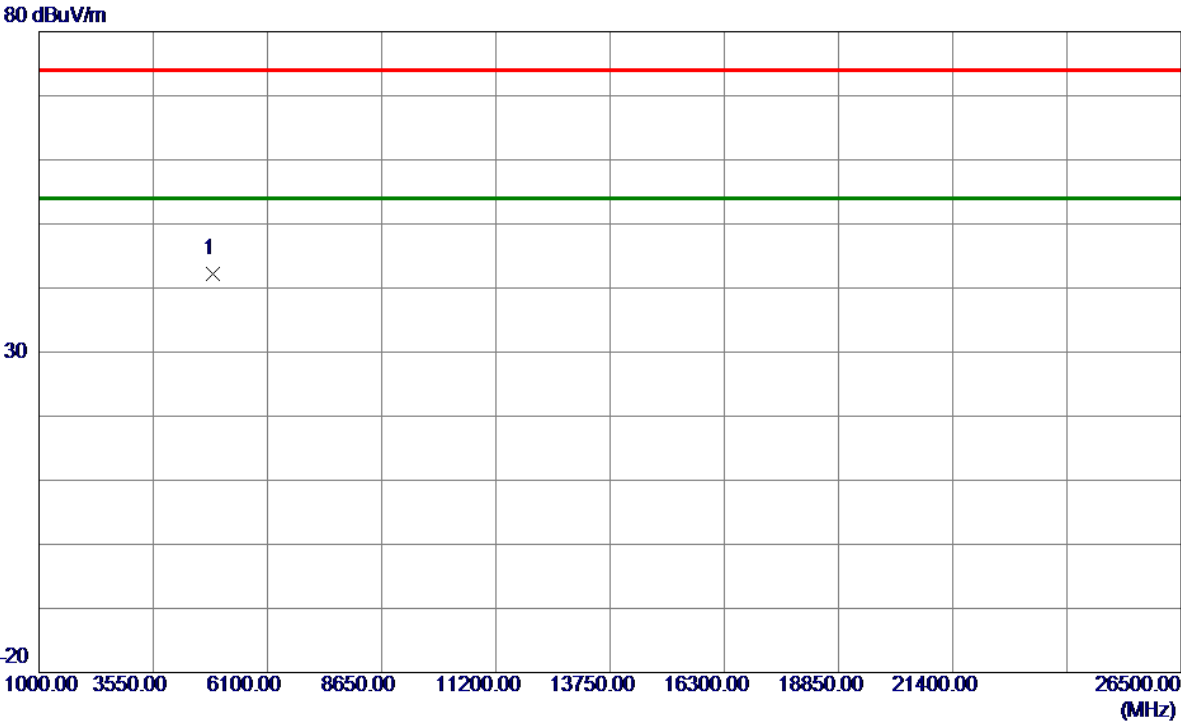
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	24.60	31.74	56.34	74.00	-17.66	peak	
2		2390.000	11.77	31.74	43.51	54.00	-10.49	AVG	
3	X	2440.055	75.76	31.72	107.48	74.00	33.48	peak	NO limit
4	*	2440.055	67.73	31.72	99.45	54.00	45.45	AVG	NO limit
5		2483.500	25.87	31.72	57.59	74.00	-16.41	peak	
6		2483.500	14.25	31.72	45.97	54.00	-8.03	AVG	

REMARKS:

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

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

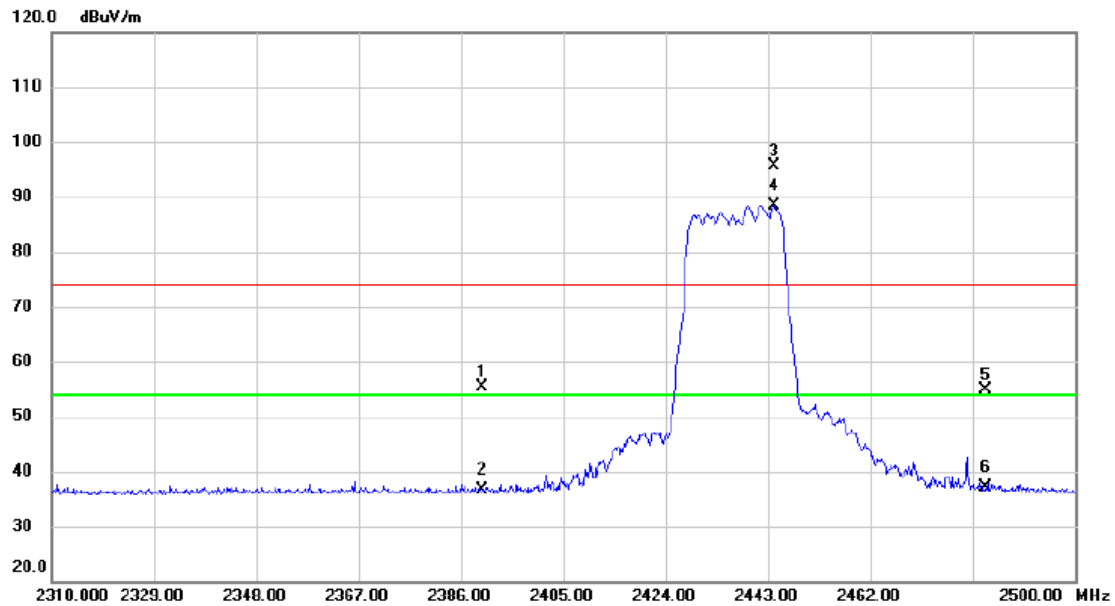
Test Mode	TX N(HT20) Mode 2437 MHz	Polarization	Vertical
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No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4872.1750	59.09	-16.91	42.18	74.00	-31.82	Peak	

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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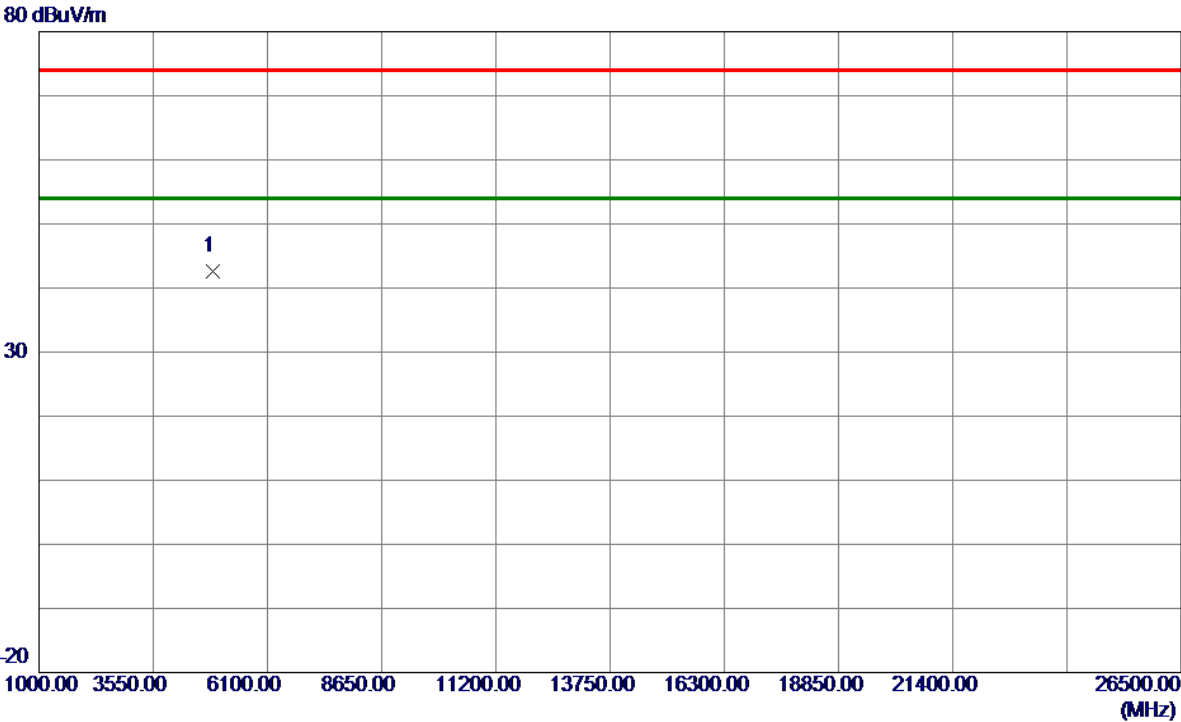


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	23.61	31.74	55.35	74.00	-18.65	peak	
2		2390.000	4.88	31.74	36.62	54.00	-17.38	AVG	
3	X	2444.235	63.79	31.72	95.51	74.00	21.51	peak	NO limit
4	*	2444.235	56.76	31.72	88.48	54.00	34.48	AVG	NO limit
5		2483.500	23.21	31.72	54.93	74.00	-19.07	peak	
6		2483.500	5.32	31.72	37.04	54.00	-16.96	AVG	

REMARKS:

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

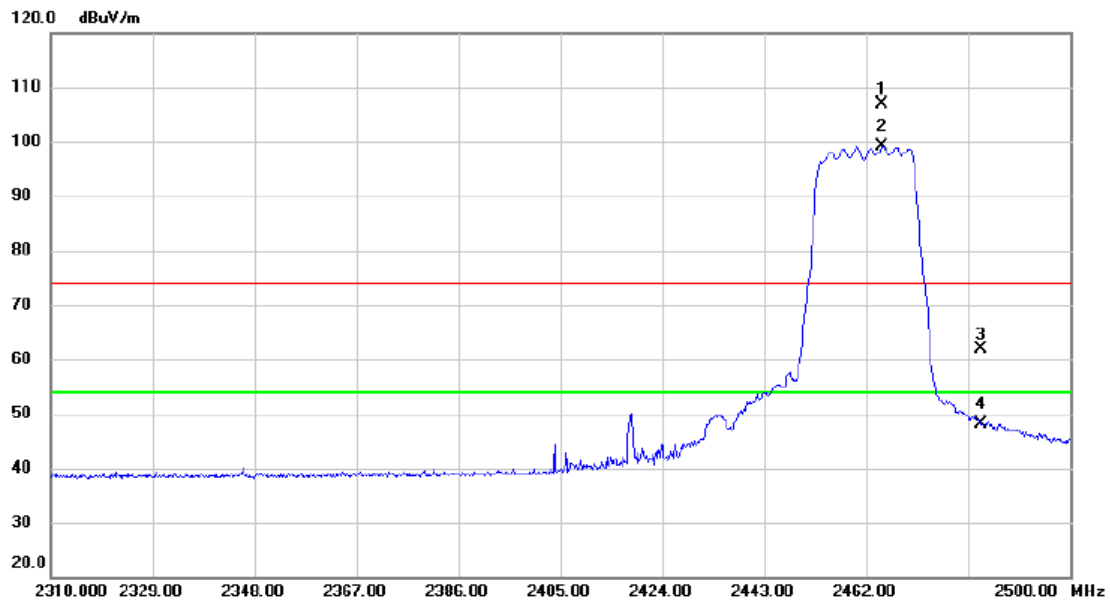
Test Mode	TX N(HT20) Mode 2437 MHz	Polarization	Horizontal
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No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4872.1750	59.59	-16.91	42.68	74.00	-31.32	Peak	

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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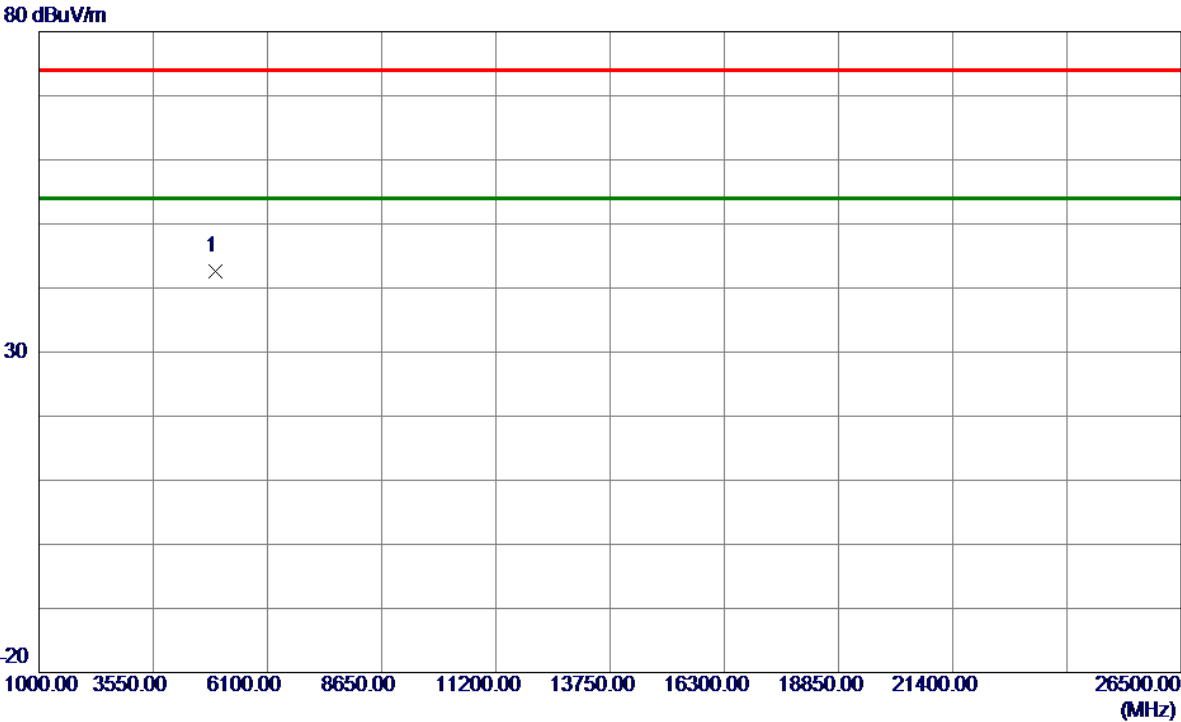
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2465.040	75.29	31.71	107.00	74.00	33.00	peak	NO limit
2	*	2465.040	67.46	31.71	99.17	54.00	45.17	AVG	NO limit
3		2483.500	30.25	31.72	61.97	74.00	-12.03	peak	
4		2483.500	16.29	31.72	48.01	54.00	-5.99	AVG	

REMARKS:

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

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

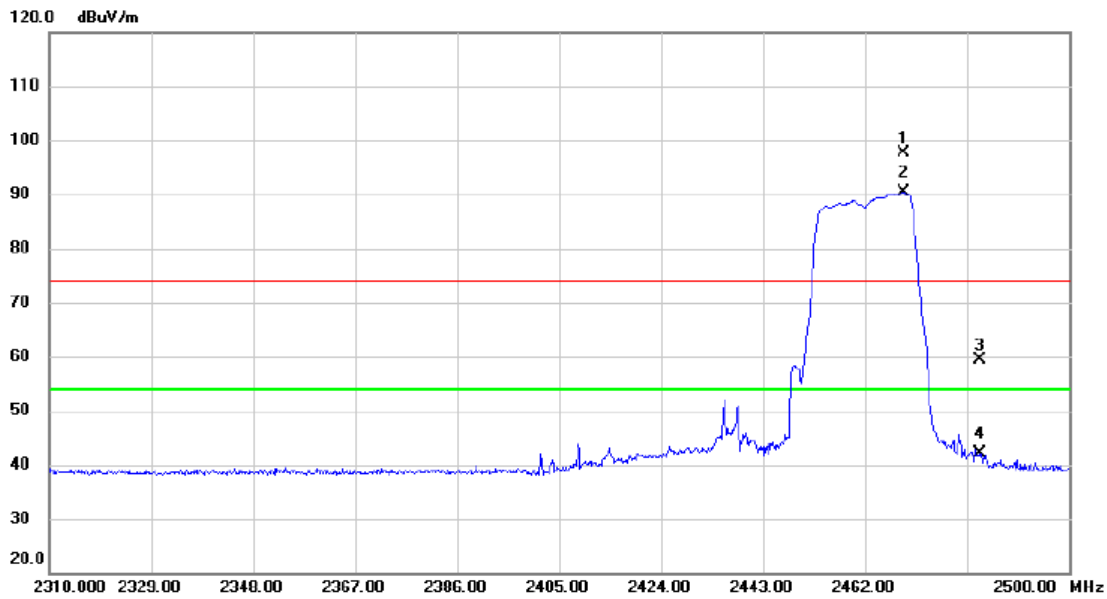
Test Mode	TX N(HT20) Mode 2462 MHz	Polarization	Vertical
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No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4932.1000	59.43	-16.74	42.69	74.00	-31.31	Peak	

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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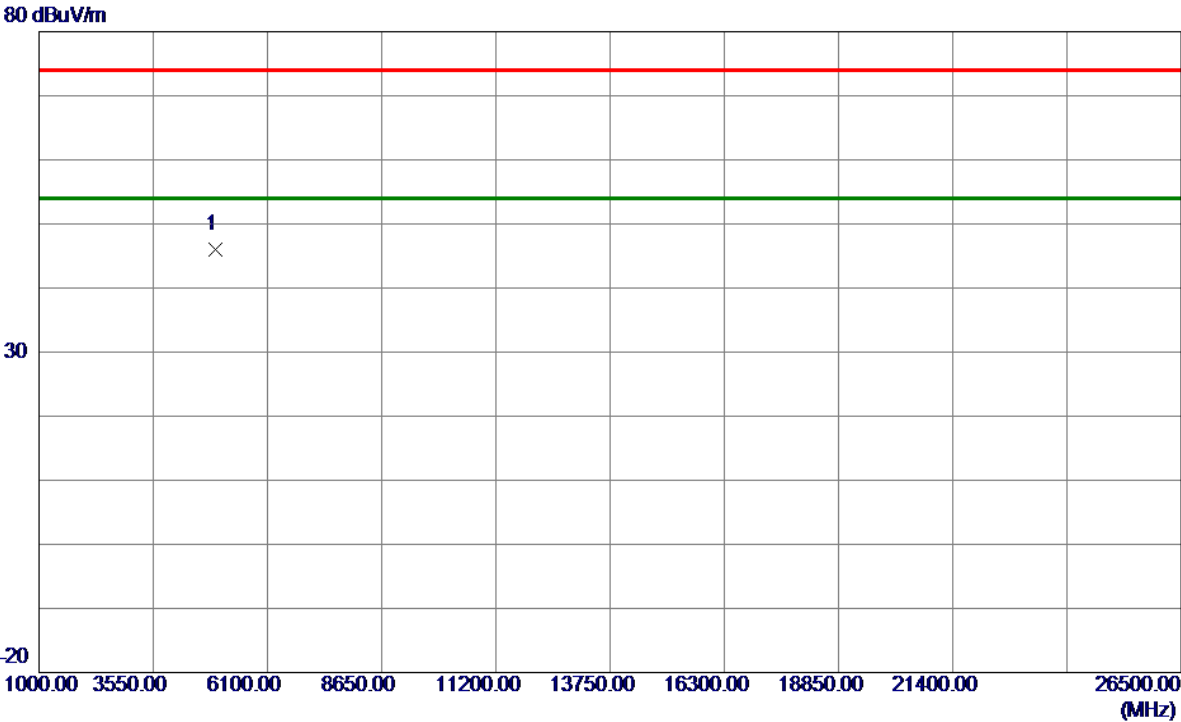


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2469.125	65.98	31.71	97.69	74.00	23.69	peak	NO limit
2	*	2469.125	58.64	31.71	90.35	54.00	36.35	AVG	NO limit
3		2483.500	27.57	31.72	59.29	74.00	-14.71	peak	
4		2483.500	10.31	31.72	42.03	54.00	-11.97	AVG	

REMARKS:

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

Test Mode	TX N(HT20) Mode 2462 MHz	Polarization	Horizontal
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No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4924.4500	62.69	-16.77	45.92	74.00	-28.08	Peak	

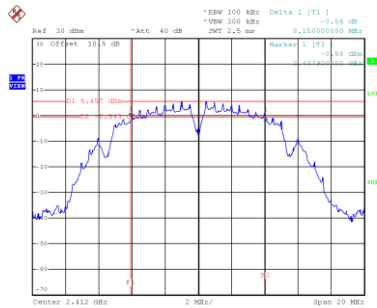
REMARKS:
 (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value - Limit Value.

APPENDIX E - BANDWIDTH

Test Mode	TX B Mode
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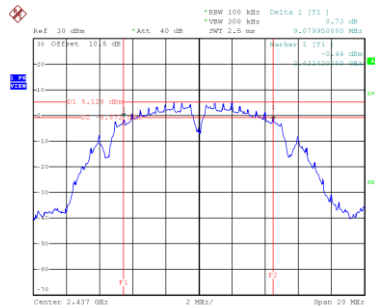
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	8.150	11.600	0.5	Complies
06	2437	9.080	11.680	0.5	Complies
11	2462	9.060	11.600	0.5	Complies

CH01



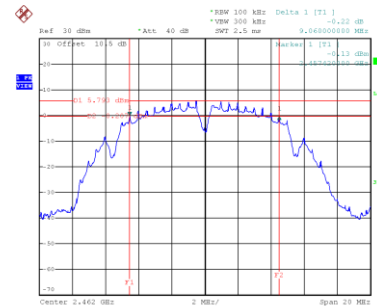
Date: 6.DEC.2021 14:36:56

CH06
6 dB Bandwidth



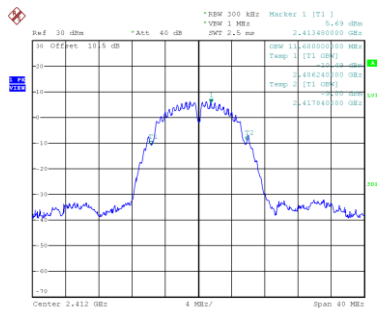
Date: 6.DEC.2021 14:39:30

CH11

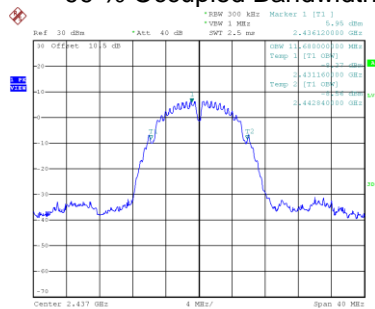


Date: 6.DEC.2021 14:42:23

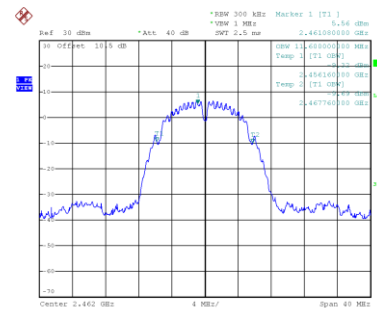
99 % Occupied Bandwidth



Date: 6.DEC.2021 14:37:03



Date: 6.DEC.2021 14:39:37

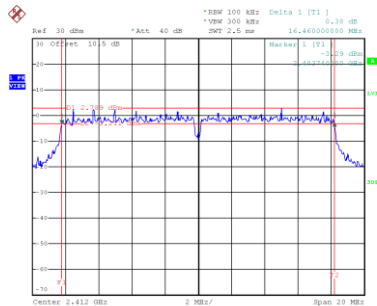


Date: 6.DEC.2021 14:42:30

Test Mode	TX G Mode
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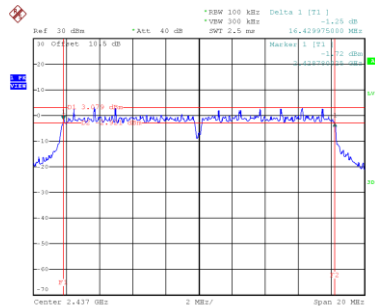
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	16.460	17.200	0.5	Complies
06	2437	16.430	17.280	0.5	Complies
11	2462	16.430	17.200	0.5	Complies

CH01



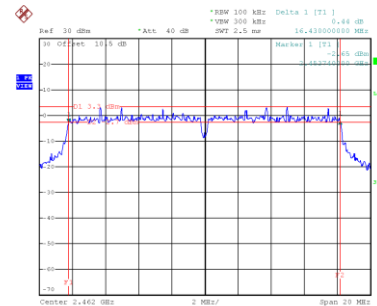
Date: 6.DEC.2021 14:46:26

CH06
6 dB Bandwidth



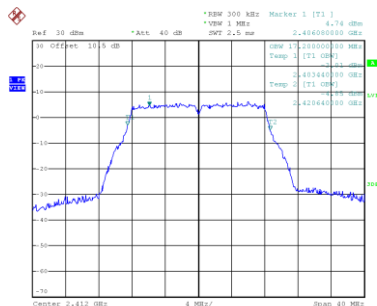
Date: 6.DEC.2021 14:50:47

CH11

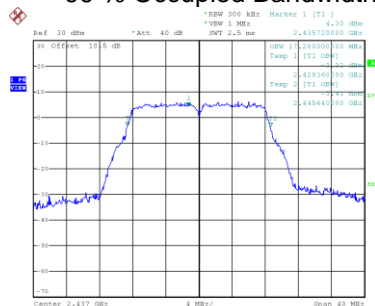


Date: 6.DEC.2021 15:04:43

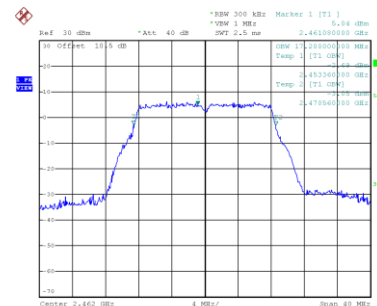
99 % Occupied Bandwidth



Date: 6.DEC.2021 14:46:33



Date: 6.DEC.2021 14:50:54

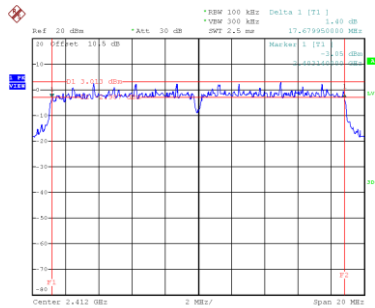


Date: 6.DEC.2021 15:04:51

Test Mode	TX N(HT20) Mode
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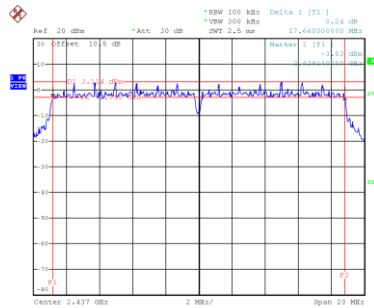
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	17.680	18.240	0.5	Complies
06	2437	17.660	18.400	0.5	Complies
11	2462	17.630	18.320	0.5	Complies

CH01



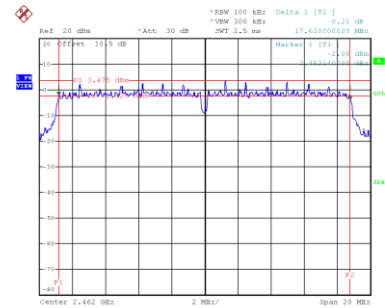
Date: 6.DEC.2021 16:10:39

CH06
6 dB Bandwidth



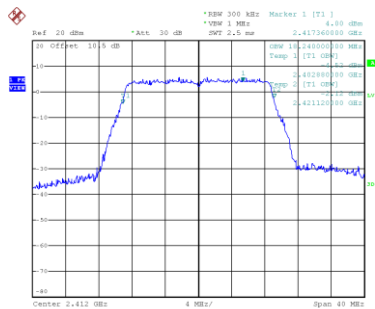
Date: 6.DEC.2021 16:12:13

CH11

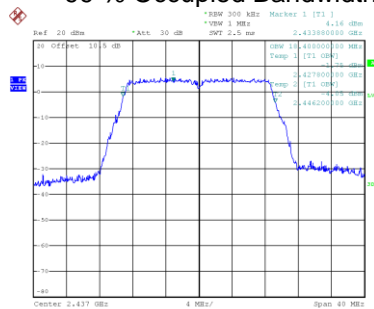


Date: 6.DEC.2021 16:19:11

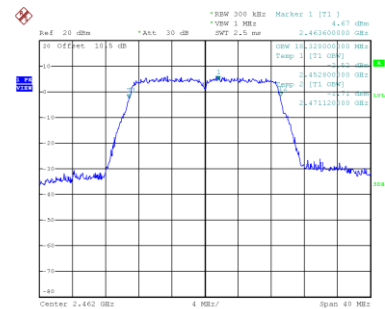
99 % Occupied Bandwidth



Date: 6.DEC.2021 16:10:46



Date: 6.DEC.2021 16:12:20



Date: 6.DEC.2021 16:19:24

APPENDIX F - MAXIMUM OUTPUT POWER

Test Mode	TX B Mode_Ant. 1
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Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	18.77	30.00	1.0000	Complies
06	2437	18.89	30.00	1.0000	Complies
11	2462	18.79	30.00	1.0000	Complies

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

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	19.72	30.00	1.0000	Complies
06	2437	19.87	30.00	1.0000	Complies
11	2462	19.82	30.00	1.0000	Complies

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

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	18.27	30.00	1.0000	Complies
06	2437	19.42	30.00	1.0000	Complies
11	2462	19.55	30.00	1.0000	Complies

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

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	18.64	30.00	1.0000	Complies
06	2437	20.17	30.00	1.0000	Complies
11	2462	20.16	30.00	1.0000	Complies

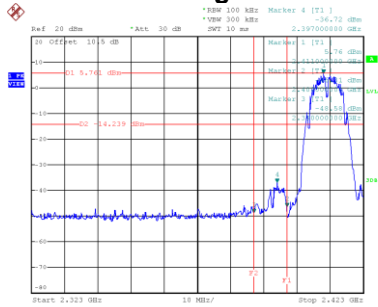
Test Mode	TX N(HT20) Mode_Total
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Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	21.47	30.00	1.0000	Complies
06	2437	22.82	30.00	1.0000	Complies
11	2462	22.88	30.00	1.0000	Complies

APPENDIX G - CONDUCTED SPURIOUS EMISSIONS

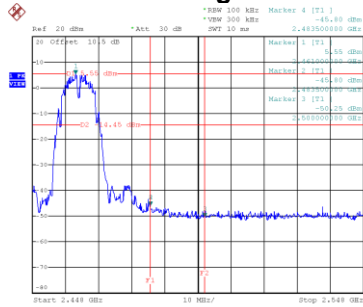
Test Mode TX B Mode_Ant. 1

Bandedge-CH01



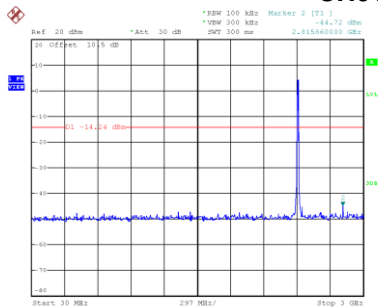
Date: 6.DEC.2021 16:01:15

Bandedge-CH11

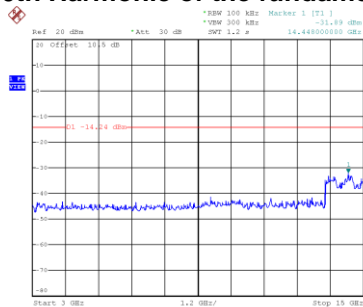


Date: 6.DEC.2021 16:03:17

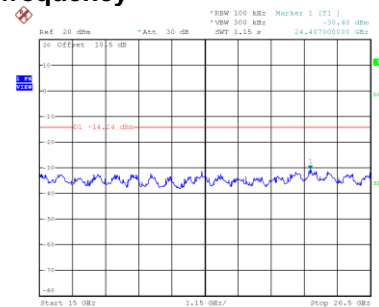
CH01 – 10th Harmonic of the fundamental frequency



Date: 6.DEC.2021 16:01:29

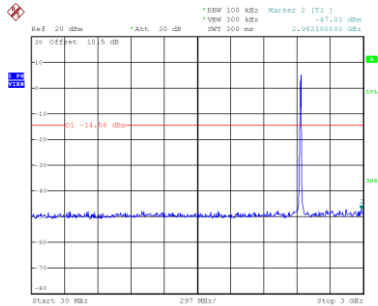


Date: 6.DEC.2021 16:01:36

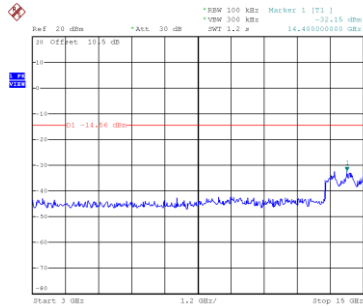


Date: 6.DEC.2021 16:01:43

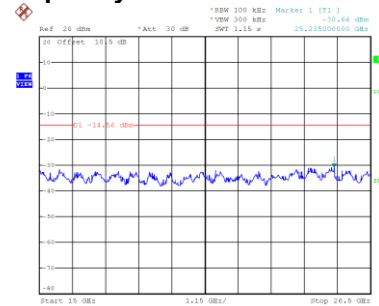
CH06 – 10th Harmonic of the fundamental frequency



Date: 6.DEC.2021 16:03:13

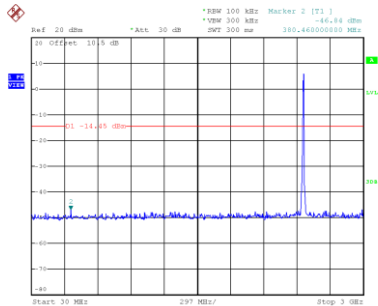


Date: 6.DEC.2021 16:03:20

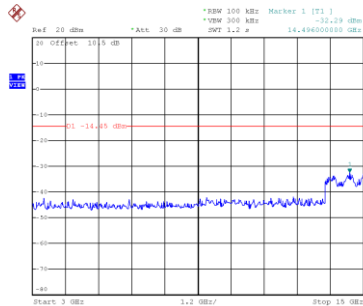


Date: 6.DEC.2021 16:03:28

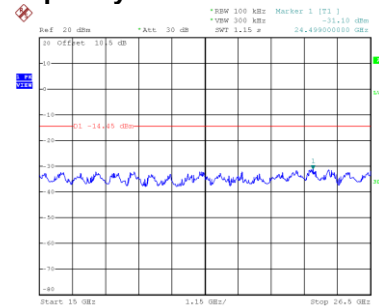
CH11 – 10th Harmonic of the fundamental frequency



Date: 6.DEC.2021 16:04:10



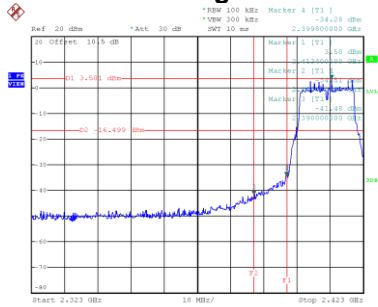
Date: 6.DEC.2021 16:04:18



Date: 6.DEC.2021 16:04:25

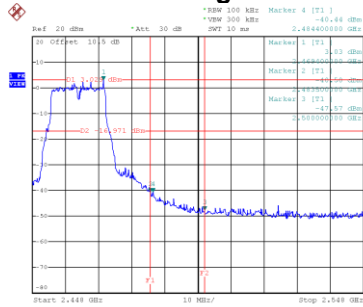
Test Mode TX G Mode_Ant. 1

Bandedge-CH01



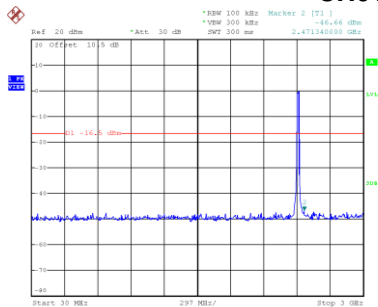
Date: 6.DEC.2021 16:04:58

Bandedge-CH11

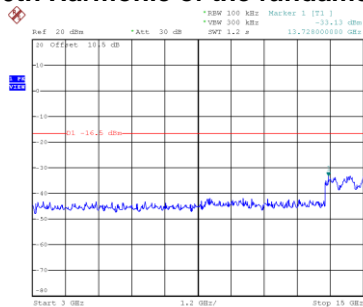


Date: 6.DEC.2021 16:07:08

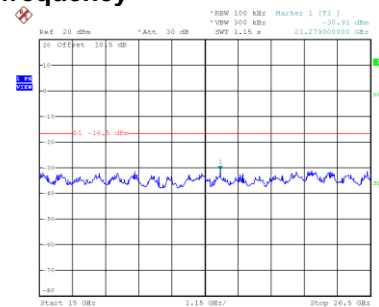
CH01 – 10th Harmonic of the fundamental frequency



Date: 6.DEC.2021 16:05:11

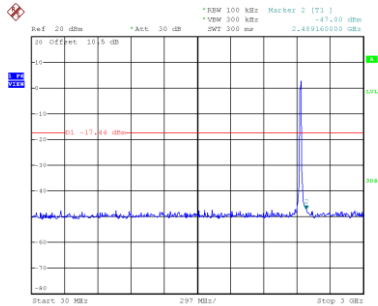


Date: 6.DEC.2021 16:05:18

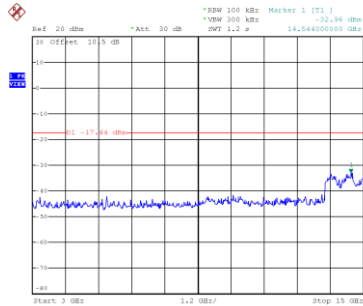


Date: 6.DEC.2021 16:05:26

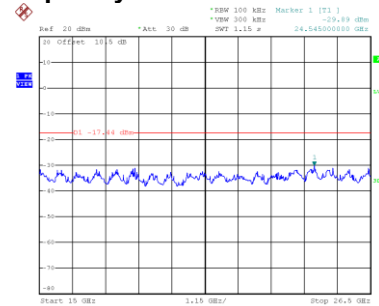
CH06 – 10th Harmonic of the fundamental frequency



Date: 6.DEC.2021 16:06:08

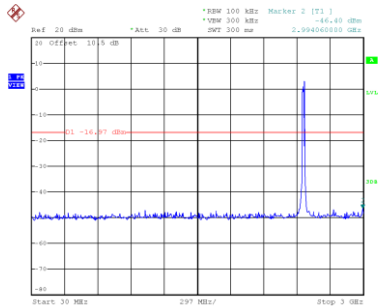


Date: 6.DEC.2021 16:06:15

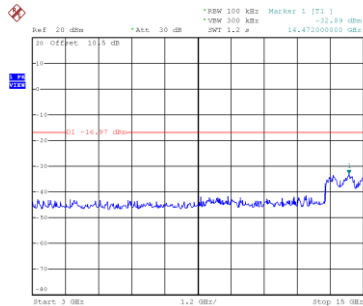


Date: 6.DEC.2021 16:06:22

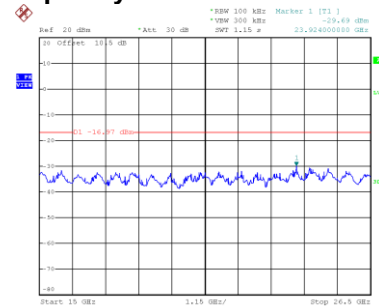
CH11 – 10th Harmonic of the fundamental frequency



Date: 6.DEC.2021 16:07:21



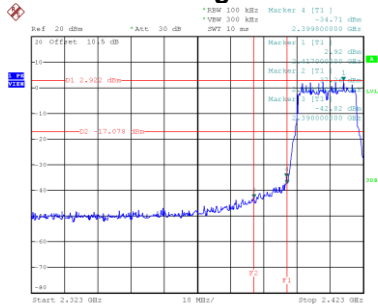
Date: 6.DEC.2021 16:07:28



Date: 6.DEC.2021 16:07:35

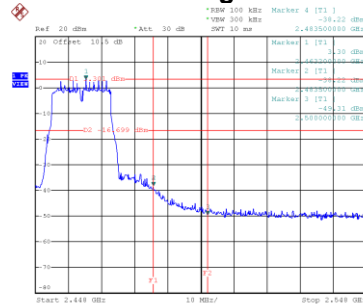
Test Mode TX N(HT20) Mode_Ant. 1

Bandedge-CH01



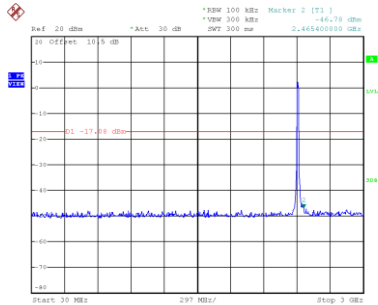
Date: 6.DEC.2021 16:10:53

Bandedge-CH11

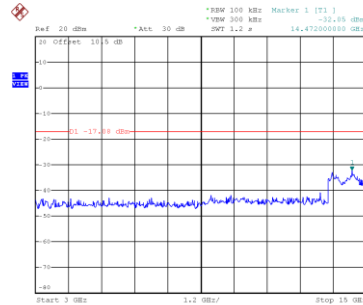


Date: 6.DEC.2021 16:19:31

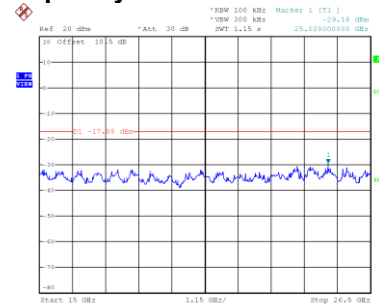
CH01 – 10th Harmonic of the fundamental frequency



Date: 6.DEC.2021 16:11:06

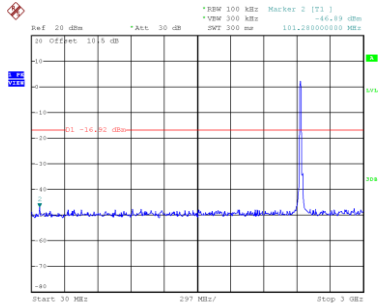


Date: 6.DEC.2021 16:11:13

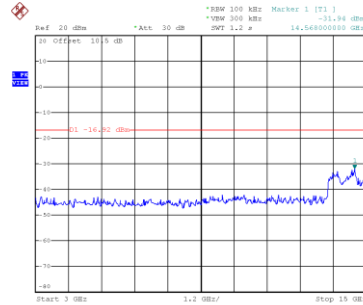


Date: 6.DEC.2021 16:11:20

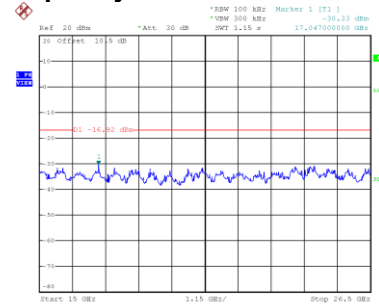
CH06 – 10th Harmonic of the fundamental frequency



Date: 6.DEC.2021 16:12:40

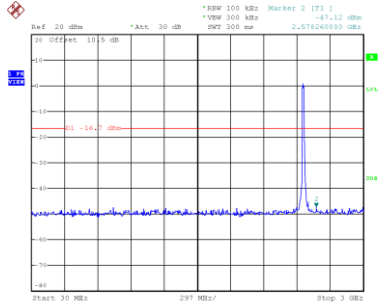


Date: 6.DEC.2021 16:12:48

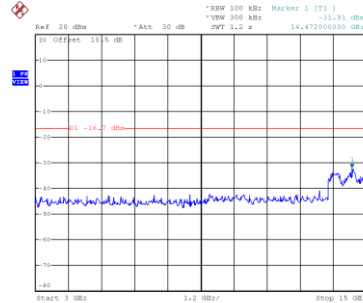


Date: 6.DEC.2021 16:12:55

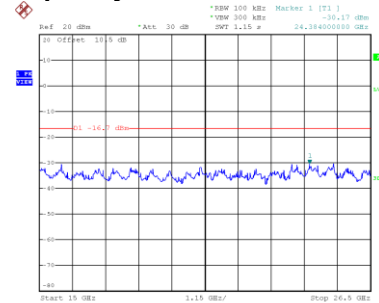
CH11 – 10th Harmonic of the fundamental frequency



Date: 6.DEC.2021 16:19:45



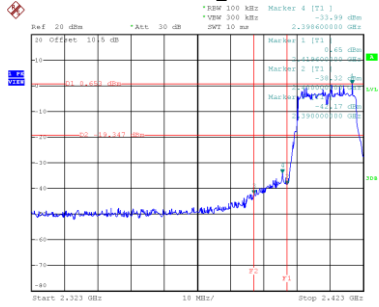
Date: 6.DEC.2021 16:19:52



Date: 6.DEC.2021 16:19:59

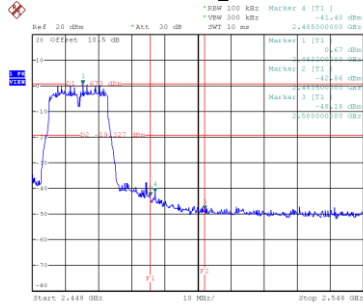
Test Mode TX N(HT20) Mode_Ant. 2

Bandedge-CH01



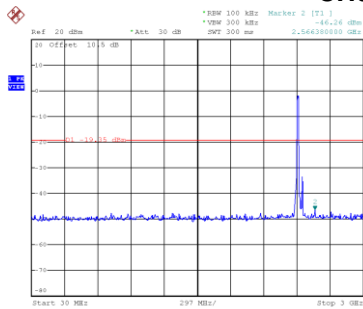
Date: 6.DEC.2021 16:26:05

Bandedge-CH11

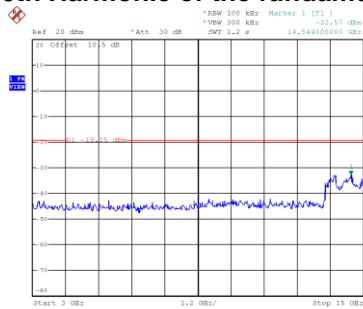


Date: 6.DEC.2021 16:22:06

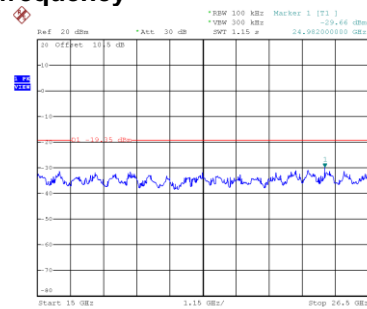
CH01 – 10th Harmonic of the fundamental frequency



Date: 6.DEC.2021 16:26:18

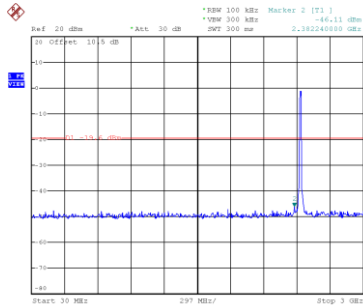


Date: 6.DEC.2021 16:26:25

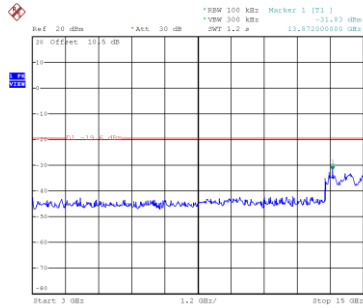


Date: 6.DEC.2021 16:26:32

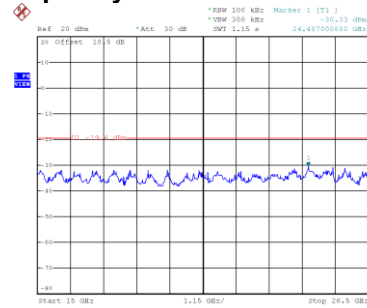
CH06 – 10th Harmonic of the fundamental frequency



Date: 6.DEC.2021 16:24:33

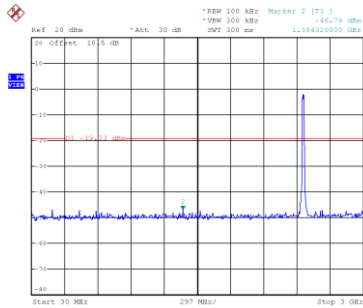


Date: 6.DEC.2021 16:24:41

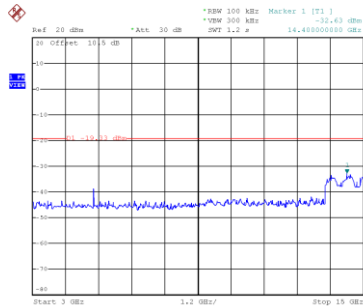


Date: 6.DEC.2021 16:24:48

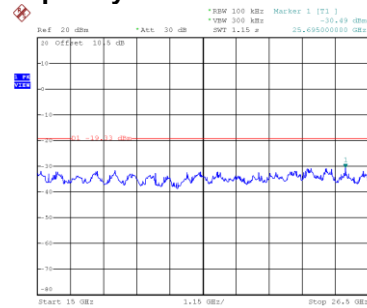
CH11 – 10th Harmonic of the fundamental frequency



Date: 6.DEC.2021 16:22:19



Date: 6.DEC.2021 16:22:26

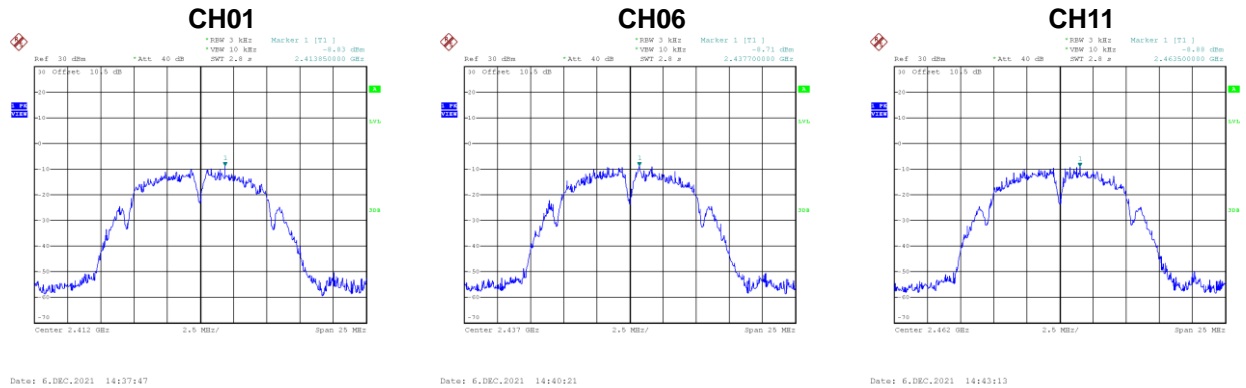


Date: 6.DEC.2021 16:22:34

APPENDIX H - POWER SPECTRAL DENSITY

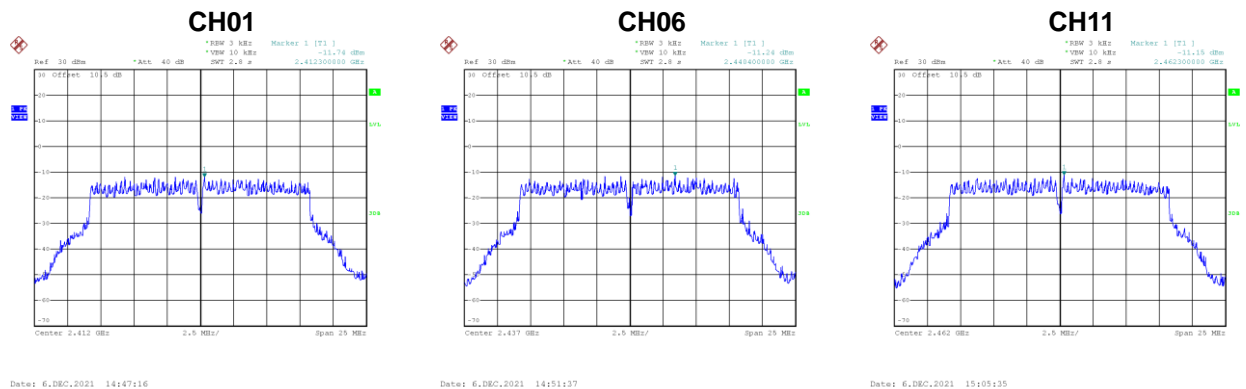
Test Mode	TX B Mode_Ant. 1
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Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
01	2412	-8.83	7.59	Complies
06	2437	-8.71	7.59	Complies
11	2462	-8.88	7.59	Complies



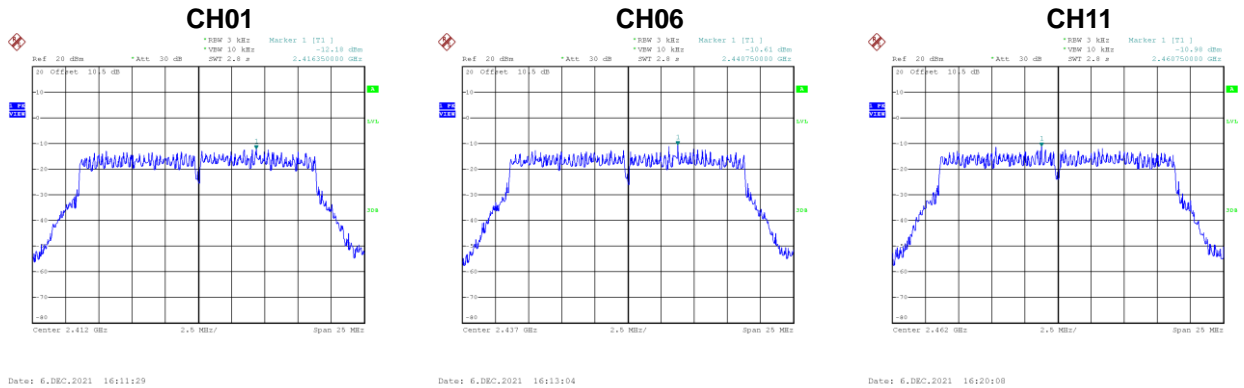
Test Mode	TX G Mode_Ant. 1
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Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
01	2412	-11.74	7.59	Complies
06	2437	-11.24	7.59	Complies
11	2462	-11.15	7.59	Complies



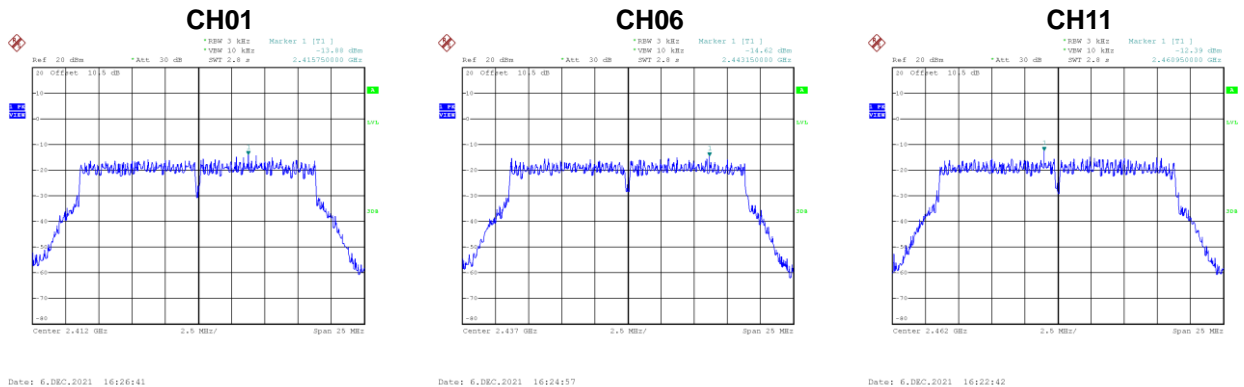
Test Mode	TX N(HT20) Mode_Ant. 1
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Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
01	2412	-12.18	7.59	Complies
06	2437	-10.61	7.59	Complies
11	2462	-10.98	7.59	Complies



Test Mode	TX N(HT20) Mode_Ant. 2
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Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
01	2412	-13.88	7.59	Complies
06	2437	-14.62	7.59	Complies
11	2462	-12.39	7.59	Complies



Test Mode	TX N(HT20) Mode_Total
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Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
01	2412	-9.94	7.59	Complies
06	2437	-9.16	7.59	Complies
11	2462	-8.62	7.59	Complies

End of Test Report