



Solutions



CFR 47 FCC PART 15 SUBPART C ISED RSS-210 ISSUE 11

TEST REPORT

For

Wireless Module

MODEL NUMBER: WXT3BM1613

REPORT NUMBER: 4791682156.1-1-RF-7

ISSUE DATE: March 5, 2025

**FCC ID:2AC23-WXT3B
IC:12290A-WXT3B**

Prepared for

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Prepared by

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Revision History

Rev.	Issue Date	Revisions	Revised By
V0	March 5, 2025	Initial Issue	

Summary of Test Results			
Clause	Test Items	FCC/IC Rules	Test Results
1	20dB Bandwidth	FCC Part 2.1049	Pass
2	99%dB Bandwidth	RSS-Gen Clause 6.7	Pass
3	TX Spurious Emission	CFR 47 FCC §15.249 (a)(d)(e) ISED RSS-210 Annex B B.10 CFR 47 FCC §15.205 and §15.209 RSS-GEN Clause 8.9 RSS-GEN Clause 8.10	Pass
4	AC Power Line Conducted Emission	FCC Part 15.207 RSS-GEN Clause 8.8	Pass
Note 1: This test report is only published to and used by the applicant, and it is not for evidence purpose in China. Note 2: The measurement result for the sample received is <Pass> according to < CFR 47 FCC PART 15 SUBPART C, ISED RSS-210 ISSUE 11 > when <Simple Acceptance> decision rule is applied.			

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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: Hui Zhou Gaoshengda Technology Co.,LTD
Address: No.6 Qiaoguang Road, Chenjiang Street, Zhongkai High-tech Zone, Huizhou City, Guangdong Province, Huizhou, Guangdong, 516227 China

Manufacturer Information

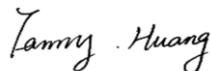
Company Name: Hui Zhou Gaoshengda Technology Co.,LTD
Address: No.6 Qiaoguang Road, Chenjiang Street, Zhongkai High-tech Zone, Huizhou City, Guangdong Province, Huizhou, Guangdong, 516227 China

EUT Information

EUT Name: Wireless Module
Model: WXT3BM1613
Brand: GSD
Sample Received Date: November 13, 2024
Sample Status: Normal
Sample ID: 8187624
Date of Tested: November 13, 2024 to March 5, 2025

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 FCC PART 15 SUBPART C	Pass
ISED RSS-210 ISSUE 11	Pass

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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with KDB 414788 D01 Radiated Test Site v01r01, FCC CFR 47 Part 2, FCC CFR 47 Part 15, ANSI C63.10-2013, ISED RSS-210 ISSUE 11 and ISED RSS-GEN Issue 5.

3. FACILITIES AND ACCREDITATION

Accreditation Certificate	<p>A2LA (Certificate No.: 4102.01) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with A2LA.</p> <p>FCC (FCC Designation No.: CN1187) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. Has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules</p> <p>ISED (Company No.: 21320) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been registered and fully described in a report filed with ISED. The Company Number is 21320 and the test lab Conformity Assessment Body Identifier (CABID) is CN0046.</p>
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Note 1:

All tests measurement facilities use to collect the measurement data are located at Building 10, Innovation Technology Park, No. 1, Li Bin Road, Song Shan Lake Hi-Tech Development Zone Dongguan, 523808, People's Republic of China.

Note 2:

The test anechoic chamber in UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch had been calibrated and compared to the open field sites and the test anechoic chamber is shown to be equivalent to or worst case from the open field site.

Note 3:

For below 30 MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. And these measurements below 30 MHz had been correlated to measurements performed on an OFS.

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations and is traceable to recognized national standards.

4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Test Item	Uncertainty
Conduction emission	3.62dB
Radiation Emission test(include Fundamental emission) (9kHz-30MHz)	2.2dB
Radiation Emission test(include Fundamental emission) (30MHz-1GHz)	4.00dB
Radiation Emission test (1GHz to 26GHz)(include Fundamental emission)	5.78dB (1 GHz-18 GHz) 5.23dB (18 GHz-26 GHz)
Radiated Emission (Included Fundamental Emission) (40 GHz to 110 GHz)	5.385 dB (40 GHz ~ 60 GHz) 5.320 dB (60 GHz ~ 90 GHz) 5.312 dB (90 GHz ~ 110 GHz)
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

EUT Name	Wireless Module
Model	WXT3BM1613

Frequency:	5.8 GHz
Channel Number:	1
Type of Modulation:	FMCW
Normal Test Voltage:	DC 3.3 V

5.2. DESCRIPTION OF AVAILABLE ANTENNAS

Antenna	Frequency (MHz)	Antenna Type	MAX Antenna Gain (dBi)
4 (Main antenna)	5800	PCB antenna (External)	5.5
5(AUX Antenna)	5800	PCB antenna (External)	7

Test Mode	Transmit and Receive Mode	Description
Low Power Wide band Radio in 5GHz (5.8G)	<input checked="" type="checkbox"/> 1TX, 1RX	ANT 4,5 can be used as transmitting antenna, ANT 6 can be used as receiving antenna.

Note: The EUT has 6 separate antennas: antenna 1, antenna 2, antenna 3, antenna 4, antenna 5 and antenna 6.

The Radio Technology of these antennas are as follows:

ANT.	Support Radio Technology
1 and 2	BLE, BT, ZigBee
3	WIFI
4	Low Power Wide band Radio in 5GHz (5.8G) (Main TX Antenna)
5	Low Power Wide band Radio in 5GHz (5.8G) (Aux TX Antenna)
6	Low Power Wide band Radio in 5GHz (5.8G) (RX Antenna)

5.3. SUPPORT UNITS FOR SYSTEM TEST

SUPPORT EQUIPMENT

Item	Equipment	Brand Name	Model Name	Remark
1	PC	Lenovo	E14	/
2	AC Adaptor	Lenovo	ADLX65YCC3D	Input: AC 100-240V, 1.8A, 50-60Hz Output: DC 20V, 3.25A, 65.0W Max

I/O CABLES

Cable No	Port	Connector Type	Cable Type	Cable Length(m)	Remarks
1	USB	/	/	1.0	/

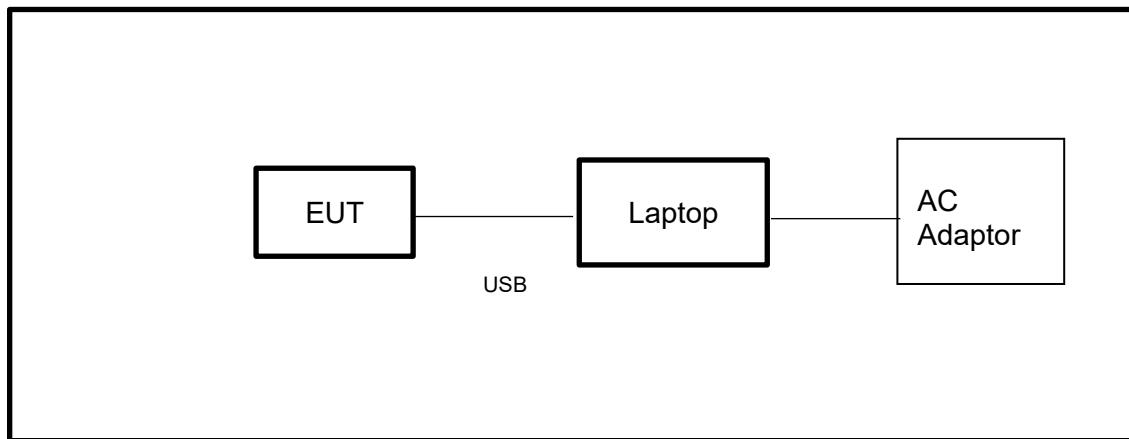
ACCESSORIES

Item	Accessory	Brand Name	Model Name	Description
/	/	/	/	/

TEST SETUP

The EUT can work in engineering mode with a software through a Laptop.

SETUP DIAGRAM FOR TESTS



Note: AC Adaptor only use for AC POWER LINE CONDUCTED EMISSION test

6. MEASURING EQUIPMENT AND SOFTWARE USED

Conducted Emissions					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
EMI Test Receiver	R&S	ESR3	101961	Sep.28, 2024	Sep.27, 2025
Two-Line V-Network	R&S	ENV216	101983	Sep.28, 2024	Sep.27, 2025
Artificial Mains Networks	Schwarzbeck	NSLK 8126	8126465	Sep.28, 2024	Sep.27, 2025
Software					
Description		Manufacturer		Name	Version
Test Software for Conducted Emissions		Farad		EZ-EMC	Ver. UL-3A1

Radiated Emissions					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
MXE EMI Receiver	KESIGHT	N9038A	MY56400036	Sep.28, 2024	Sep.27, 2025
Hybrid Log Periodic Antenna	TDK	HLP-3003C	130960	June 28, 2024	June.27 2027
Preamplifier	HP	8447D	2944A09099	Sep.28, 2024	Sep.27, 2025
EMI Measurement Receiver	R&S	ESR26	101377	Sep.28, 2024	Sep.27, 2025
Horn Antenna	TDK	HRN-0118	130939	Apr.29, 2022	Apr.28, 2025
Preamplifier	TDK	PA-02-0118	TRS-305-00067	Sep.28, 2024	Sep.27, 2025
Horn Antenna	Schwarzbeck	BBHA9170	697	Jun 30, 2024	Jun 29, 2027
Preamplifier	TDK	PA-02-2	TRS-307-00003	Sep.28, 2024	Sep.27, 2025
Preamplifier	TDK	PA-02-3	TRS-308-00002	Sep.28, 2024	Sep.27, 2025
Loop antenna	Schwarzbeck	1519B	00008	Dec.09, 2024	Dec.08, 2027
Highpass Filter	Wainwright	WHKX10-5850-6500-1800-40SS	4	Sep.28, 2024	Sep.27, 2025
Band Reject Filter	Wainwright	WRCJV12-5695-5725-5850-5880-40SS	4	Sep.28, 2024	Sep.27, 2025
Software					
Description		Manufacturer		Name	Version
Test Software for Radiated Emissions		Farad		EZ-EMC	Ver. UL-3A1

Other Instrument					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
Temperature humidity probe	OMEGA	ITHX-SD-5	18470007	Oct.8, 2024	Oct.7, 2025
Barometer	Yiyi	Baro	N/A	Oct.10, 2024	Oct.9, 2025
Attenuator	Agilent	8495B	2814a12853	Sep.28, 2024	Sep.27, 2025

7. TEST RESULTS

7.1. ON TIME AND DUTY CYCLE

LIMITS

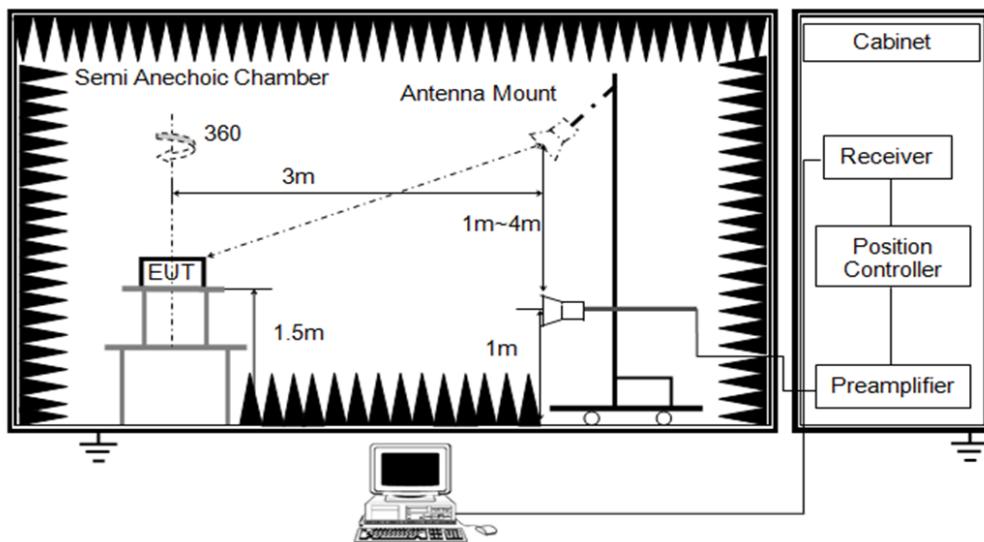
None; for reporting purposes only.

TEST PROCEDURE

Refer to ANSI C63.10-2013 Zero – Span Spectrum Analyzer method.

TEST SETUP

Above 1 GHz



- Set RBW of spectrum analyzer to 8 MHz and VBW to 8 MHz.
- Use a video trigger with the trigger level set to enable triggering only on full pulses.
- Sweep Time is at least a 100 ms.
- Set the center frequency on any frequency would be measure and set the frequency span to zero span.
- Measure the maximum time duration of one single pulse.

TEST ENVIRONMENT

Temperature	23.6°C	Relative Humidity	53%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.3 V

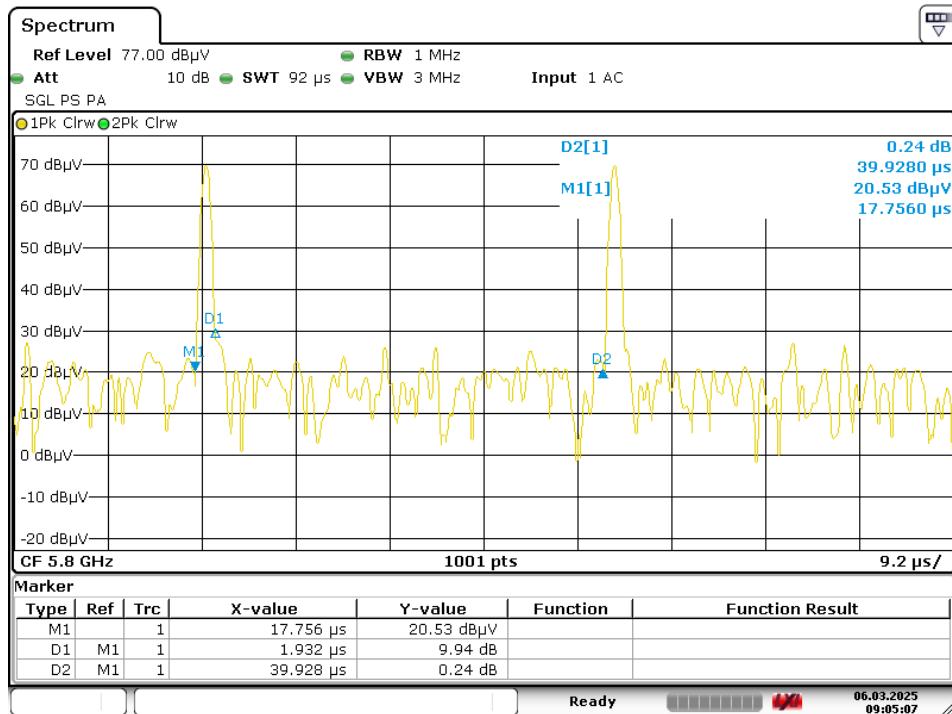
RESULTS

ANT	Ton times (ms)	Period (ms)	Duty Cycle (Linear)	Duty Cycle Correction Factor
4	0.001932	0.039928	0.0484	-26.30
5	0.001998	0.040034	0.0499	-26.04

Note: Duty Cycle Correction Factor=20log(x).

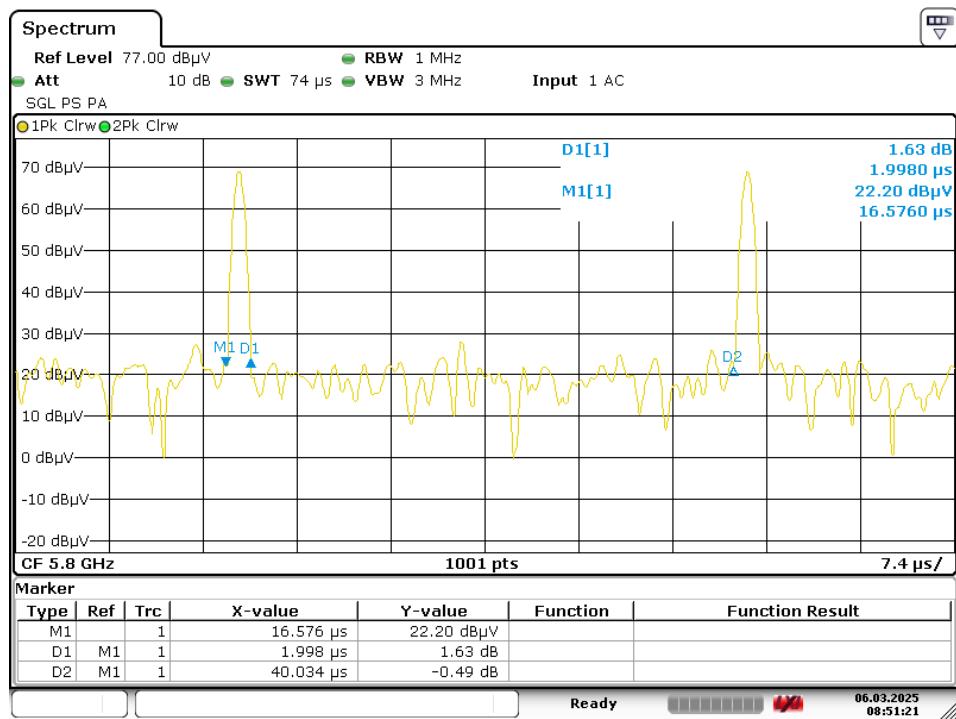
Where: x is Duty Cycle

ANT4



Date: 6 MAR 2025 09:05:06

ANT5



Date: 6 MAR 2025 08:51:21

7.2. 20 DB BANDWIDTH AND 99 % OCCUPIED BANDWIDTH

LIMITS

CFR 47 FCC Part15 (15.249) Subpart C RSS-Gen Issue 5			
Section	Test Item	Limit	Frequency Range (GHz)
CFR 47 FCC 15.249(d)	20dB Bandwidth	for reporting purposes only	24~24.25 GHz
ISED RSS-Gen Clause 6.7 Issue 5	99% Bandwidth	N/A	24~24.25 GHz

TEST PROCEDURE

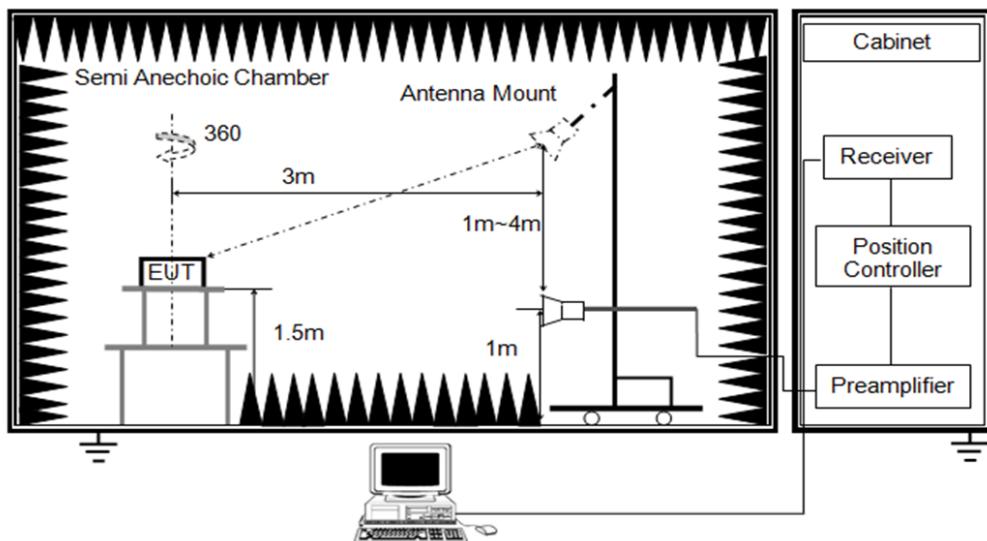
Spectrum analyzer and use the following settings:

Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	1 % to 5 % of the occupied bandwidth
VBW	approximately 3×RBW
Trace	Max hold
Sweep	Auto couple

Allow the trace to stabilize and measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 20 dB / 99 % relative to the maximum level measured in the fundamental emission.

TEST SETUP

Above 1 GHz



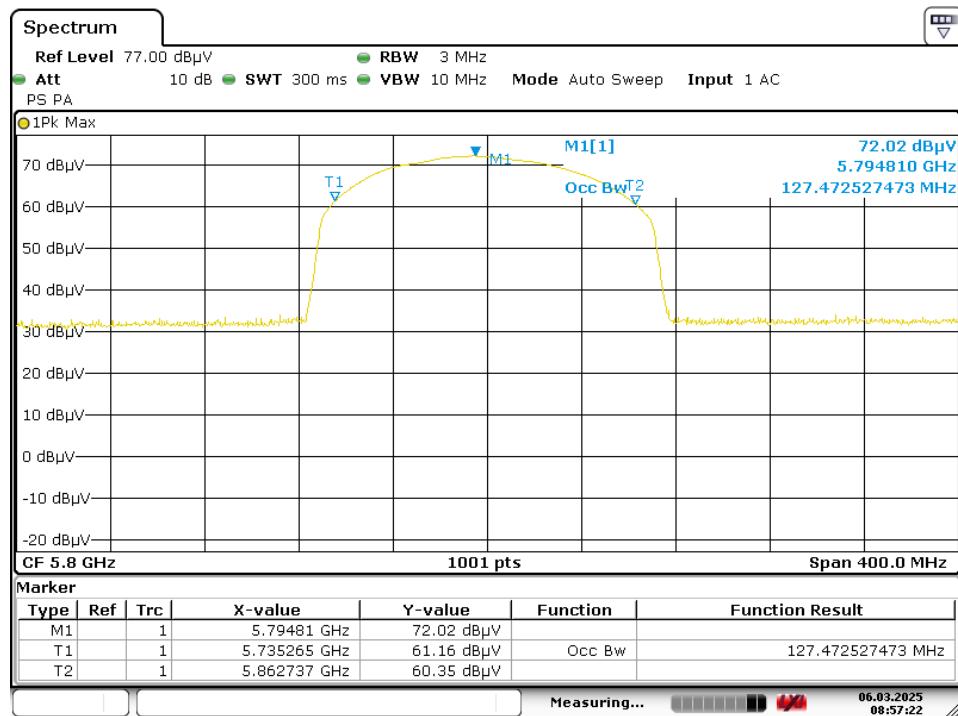
TEST ENVIRONMENT

Temperature	23.6°C	Relative Humidity	53%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.3 V

RESULTS

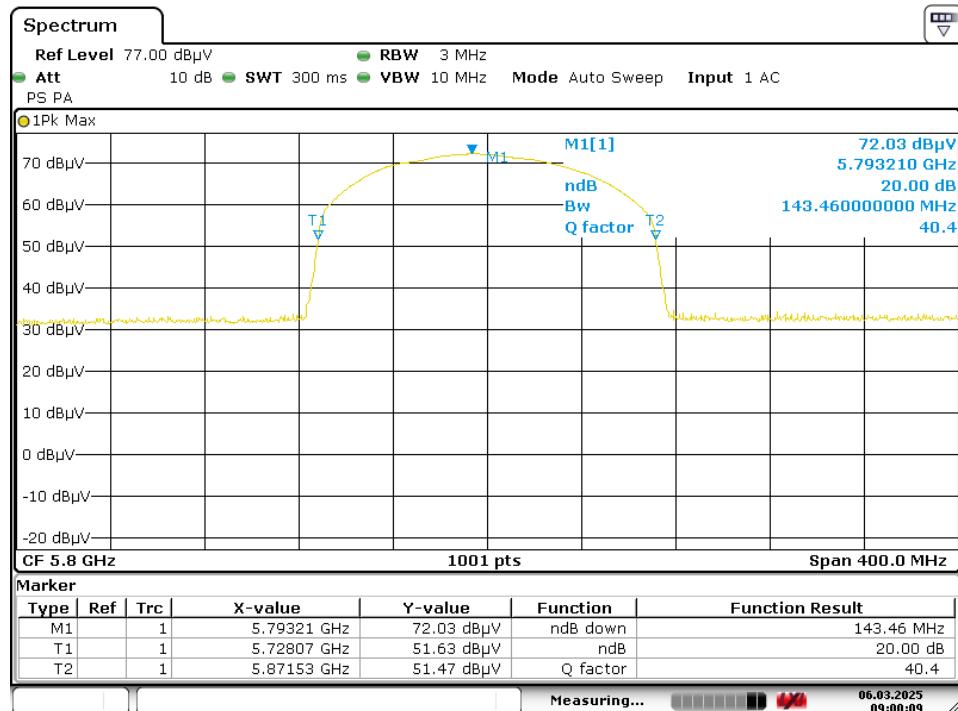
Channel	ANT	20 dB bandwidth (MHz)	99 % bandwidth (MHz)	Result
1	4	143.46	127.47	PASS
1	5	143.86	129.47	PASS

99% BANDWIDTH CH1 ANT4



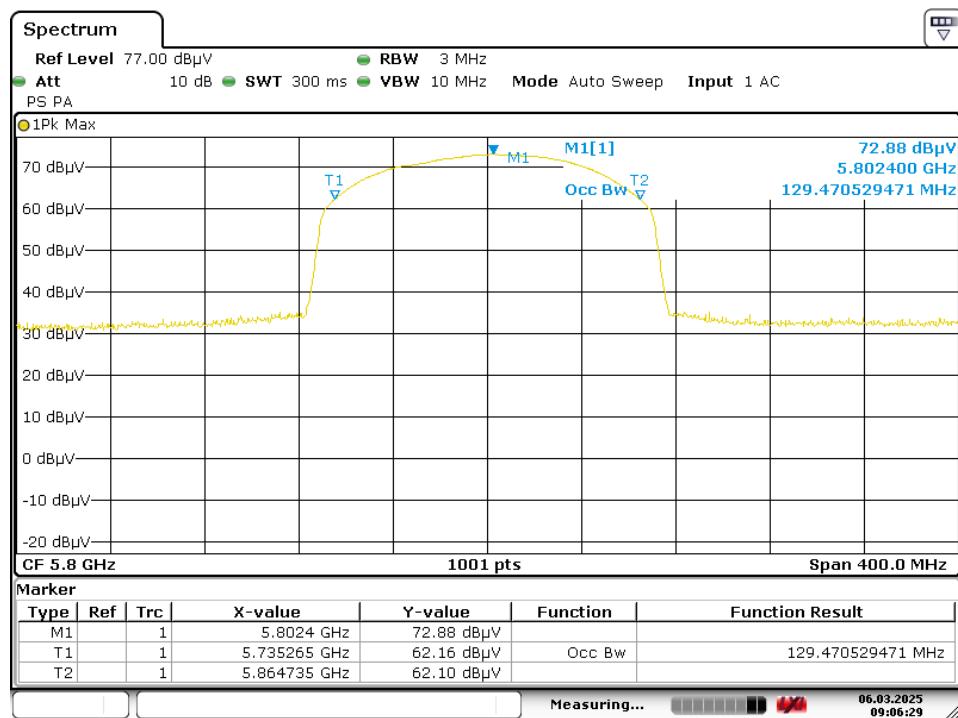
Date: 6 MAR 2025 08:57:23

20dB BANDWIDTH CH1 ANT4



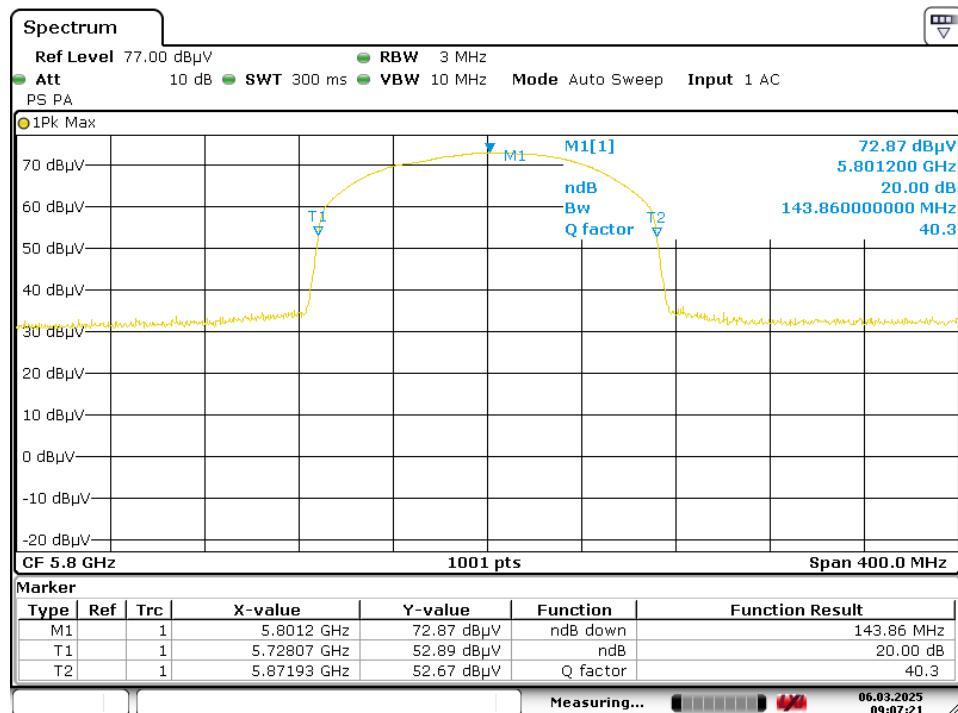
Date: 6 MAR 2025 09:00:10

99% BANDWIDTH CH1 ANT5



Date: 6 MAR 2025 09:06:29

20dB BANDWIDTH CH1 ANT5



Date: 6 MAR 2025 09:07:22

7.3. RADIATED TEST RESULTS

LIMITS

Please refer to CFR 47 FCC §15.205 and §15.209.

CFR 47 FCC §15.249 (a)(d)(c)(e) and ISED RSS-210 Issue 11 Annex B B.10

Please refer to ISED RSS-GEN Clause 8.9 and Clause 8.10.

Emissions radiated outside of the specified frequency bands above 30 MHz			
Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m	
		Quasi-Peak	
30 - 88	100	40	
88 - 216	150	43.5	
216 - 960	200	46	
Above 960	500	54	
Above 1000	500	Peak	Average
		74	54

FCC field strength of emissions from intentional radiators operated within these frequency bands			
Frequency (MHz)	Field strength of Fundamental	Field strength of Harmonics	Distance (m)
902 - 928	50 mV/m (94 dBuV/m)	500 uV/m (54 dBuV/m)	3
2400 – 2483.5	50 mV/m (94 dBuV/m)	500 uV/m (54 dBuV/m)	3
5725 – 5875	50 mV/m (94 dBuV/m)	500 uV/m (54 dBuV/m)	3

The field strength of fundamental and harmonic emissions measured at 3 m shall not exceed the limits in table B2 for ISED.

FCC Emissions radiated outside of the specified frequency bands below 30 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

ISED General field strength limits at frequencies below 30 MHz
Table 6 – General field strength limits at frequencies below 30 MHz

Frequency	Magnetic field strength (H-Field) (μ A/m)	Measurement distance (m)
9 - 490 kHz ^{Note 1}	6.37/F (F in kHz)	300
490 - 1705 kHz	63.7/F (F in kHz)	30
1.705 - 30 MHz	0.08	30

Note 1: The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

ISED Restricted bands please refer to ISED RSS-GEN Clause 8.10

Table 7 – Restricted frequency bands^{Note 1}

MHz	MHz	GHz
0.090 - 0.110	149.9 - 150.05	9.0 - 9.2
0.495 - 0.505	156.52475 - 156.52525	9.3 - 9.5
2.1735 - 2.1905	156.7 - 156.9	10.6 - 12.7
3.020 - 3.026	162.0125 - 167.17	13.25 - 13.4
4.125 - 4.128	167.72 - 173.2	14.47 - 14.5
4.17725 - 4.17775	240 - 285	15.35 - 16.2
4.20725 - 4.20775	322 - 335.4	17.7 - 21.4
5.677 - 5.683	399.9 - 410	22.01 - 23.12
6.215 - 6.218	608 - 614	23.6 - 24.0
6.26775 - 6.26825	960 - 1427	31.2 - 31.8
6.31175 - 6.31225	1435 - 1626.5	36.43 - 36.5
8.291 - 8.294	1645.5 - 1646.5	Above 38.6
8.362 - 8.366	1660 - 1710	
8.37625 - 8.38675	1718.8 - 1722.2	
8.41425 - 8.41475	2200 - 2300	
12.29 - 12.293	2310 - 2390	
12.51975 - 12.52025	2483.5 - 2500	
12.57675 - 12.57725	2655 - 2900	
13.38 - 13.41	3260 - 3267	
16.42 - 16.423	3332 - 3339	
16.80475 - 16.80525	3345.8 - 3358	
16.80425 - 16.80475	3500 - 4400	
25.5 - 25.67	4500 - 5150	
37.5 - 38.25	5350 - 5480	
73 - 74.6	7250 - 7750	
74.8 - 75.2	8025 - 8500	
108 - 138		

Note 1: Certain frequency bands listed in table 7 and in bands above 38.6 GHz are designated for licence-exempt applications. These frequency bands and the requirements that apply to related devices are set out in the 200 and 300 series of RSSs.

FCC Restricted bands of operation refer to FCC §15.205 (a):

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			

Note: ¹Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

²Above 38.6c

TEST PROCEDURE

Below 30 MHz

The setting of the spectrum analyzer

RBW	200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz)
VBW	200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz)
Sweep	Auto

1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.4.
2. The EUT was arranged to its worst case and then turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both Horizontal, Face-on and Face-off polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 80 cm above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a 1 m height antenna tower.
5. The radiated emission limits are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz Radiated emission limits in these three bands are based on measurements employing an average detector.
6. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak and average detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak and average detector and reported.

7. Although these tests were performed other than open field site, adequate comparison measurements were confirmed against 30m open field site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field site based on KDB 414788.

8. The limits in CFR 47, Part 15, Subpart C, paragraph 15.209 (a), are identical to those in RSS-GEN Section 8.9, Table 6, since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as reported in the table) using the free space impedance of 377Ω . For example, the measurement frequency X kHz resulted in a level of Y dB_{UV}/m, which is equivalent to $Y-51.5 = Z$ dB_{UA}/m, which has the same margin, W dB, to the corresponding RSS-GEN Table 6 limit as it has to be 15.209(a) limit.

Below 1 GHz and above 30 MHz

The setting of the spectrum analyzer

RBW	120 kHz
VBW	300 kHz
Sweep	Auto
Detector	Peak/QP
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.5.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 80 cm above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

Above 1 GHz

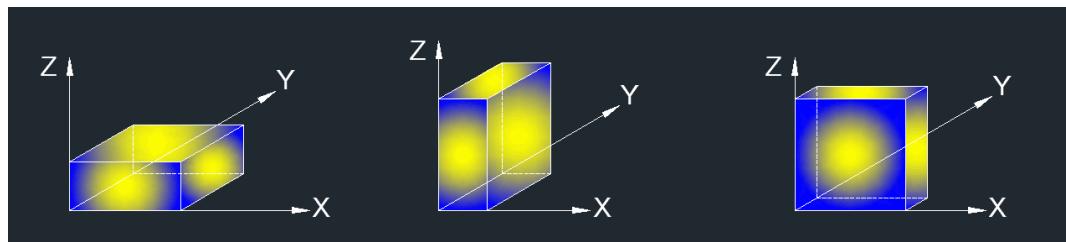
The setting of the spectrum analyzer

RBW	1 MHz
VBW	PEAK: 3 MHz AVG: see note 6
Sweep	Auto
Detector	Peak
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.6.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 1.5 m above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. For measurement above 1 GHz, the emission measurement will be measured by the peak detector. This peak level, once corrected, must comply with the limit specified in Section 15.209.
6. For average value=peak average + Duty Correction Factor

For the Duty Cycle and Correction Factor please refer to clause 7.1.ON TIME AND DUTY CYCLE.

X axis, Y axis, Z axis positions:



Note 1: For all radiated test, EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report.

For Radiate Spurious emission (9 kHz ~ 30 MHz):

Note:

1. Measurement = Reading Level + Correct Factor.
2. If the peak values are less than the QP limit, the QP result is deemed to comply with QP limit.
3. All 3 polarizations (Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.
4. All modes have been tested, but only the worst data was recorded in the report.
5. $\text{dBuA/m} = \text{dBuV/m} - 20\log_{10}[120\pi] = \text{dBuV/m} - 51.5$

For Radiate Spurious Emission (30 MHz ~ 1 GHz):

Note:

1. Result Level = Read Level + Correct Factor.
2. If the peak values are less than the QP limit, the QP result is deemed to comply with QP limit.
3. All modes have been tested, but only the worst data was recorded in the report.

For Radiate Spurious Emission (1 GHz ~ 3 GHz):

1. Measurement = Reading Level + Correct Factor.
2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
3. Peak: Peak detector.
4. AVG: $\text{VBW} = 1/\text{Ton}$, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. All modes have been tested, but only the worst data was recorded in the report.

For Radiate Spurious Emission (3 GHz ~ 18 GHz):

Note:

1. Peak Result = Reading Level + Correct Factor.
2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
3. Peak: Peak detector.
4. AVG Result=Peak Result + Duty Cycle Correction Factor.
5. For the transmitting duration, please refer to clause 7.1.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. All modes have been tested, but only the worst data was recorded in the report.

For Radiate Spurious emission (18 GHz ~ 26 GHz):

Note:

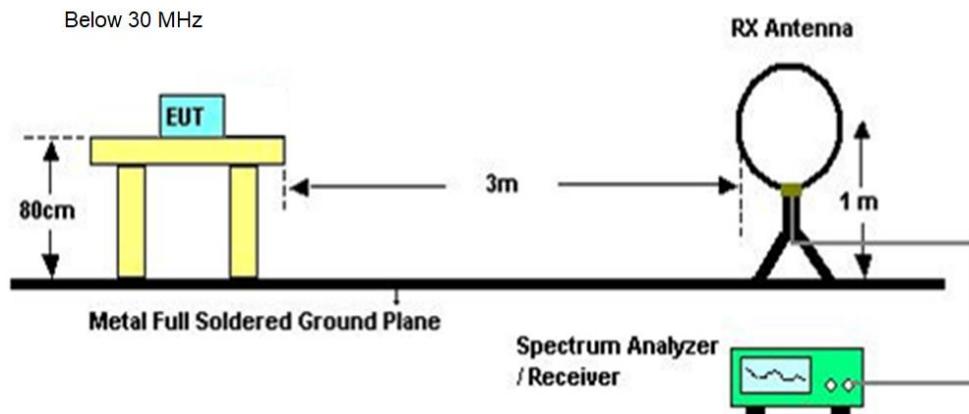
1. Measurement = Reading Level + Correct Factor.
2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
3. Peak: Peak detector.
4. AVG Result=Peak Result + Duty Cycle Correction Factor.
5. All modes have been tested, but only the worst data was recorded in the report.

For Radiate Spurious emission (26 GHz ~ 40 GHz):

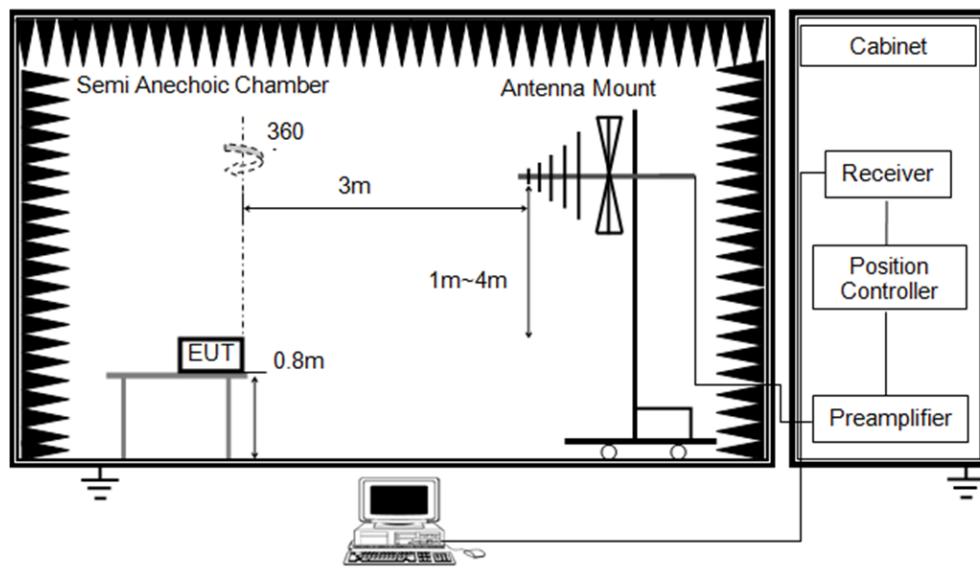
Note:

1. Measurement = Reading Level + Correct Factor.
2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
3. Peak: Peak detector.
4. AVG Result=Peak Result + Duty Cycle Correction Factor.
5. All modes have been tested, but only the worst data was recorded in the report.

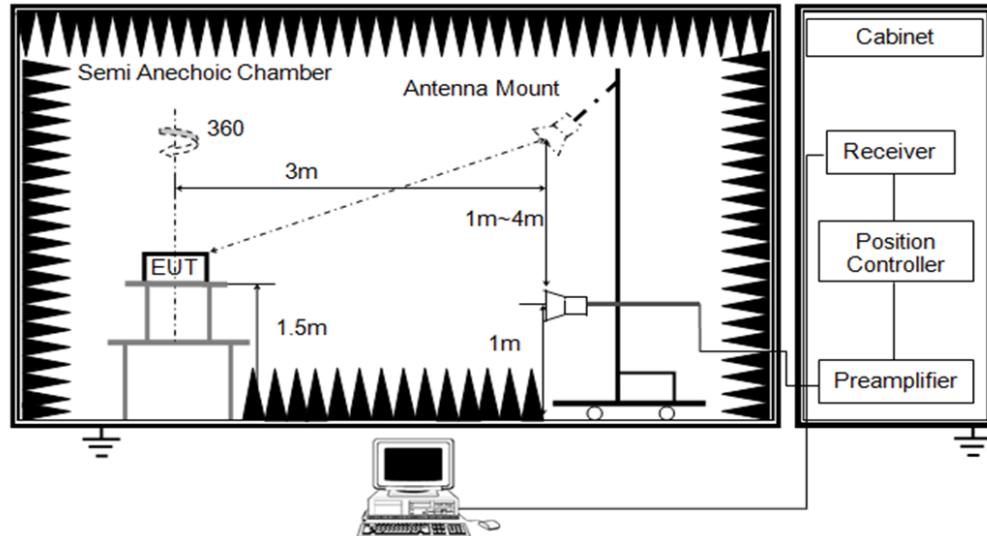
TEST SETUP



Below 1 GHz and above 30 MHz



Above 1 GHz



TEST ENVIRONMENT

Temperature	24.4 °C	Relative Humidity	52%
Atmosphere Pressure	101 kPa	Test Voltage	DC 3.3 V

TEST RESULTS

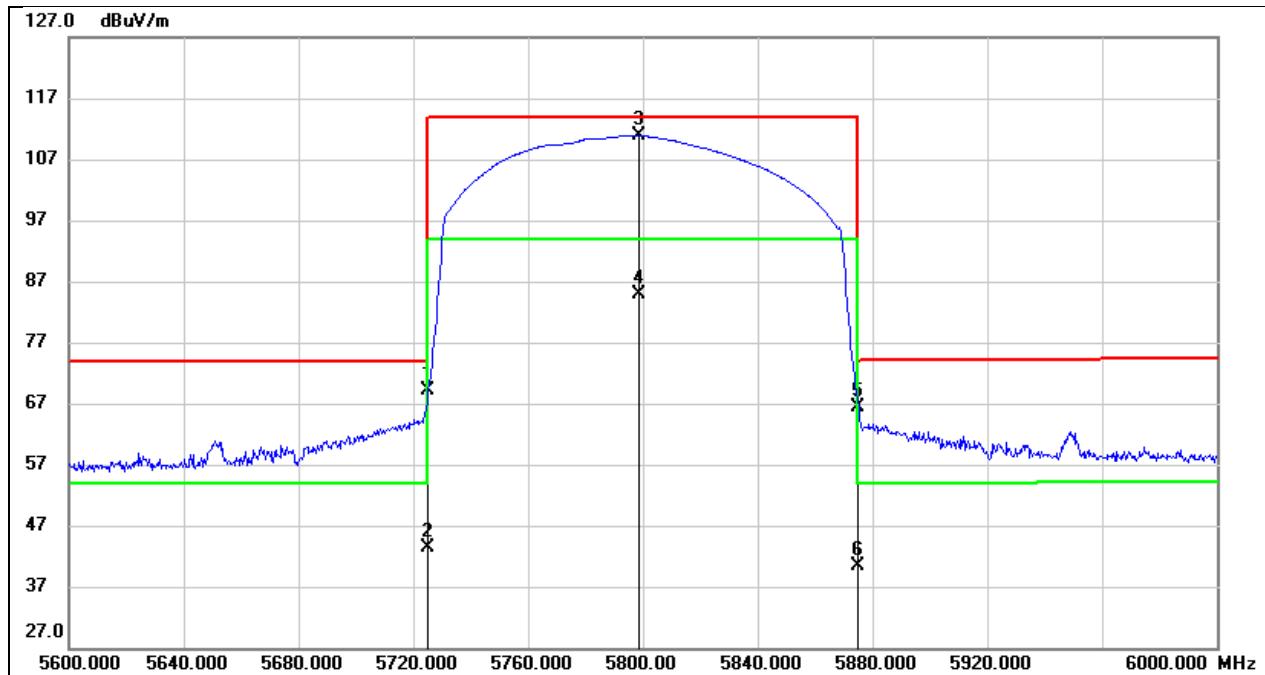
7.3.1. FIELD STRENGTH OF INTENTIONAL EMISSIONS

Frequency	ANT	Peak Result	AVG Result	Peak Limit	AVG Limit	Margin Peak	Margin AVG	Polarity
(MHz)		(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	
5800	4	110.79	84.49	114	94	-3.21	-9.51	H
		97.65	71.35	114	94	-16.35	-22.65	V

Frequency	ANT	Peak Result	AVG Result	Peak Limit	AVG Limit	Margin Peak	Margin AVG	Polarity
(MHz)		(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	
5800	5	110.45	84.41	114	94	-3.55	-9.59	H
		98.78	72.74	114	94	-15.22	-21.26	V

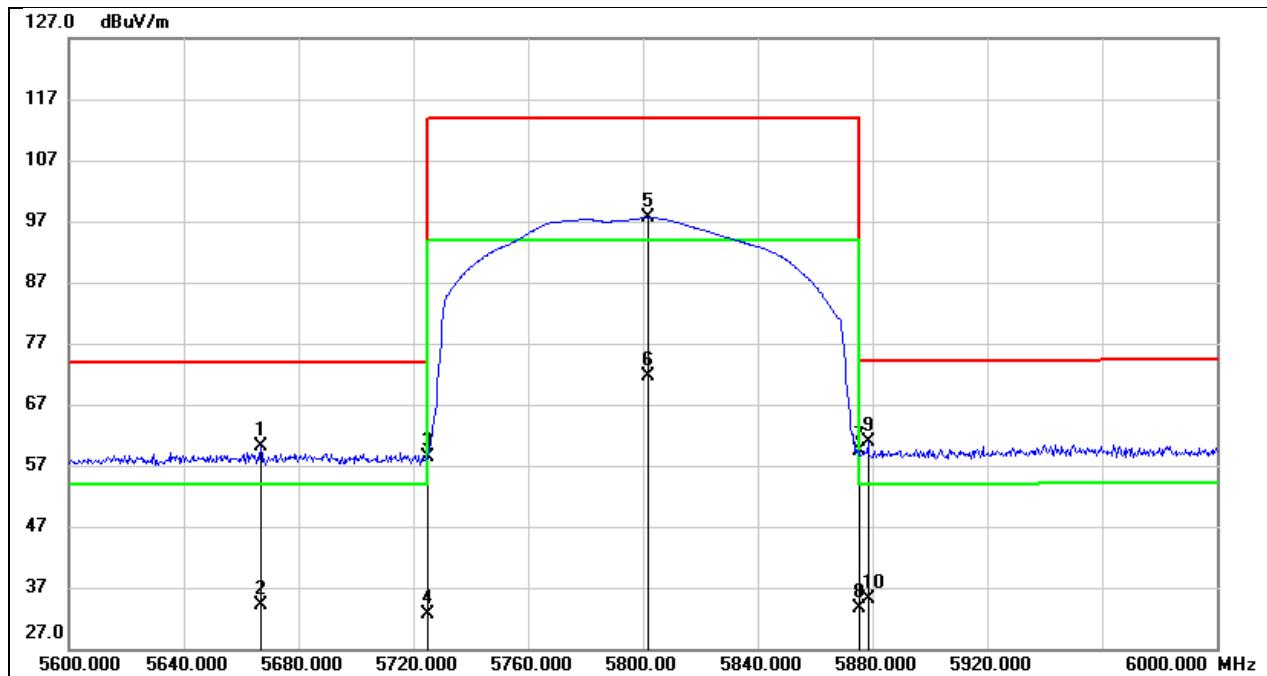
7.3.2. RESTRICTED BANDEdge

Test Mode:	Low Power Wide band Radio in 5GHz (5.8G)	Test Channel:	1
Polarity:	Horizontal	Test Voltage:	DC 3.3 V
Antenna	4		



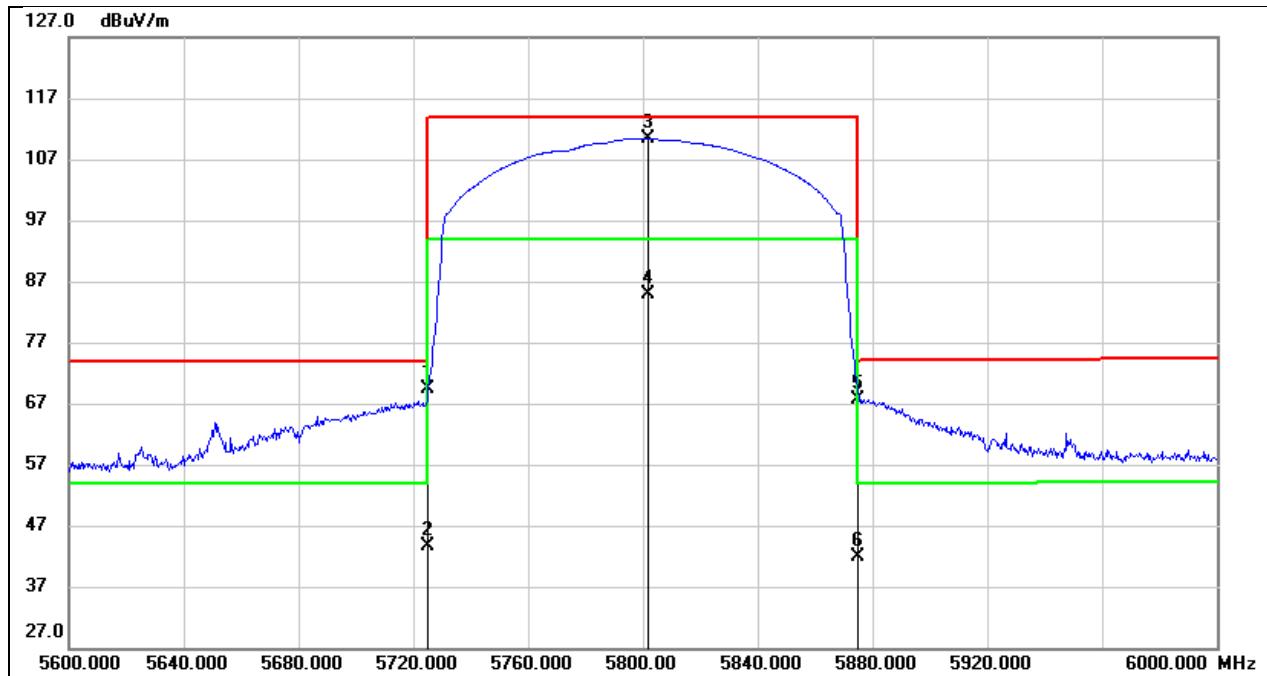
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5725.000	29.11	40.09	69.20	74.00	-4.80	peak
2	5725.000	2.81	40.09	42.90	54.00	-11.10	AVG
3	5798.400	/	/	/	/	/	fundamental
4	5798.400	/	/	/	/	/	fundamental
5	5875.000	26.05	40.36	66.41	74.00	-7.59	peak
6	5875.000	-0.25	40.36	40.11	54.00	-13.89	AVG

Test Mode:	Low Power Wide band Radio in 5GHz (5.8G)	Test Channel:	1
Polarity:	Vertical	Test Voltage:	DC 3.3 V
Antenna	4		



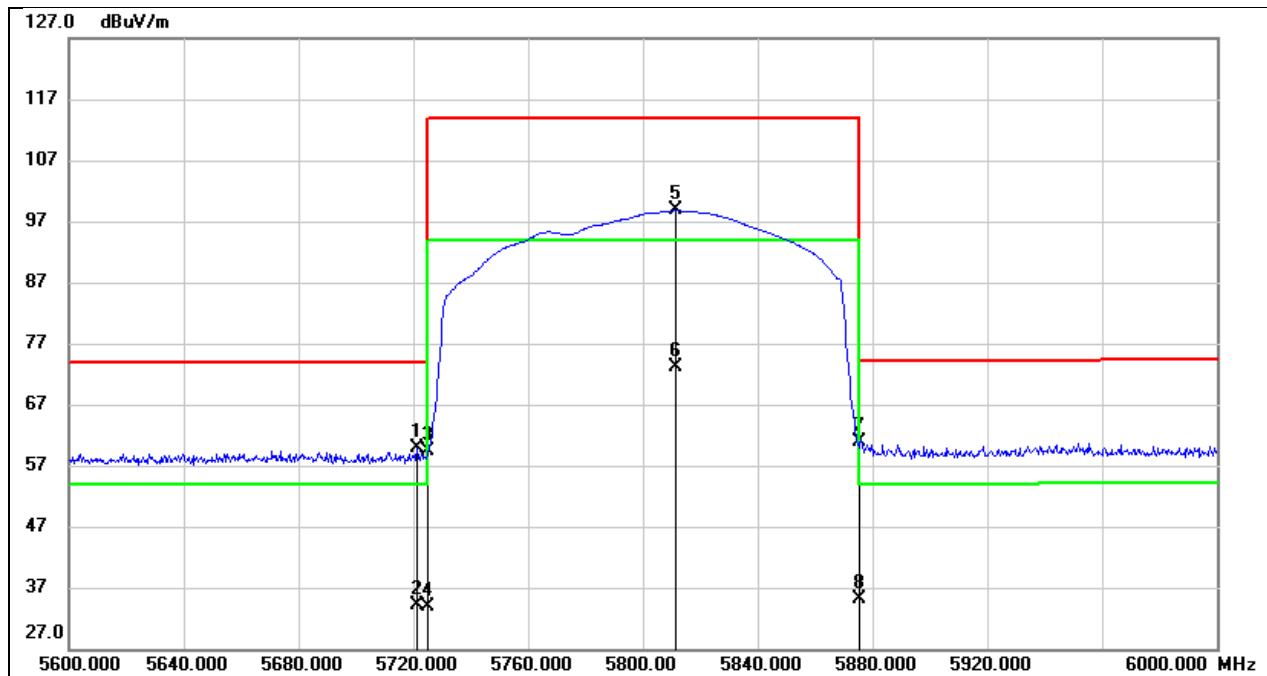
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5666.800	18.94	41.15	60.09	74.00	-13.91	peak
2	5666.800	-7.36	41.15	33.79	54.00	-20.21	AVG
3	5725.000	17.30	41.20	58.50	74.00	-15.50	peak
4	5725.000	-9.00	41.20	32.20	54.00	-21.80	AVG
5	5802.000	/	/	/	/	/	fundamental
6	5802.000	/	/	/	/	/	fundamental
7	5875.000	17.95	41.41	59.36	74.00	-14.64	peak
8	5875.000	-8.35	41.41	33.06	54.00	-20.94	AVG
9	5878.400	19.59	41.41	61.00	74.00	-13.01	peak
10	5878.400	-6.71	41.41	34.70	54.00	-19.30	AVG

Test Mode:	Low Power Wide band Radio in 5GHz (5.8G)	Test Channel:	1
Polarity:	Horizontal	Test Voltage:	DC 3.3 V
Antenna	5		



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5725.000	29.32	40.09	69.41	74.00	-4.59	peak
2	5725.000	3.28	40.09	43.37	54.00	-10.63	AVG
3	5801.600	/	/	/	/	/	fundamental
4	5801.600	/	/	/	/	/	fundamental
5	5875.000	27.32	40.36	67.68	74.00	-6.32	peak
6	5875.000	1.28	40.36	41.64	54.00	-12.36	AVG

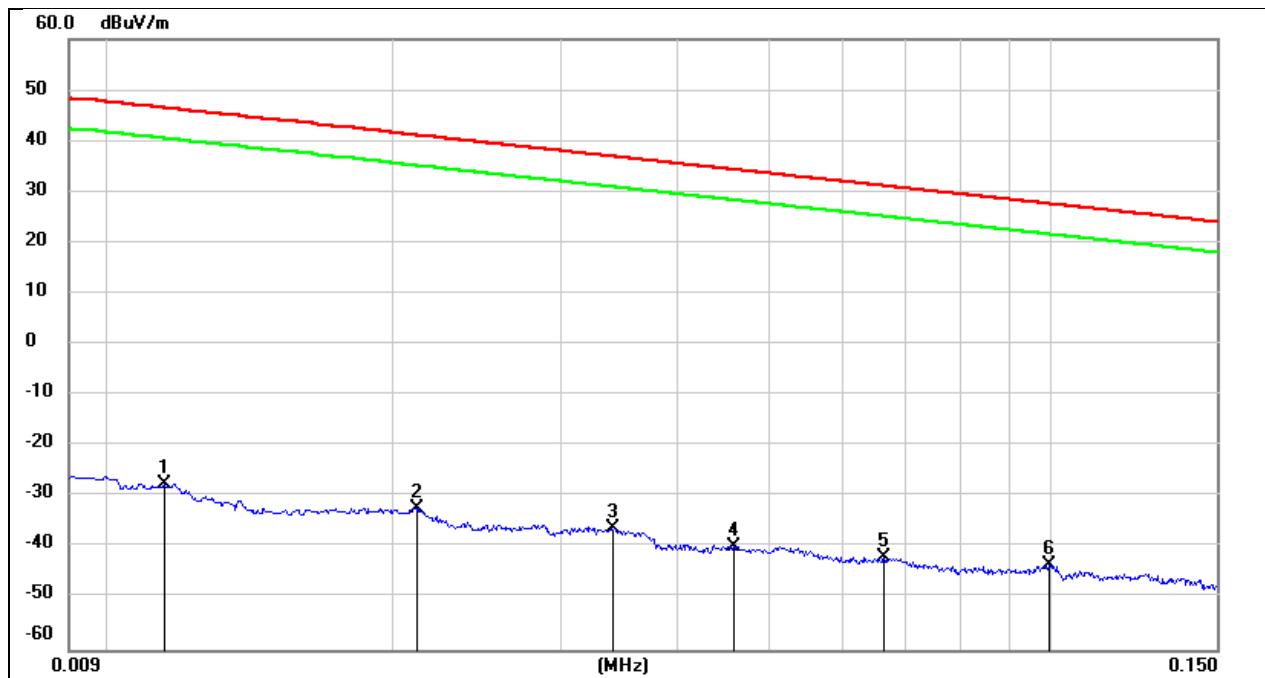
Test Mode:	Low Power Wide band Radio in 5GHz (5.8G)	Test Channel:	1
Polarity:	Vertical	Test Voltage:	DC 3.3 V
Antenna	5		



No.	Frequency (MHz)	Reading (dB _{UV})	Correct (dB/m)	Result (dB _{UV} /m)	Limit (dB _{UV} /m)	Margin (dB)	Remark
1	5721.200	18.61	41.20	59.81	74.00	-14.19	peak
2	5721.200	-7.43	41.20	33.77	54.00	-20.23	AVG
3	5725.000	18.27	41.20	59.47	74.00	-14.53	peak
4	5725.000	-7.77	41.20	33.43	54.00	-20.57	AVG
5	5811.200	/	/	/	/	/	fundamental
6	5811.200	/	/	/	/	/	fundamental
7	5875.000	19.42	41.41	60.83	74.00	-13.17	peak
8	5875.000	-6.62	41.41	34.79	54.00	-19.21	AVG

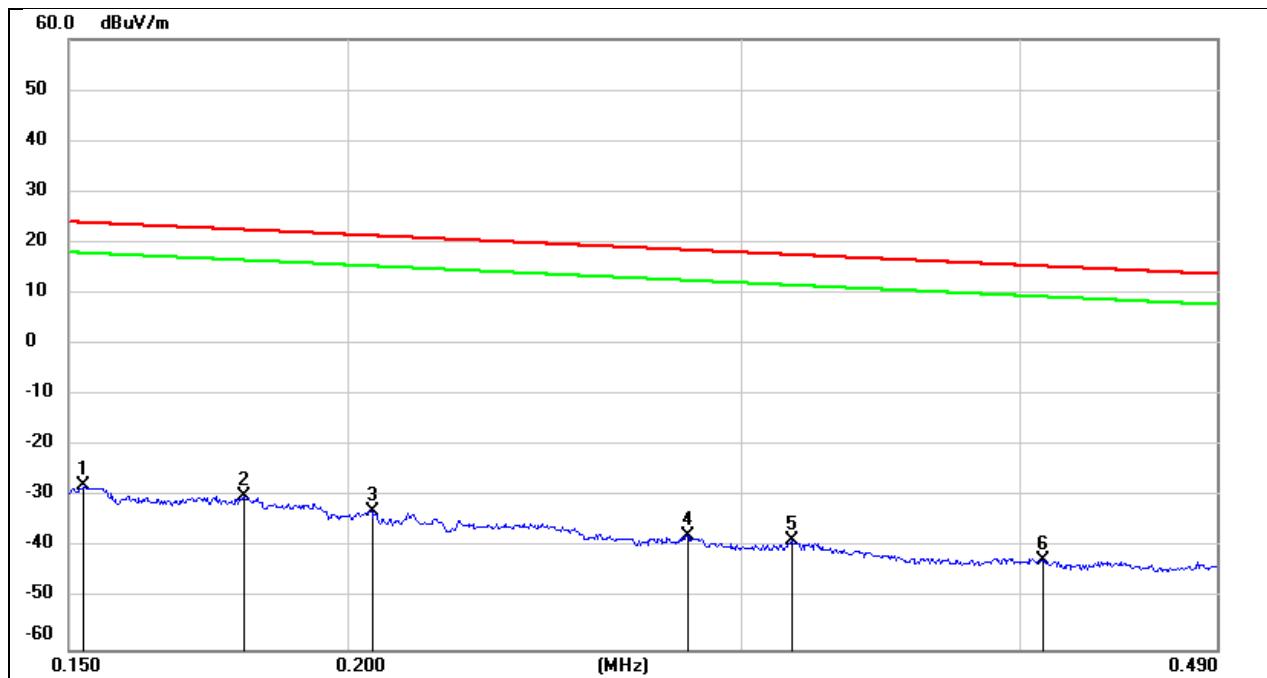
7.3.3. SPURIOUS EMISSIONS(9 kHz~30 MHz)

Test Mode:	Low Power Wide band Radio in 5GHz (5.8G)	Test Channel:	1
Polarity:	Horizontal	Test Voltage:	DC 3.3 V
Antenna	4		



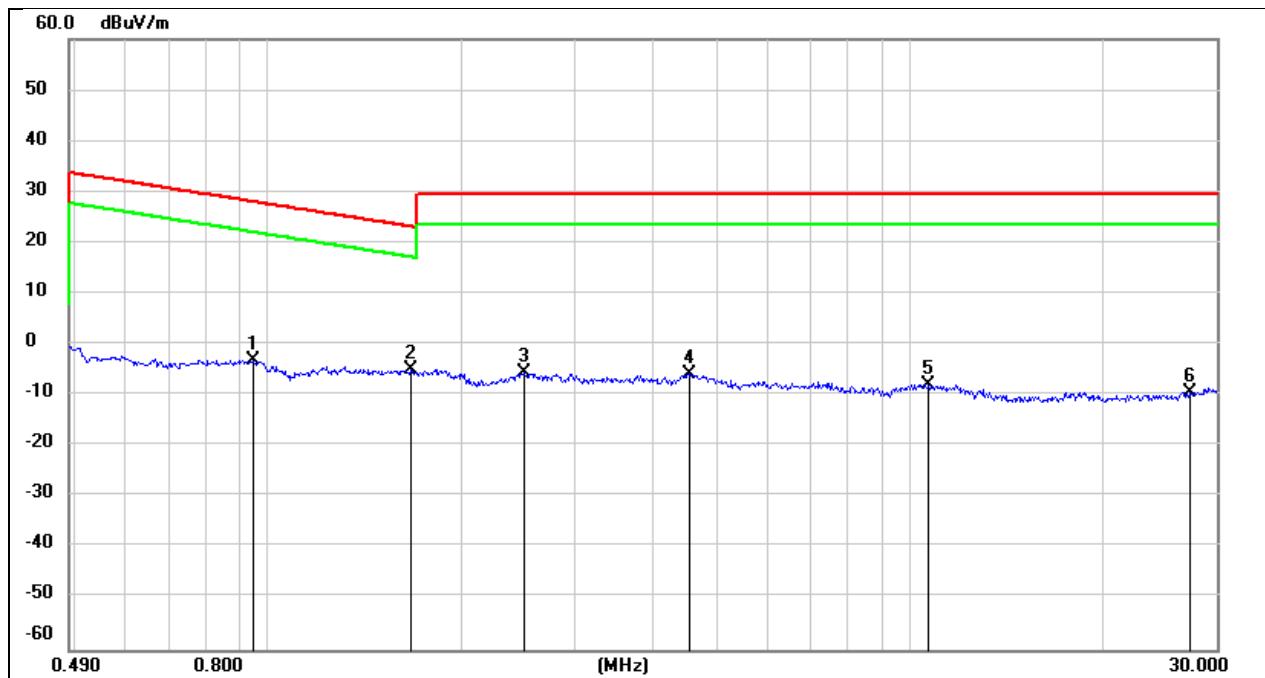
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	FCC Result (dBuV/m)	FCC Limit (dBuV/m)	ISED Result (dBuA/m)	ISED Limit (dBuA/m)	Margin (dB)	Remark
1	0.0114	73.95	-101.40	-27.45	46.46	-78.95	-5.04	-73.91	peak
2	0.0211	69.08	-101.35	-32.27	41.12	-83.77	-10.38	-73.39	peak
3	0.0342	65.36	-101.41	-36.05	36.92	-87.55	-14.58	-72.97	peak
4	0.0459	61.75	-101.46	-39.71	34.36	-91.21	-17.14	-74.07	peak
5	0.0663	59.60	-101.55	-41.95	31.17	-93.45	-20.33	-73.12	peak
6	0.0995	58.56	-101.80	-43.24	27.64	-94.74	-23.86	-70.88	peak

Test Mode:	Low Power Wide band Radio in 5GHz (5.8G)	Test Channel:	1
Polarity:	Horizontal	Test Voltage:	DC 3.3 V
Antenna	4		



No.	Frequency	Reading	Correct	FCC Result	FCC Limit	ISED Result	ISED Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dBuA/m)	(dBuA/m)	(dB)	
1	0.1524	73.80	-101.63	-27.83	23.94	-79.33	-27.56	-51.77	peak
2	0.1796	71.74	-101.68	-29.94	22.52	-81.44	-28.98	-52.46	peak
3	0.2051	68.81	-101.73	-32.92	21.36	-84.42	-30.14	-54.28	peak
4	0.2837	64.22	-101.83	-37.61	18.54	-89.11	-32.96	-56.15	peak
5	0.3163	63.20	-101.87	-38.67	17.60	-90.17	-33.90	-56.27	peak
6	0.4097	59.52	-101.97	-42.45	15.35	-93.95	-36.15	-57.80	peak

Test Mode:	Low Power Wide band Radio in 5GHz (5.8G)	Test Channel:	1
Polarity:	Horizontal	Test Voltage:	DC 3.3 V
Antenna	4		

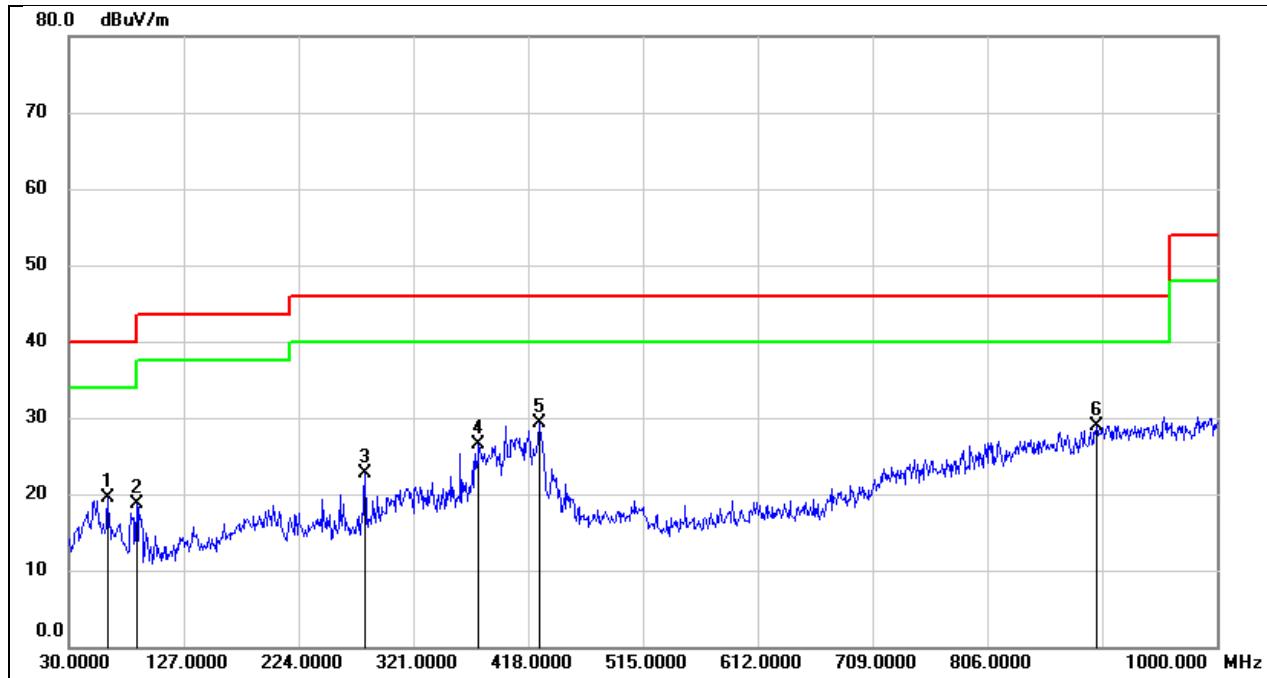


No.	Frequency	Reading	Correct	FCC Result	FCC Limit	ISED Result	ISED Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dBuA/m)	(dBuA/m)	(dB)	
1	0.9465	59.10	-62.23	-3.13	28.08	-54.63	-23.42	-31.21	peak
2	1.6704	57.06	-61.97	-4.91	23.15	-56.41	-28.35	-28.06	peak
3	2.5095	56.05	-61.70	-5.65	29.54	-57.15	-21.96	-35.19	peak
4	4.5384	55.50	-61.41	-5.91	29.54	-57.41	-21.96	-35.45	peak
5	10.7004	52.86	-60.83	-7.97	29.54	-59.47	-21.96	-37.51	peak
6	27.1966	50.81	-60.24	-9.43	29.54	-60.93	-21.96	-38.97	peak

Note: All antennas have been tested, only the worst data recorded in the report.

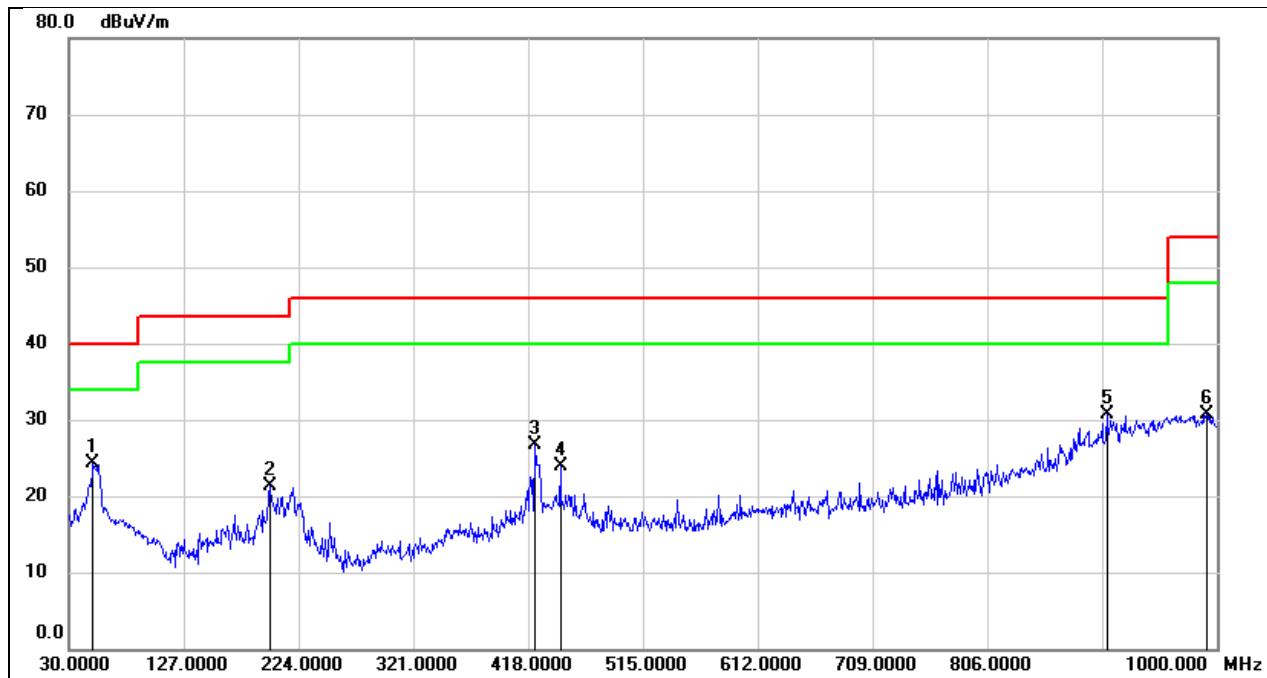
7.3.4. SPURIOUS EMISSIONS(30 MHz~1 GHz)

Test Mode:	Low Power Wide band Radio in 5GHz (5.8G)	Test Channel:	1
Polarity:	Horizontal	Test Voltage:	DC 3.3 V
Antenna	4		



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	62.9800	34.53	-15.01	19.52	40.00	-20.48	QP
2	87.2300	35.24	-16.51	18.73	40.00	-21.27	QP
3	280.2600	35.46	-12.73	22.73	46.00	-23.27	QP
4	376.2900	36.02	-9.61	26.41	46.00	-19.59	QP
5	427.7000	38.22	-8.85	29.37	46.00	-16.63	QP
6	898.1500	29.32	-0.47	28.85	46.00	-17.15	QP

Test Mode:	Low Power Wide band Radio in 5GHz (5.8G)	Test Channel:	1
Polarity:	Vertical	Test Voltage:	DC 3.3 V
Antenna	4		

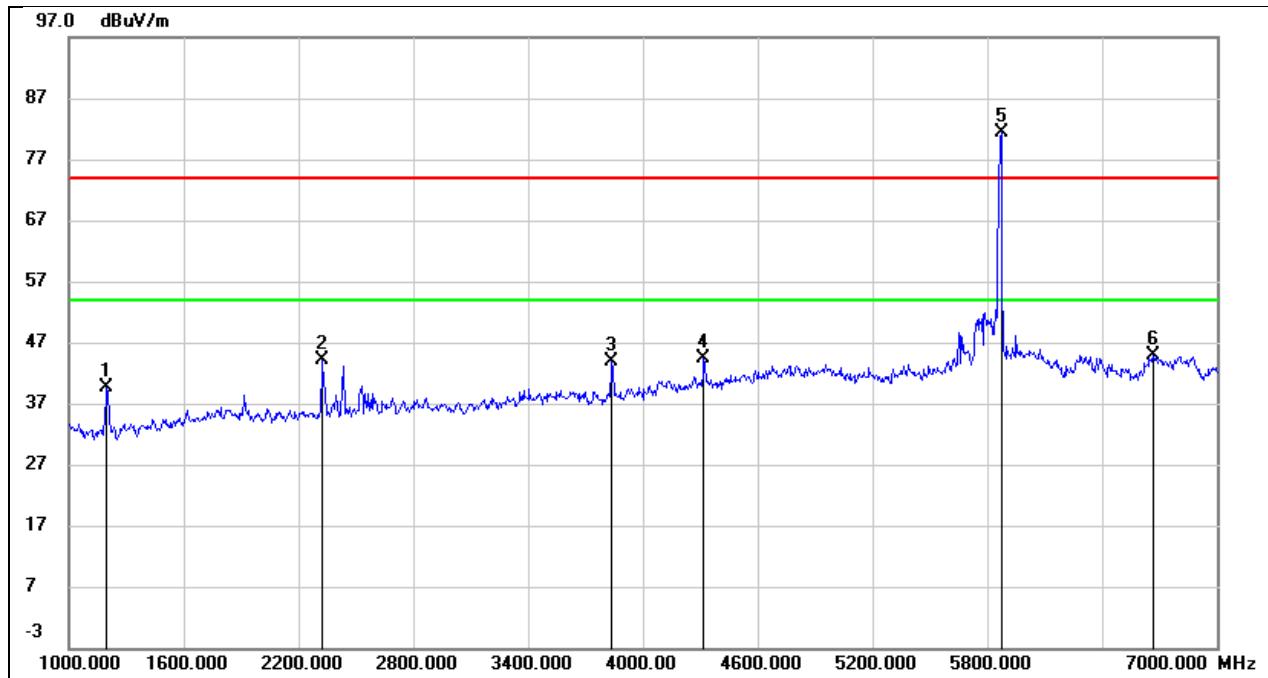


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	50.3700	39.38	-15.09	24.29	40.00	-15.71	QP
2	199.7500	33.59	-12.29	21.30	43.50	-22.20	QP
3	423.8200	35.64	-8.98	26.66	46.00	-19.34	QP
4	445.1600	32.18	-8.29	23.89	46.00	-22.11	QP
5	906.8800	31.07	-0.46	30.61	46.00	-15.39	QP
6	991.2700	30.92	-0.21	30.71	54.00	-23.29	QP

Note: All antennas have been tested, only the worst data recorded in the report.

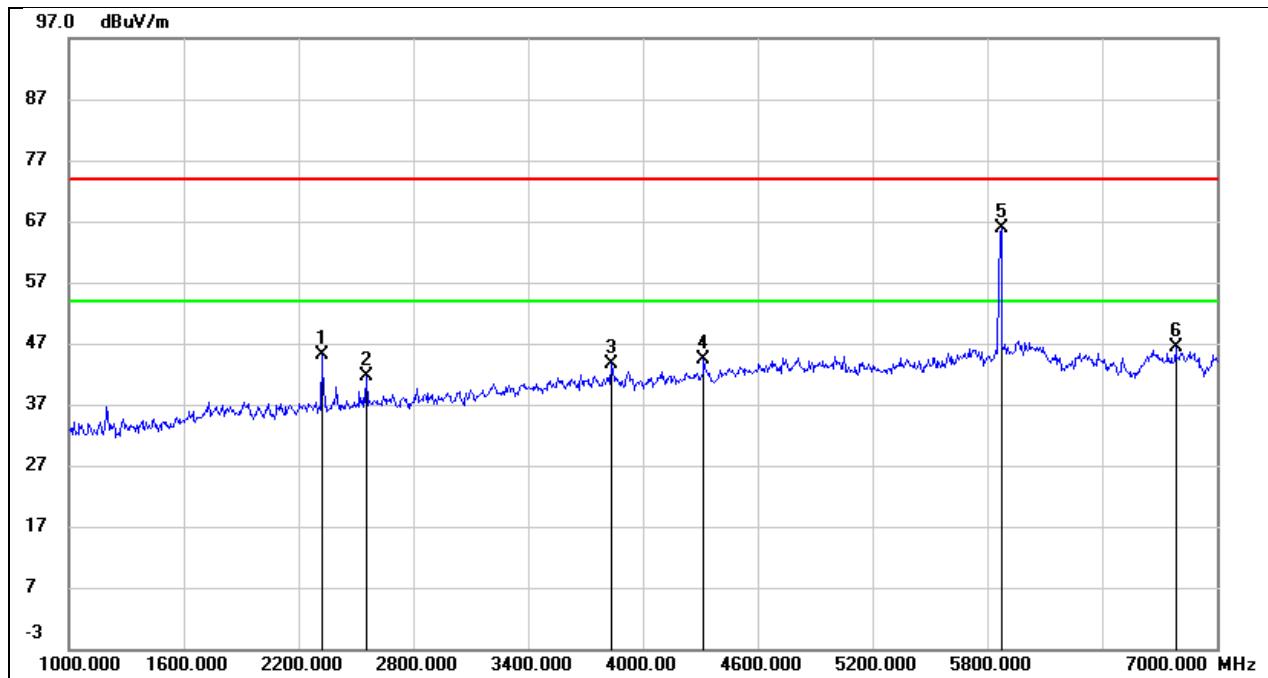
7.3.5. SPURIOUS EMISSIONS(1 GHz~7 GHz)

Test Mode:	Low Power Wide band Radio in 5GHz (5.8G)	Test Channel:	1
Polarity:	Horizontal	Test Voltage:	DC 3.3 V
Antenna	4		



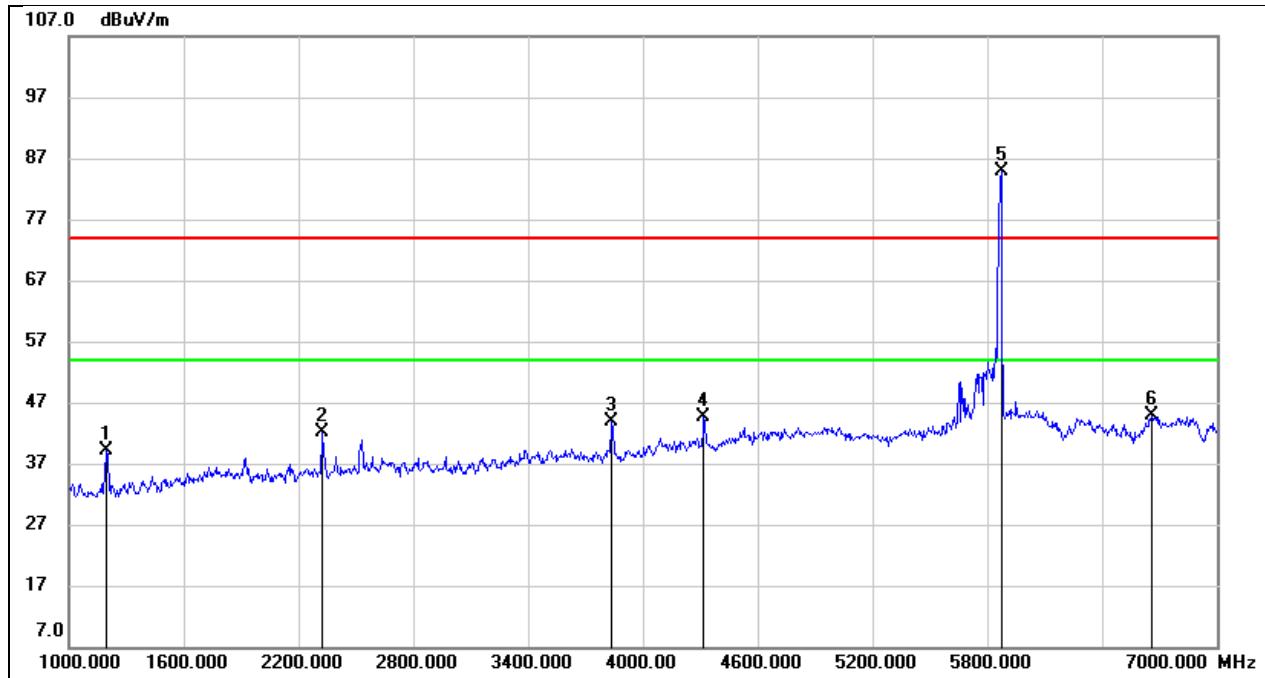
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1198.000	52.99	-13.48	39.51	74.00	-34.49	peak
2	2326.000	52.88	-8.87	44.01	74.00	-29.99	peak
3	3838.000	46.57	-2.73	43.84	74.00	-30.16	peak
4	4318.000	45.58	-1.28	44.30	74.00	-29.70	peak
5	5872.000	/	/	/	/	/	fundamental
6	6664.000	38.62	6.25	44.87	74.00	-29.13	peak

Test Mode:	Low Power Wide band Radio in 5GHz (5.8G)	Test Channel:	1
Polarity:	Vertical	Test Voltage:	DC 3.3 V
Antenna	4		



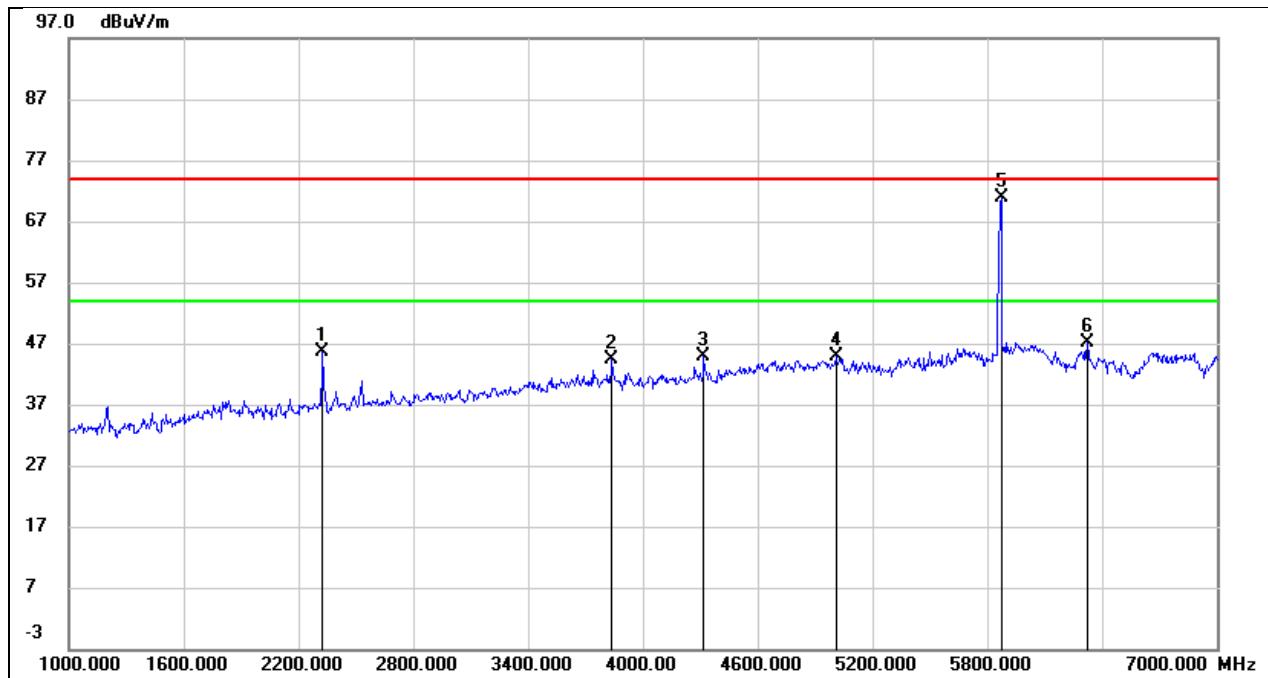
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2320.000	53.17	-8.05	45.12	74.00	-28.88	peak
2	2554.000	48.79	-7.12	41.67	74.00	-32.33	peak
3	3838.000	45.39	-1.66	43.73	74.00	-30.27	peak
4	4318.000	44.74	-0.31	44.43	74.00	-29.57	peak
5	5872.000	/	/	/	/	/	fundamental
6	6784.000	38.84	7.42	46.26	74.00	-27.74	peak

Test Mode:	Low Power Wide band Radio in 5GHz (5.8G)	Test Channel:	1
Polarity:	Horizontal	Test Voltage:	DC 3.3 V
Antenna	5		



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1198.000	52.58	-13.48	39.10	74.00	-34.90	peak
2	2326.000	51.03	-8.87	42.16	74.00	-31.84	peak
3	3838.000	46.56	-2.73	43.83	74.00	-30.17	peak
4	4318.000	45.97	-1.28	44.69	74.00	-29.31	peak
5	5872.000	/	/	/	/	/	fundamental
6	6658.000	38.74	6.23	44.97	74.00	-29.03	peak

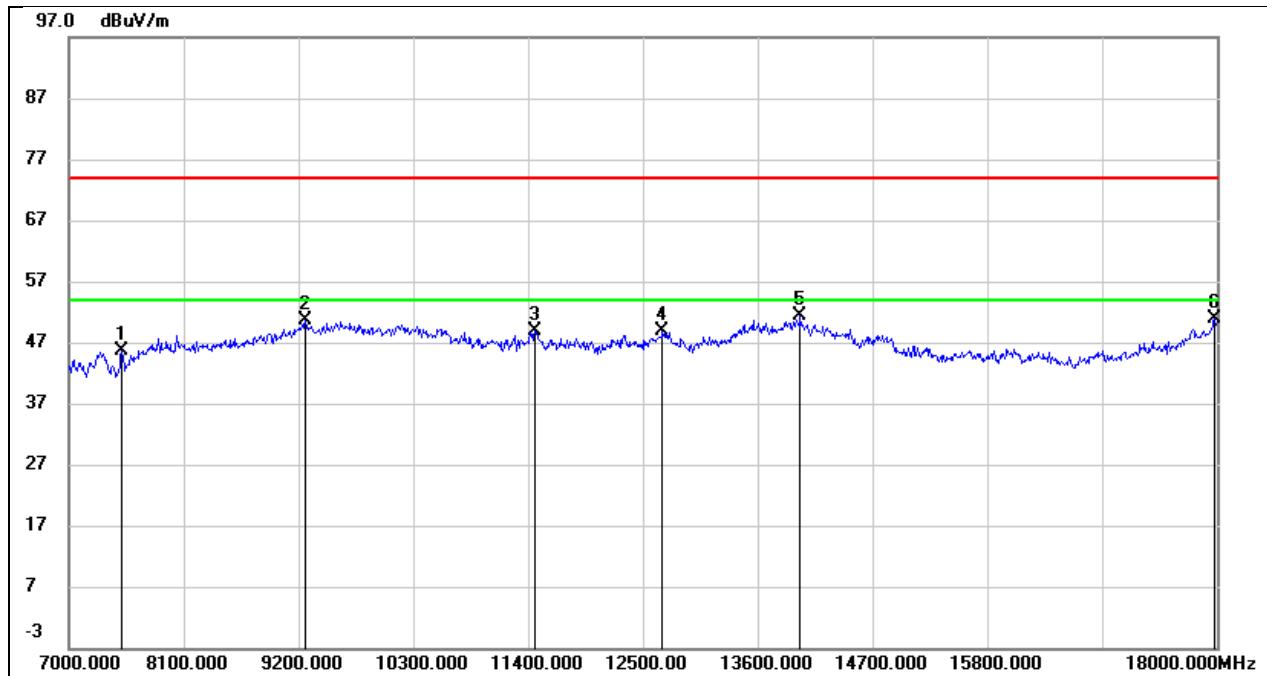
Test Mode:	Low Power Wide band Radio in 5GHz (5.8G)	Test Channel:	1
Polarity:	Vertical	Test Voltage:	DC 3.3 V
Antenna	5		



No.	Frequency (MHz)	Reading (dB _{UV})	Correct (dB/m)	Result (dB _{UV} /m)	Limit (dB _{UV} /m)	Margin (dB)	Remark
1	2326.000	53.67	-8.03	45.64	74.00	-28.36	peak
2	3838.000	46.07	-1.66	44.41	74.00	-29.59	peak
3	4318.000	45.09	-0.31	44.78	74.00	-29.22	peak
4	5008.000	41.80	3.01	44.81	74.00	-29.19	peak
5	5872.000	/	/	/	/	/	fundamental
6	6322.000	40.22	6.89	47.11	74.00	-26.89	peak

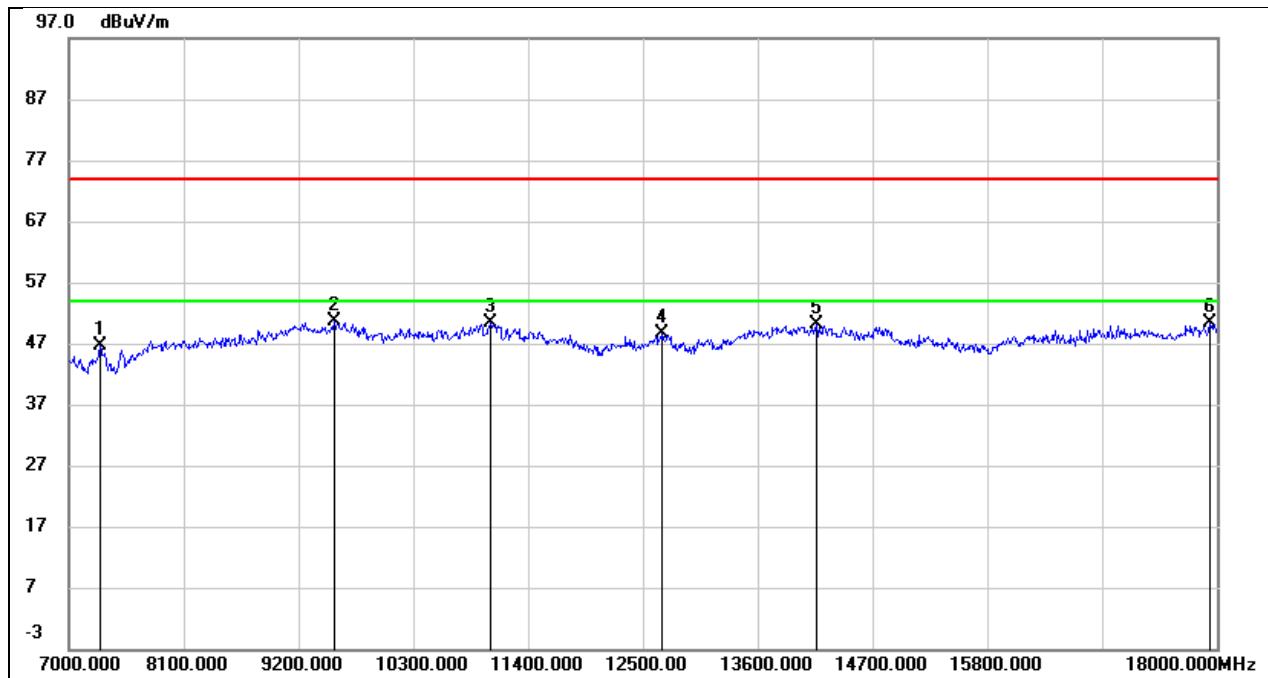
7.3.6. SPURIOUS EMISSIONS(7 GHz~18 GHz)

Test Mode:	Low Power Wide band Radio in 5GHz (5.8G)	Test Channel:	1
Polarity:	Horizontal	Test Voltage:	DC 3.3 V
Antenna	4		



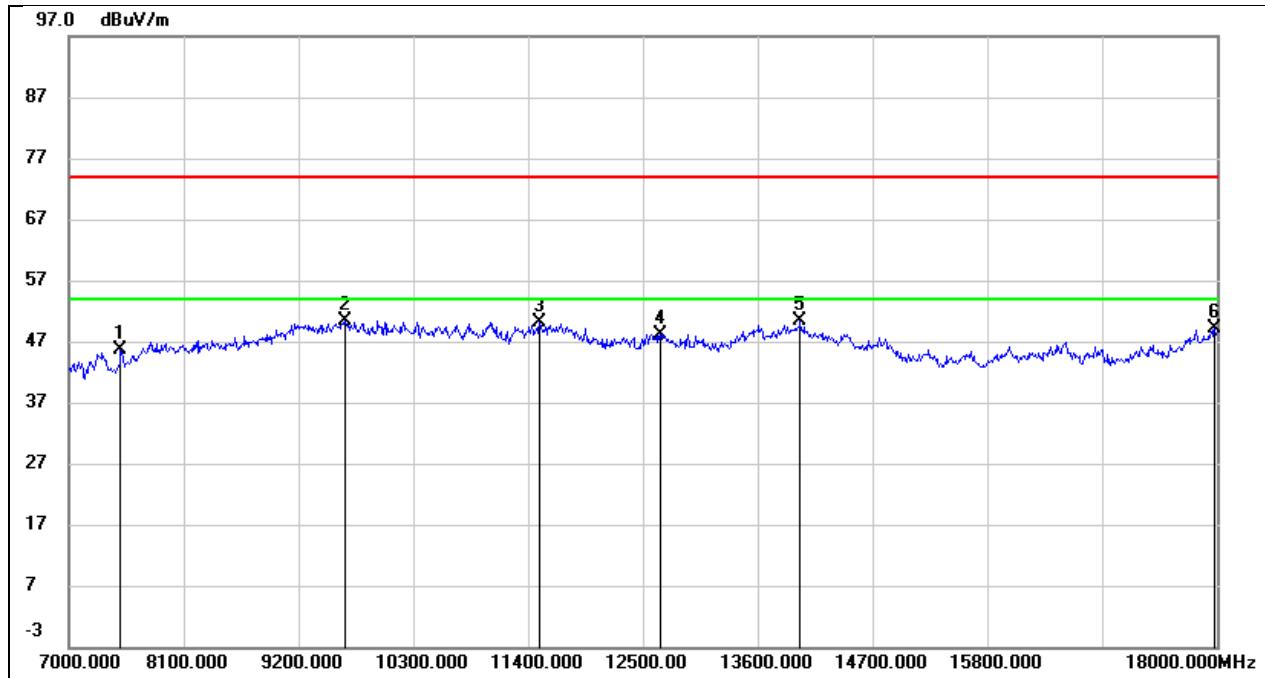
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7506.000	37.91	7.84	45.75	74.00	-28.25	peak
2	9266.000	38.82	11.78	50.60	74.00	-23.40	peak
3	11466.000	31.15	17.68	48.83	74.00	-25.17	peak
4	12687.000	29.35	19.52	48.87	74.00	-25.13	peak
5	14007.000	27.82	23.59	51.41	74.00	-22.59	peak
6	17978.000	21.38	29.38	50.76	74.00	-23.24	peak

Test Mode:	Low Power Wide band Radio in 5GHz (5.8G)	Test Channel:	1
Polarity:	Vertical	Test Voltage:	DC 3.3 V
Antenna	4		



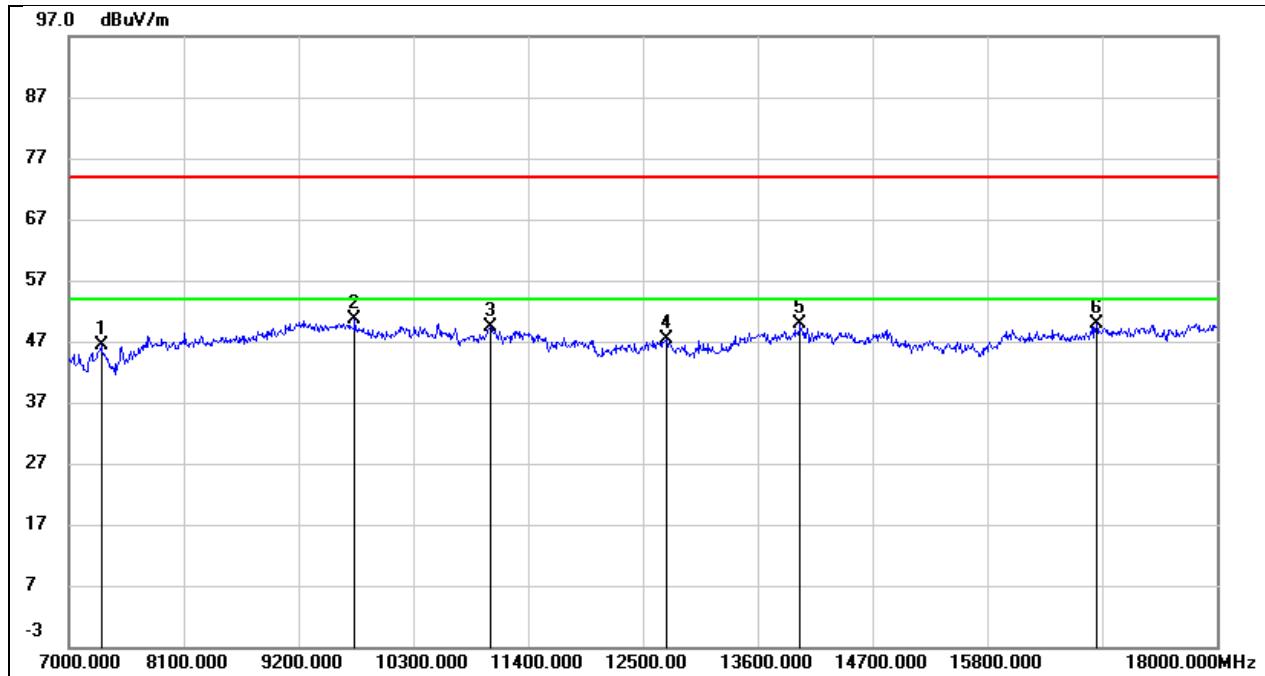
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7297.000	38.30	8.30	46.60	74.00	-27.40	peak
2	9541.000	37.69	13.04	50.73	74.00	-23.27	peak
3	11037.000	35.85	14.42	50.27	74.00	-23.73	peak
4	12687.000	30.00	18.51	48.51	74.00	-25.49	peak
5	14161.000	28.25	21.76	50.01	74.00	-23.99	peak
6	17934.000	23.41	27.00	50.41	74.00	-23.59	peak

Test Mode:	Low Power Wide band Radio in 5GHz (5.8G)	Test Channel:	1
Polarity:	Horizontal	Test Voltage:	DC 3.3 V
Antenna	5		



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7495.000	37.85	7.84	45.69	74.00	-28.31	peak
2	9640.000	36.96	13.53	50.49	74.00	-23.51	peak
3	11510.000	32.29	17.86	50.15	74.00	-23.85	peak
4	12665.000	28.75	19.42	48.17	74.00	-25.83	peak
5	14007.000	26.70	23.59	50.29	74.00	-23.71	peak
6	17978.000	19.63	29.38	49.01	74.00	-24.99	peak

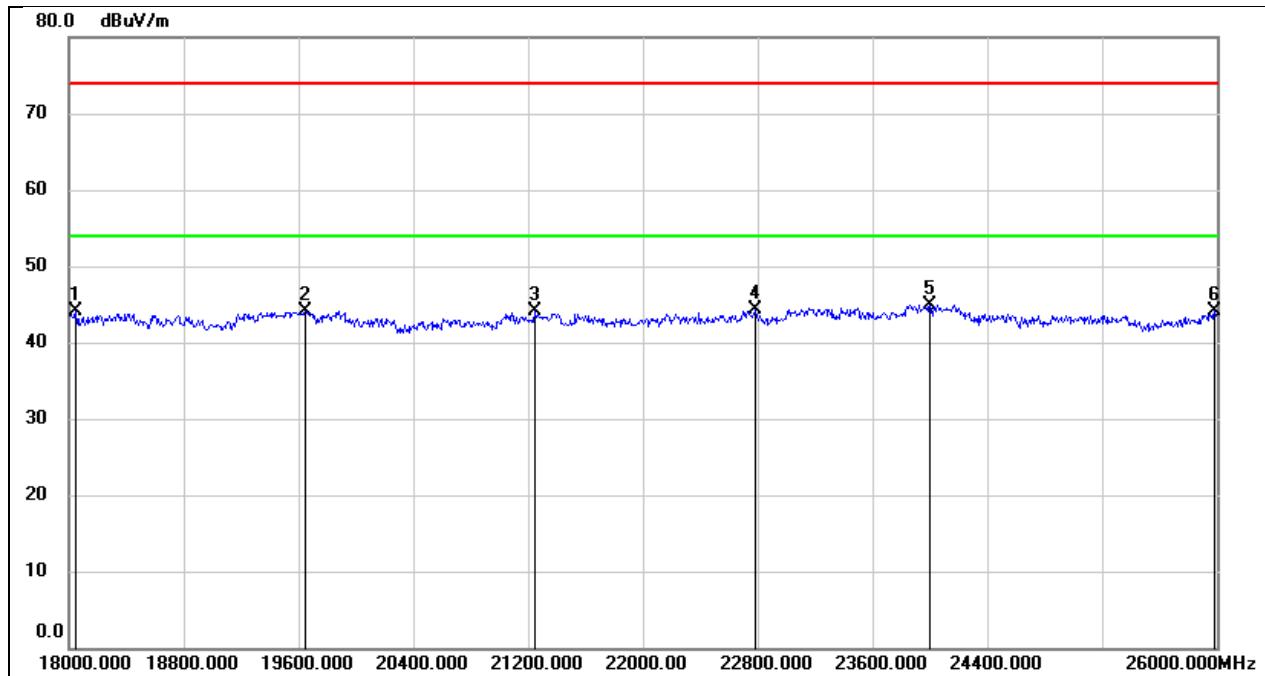
Test Mode:	Low Power Wide band Radio in 5GHz (5.8G)	Test Channel:	1
Polarity:	Vertical	Test Voltage:	DC 3.3 V
Antenna	5		



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7308.000	38.10	8.29	46.39	74.00	-27.61	peak
2	9739.000	37.24	13.36	50.60	74.00	-23.40	peak
3	11037.000	35.02	14.42	49.44	74.00	-24.56	peak
4	12731.000	28.67	18.66	47.33	74.00	-26.67	peak
5	14007.000	27.89	22.01	49.90	74.00	-24.10	peak
6	16845.000	25.75	24.14	49.89	74.00	-24.11	peak

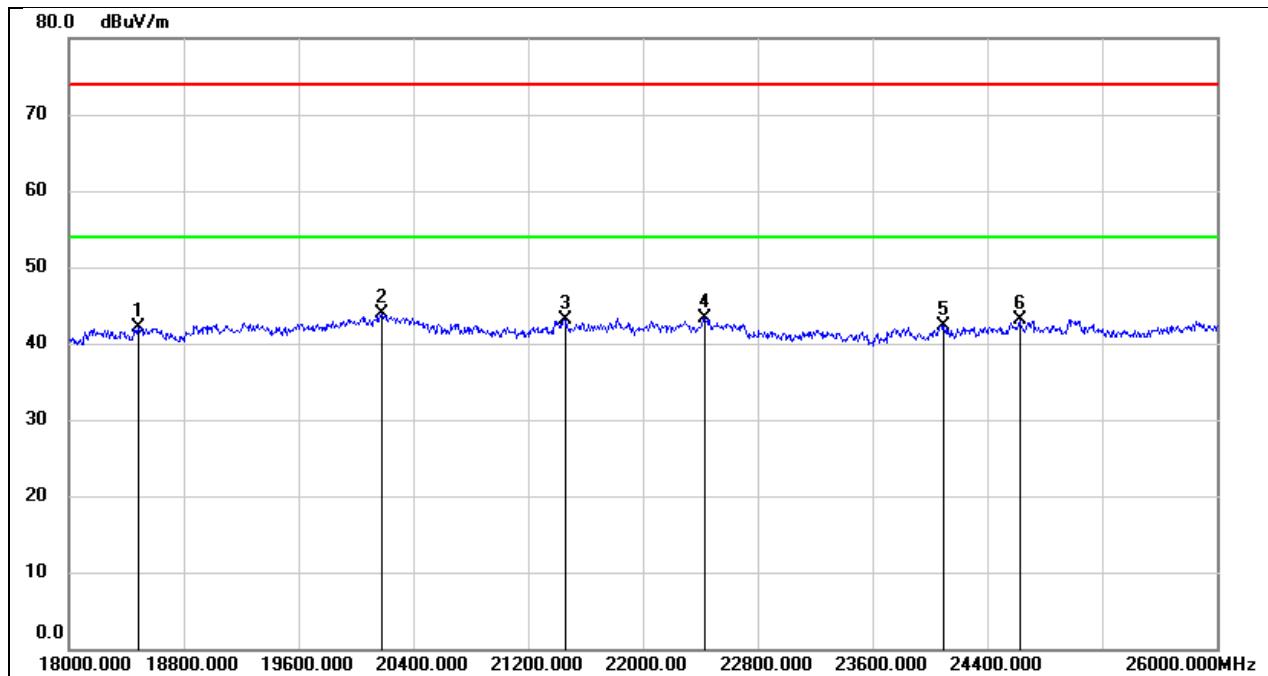
7.3.7. SPURIOUS EMISSIONS(18 GHz~26 GHz)

Test Mode:	Low Power Wide band Radio in 5GHz (5.8G)	Test Channel:	1
Polarity:	Horizontal	Test Voltage:	DC 3.3 V
Antenna	4		



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	18048.000	49.43	-5.42	44.01	74.00	-29.99	peak
2	19648.000	49.40	-5.37	44.03	74.00	-29.97	peak
3	21248.000	48.79	-4.77	44.02	74.00	-29.98	peak
4	22784.000	47.98	-3.65	44.33	74.00	-29.67	peak
5	24000.000	47.71	-2.75	44.96	74.00	-29.04	peak
6	25984.000	45.15	-1.03	44.12	74.00	-29.88	peak

Test Mode:	Low Power Wide band Radio in 5GHz (5.8G)	Test Channel:	1
Polarity:	Vertical	Test Voltage:	DC 3.3 V
Antenna	4		

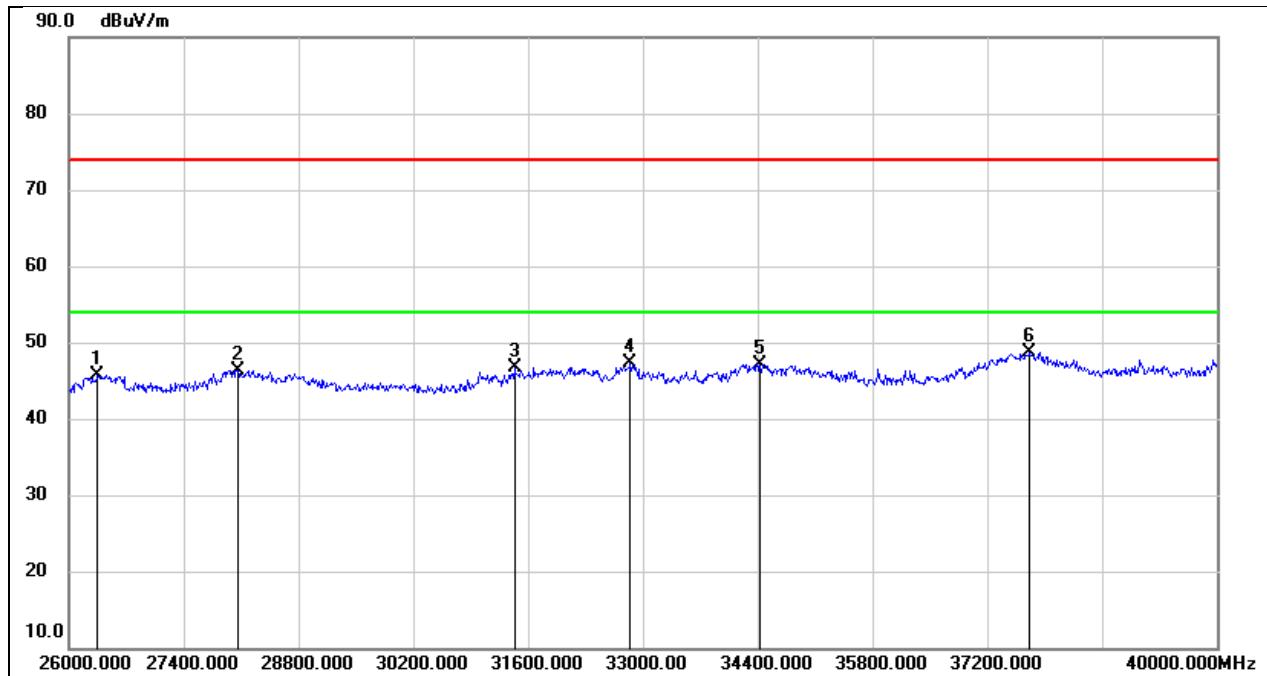


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	18480.000	47.34	-5.28	42.06	74.00	-31.94	peak
2	20184.000	49.44	-5.56	43.88	74.00	-30.12	peak
3	21456.000	47.85	-4.70	43.15	74.00	-30.85	peak
4	22432.000	47.26	-3.97	43.29	74.00	-30.71	peak
5	24096.000	45.11	-2.78	42.33	74.00	-31.67	peak
6	24624.000	45.49	-2.33	43.16	74.00	-30.84	peak

Note: All antennas have been tested, only the worst data recorded in the report.

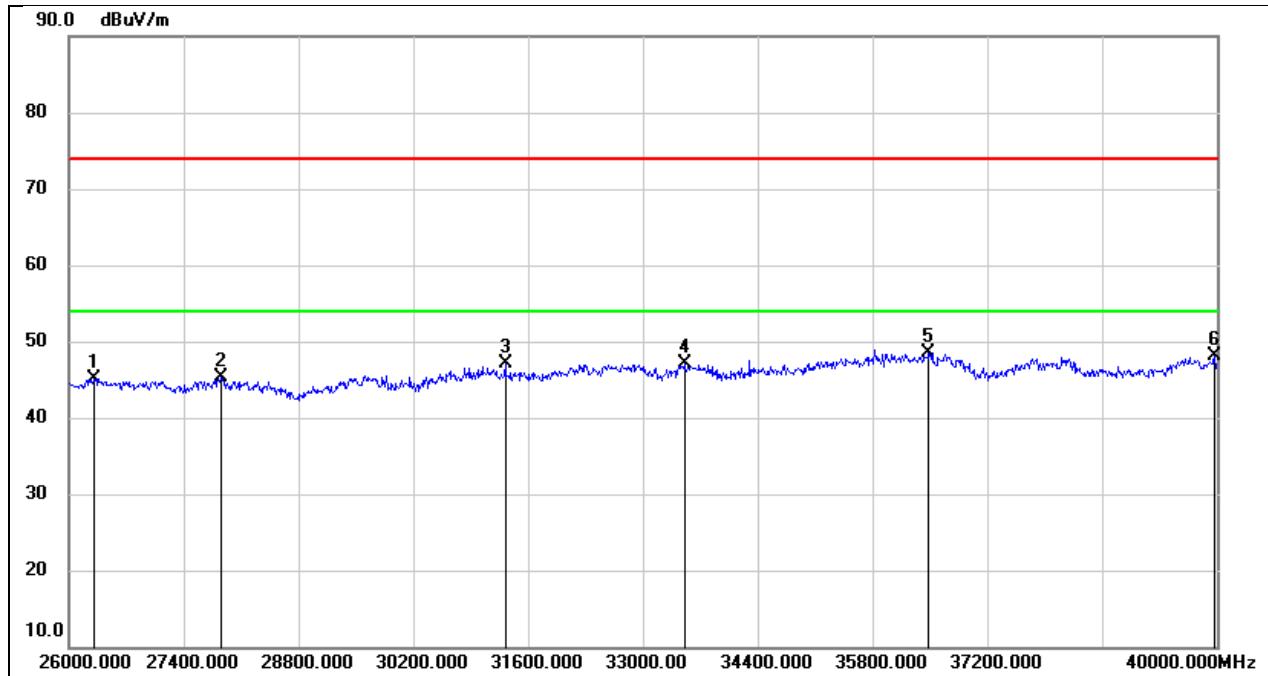
7.3.8. SPURIOUS EMISSIONS(26 GHz~40 GHz)

Test Mode:	Low Power Wide band Radio in 5GHz (5.8G)	Test Channel:	1
Polarity:	Horizontal	Test Voltage:	DC 3.3 V
Antenna	4		



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	26350.000	50.77	-5.11	45.66	74.00	-28.34	peak
2	28058.000	50.06	-3.68	46.38	74.00	-27.62	peak
3	31432.000	47.75	-1.10	46.65	74.00	-27.35	peak
4	32846.000	48.38	-1.02	47.36	74.00	-26.64	peak
5	34428.000	46.20	0.99	47.19	74.00	-26.81	peak
6	37718.000	45.04	3.62	48.66	74.00	-25.34	peak

Test Mode:	Low Power Wide band Radio in 5GHz (5.8G)	Test Channel:	1
Polarity:	Vertical	Test Voltage:	DC 3.3 V
Antenna	4		



No.	Frequency (MHz)	Reading (dB _u V)	Correct (dB/m)	Result (dB _u V/m)	Limit (dB _u V/m)	Margin (dB)	Remark
1	26308.000	50.33	-5.21	45.12	74.00	-28.88	peak
2	27848.000	49.00	-3.76	45.24	74.00	-28.76	peak
3	31320.000	48.11	-0.93	47.18	74.00	-26.82	peak
4	33504.000	46.48	0.58	47.06	74.00	-26.94	peak
5	36486.000	44.75	3.73	48.48	74.00	-25.52	peak
6	39972.000	42.95	5.13	48.08	74.00	-25.92	peak

Note: All antennas have been tested, only the worst data recorded in the report.

8. AC POWER LINE CONDUCTED EMISSION

LIMITS

Please refer to CFR 47 FCC §15.207 (a) and ISED RSS-Gen Clause 8.8

FREQUENCY (MHz)	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

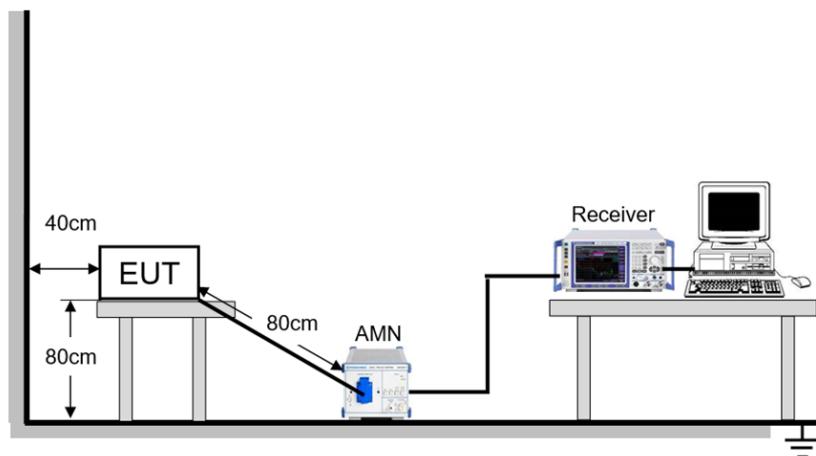
*Decreases with the logarithm of the frequency.

TEST PROCEDURE

The EUT is put on a table of non-conducting material that is 80 cm high. The vertical conducting wall of shielding is located 40 cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.). A EMI Measurement Receiver (R&S Test Receiver ESR3) is used to test the emissions from both sides of AC line. According to the requirements in Section 6.2 of ANSI C63.10-2013. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode. The bandwidth of EMI test receiver is set at 9 kHz.

The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application.

TEST SETUP



TEST ENVIRONMENT

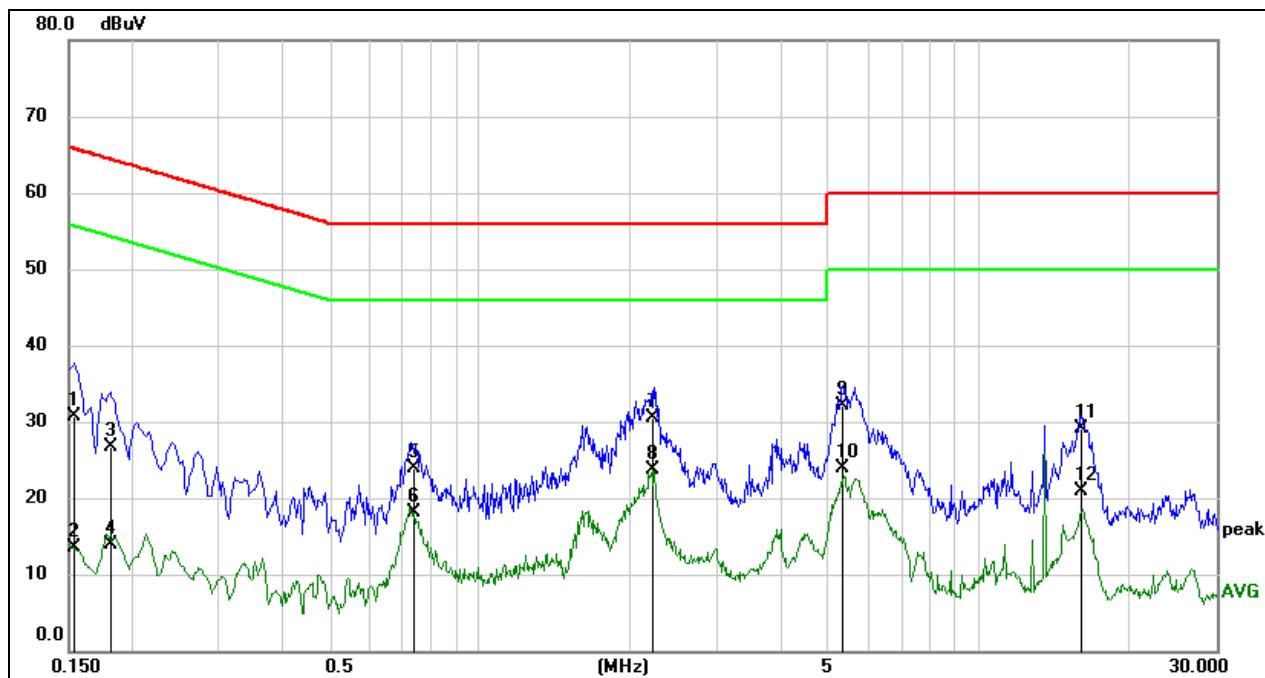
Temperature	23.2°C	Relative Humidity	56%
Atmosphere Pressure	101kPa	Test Voltage	AC 120 V, 60 Hz

TEST DATE / ENGINEER

Test Date	March 5, 2025	Test By	Karl Wu
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TEST RESULTS

Test Mode:	Low Power Wide band Radio in 5GHz (5.8G)	Frequency(MHz):	5800
Line:	Line	Antenna	4



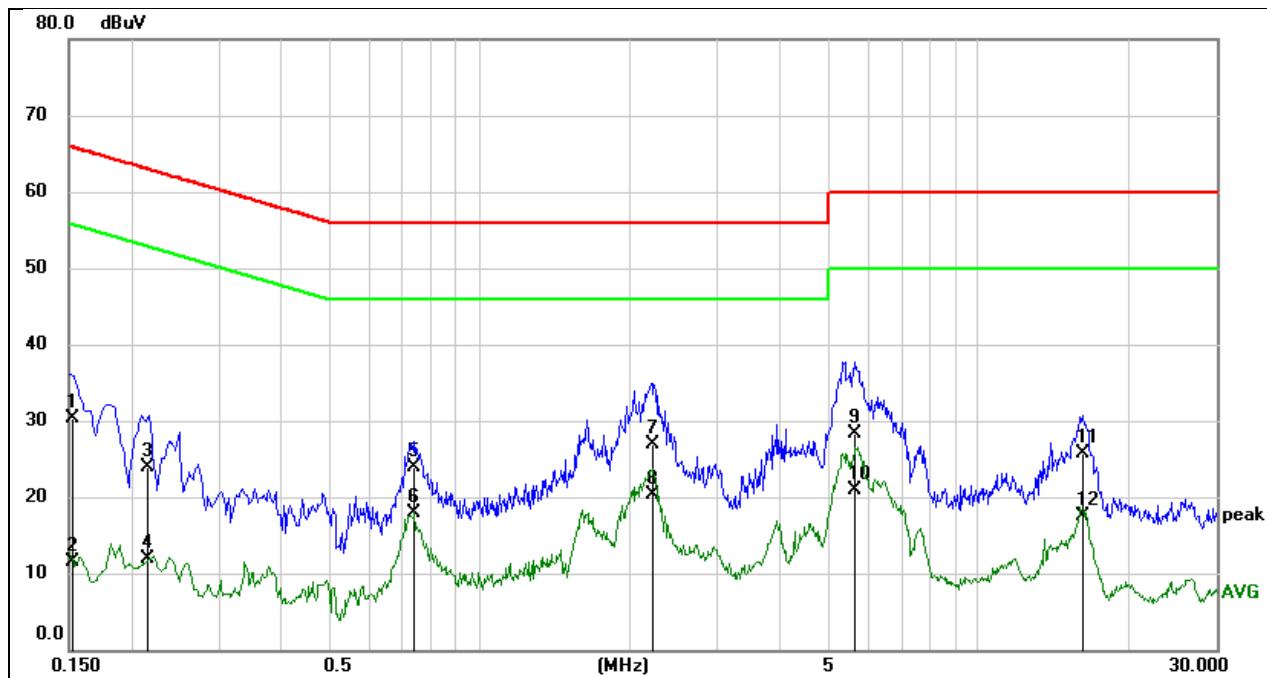
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1546	21.06	9.73	30.79	65.75	-34.96	QP
2	0.1546	3.83	9.73	13.56	55.75	-42.19	AVG
3	0.1827	16.97	9.67	26.64	64.36	-37.72	QP
4	0.1827	4.16	9.67	13.83	54.36	-40.53	AVG
5	0.7406	14.28	9.63	23.91	56.00	-32.09	QP
6	0.7406	8.48	9.63	18.11	46.00	-27.89	AVG
7	2.2062	20.86	9.74	30.60	56.00	-25.40	QP
8	2.2062	13.97	9.74	23.71	46.00	-22.29	AVG
9	5.3826	22.36	9.73	32.09	60.00	-27.91	QP
10	5.3826	14.25	9.73	23.98	50.00	-26.02	AVG
11	16.1048	19.46	9.74	29.20	60.00	-30.80	QP
12	16.1048	11.10	9.74	20.84	50.00	-29.16	AVG

Note:

1. Result = Reading + Correct Factor.
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 200 Hz (9 kHz ~ 150 kHz), 9 kHz (150 kHz ~ 30 MHz).
4. Step size: 80 Hz (0.009 MHz ~ 0.15 MHz), 4 kHz (0.15 MHz ~ 30 MHz), Scan time: auto.

Note: All the modes have been tested, only the worst data was recorded in the report.

Test Mode:	Low Power Wide band Radio in 5GHz (5.8G)	Frequency(MHz):	5800
Line:	Neutral	Antenna	4



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1524	20.75	9.64	30.39	65.87	-35.48	QP
2	0.1524	1.91	9.64	11.55	55.87	-44.32	AVG
3	0.2143	14.19	9.64	23.83	63.04	-39.21	QP
4	0.2143	2.17	9.64	11.81	53.04	-41.23	AVG
5	0.7396	14.20	9.63	23.83	56.00	-32.17	QP
6	0.7396	8.33	9.63	17.96	46.00	-28.04	AVG
7	2.2212	17.28	9.64	26.92	56.00	-29.08	QP
8	2.2212	10.69	9.64	20.33	46.00	-25.67	AVG
9	5.6721	18.61	9.69	28.30	60.00	-31.70	QP
10	5.6721	11.28	9.69	20.97	50.00	-29.03	AVG
11	16.1420	15.95	9.74	25.69	60.00	-34.31	QP
12	16.1420	7.82	9.74	17.56	50.00	-32.44	AVG

Note:

1. Result = Reading + Correct Factor.
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 200 Hz (9 kHz ~ 150 kHz), 9 kHz (150 kHz ~ 30 MHz).
4. Step size: 80 Hz (0.009 MHz ~ 0.15 MHz), 4 kHz (0.15 MHz ~ 30 MHz), Scan time: auto.

Note: All the modes have been tested, only the worst data was recorded in the report.

9. ANTENNA REQUIREMENTS

APPLICABLE REQUIREMENTS

Please refer to FCC §15.203

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

RESULTS

Complies

END OF REPORT