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TEST REPORT

Report No.: CTC2024214212

FCC ID.....: XUJX431PROV5

Applicant.....: Launch Tech Co., Ltd.

Address.....: Launch Industrial Park, North of Wuhe Avenue, Banxuegang, Longgang, Shenzhen, Guangdong, P.R. China

Manufacturer.....: Launch Tech Co., Ltd.

Address.....: Launch Industrial Park, North of Wuhe Avenue, Banxuegang, Longgang, Shenzhen, Guangdong, P.R. China

Product Name.....: AUTO Smart Diagnostic Tool

Trade Mark.....: LAUNCH

Model/Type reference.....: OADD-PO0805A, OADD-PO1005A

Listed Model(s): X-431 PRO3 APEX, X-431 V+ SmartLink HD, X-431 PRO3S+ SmartLink HD, X-431 PRO3 ACE, X-431 PRO3(PRO3S+ V5.0), X-431 PRO3(PRO3S+ V5), X-431 PRO5, X-431 PRO3(PRO3S+ ELITE), X-431 PRO3 V+ ELITE, X-431 PRO3 LINK HD, X-431 PRO(PROS V5.0), X-431 PRO(PROS V5), X-431 PRO DYN0, X-431 PRO TT, X-431 PRO(IMMO ELITE), X-431 PRO(IMMO PLUS)

Standard.....: FCC CFR Title 47 Part 15 Subpart C Section 15.247

Date of receipt of test sample....: Sept. 02, 2024

Date of testing.....: Apr. 14, 2021 ~ Jul. 06, 2021
Sept. 02, 2024 ~ Sept. 20, 2024

Date of issue.....: Oct. 16, 2024

Result.....: PASS

Compiled by:

(Printed name+signature) Jim Jiang

Supervised by:

(Printed name+signature) Eric Zhang

Approved by:

(Printed name+signature) Totti Zhao

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1. TEST SUMMARY

1.1. Test Standards

The tests were performed according to following standards:

FCC Rules Part 15.247: Operation within the bands of 902-928MHz, 2400-2483.5MHz, and 5725-5850MHz.

RSS-247 Issue 3: Standard Specifications for Frequency Hopping Systems (FHSs) and Digital Transmission Systems (DTs) Operating in the Bands 902-928MHz, 2400-2483.5MHz and 5725-5850MHz.

ANSI C63.10-2013: American National Standard for Testing Unlicensed Wireless Devices.

1.2. Report version

Revised No.	Report No.	Date of issue	Description
01	CTC2024214212	Oct. 16, 2024	On the basis of the original report CTC20210728E12, update product model, battery factory and adapter, small changes in the mainboard. Retest conducted emission and radiated spurious emission (below 1GHz). Other data refer to the original report.



1.3. Test Description

FCC Part 15 Subpart C (15.247)/ RSS-247 Issue 3				
Test Item	Standard Section		Result	Test Engineer
	FCC	IC		
Antenna Requirement	15.203	/	Pass	Rod Luo
Conducted Emission	15.207	RSS-Gen 8.8	Pass	Jim Jiang
Restricted Bands	15.205	RSS-Gen 8.10	Pass	Rod Luo
Hopping Channel Separation	15.247(a)(1)	RSS-247 5.1 (b)	Pass	Rod Luo
Dwell Time	15.247(a)(iii)	RSS-247 5.1 (d)	Pass	Rod Luo
Peak Output Power	15.247(b)(1)	RSS-247 5.4 (b)	Pass	Rod Luo
Number of Hopping Frequency	15.247(a)(iii)	RSS-247 5.1 (d)	Pass	Rod Luo
Conducted Band Edge and Spurious Emissions	15.247(d)	RSS-247 5.5	Pass	Rod Luo
Radiated Band Edge and Spurious Emissions	15.205&15.209&15.247(d)	RSS-247 5.5	Pass	Rod Luo
Radiated Spurious Emission	15.247(d)&15.209	RSS-247 5.5&RSS-Gen 8.9	Pass	Rod Luo
20dB Bandwidth	15.247(a)	RSS-247 5.1 (b)	Pass	Rod Luo

Note: The measurement uncertainty is not included in the test result.



1.4. Test Facility

CTC Laboratories, Inc.

Add: Room 101 Building B, No. 7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China

Laboratory accreditation

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L5365

CTC Laboratories, Inc. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025:2017 General Requirements) for the Competence of Testing and Calibration Laboratories.

A2LA-Lab Cert. No.: 4340.01

CTC Laboratories, Inc. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

Industry Canada (Registration No.: 9783A, CAB Identifier: CN0029)

CTC Laboratories, Inc. EMC Laboratory has been registered by Certification and Engineer Bureau of Industry Canada for the performance of with Registration NO.: 9783A on Jan, 2016.

FCC (Registration No.: 951311, Designation Number CN1208)

CTC Laboratories, Inc. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 951311, Aug 26, 2017.

1.5. Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 2" and is documented in the CTC Laboratories, Inc. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Below is the best measurement capability for CTC Laboratories, Inc.

Test Items	Measurement Uncertainty	Notes
Transmitter power conducted	0.42 dB	(1)
Transmitter power Radiated	2.14 dB	(1)
Conducted spurious emissions 9kHz~40GHz	1.60 dB	(1)
Radiated spurious emissions 9kHz~40GHz	2.20 dB	(1)
Conducted Emissions 9kHz~30MHz	3.08 dB	(1)
Radiated Emissions 30~1000MHz	4.51 dB	(1)
Radiated Emissions 1~18GHz	5.84 dB	(1)
Radiated Emissions 18~40GHz	6.12 dB	(1)
Occupied Bandwidth	-----	(1)

Note (1): This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=1.96$.

1.6. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	21°C ~ 27°C
Relative Humidity:	40% ~ 60%
Air Pressure:	101kPa

2. GENERAL INFORMATION

2.1. Client Information

Applicant:	Launch Tech Co., Ltd.
Address:	Launch Industrial Park, North of Wuhe Avenue, Banxuegang, Long-gang, Shenzhen, Guangdong, P.R. China
Manufacturer:	Launch Tech Co., Ltd.
Address:	Launch Industrial Park, North of Wuhe Avenue, Banxuegang, Long-gang, Shenzhen, Guangdong, P.R. China

2.2. General Description of EUT

Product Name:	AUTO Smart Diagnostic Tool
Trade Mark:	LAUNCH
Model/Type reference:	OADD-PO0805A, OADD-PO1005A
Listed Model(s):	10 inch display: X-431 PRO3 APEX, X-431 V+ SmartLink HD, X-431 PRO3S+ SmartLink HD, X-431 PRO3 ACE, X-431 PRO3(PRO3S+ V5.0), X-431 PRO3(PRO3S+ V5), X-431 PRO5, X-431 PRO3(PRO3S+ ELITE), X-431 PRO3 V+ ELITE, X-431 PRO3 LINK HD 8 inch display: X-431 PRO(PROS V5.0), X-431 PRO(PROS V5), X-431 PRO DYNO, X-431 PRO TT, X-431 PRO(IMMO ELITE), X-431 PRO(IMMO PLUS)
Model Difference:	All these models are identical in the same PCB, Layout and electrical circuit. The only difference is screen size, model name, colour of shell and rubber sleeve, antenna position, OADD-PO1005A with an roll guard, OADD-PO0805A does without a roll guard.
Power supply:	5Vdc/5A from AC/DC Adapter 7.6Vdc from 6300mAh Li-ion Battery
Adapter model:	XDJ361R-050500 Input: 100-240V~ 50/60Hz 0.9A Output: 5Vdc/5A
Hardware version:	BSK-Y12-V3
Software version:	V1.1.4
Bluetooth 5.1/EDR	
Modulation:	GFSK, $\pi/4$ -DQPSK, 8-DPSK
Operation frequency:	2402MHz~2480MHz
Channel number:	79
Channel separation:	1MHz
Antenna type:	FPC Antenna
OADD-PO1005A Antenna gain:	2dBi
OADD-PO0805A Antenna gain:	2.3dBi

Note: OADD-PO0805A, OADD-PO1005A has been testes, Just the worst case recorded in report.

2.3. Accessory Equipment information

Equipment Information			
Name	Model	S/N	Manufacturer
/	/	/	/
/	/	/	/
Cable Information			
Name	Shielded Type	Ferrite Core	Length
/	/	/	/
Test Software Information			
Name	/	/	/
Engineering mode	/	/	/

2.4. Operation state

Operation Frequency List: The EUT has been tested under typical operating condition. The Applicant provides communication tools software to control the EUT for staying in continuous transmitting and receiving mode for testing. BT EDR, 79 channels are provided to the EUT. Channels 00/39/78 were selected for testing.

Operation Frequency List:

Channel	Frequency (MHz)
00	2402
01	2403
:	:
38	2440
39	2441
40	2442
:	:
77	2479
78	2480

Note: The display in grey were the channel selected for testing.

Test mode

For RF test items:
The engineering test program was provided and enabled to make EUT continuous transmit
For AC power line conducted emissions:
The EUT was set to connect with the Bluetooth instrument under large package sizes transmission.
For Radiated spurious emissions test item:
The engineering test program was provided and enabled to make EUT continuous transmit. The EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report.



2.5. Measurement Instruments List

RF Test System					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated Until
1	Spectrum Analyzer	R&S	FSV40-N	101331	Mar. 21, 2025
2	MXA Signal Analyzer	Keysight	N9020A	MY46471737	Dec. 12, 2024
3	MXG Vector Signal Generator	Agilent	N5182A	MY47420864	Dec. 12, 2024
4	PSG Analog Signal Generator	Agilent	E8257D	MY46521908	Dec. 12, 2024
5	EXG Analog Signal Generator	Keysight	N5173B	MY59100842	Dec. 12, 2024
6	MXG Vector Signal Generator	Keysight	N5182B	MY59100212	Dec. 12, 2024
7	USB Wideband Power Sensor	Keysight	U2021XA	MY55130004	Mar. 21, 2025
8	USB Wideband Power Sensor	Keysight	U2021XA	MY55130006	Mar. 21, 2025
9	Wideband Radio Communication Tester	R&S	CMW500	102414	Dec. 12, 2024
10	High and low temperature test chamber	ESPEC	MT3035	/	Mar. 21, 2025

Radiated Emission (3m chamber 3)					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated Until
1	Trilog-Broadband Antenna	Schwarzbeck	VULB 9163	01026	Dec. 18, 2024
2	Horn Antenna	Schwarzbeck	BBHA 9120D	9120D-647	Dec. 01, 2024
3	Test Receiver	Keysight	N9038A	MY56400071	Dec. 12, 2024
4	Broadband Amplifier	SCHWARZBECK	BBV9743B	259	Dec. 12, 2024
5	Mirowave Broadband Amplifier	SCHWARZBECK	BBV9718C	111	Dec. 12, 2024
6	3m chamber 3	YIHENG	EE106	/	Aug. 28, 2026
7	Test Software	FARA	EZ-EMC	FA-03A2	/

Conducted Emission					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated Until
1	LISN	R&S	ENV216	101112	Dec. 12, 2024
2	LISN	R&S	ENV216	101113	Dec. 12, 2024
3	EMI Test Receiver	R&S	ESCS30	100353	Dec. 12, 2024
4	ISN CAT6	Schwarzbeck	NTFM 8158	CAT6-8158-0046	Dec. 12, 2024
5	ISN CAT5	Schwarzbeck	NTFM 8158	CAT5-8158-0046	Dec. 12, 2024
6	Test Software	R&S	EMC32	6.10.10	/

Note: 1. The Cal. Interval was one year.

2. The Cal. Interval was three year of the chamber.

3. The cable loss has calculated in test result which connection between each test instruments.

3. TEST ITEM AND RESULTS

3.1. Conducted Emission

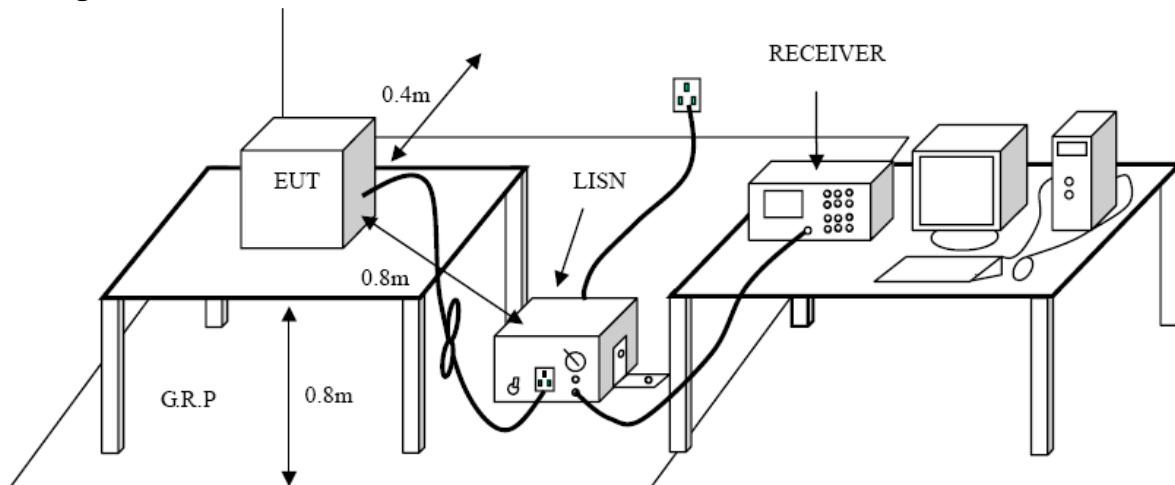
Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.207/ RSS – Gen 8.8

Frequency range (MHz)	Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

* Decreases with the logarithm of the frequency.

Test Configuration



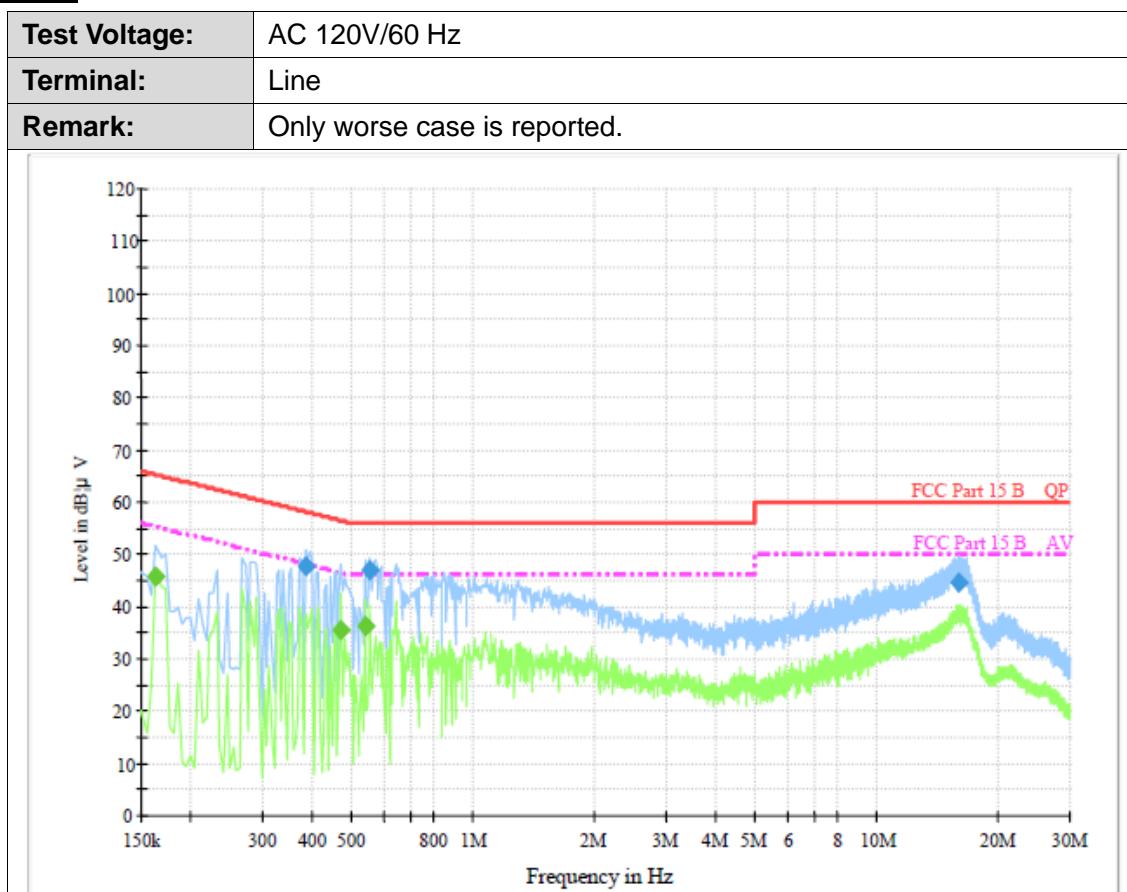
Test Procedure

1. The EUT was setup according to ANSI C63.10:2013 requirements.
2. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface.
3. The EUT and simulators are connected to the main power through a line impedances stabilization network (LISN). The LISN provides a 50ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs)
4. Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.
5. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.
6. Conducted Emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.
7. During the above scans, the emissions were maximized by cable manipulation.

Test Mode

Please refer to the clause 2.4.

Test Results



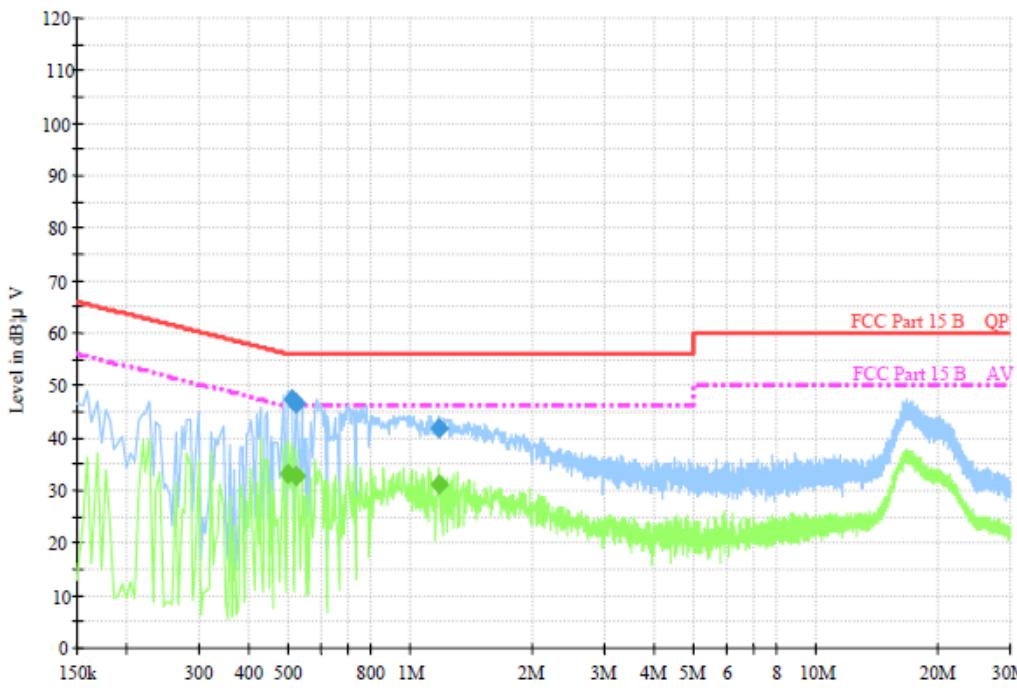
Final Measurement Detector 1

Frequency (MHz)	QuasiPeak (dBµ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµ V)	Comment
0.384000	47.8	1000.00	9.000	On	L1	9.5	10.4	58.2	
0.555000	47.0	1000.00	9.000	On	L1	9.5	9.0	56.0	
15.967500	44.5	1000.00	9.000	On	L1	9.7	15.5	60.0	

Final Measurement Detector 2

Frequency (MHz)	Average (dBµ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµ V)	Comment
0.163500	45.9	1000.00	9.000	On	L1	9.5	9.4	55.3	
0.469500	35.6	1000.00	9.000	On	L1	9.5	10.9	46.5	
0.537000	36.5	1000.00	9.000	On	L1	9.5	9.5	46.0	

Emission Level= Read Level+ Correct Factor

Test Voltage:	AC 120V/60 Hz																																								
Terminal:	Neutral																																								
Remark:	Only worse case is reported.																																								
																																									
Final Measurement Detector 1 <table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>QuasiPeak (dBμ V)</th> <th>Meas. Time (ms)</th> <th>Bandwidth (kHz)</th> <th>Filter</th> <th>Line</th> <th>Corr. (dB)</th> <th>Margin (dB)</th> <th>Limit (dBμ V)</th> <th>Comment</th> </tr> </thead> <tbody> <tr> <td>0.510000</td> <td>47.2</td> <td>1000.00</td> <td>9.000</td> <td>On</td> <td>N</td> <td>9.4</td> <td>8.8</td> <td>56.0</td> <td></td> </tr> <tr> <td>0.523500</td> <td>46.5</td> <td>1000.00</td> <td>9.000</td> <td>On</td> <td>N</td> <td>9.4</td> <td>9.5</td> <td>56.0</td> <td></td> </tr> <tr> <td>1.176000</td> <td>41.7</td> <td>1000.00</td> <td>9.000</td> <td>On</td> <td>N</td> <td>9.5</td> <td>14.3</td> <td>56.0</td> <td></td> </tr> </tbody> </table>		Frequency (MHz)	QuasiPeak (dB μ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)	Comment	0.510000	47.2	1000.00	9.000	On	N	9.4	8.8	56.0		0.523500	46.5	1000.00	9.000	On	N	9.4	9.5	56.0		1.176000	41.7	1000.00	9.000	On	N	9.5	14.3	56.0	
Frequency (MHz)	QuasiPeak (dB μ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)	Comment																																
0.510000	47.2	1000.00	9.000	On	N	9.4	8.8	56.0																																	
0.523500	46.5	1000.00	9.000	On	N	9.4	9.5	56.0																																	
1.176000	41.7	1000.00	9.000	On	N	9.5	14.3	56.0																																	
Final Measurement Detector 2 <table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>Average (dBμ V)</th> <th>Meas. Time (ms)</th> <th>Bandwidth (kHz)</th> <th>Filter</th> <th>Line</th> <th>Corr. (dB)</th> <th>Margin (dB)</th> <th>Limit (dBμ V)</th> <th>Comment</th> </tr> </thead> <tbody> <tr> <td>0.496500</td> <td>33.1</td> <td>1000.00</td> <td>9.000</td> <td>On</td> <td>N</td> <td>9.4</td> <td>13.0</td> <td>46.1</td> <td></td> </tr> <tr> <td>0.523500</td> <td>32.6</td> <td>1000.00</td> <td>9.000</td> <td>On</td> <td>N</td> <td>9.4</td> <td>13.4</td> <td>46.0</td> <td></td> </tr> <tr> <td>1.171500</td> <td>31.3</td> <td>1000.00</td> <td>9.000</td> <td>On</td> <td>N</td> <td>9.5</td> <td>14.7</td> <td>46.0</td> <td></td> </tr> </tbody> </table>		Frequency (MHz)	Average (dB μ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)	Comment	0.496500	33.1	1000.00	9.000	On	N	9.4	13.0	46.1		0.523500	32.6	1000.00	9.000	On	N	9.4	13.4	46.0		1.171500	31.3	1000.00	9.000	On	N	9.5	14.7	46.0	
Frequency (MHz)	Average (dB μ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)	Comment																																
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1.171500	31.3	1000.00	9.000	On	N	9.5	14.7	46.0																																	
Emission Level= Read Level+ Correct Factor																																									

3.2. Radiated Emission

Limit

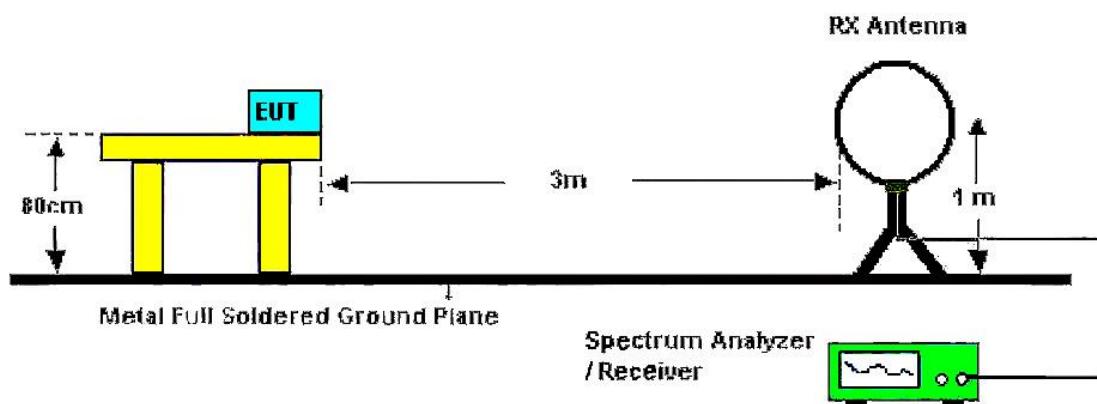
FCC CFR Title 47 Part 15 Subpart C Section 15.209/ RSS – Gen 8.9

Frequency	Limit (dBuV/m @ 3m)	Value
30 MHz ~ 88 MHz	40.00	Quasi-peak
88 MHz ~ 216 MHz	43.50	Quasi-peak
216 MHz ~ 960 MHz	46.00	Quasi-peak
960 MHz ~ 1 GHz	54.00	Quasi-peak
Above 1 GHz	54.00	Average
	74.00	Peak

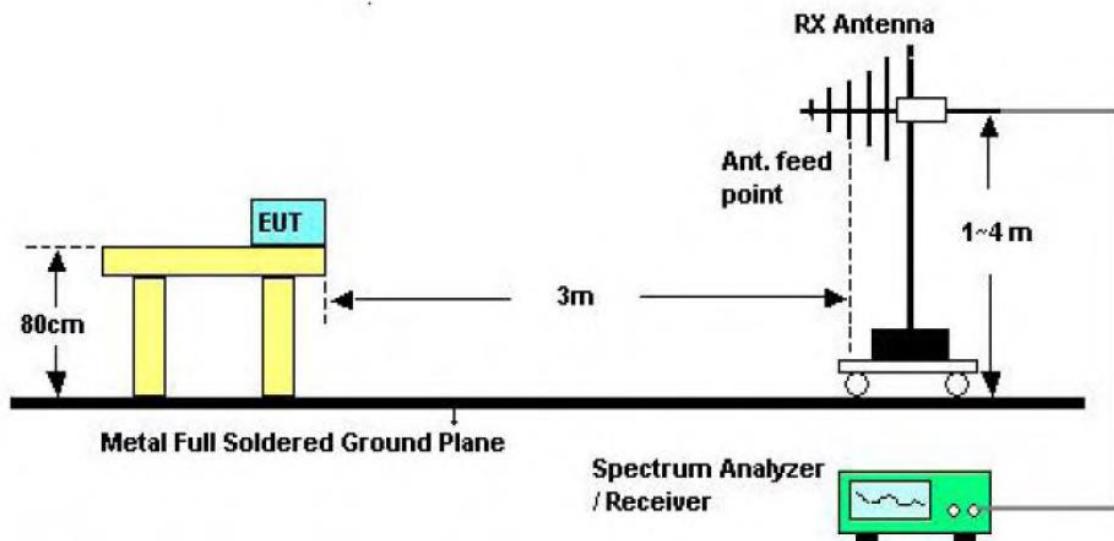
Note:

- (1) The tighter limit applies at the band edges.
- (2) Emission Level (dBuV/m)=20log Emission Level (uV/m).

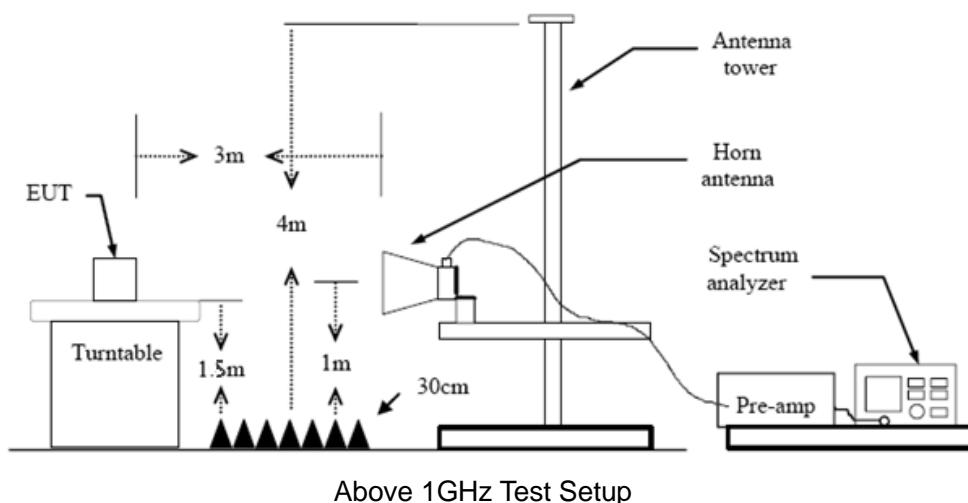
Test Configuration



Below 30MHz Test Setup



Below 1000MHz Test Setup



Test Procedure

1. The EUT was setup and tested according to ANSI C63.10:2013
2. The EUT is placed on a turn table which is 0.8 meter above ground for below 1 GHz, and 1.5 m for above 1 GHz. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
3. The EUT was set 3 meters from the receiving antenna, which was mounted on the top of a variable height antenna tower.
4. For each suspected emission, 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 to comply with the guidelines.
5. Set to the maximum power setting and enable the EUT transmit continuously.
6. Use the following spectrum analyzer settings
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Below 1 GHz:
RBW=120 kHz, VBW=300 kHz, Sweep=auto, Detector function=peak, Trace=max hold;
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.
 - (3) From 1 GHz to 10th harmonic:
RBW=1MHz, VBW=3MHz Peak detector for Peak value.
RBW=1MHz, VBW \geq 1/T Peak detector for Average value.

Note 1: For the 1/T& Duty Cycle please refer to clause 3.10 Duty Cycle.

Test Mode

Please refer to the clause 2.4.

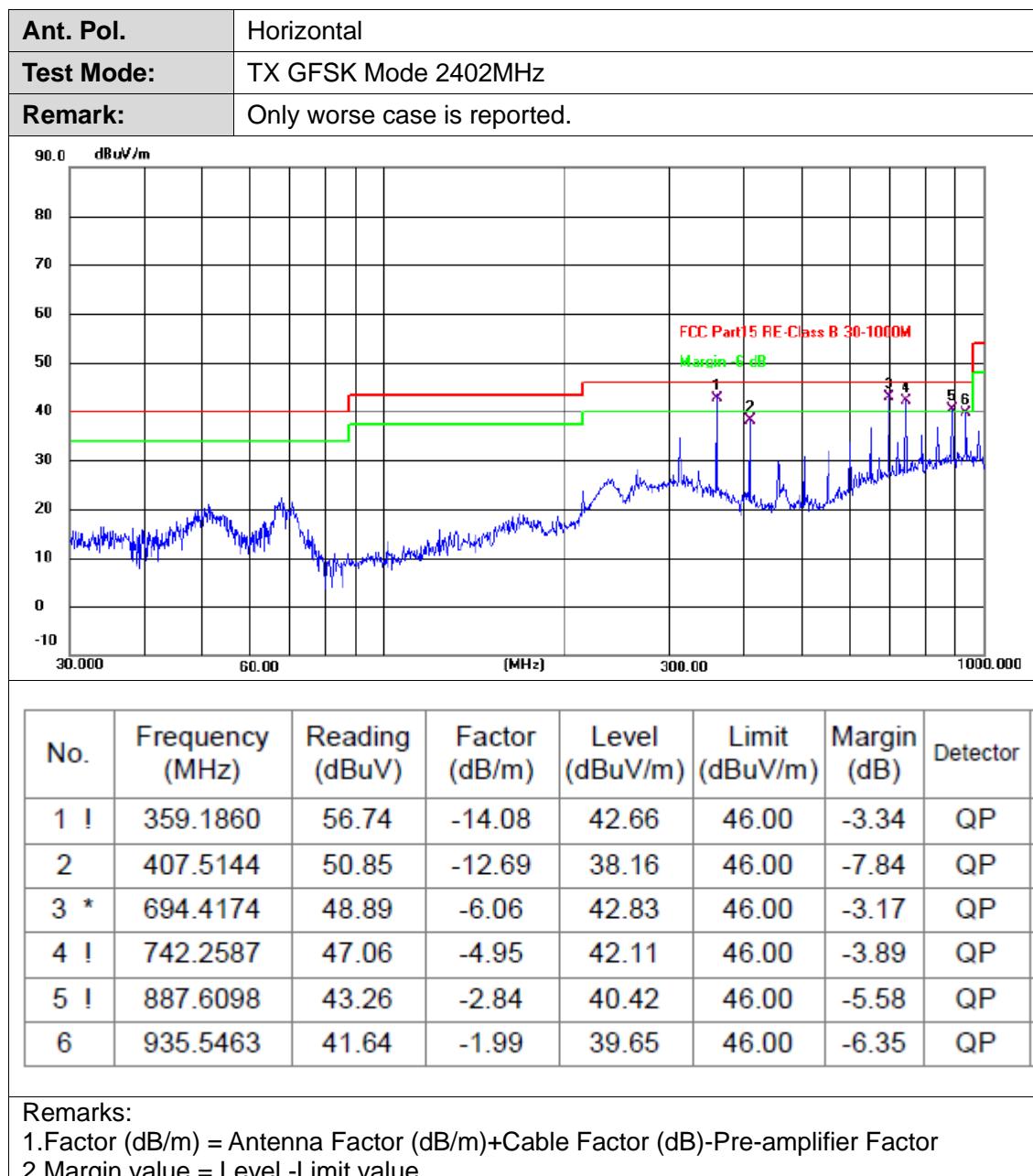
Test Result

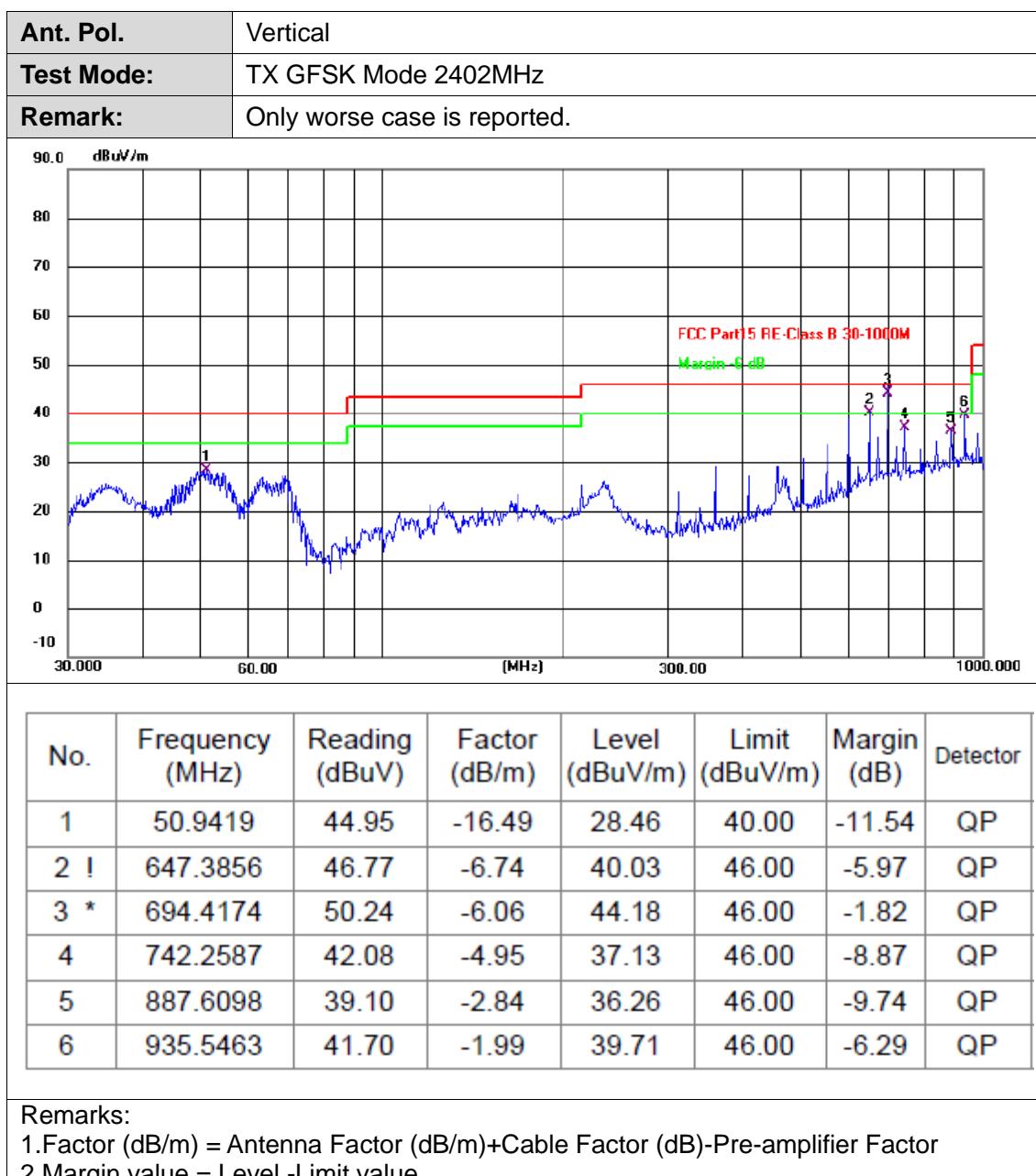
9 KHz-30 MHz

From 9 KHz to 30 MHz: Conclusion: PASS

Note: The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

30MHz-1GHz

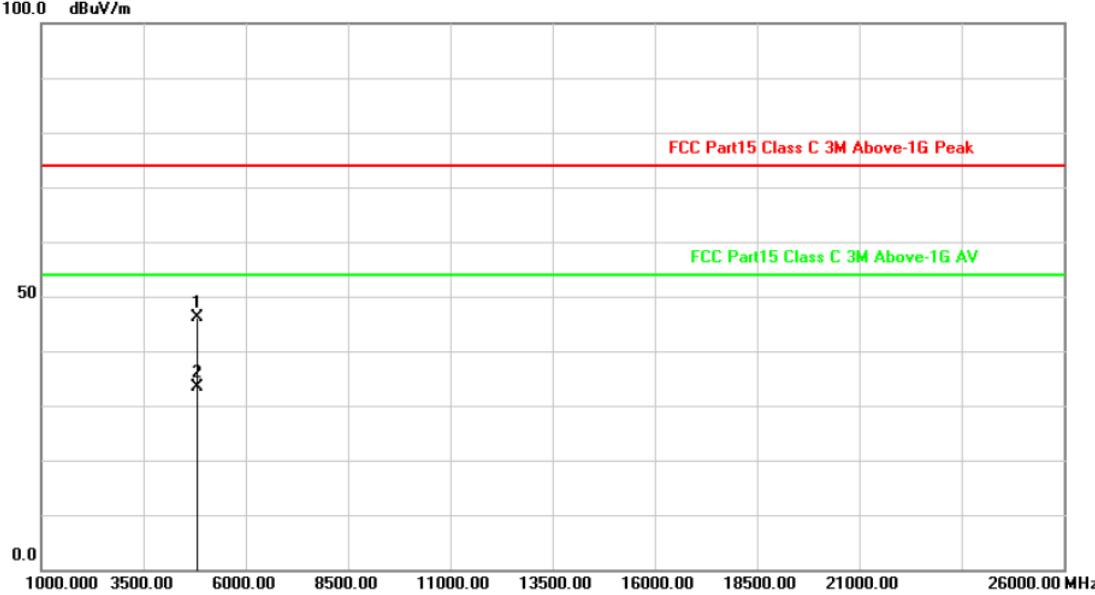


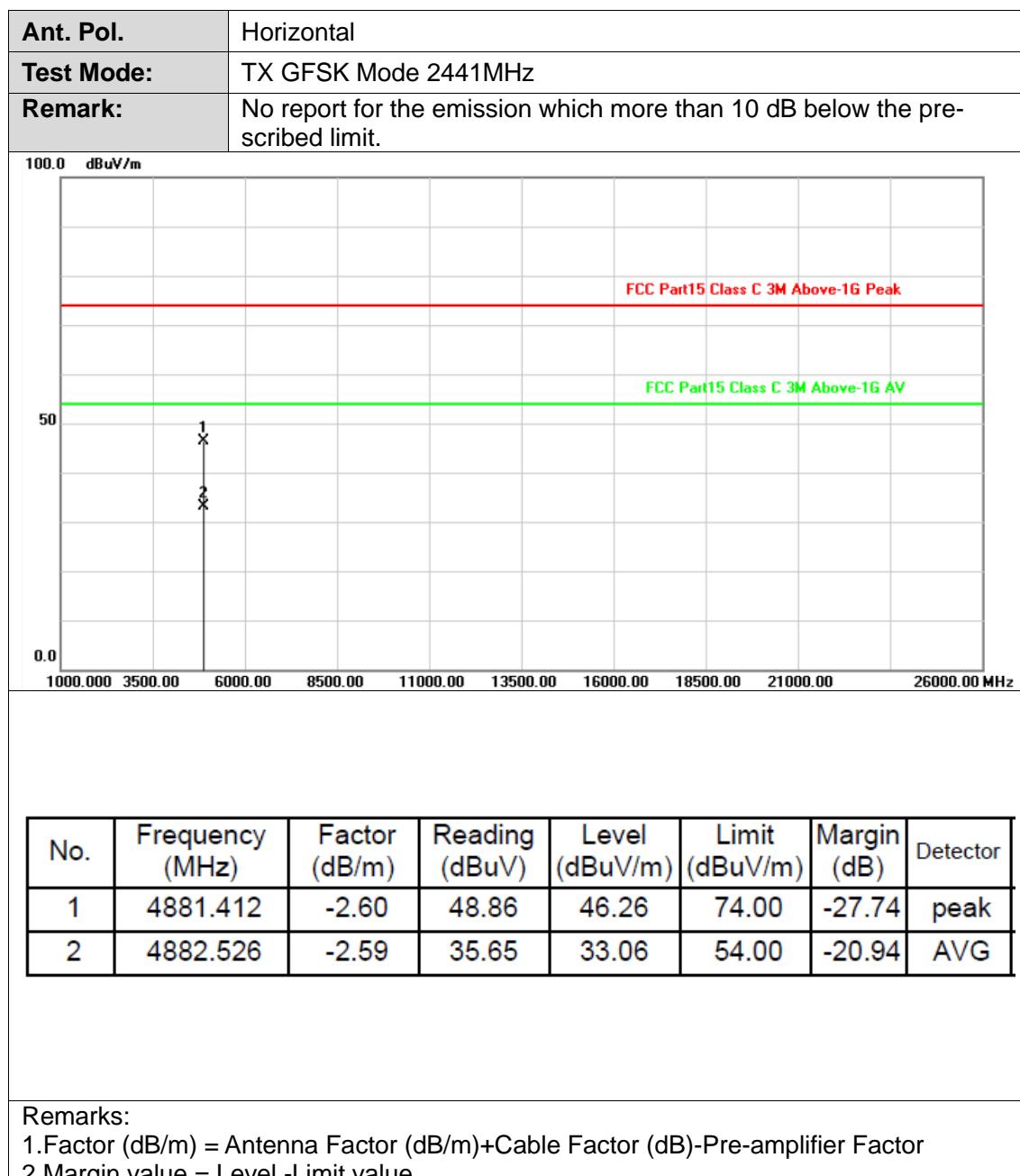


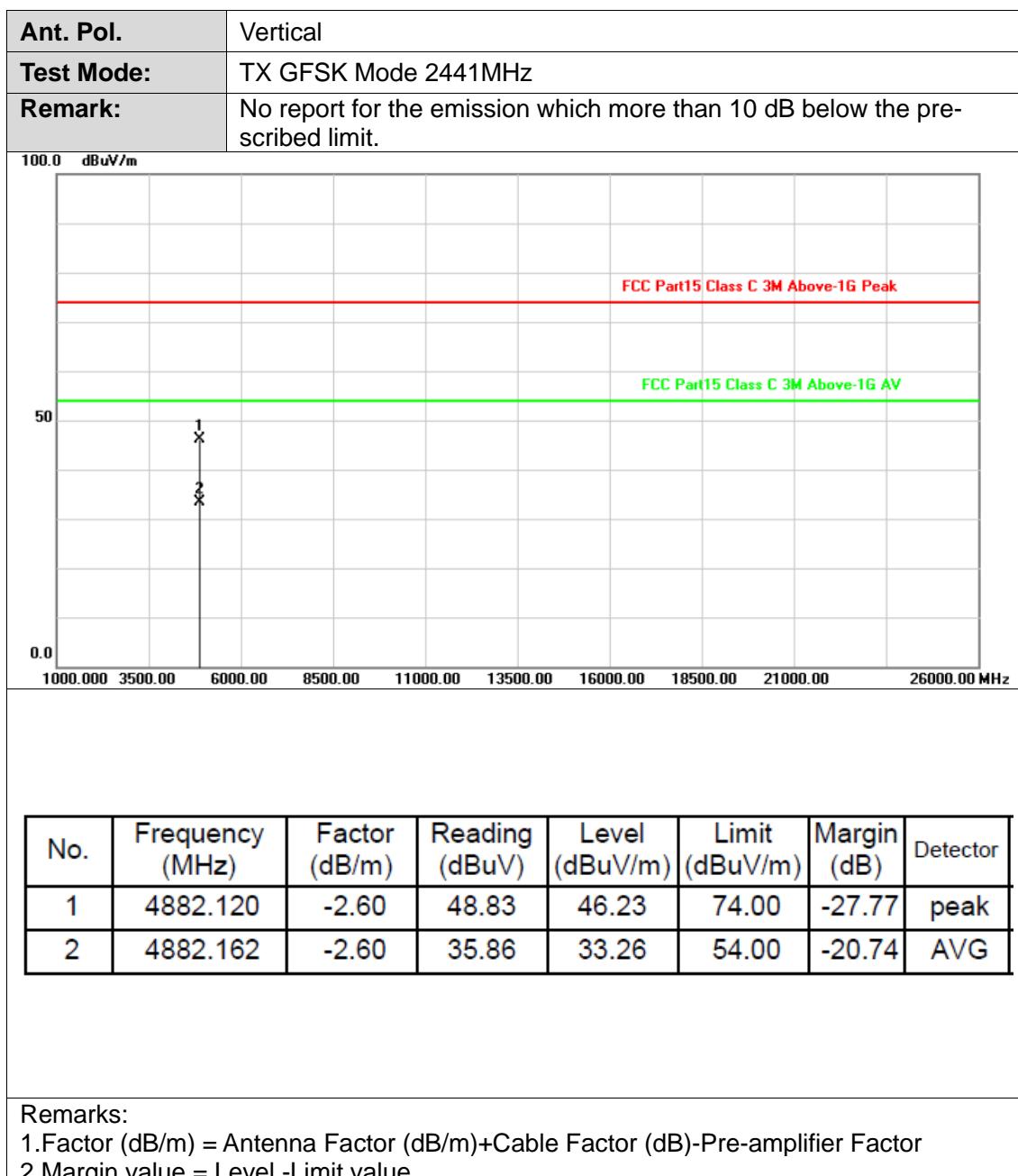


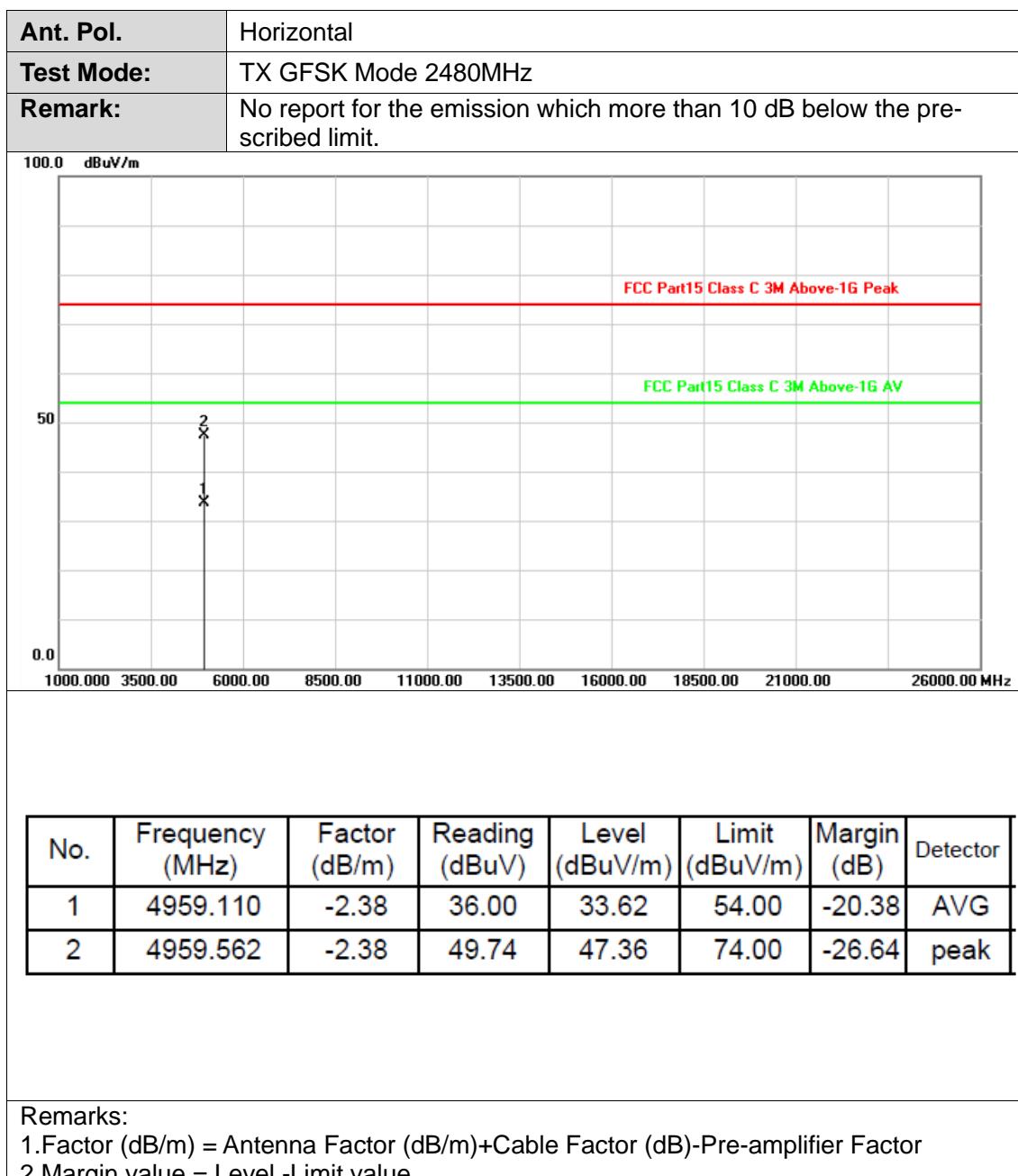
Above 1GHz

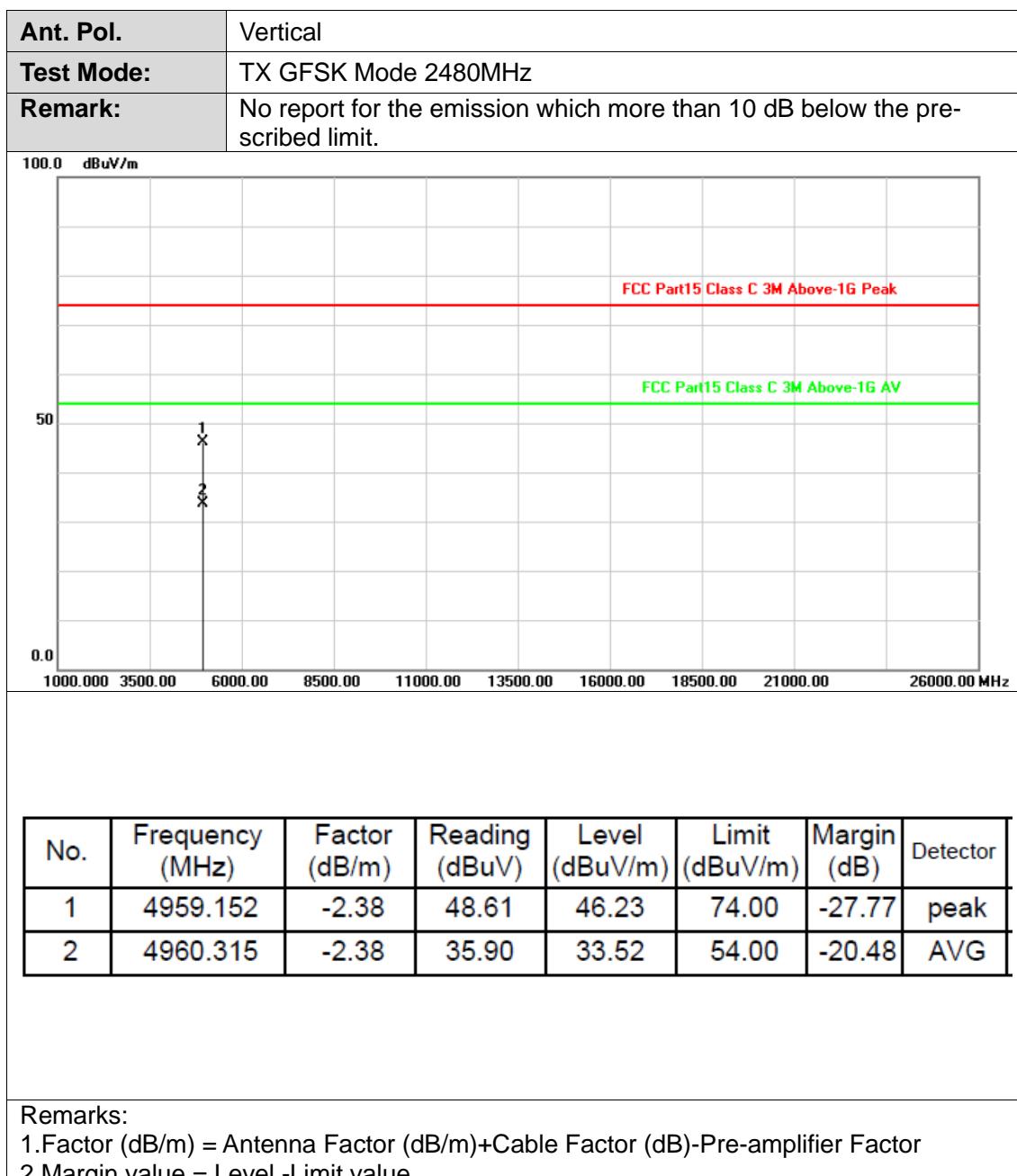
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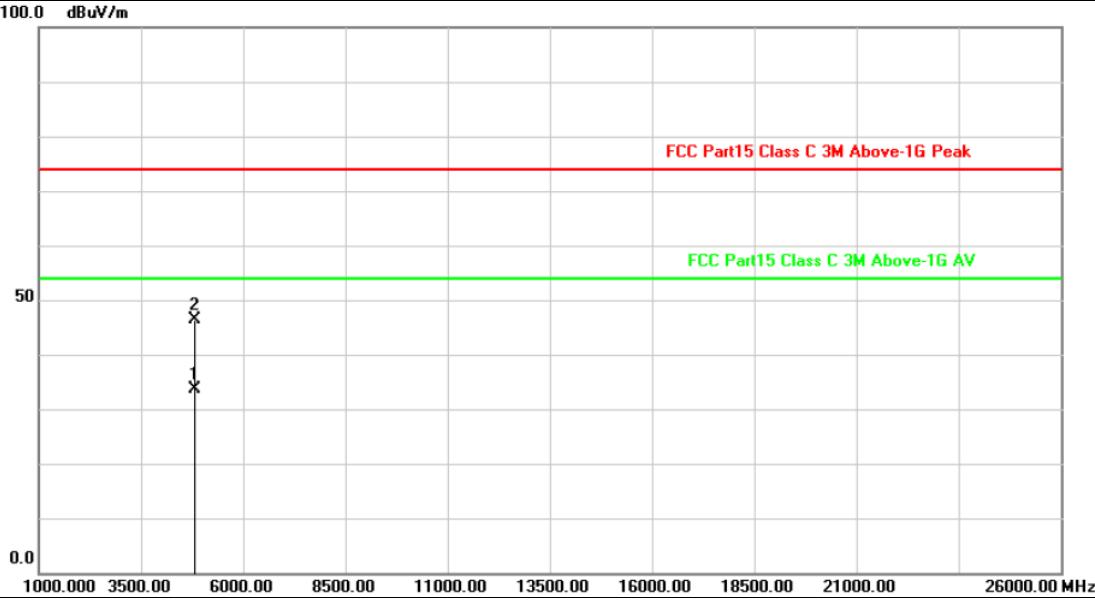
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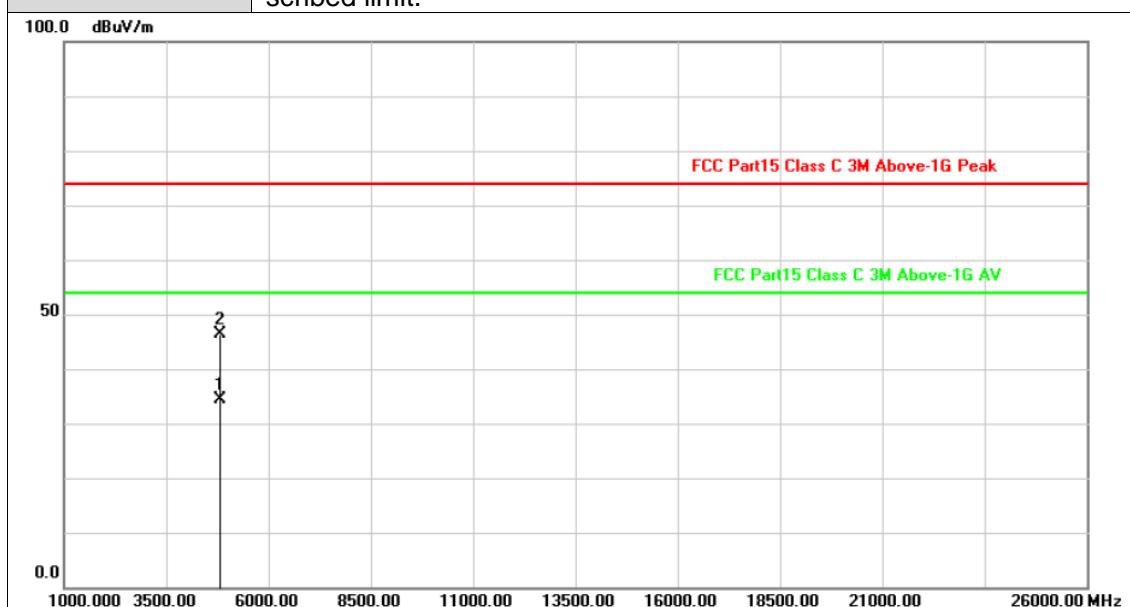


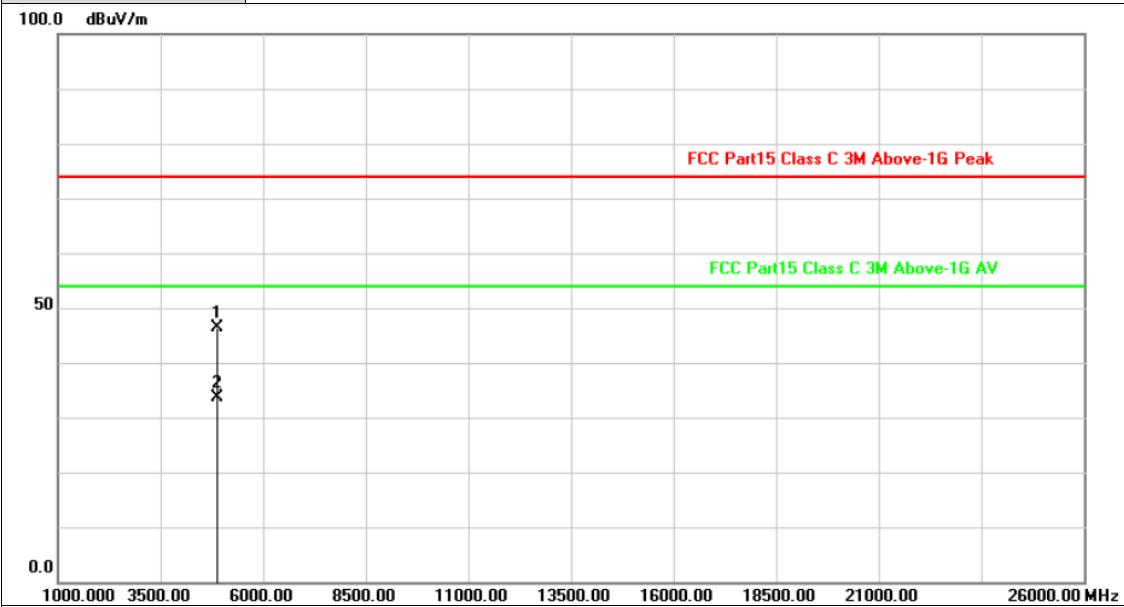


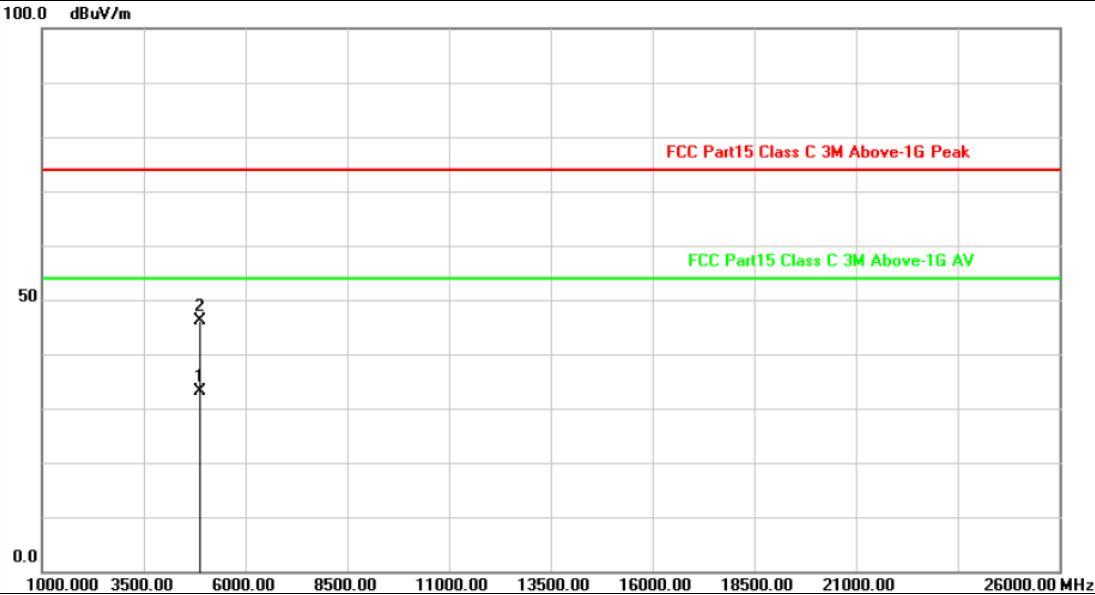




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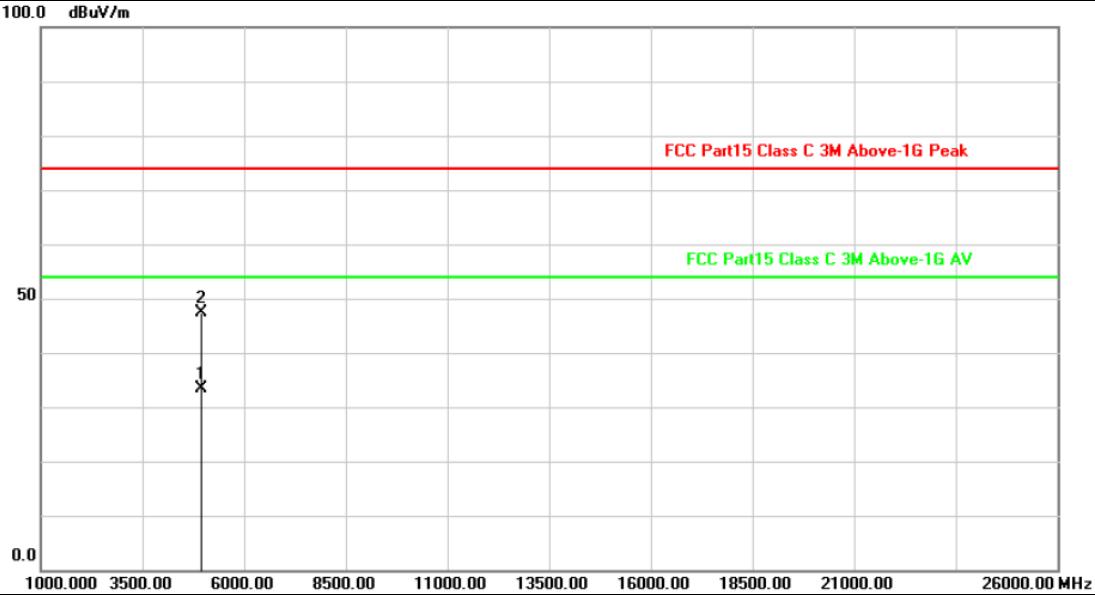
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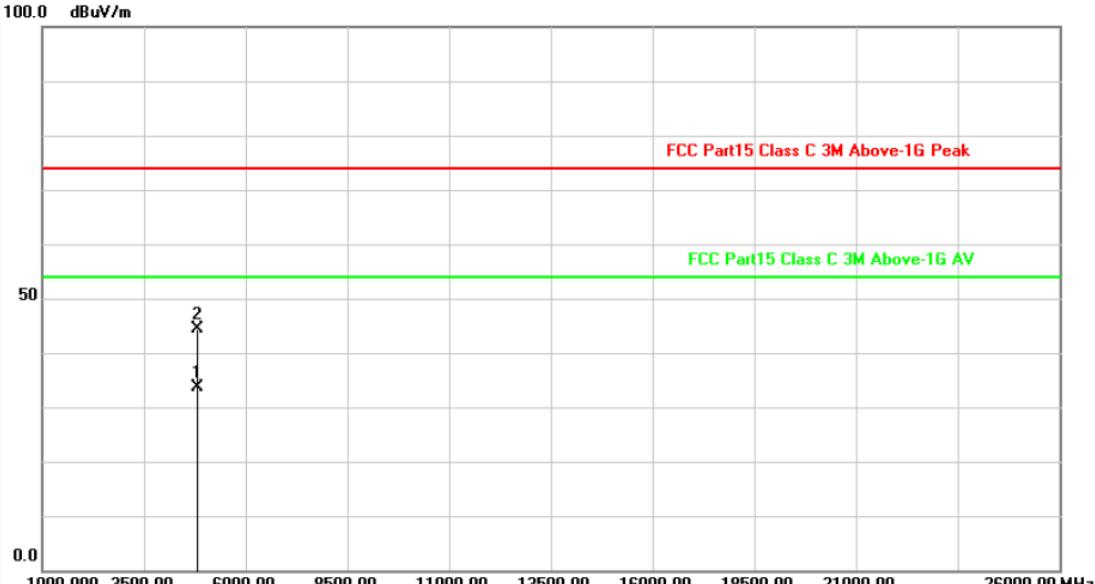
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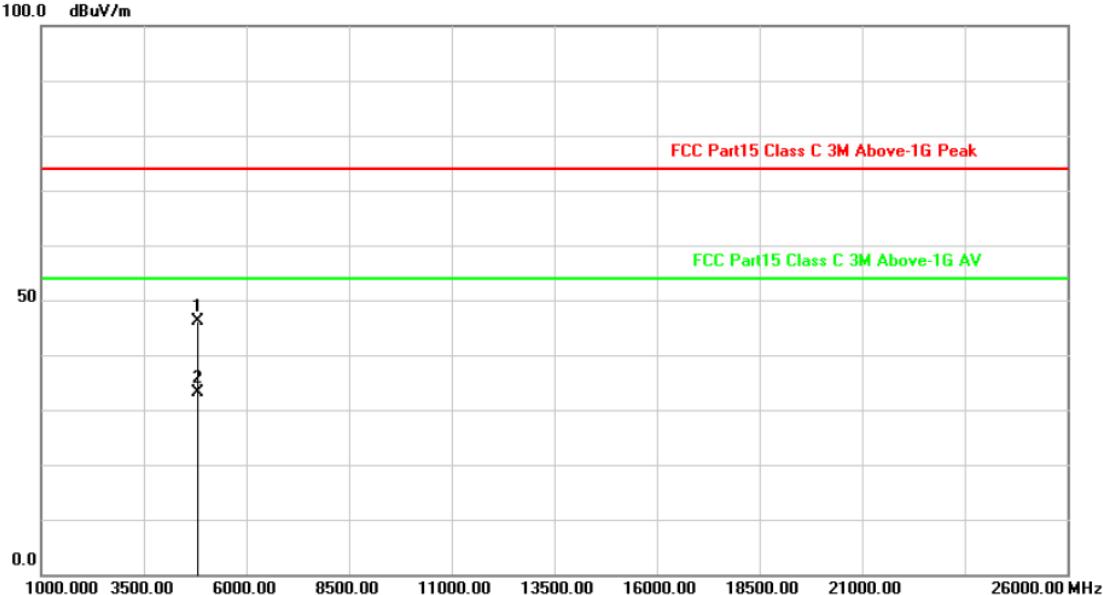
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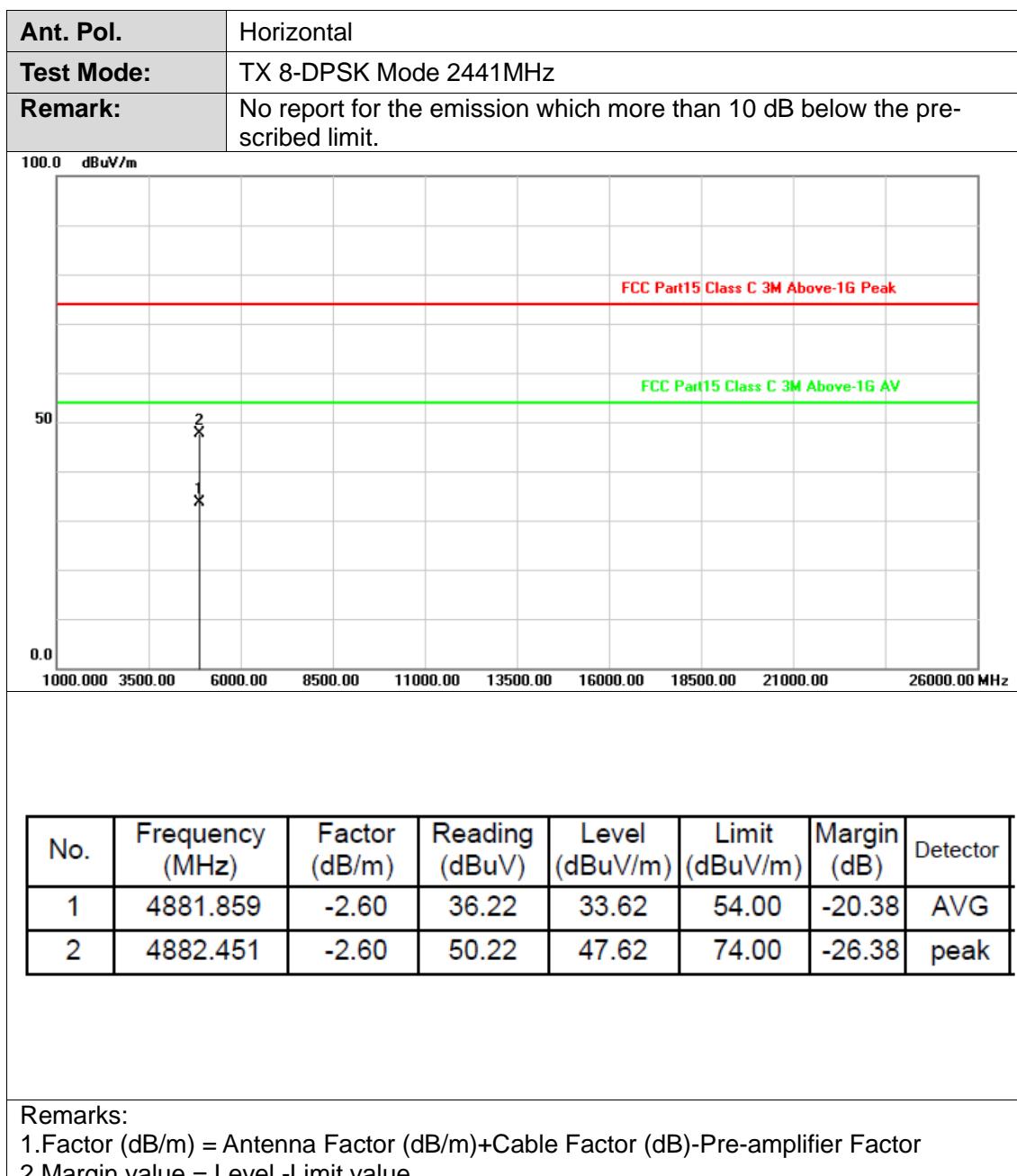


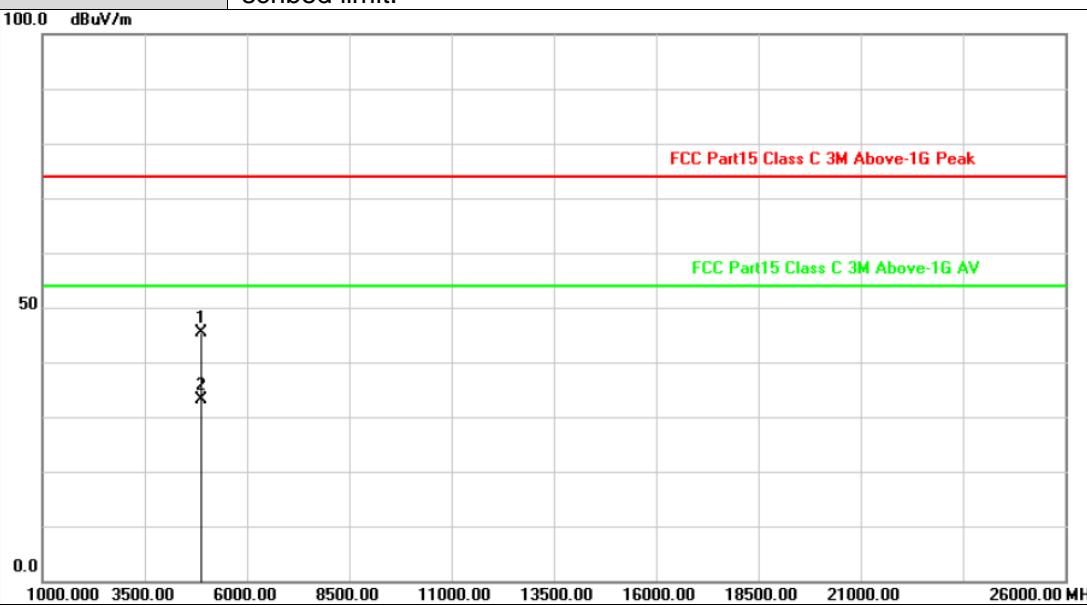
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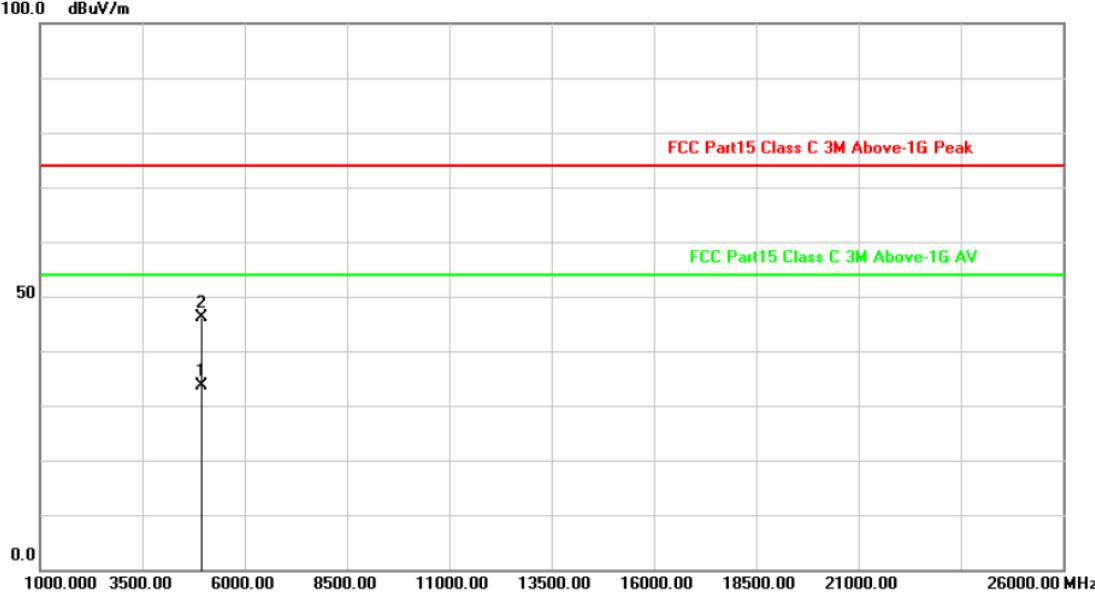
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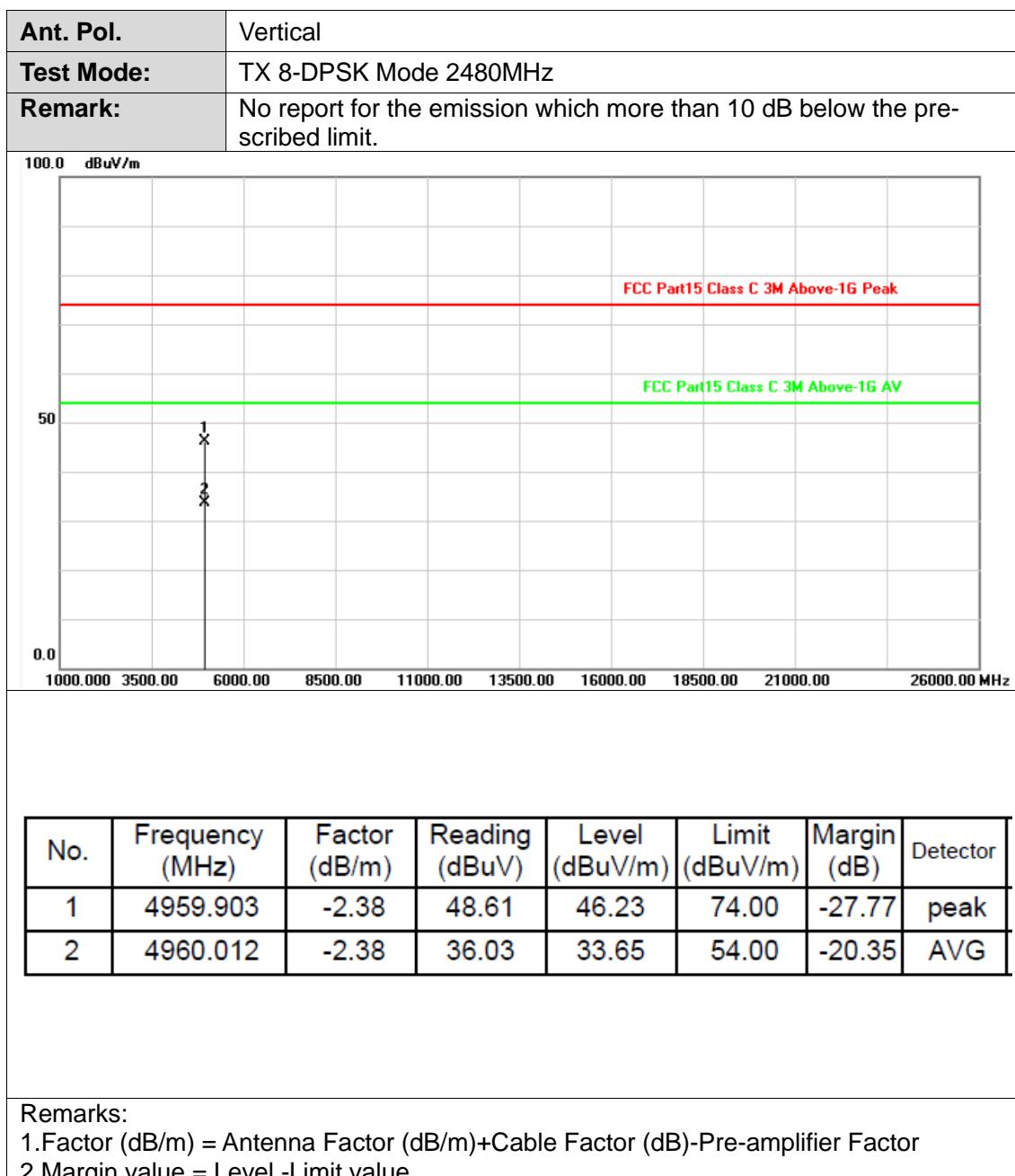
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 <p>The plot shows a spectral emission mask for FCC Part 15 Class C. The Y-axis is labeled 'dBuV/m' with values 0.0, 50, and 100.0. The X-axis is labeled 'MHz' with values from 1000.000 to 26000.00. A red horizontal line at 74.00 dBuV/m is labeled 'FCC Part15 Class C 3M Above-1G Peak'. A green horizontal line at 54.00 dBuV/m is labeled 'FCC Part15 Class C 3M Above-1G AV'. Two vertical lines are marked with '1' and '2' on the left: '1' is at 4882.022 MHz with a reading of 47.86 dBuV; '2' is at 4882.041 MHz with a reading of 35.81 dBuV. The plot area has a grid background.</p>																															
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Ant. Pol.	Horizontal																														
Test Mode:	TX 8-DPSK Mode 2480MHz																														
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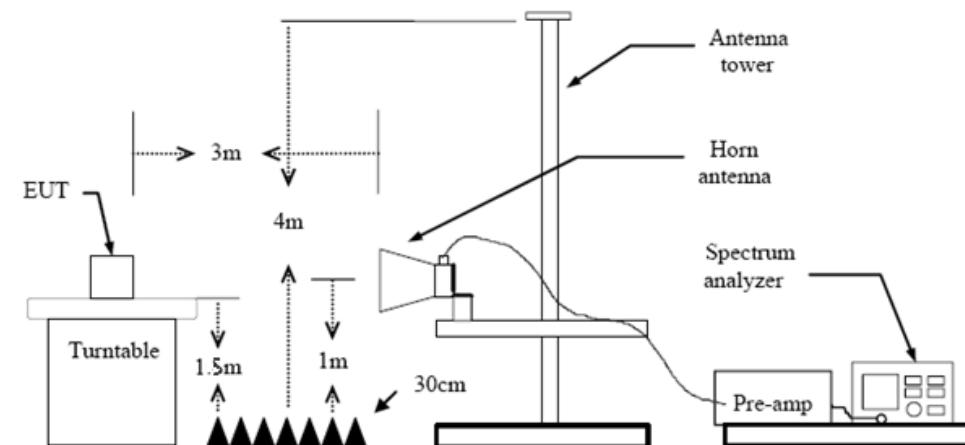
3.3. Band Edge Emissions (Radiated)

Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (d):

Restricted Frequency Band (MHz)	(dBuV/m)(at 3m)	
	Peak	Average
2310 ~ 2390	74	54
2483.5 ~ 2500	74	54

Test Configuration



Test Procedure

1. The EUT was setup and tested according to ANSI C63.10:2013 requirements.
2. The EUT is placed on a turn table which is 1.5 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
3. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.
4. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10:2013 on radiated measurement.
5. The receiver set as follow:
RBW=1MHz, VBW=3MHz Peak detector for Peak value.
RBW=1MHz, VBW see note 1 with Peak Detector for Average Value.

Note 1: For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T video bandwidth with peak detector for average measurements. For the Duty Cycle please refer to clause 3.9 Duty Cycle.

Test Mode

Please refer to the clause 2.4.

Test Results

