



CTC Laboratories, Inc.

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TEST REPORT

Report No.....: CTC20211576E03
FCC ID.....: 2A3ABVB1-LH3200W
Applicant: FOXSTAR TECHNOLOGY CO., LTD
Address.....: LONGSHENG ROAD, Optronic Industry Cluster
Area Nantang City, 473000, P.R., CHINA
Manufacturer.....: FOXSTAR TECHNOLOGY CO., LTD
Address.....: LONGSHENG ROAD, Optronic Industry Cluster
Area Nantang City, 473000, P.R., CHINA
Product Name: DLP Laser Projector
Trade Mark: VIEW MAX
Model/Type reference.....: VB1-LH3200W
Listed Model(s): Please see the page 8
Standard: FCC Part 15, Subpart E 15. 407
Date of receipt of test sample....: Sep. 22, 2021
Date of testing.....: Sep. 23, 2021 to Oct. 17, 2021
Date of issue.....: Oct. 18, 2021
Result.....: PASS

Compiled by:
(Printed name+signature) Terry Su
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Approved by:
(Printed name+signature) Walter Chen

Testing Laboratory Name.....: CTC Laboratories, Inc.
Address: 1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park,
Shenzhen, Guangdong, China

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1. TEST SUMMARY

1.1. Test Standards

The tests were performed according to following standards:

[FCC Part 15, Subpart E\(15.407\)](#) — for 802.11a/n/ac, the test procedure follows the FCC KDB 789033 D02 General UNII Test Procedures New Rules V02r01.

[RSS-247 Issue 2 February 2017](#) — Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSs) and Licence-Exempt Local Area Network (LE-LAN) Devices

[RSS-Gen](#) — General Requirements for Compliance of Radio Apparatus

1.2. Report version

Revised No.	Date of issue	Description
01	Oct. 18, 2021	Original



1.3. Test Description

FCC Part 15 Subpart E (15.407) / RSS-247 Issue 2 February 2017				
Test Item	Test require		Result	Test Engineer
	FCC	IC		
Antenna Requirement	15.203	/	Pass	Alicia Liu
Conducted Emission	15.207	RSS-Gen 8.8	Pass	Ice Lu
Band Edge Emissions	15.407(b)	RSS-247 6.2.1.2 RSS-247 6.2.2.2 RSS-247 6.2.4.2	Pass	Alicia Liu
26dB Bandwidth & 99% Bandwidth	15.407(a) (5)	RSS-247 6.2.1.2	Pass	Alicia Liu
6dB Bandwidth (only for UNII-3)	15.407(e)	RSS-247 6.2.4.1	Pass	Alicia Liu
Peak Output Power	15.407(a)	RSS-247 6.2.1.1 RSS-247 6.2.4.1	Pass	Alicia Liu
Power Spectral Density	15.407(a)	RSS-247 6.2	Pass	Alicia Liu
Transmitter Radiated Spurious Emission	15.407(b) &15.209	RSS-Gen 8.9 RSS-247 6.2.1.2 RSS-247 6.2.4.2	Pass	Alicia Liu
Frequency Stability	15.407(g)	/	Pass	Alicia Liu
Dynamic Frequency Selection (DFS)	15.407(h)	RSS-247 6.3	N/A	N/A

Note: "N/A" is not applicable.

The measurement uncertainty is not included in the test result.



1.4. Test Facility

CTC Laboratories, Inc.

Add: 1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, 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/IEC17025:2017 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

Normal Condition	Temperature	22 °C ~ 28°C
	Relative humidity	50% ~ 65%
	Voltage	The equipment shall be the nominal voltage for which the equipment was designed.
Extreme Condition	Temperature	Measurements shall be made over the extremes of the operating temperature range as declared by the manufacturer
	Voltage	Measurements shall be made over the extremes of the operating voltage range as declared by the manufacturer

Normal Condition	T_N =Normal Temperature	22 °C ~ 28°C
Extreme Condition	T_L =Lower Temperature	0 °C
	T_H =Higher Temperature	40 °C



2. GENERAL INFORMATION

2.1. Client Information

Applicant:	FOXSTAR TECHNOLOGY CO., LTD
Address:	LONGSHENG ROAD, OPTRPNIC INDUSTRY CLUSTER AREA NANTANG CITY, 473000, P.R., CHINA
Manufacturer:	FOXSTAR TECHNOLOGY CO., LTD
Address:	LONGSHENG ROAD, OPTRPNIC INDUSTRY CLUSTER AREA NANTANG CITY, 473000, P.R., CHINA

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2.2. General Description of EUT

Product Name:	DLP Laser Projector
Trade Mark:	 VIEW MAX
Model/Type reference:	VB1-LH3200W
Listed Model(s):	VB1-LX3200, VB1-LX3201, VB1-LX3202, VB1-LX3203, VB1-LX3204, VB1-LX3120, VB1-LX3121, VB1-LX3122, VB1-LX3123, VB1-LX3124, VB1-LX3105, VB1-LX3106, VB1-LX3107, VB1-LX3108, VB1-LX3109, VB1-LX3230, VB1-LX3231, VB1-LX3232, VB1-LX3233, VB1-LX3234, VB1-LX3600, VB1-LX3601, VB1-LX3602, VB1-LX3603, VB1-LX3604, VB1-LX3520, VB1-LX3521, VB1-LX3522, VB1-LX3523, VB1-LX3524, VB1-LX3505, VB1-LX3506, VB1-LX3507, VB1-LX3508, VB1-LX3509, VB1-LX3630, VB1-LX3631, VB1-LX3632, VB1-LX3633, VB1-LX3634, VB1-LX3200W, VB1-LX3201W, VB1-LX3202W, VB1-LX3203W, VB1-LX3204W, VB1-LX3120W, VB1-LX3121W, VB1-LX3122W, VB1-LX3123W, VB1-LX3124W, VB1-LX3105W, VB1-LX3106W, VB1-LX3107W, VB1-LX3108W, VB1-LX3109W, VB1-LX3230W, VB1-LX3231W, VB1-LX3232W, VB1-LX3233W, VB1-LX3234W, VB1-LX3600W, VB1-LX3601W, VB1-LX3602W, VB1-LX3603W, VB1-LX3604W, VB1-LX3520W, VB1-LX3521W, VB1-LX3522W, VB1-LX3523W, VB1-LX3524W, VB1-LX3505W, VB1-LX3506W, VB1-LX3507W, VB1-LX3508W, VB1-LX3509W, VB1-LX3630W, VB1-LX3631W, VB1-LX3632W, VB1-LX3633W, VB1-LX3634W, VB1-LX3200A, VB1-LX3201A, VB1-LX3202A, VB1-LX3203A, VB1-LX3204A, VB1-LX3120A, VB1-LX3121A, VB1-LX3122A, VB1-LX3123A, VB1-LX3124A, VB1-LX3105A, VB1-LX3106A, VB1-LX3107A, VB1-LX3108A, VB1-LX3109A, VB1-LX3230A, VB1-LX3231A, VB1-LX3232A, VB1-LX3233A, VB1-LX3234A, VB1-LX3600A, VB1-LX3601A, VB1-LX3602A, VB1-LX3603A, VB1-LX3604A, VB1-LX3520A, VB1-LX3521A, VB1-LX3522A, VB1-LX3523A, VB1-LX3524A, VB1-LX3505A, VB1-LX3506A, VB1-LX3507A, VB1-LX3508A, VB1-LX3509A, VB1-LX3630A, VB1-LX3631A, VB1-LX3632A, VB1-LX3633A, VB1-LX3634A, VB1-LW3200, VB1-LW3201, VB1-LW3202, VB1-LW3203, VB1-LW3204, VB1-LW3120, VB1-LW3121, VB1-LW3122, VB1-LW3123, VB1-LW3124, VB1-LW3105, VB1-LW3106, VB1-LW3107, VB1-LW3108, VB1-LW3109, VB1-LW3230, VB1-LW3231, VB1-LW3232, VB1-LW3233, VB1-LW3234, VB1-LW3600, VB1-LW3601, VB1-LW3602, VB1-LW3603, VB1-LW3604, VB1-LW3520, VB1-LW3521, VB1-LW3522, VB1-LW3523, VB1-LW3524, VB1-LW3505, VB1-LW3506, VB1-LW3507, VB1-LW3508, VB1-LW3509, VB1-LW3630, VB1-LW3631, VB1-LW3632, VB1-LW3633, VB1-LW3634, VB1-LW3200W, VB1-LW3201W, VB1-LW3202W, VB1-LW3203W, VB1-LW3204W, VB1-LW3120W, VB1-LW3121W, VB1-LW3122W, VB1-LW3123W, VB1-LW3124W, VB1-LW3105W, VB1-LW3106W, VB1-LW3107W, VB1-LW3108W, VB1-LW3109W, VB1-LW3230W, VB1-LW3231W, VB1-LW3232W, VB1-LW3233W, VB1-LW3234W, VB1-LW3600W, VB1-LW3601W, VB1-LW3602W, VB1-LW3603W, VB1-LW3604W, VB1-LW3520W, VB1-LW3521W, VB1-LW3522W, VB1-LW3523W, VB1-LW3524W, VB1-LW3505W, VB1-LW3506W, VB1-LW3507W, VB1-LW3508W, VB1-LW3509W, VB1-LW3630W, VB1-LW3631W, VB1-LW3632W, VB1-LW3633W, VB1-LW3634W, VB1-LW3200A, VB1-LW3201A, VB1-LW3202A, VB1-LW3203A, VB1-LW3204A, VB1-LW3120A, VB1-LW3121A, VB1-LW3122A,



VB1-LW3123A, VB1-LW3124A, VB1-LW3105A, VB1-LW3106A, VB1-LW3107A, VB1-LW3108A, VB1-LW3109A, VB1-LW3230A, VB1-LW3231A, VB1-LW3232A, VB1-LW3233A, VB1-LW3234A, VB1-LW3600A, VB1-LW3601A, VB1-LW3602A, VB1-LW3603A, VB1-LW3604A, VB1-LW3520A, VB1-LW3521A, VB1-LW3522A, VB1-LW3523A, VB1-LW3524A, VB1-LW3505A, VB1-LW3506A, VB1-LW3507A, VB1-LW3508A, VB1-LW3509A, VB1-LW3630A, VB1-LW3631A, VB1-LW3632A, VB1-LW3633A, VB1-LW3634A, VB1-LH3200, VB1-LH3201, VB1-LH3202, VB1-LH3203, VB1-LH3204, VB1-LH3120, VB1-LH3121, VB1-LH3122, VB1-LH3123, VB1-LH3124, VB1-LH3105, VB1-LH3106, VB1-LH3107, VB1-LH3108, VB1-LH3109, VB1-LH3230, VB1-LH3231, VB1-LH3232, VB1-LH3233, VB1-LH3234, VB1-LH3201W, VB1-LH3202W, VB1-LH3203W, VB1-LH3204W, VB1-LH3120W, VB1-LH3121W, VB1-LH3122W, VB1-LH3123W, VB1-LH3124W, VB1-LH3105W, VB1-LH3106W, VB1-LH3107W, VB1-LH3108W, VB1-LH3109W, VB1-LH3230W, VB1-LH3231W, VB1-LH3232W, VB1-LH3233W, VB1-LH3234W, VB1-LH3200A, VB1-LH3201A, VB1-LH3202A, VB1-LH3203A, VB1-LH3204A, VB1-LH3120A, VB1-LH3121A, VB1-LH3122A, VB1-LH3123A, VB1-LH3124A, VB1-LH3105A, VB1-LH3106A, VB1-LH3107A, VB1-LH3108A, VB1-LH3109A, VB1-LH3230A, VB1-LH3231A, VB1-LH3232A, VB1-LH3233A, VB1-LH3234A	
Model Different:	All these models are identical in the same PCB, layout and electrical circuit, The only difference is model name and resolution.
Power supply:	120Vac/ 60Hz from Alternating voltage
Hardware version:	N/A
Software version:	N/A
Antenna type:	FPC Antenna
Antenna gain:	U-NII-1: 2dBi U-NII-3: 2dBi
Technical index for 5G WIFI	
Operation Band:	<input checked="" type="checkbox"/> U-NII-1 <input type="checkbox"/> U-NII-2A <input type="checkbox"/> U-NII-2C <input checked="" type="checkbox"/> U-NII-3
Operation Frequency Range:	U-NII-1: 5150MHz~5250MHz
	U-NII-3: 5725MHz~5850MHz
Support bandwidth:	802.11a <input checked="" type="checkbox"/> 20MHz
	802.11n <input checked="" type="checkbox"/> 20MHz <input checked="" type="checkbox"/> 40MHz
	802.11ac <input checked="" type="checkbox"/> 20MHz <input checked="" type="checkbox"/> 40MHz <input checked="" type="checkbox"/> 80MHz <input type="checkbox"/> 160MHz
Modulation:	802.11a: OFDM (BIT/SK, QPSK, BPSK, 16QAM) 802.11n: OFDM (BIT/SK, QPSK, BPSK, 16QAM, 64QAM) 802.11ac: OFDM (BIT/SK, QPSK, BPSK, 16QAM, 64QAM, 256QAM)
Bit Rate of Transmitter:	802.11a: 6/9/12/18/24/36/48/54 Mbps 802.11n: up to 300Mbps 802.11ac: at most 866.7 Mbps



2.3. Accessory Equipment information

Equipment Information			
Name	Model	S/N	Manufacturer
Notebook	X220	R9-NCMYL 12/04	Lenovo
/	/	/	/
Cable Information			
Name	Shielded Type	Ferrite Core	Length
AC Input line	Without	Without	1.2M
Test Software Information			
Name	Versions	/	/
SecureCRT.exe	8.7.1	/	/



2.4. Operation state

Operation Frequency List:

Band (MHz)	20MHz Bandwidth		40MHz Bandwidth		80MHz Bandwidth			
	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)		
U-NII-1	36	5180	38	5190	42	5210		
	40	5200						
	44	5220	46	5230				
	48	5240						
U-NII-3	149	5745	151	5755	155	5775		
	153	5765						
	157	5785	159	5795				
	161	5805						
	165	5825						

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Test channel is below:

Operating Band	Test Channel	20MHz		40MHz		80MHz	
		Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
U-NII-1	CH _L	36	5180	38	5190	/	/
	CH _M	40	5200	/	/	42	5210
	CH _H	48	5240	46	5230	/	/
U-NII-3	CH _L	149	5745	151	5755	/	/
	CH _M	157	5785	/	/	155	5775
	CH _H	165	5825	159	5795	/	/

Data Rated

Preliminary tests were performed in different data rate, and found which the below bit rate is worst case mode, so only show data which it is a worst case mode.

Mode	Data rate (worst mode)
802.11a	6Mbps
802.11n(HT20)/ 802.11n(HT40)	HT-MCS0
802.11ac(VHT20)/ 802.11ac(VHT40)/ 802.11ac(VHT80)	VHT-MCS0

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 WLAN AP 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.
For DFS test items
The EUT has been tested under test mode condition. The Applicant provides software to control the EUT for staying in DFS mode for testing.



2.5. Measurement Instruments List

Tonscend JS0806-2 Test system					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	Spectrum Analyzer	Rohde & Schwarz	FSU26	100105	Dec. 25, 2021
2	Spectrum Analyzer	Rohde & Schwarz	FUV40-N	101331	Mar. 15, 2022
3	Spectrum Analyzer	KEYSIGHT	N9020A	100231	Dec. 25, 2021
4	MXG Vector Signal Generator	Agilent	N5182A	MY47420864	Dec. 25, 2021
5	Signal Generator	Agilent	E8257D	MY46521908	Dec. 25, 2021
6	Power Sensor	Agilent	U2021XA	MY5365004	Mar. 15, 2022
7	Power Sensor	Agilent	U2021XA	MY5365006	Mar. 15, 2022
8	High and low temperature box	ESPEC	MT3035	N/A	Mar. 24, 2022
9	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	102414	Dec. 25, 2021
10	300328 v2.2.2 test system	TONSCEND	v2.6	/	/

Radiated emission(3m chamber 2)					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated Until
1	Trilog-Broadband Antenna	Schwarzbeck	VULB 9168	9168-1013	Jan.12, 2022
2	Horn Antenna	Schwarzbeck	BBHA 9120D	9120D-647	Dec. 24, 2021
3	Spectrum Analyzer	R&S	FSU26	100105	Dec. 25, 2021
4	Spectrum Analyzer	R&S	FSV40-N	101331	Mar. 15, 2022
5	Pre-Amplifier	SONOMA	310	186194	Dec. 25, 2021
6	Low Noise Pre-Amplifier	EMCI	EMC051835	980075	Dec. 25, 2021
7	Test Receiver	R&S	ESCI7	100967	Dec. 25, 2021

Radiated emission(3m chamber 3)					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated Until
1	Trilog-Broadband Antenna	Schwarzbeck	VULB 9168	9168-759	Nov.09, 2021
2	Horn Antenna	Schwarzbeck	BBHA 9120D	9120D-647	Dec. 24, 2021
3	Test Receiver	Keysight	N9038A	MY56400071	Dec. 25, 2021
4	Broadband Premplifier	SCHWARZBECK	BBV9743B	259	Dec. 25, 2021
5	Mirowave Broadband Amplifier	SCHWARZBECK	BBV9718C	111	Dec. 25, 2021

Conducted Emission					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	LISN	R&S	ENV216	101112	Dec. 25, 2021
2	LISN	R&S	ENV216	101113	Dec. 25, 2021
3	EMI Test Receiver	R&S	ESCS30	100353	Dec. 25, 2021

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

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

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3. TEST ITEM AND RESULTS

3.1. Conducted Emission

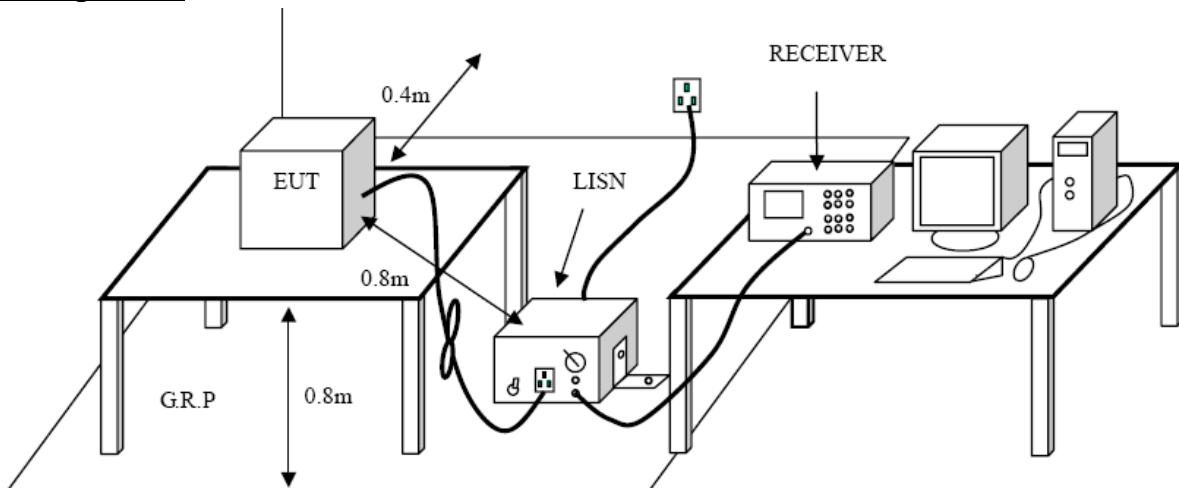
Limit

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

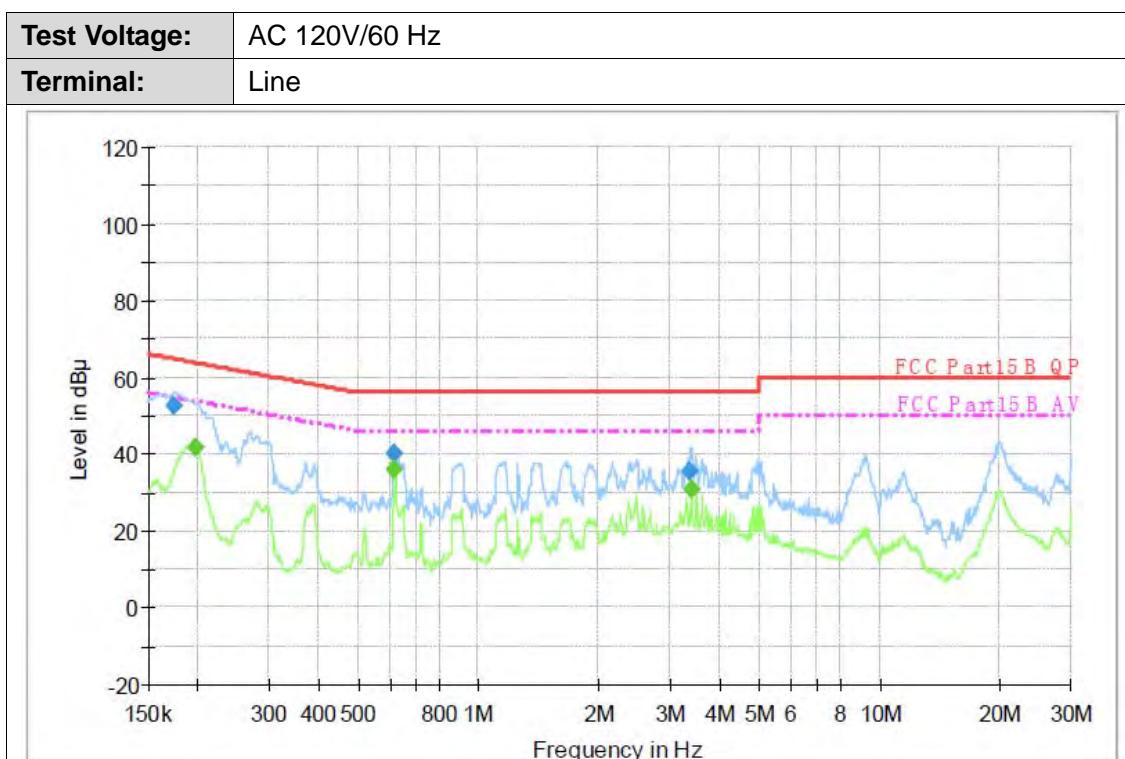


Test Procedure

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 50 ohm /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.

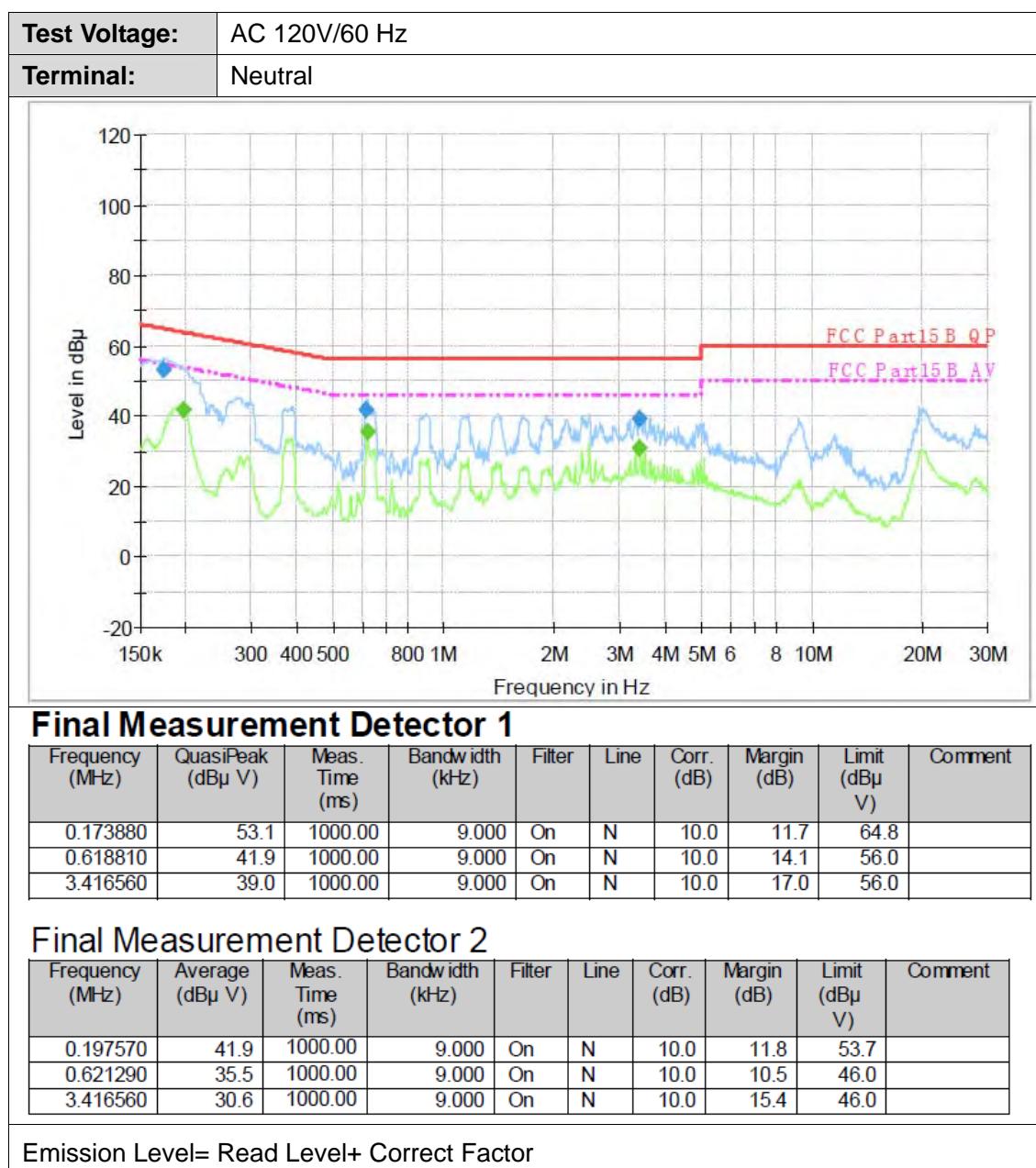
**Test Results****Final Measurement Detector 1**

Frequency (MHz)	QuasiPeak (dB μ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)	Comment
0.173180	52.6	1000.00	9.000	On	L1	9.7	12.2	64.8	
0.618810	40.0	1000.00	9.000	On	L1	9.7	16.0	56.0	
3.375880	35.6	1000.00	9.000	On	L1	9.7	20.4	56.0	

Final Measurement Detector 2

Frequency (MHz)	Average (dB μ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)	Comment
0.197570	41.7	1000.00	9.000	On	L1	9.7	12.0	53.7	
0.618810	35.8	1000.00	9.000	On	L1	9.7	10.2	46.0	
3.402950	30.6	1000.00	9.000	On	L1	9.7	15.4	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).

Limits of unwanted emission out of the restricted bands

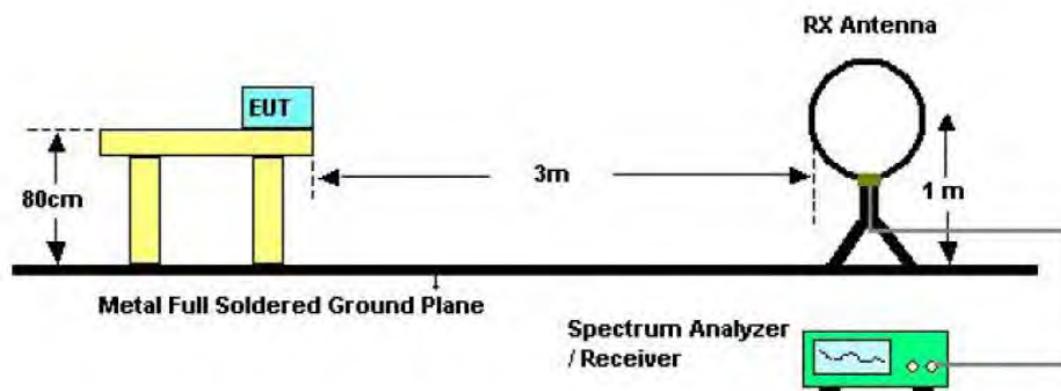
FCC CFR Title 47 Part 15 Subpart C Section 15.407(b)/ RSS-247 6.2.1.2 & RSS-247 6.2.4.2

Frequency (MHz)	EIRP Limits (dBm)	Equivalent Field Strength at 3m (dBuV/m)
5150~5250	-27	68.2
5250~5350	-27	68.2
5470~5725	-27	68.2
5725~5825	-27(Note 2)	68.2
	10(Note 2)	105.2
	15.6(Note 2)	110.8
	27(Note 2)	122.2

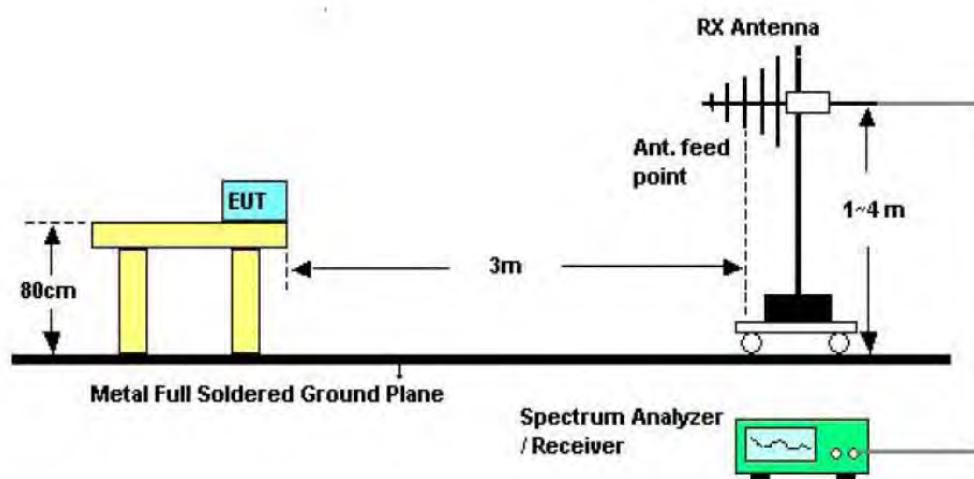
Note: 1. The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength: $E = \frac{1000000\sqrt{30P}}{3}$ uV/m, where P is the eirp (Watts)

2. According to FCC 16-24, All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27dBm/MHz at the band edge.

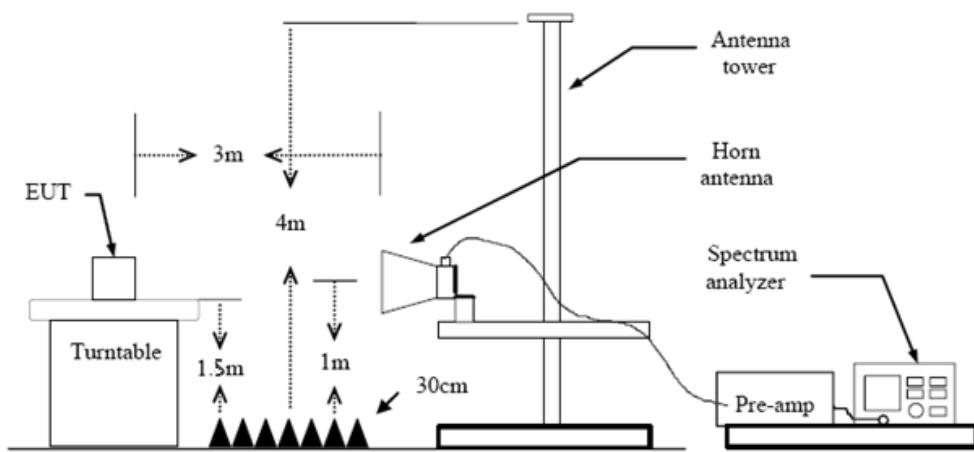
Test Configuration



Below 30MHz Test Setup



Below 1000MHz Test Setup



Above 1GHz 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.

CTC Laboratories, Inc.

1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China
Tel.: (86)755-27521059

Fax: (86)755-27521011 [Http://www.sz-ctc.org.cn](http://www.sz-ctc.org.cn)
For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China : yz.cnca.cn



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 40GHz:
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 Duty Cycle.

Test Mode

Please refer to the clause 2.4.

Test Result

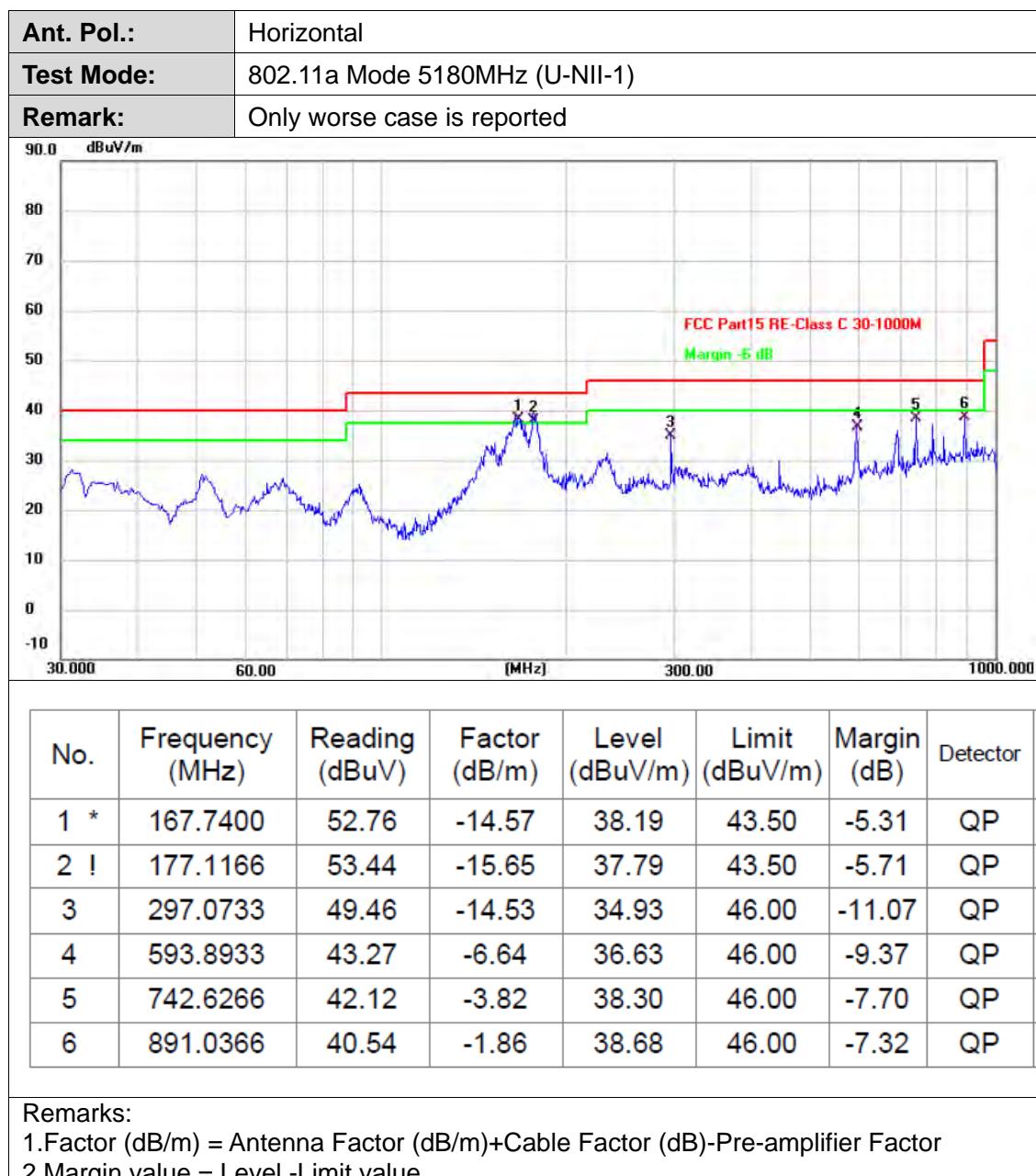
9 KHz~30 MHz

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.

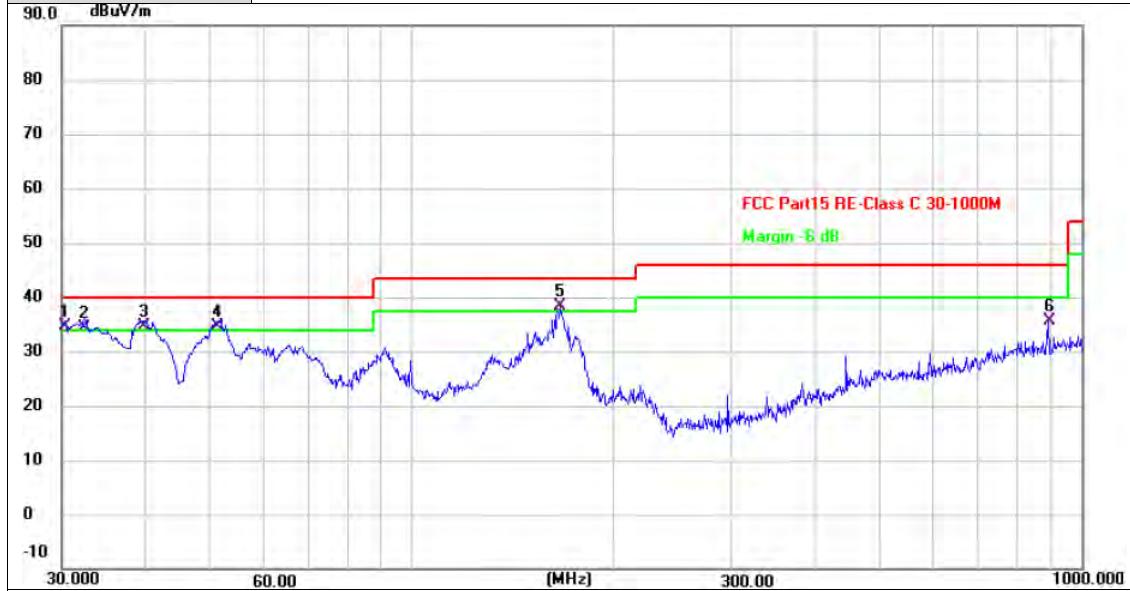


30MHz-1GHz





Ant. Pol.:	Vertical
Test Mode:	802.11a Mode 5180MHz (U-NII-1)
Remark:	Only worse case is reported



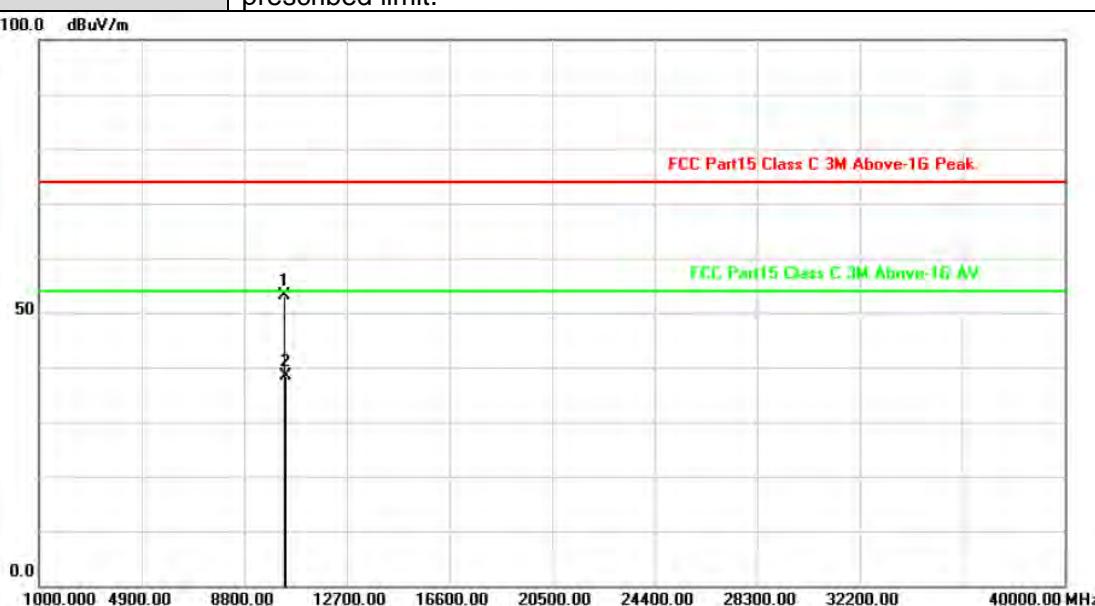
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 !	30.3233	49.52	-14.88	34.64	40.00	-5.36	QP
2 !	32.4059	49.24	-14.80	34.44	40.00	-5.56	QP
3 !	39.8542	48.83	-14.10	34.73	40.00	-5.27	QP
4 !	51.3400	49.41	-14.76	34.65	40.00	-5.35	QP
5 *	166.7700	52.91	-14.54	38.37	43.50	-5.13	QP
6	891.0367	37.53	-1.86	35.67	46.00	-10.33	QP

Remarks:

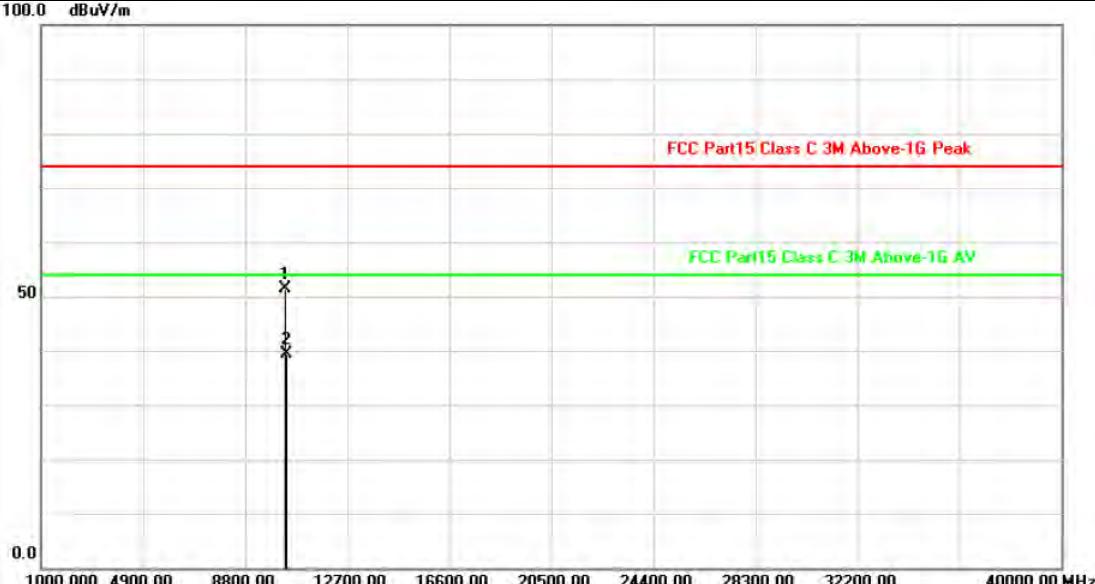
1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
2. Margin value = Level -Limit value



Above 1GHz

Ant. Pol.:	Horizontal																														
Test Mode:	TX 802.11a Mode 5180MHz (U-NII-1)																														
Remark:	No report for the emission which more than 10 dB below the prescribed limit.																														
																															
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
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2	10360.061	6.64	31.81	38.45	54.00	-15.55	AVG																								
<p>Remarks:</p> <p>1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor</p> <p>2. Margin value = Level -Limit value</p>																															

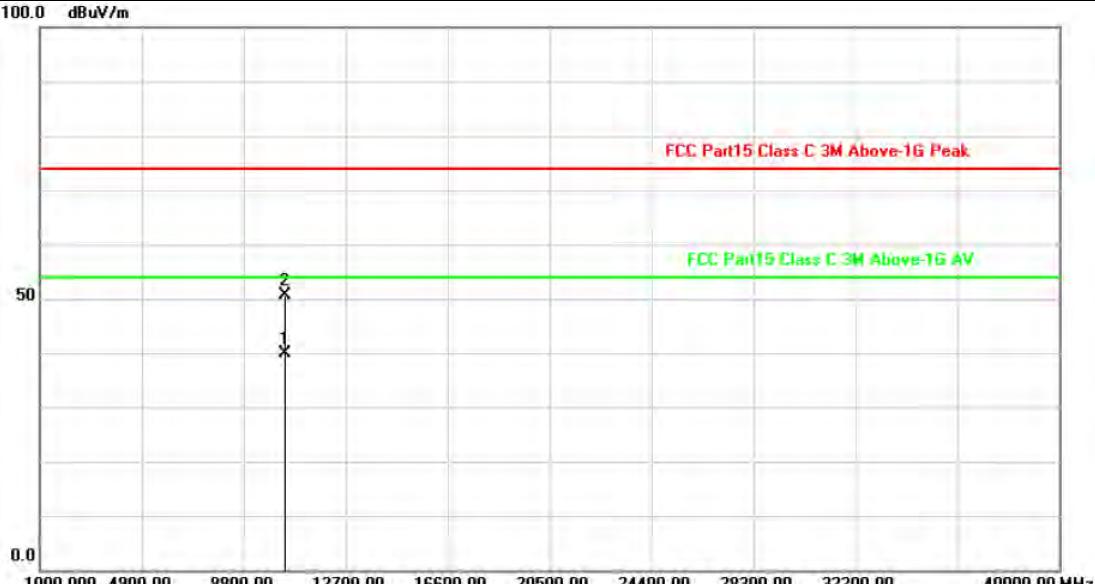


Ant. Pol.:	Vertical																														
Test Mode:	TX 802.11a Mode 5180MHz (U-NII-1)																														
Remark:	No report for the emission which more than 10 dB below the prescribed limit.																														
																															
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
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2	10360.120	6.64	32.83	39.47	54.00	-14.53	AVG																								
<p>Remarks:</p> <p>1. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) - Pre-amplifier Factor</p> <p>2. Margin value = Level - Limit value</p>																															

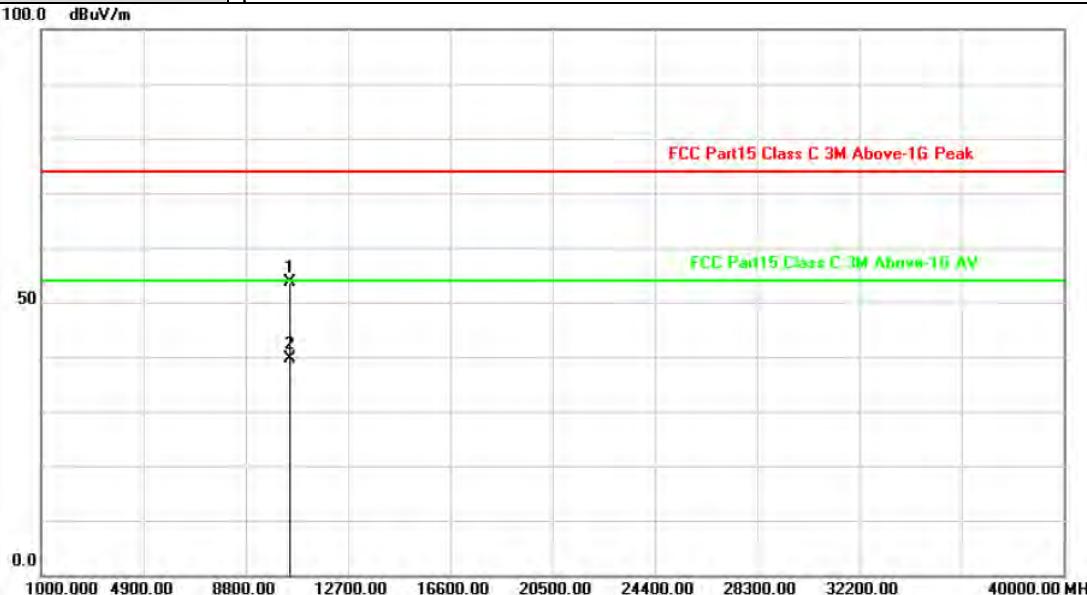


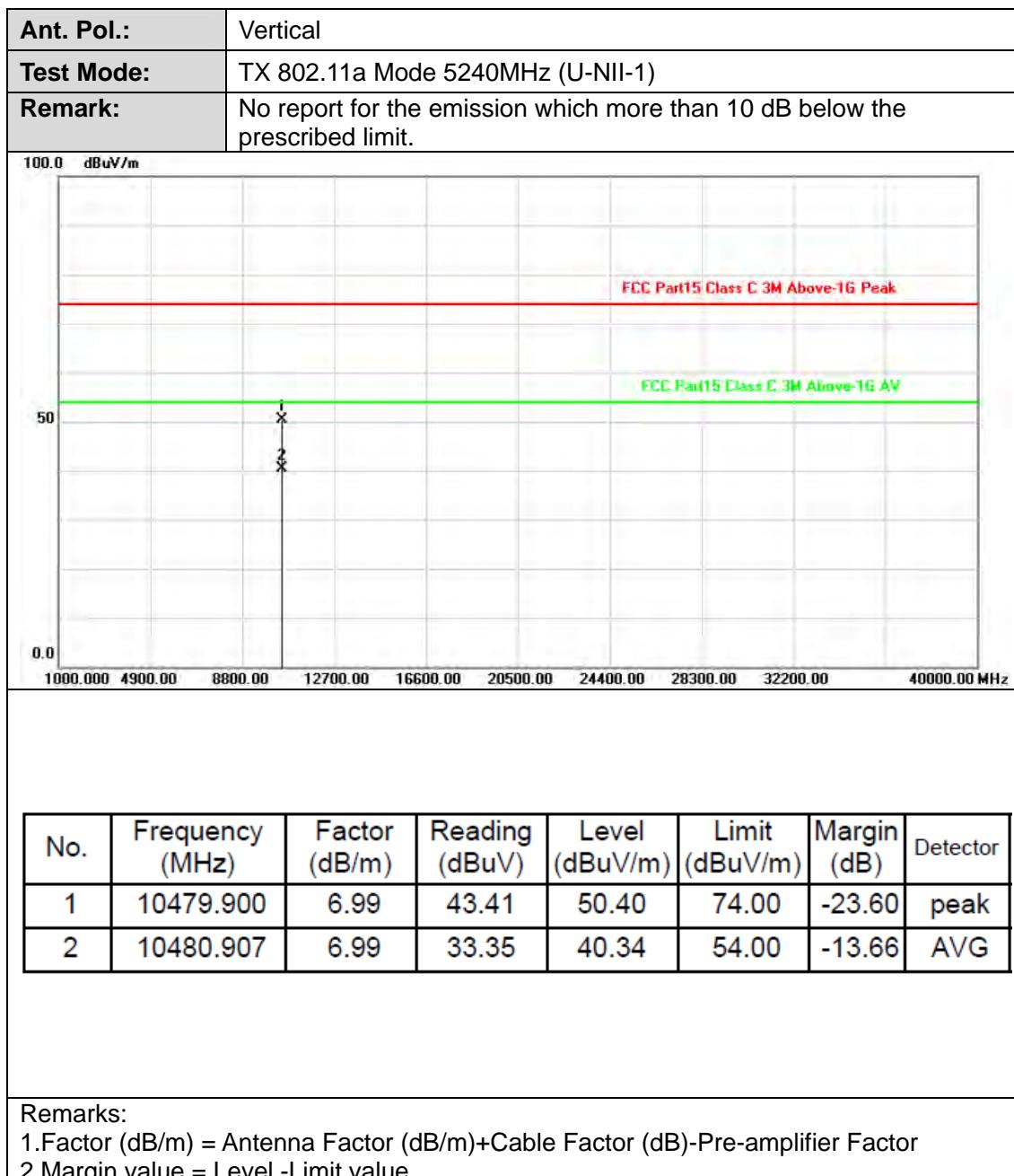
Ant. Pol.:	Horizontal																														
Test Mode:	TX 802.11a Mode 5200MHz (U-NII-1)																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	10400.032	6.76	31.60	38.36	54.00	-15.64	AVG																								
2	10400.202	6.76	43.68	50.44	74.00	-23.56	peak																								
<p>Remarks:</p> <p>1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor</p> <p>2. Margin value = Level -Limit value</p>																															

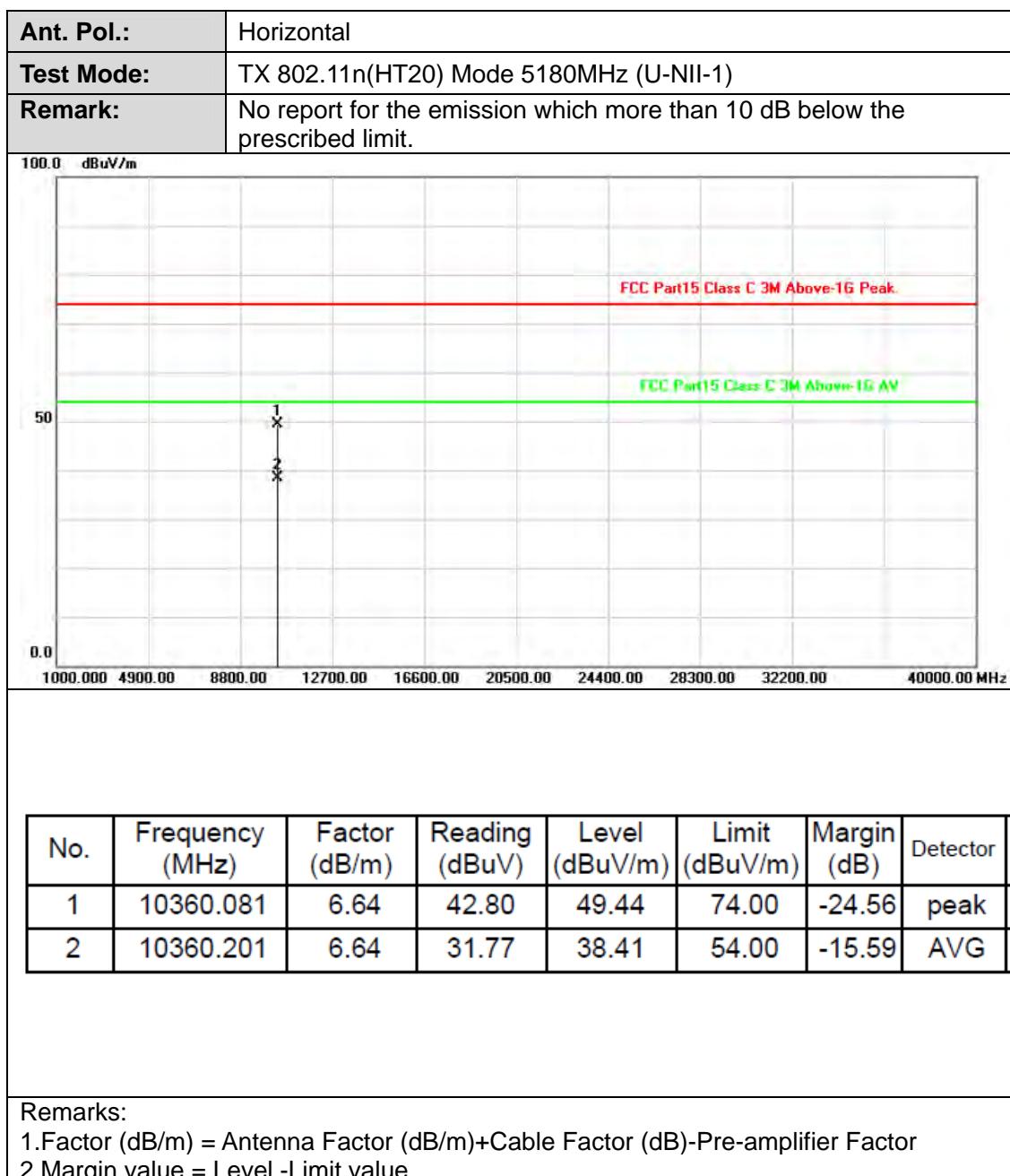


Ant. Pol.:	Vertical																														
Test Mode:	TX 802.11a Mode 5200MHz (U-NII-1)																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	10400.037	6.76	33.01	39.77	54.00	-14.23	AVG																								
2	10400.141	6.76	43.90	50.66	74.00	-23.34	peak																								
<p>Remarks:</p> <p>1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor</p> <p>2. Margin value = Level -Limit value</p>																															

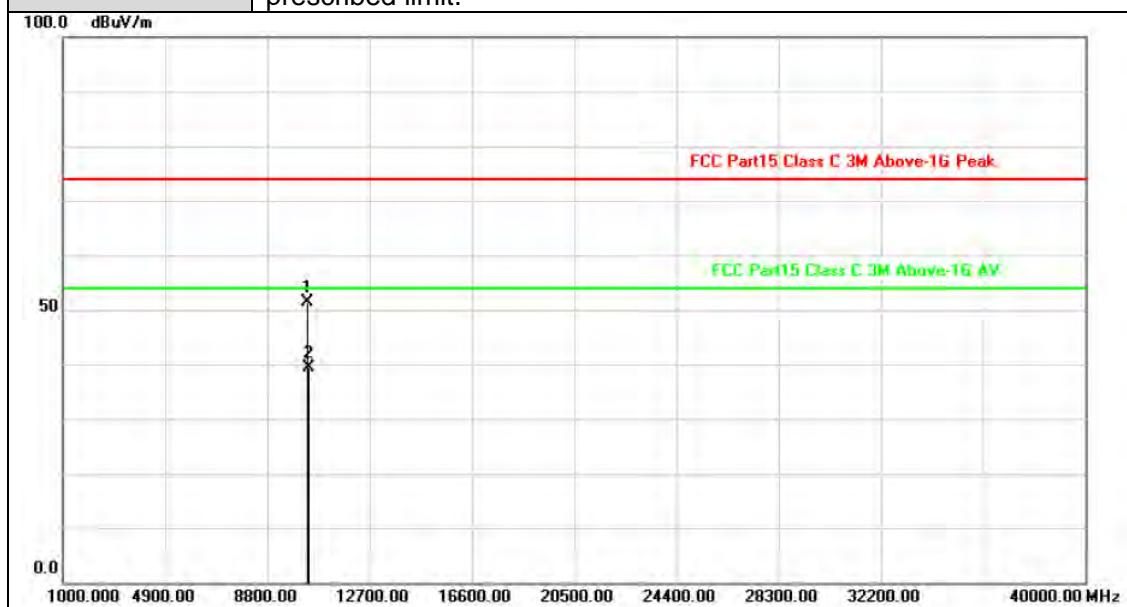


Ant. Pol.:	Horizontal																														
Test Mode:	TX 802.11a Mode 5240MHz (U-NII-1)																														
Remark:	No report for the emission which more than 10 dB below the prescribed limit.																														
																															
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	10480.230	6.99	46.67	53.66	74.00	-20.34	peak																								
2	10480.769	6.99	32.53	39.52	54.00	-14.48	AVG																								
<p>Remarks:</p> <p>1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor</p> <p>2. Margin value = Level -Limit value</p>																															







Ant. Pol.:	Vertical																														
Test Mode:	TX 802.11n(HT20) Mode 5180MHz (U-NII-1)																														
Remark:	No report for the emission which more than 10 dB below the prescribed limit.																														
																															
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
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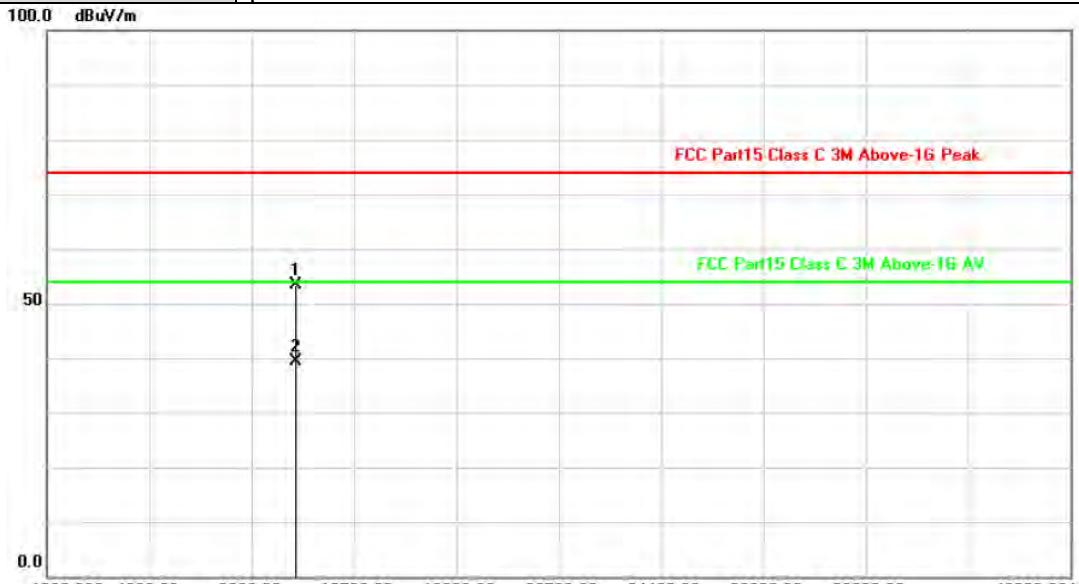


Ant. Pol.:	Horizontal																														
Test Mode:	TX 802.11n(HT20) Mode 5200MHz (U-NII-1)																														
Remark:	No report for the emission which more than 10 dB below the prescribed limit.																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	10400.041	6.76	32.65	39.41	54.00	-14.59	AVG																								
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<p>Remarks:</p> <p>1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor</p> <p>2. Margin value = Level -Limit value</p>																															



Ant. Pol.:	Vertical																														
Test Mode:	TX 802.11n(HT20) Mode 5200MHz (U-NII-1)																														
Remark:	No report for the emission which more than 10 dB below the prescribed limit.																														
<p>100.0 dBuV/m</p> <p>50</p> <p>0.0</p> <p>1000.000 4900.00 8800.00 12700.00 16600.00 20500.00 24400.00 28300.00 32200.00 40000.00 MHz</p> <p>FCC Part15 Class C 3M Above-1G Peak</p> <p>FCC Part15 Class C 3M Above-1G AVG</p> <p>10399.969 10400.121</p>																															
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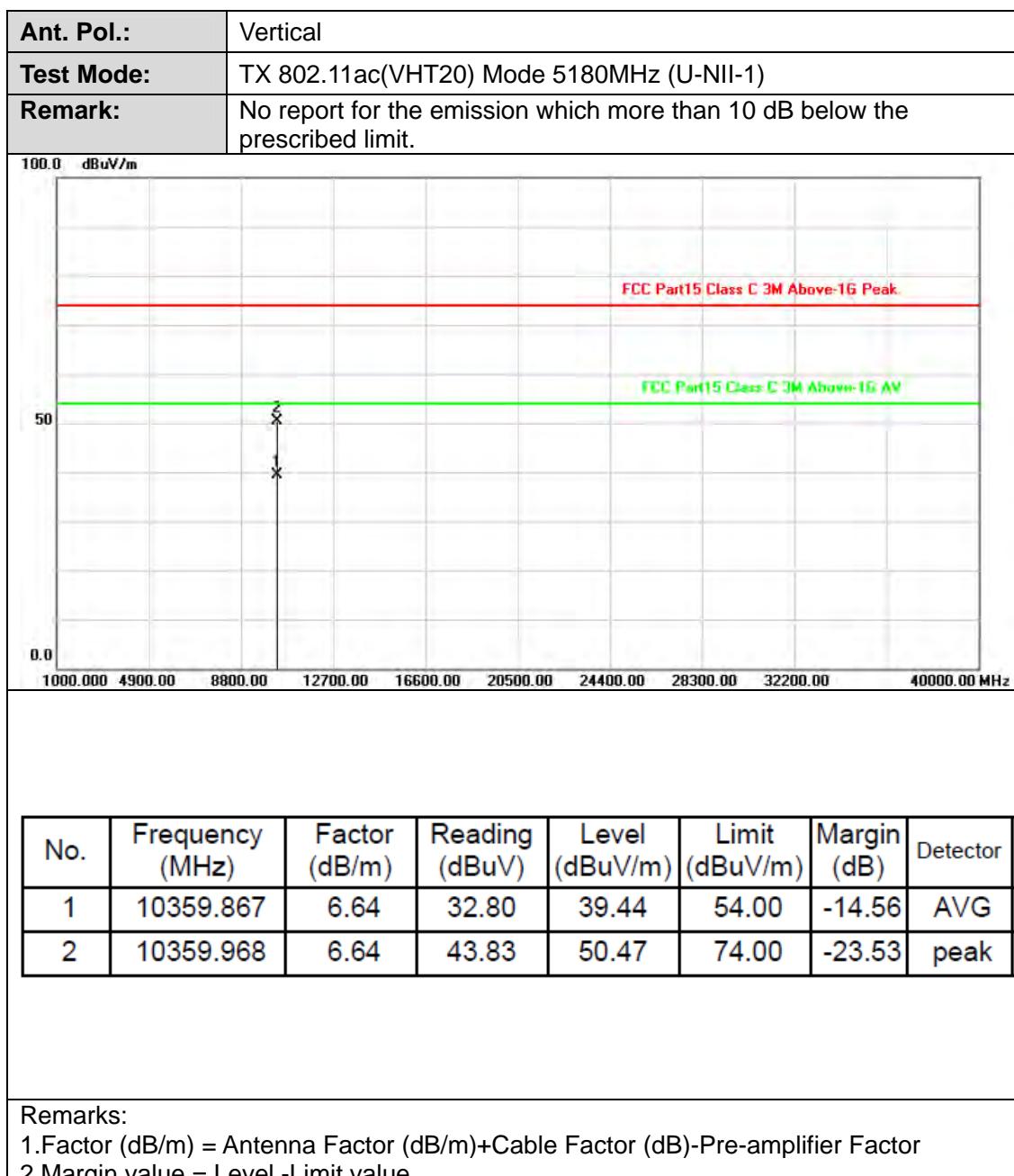
Ant. Pol.:	Horizontal																														
Test Mode:	TX 802.11n(HT20) Mode 5240MHz (U-NII-1)																														
Remark:	No report for the emission which more than 10 dB below the prescribed limit.																														
																															
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	10479.917	6.99	46.42	53.41	74.00	-20.59	peak																								
2	10480.121	6.99	32.46	39.45	54.00	-14.55	AVG																								
<p>Remarks:</p> <p>1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor</p> <p>2. Margin value = Level -Limit value</p>																															



Ant. Pol.:	Vertical																														
Test Mode:	TX 802.11n(HT20) Mode 5240MHz (U-NII-1)																														
Remark:	No report for the emission which more than 10 dB below the prescribed limit.																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	10479.868	6.99	44.27	51.26	74.00	-22.74	peak																								
2	10480.143	6.99	32.55	39.54	54.00	-14.46	AVG																								
<p>Remarks:</p> <p>1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor</p> <p>2. Margin value = Level -Limit value</p>																															

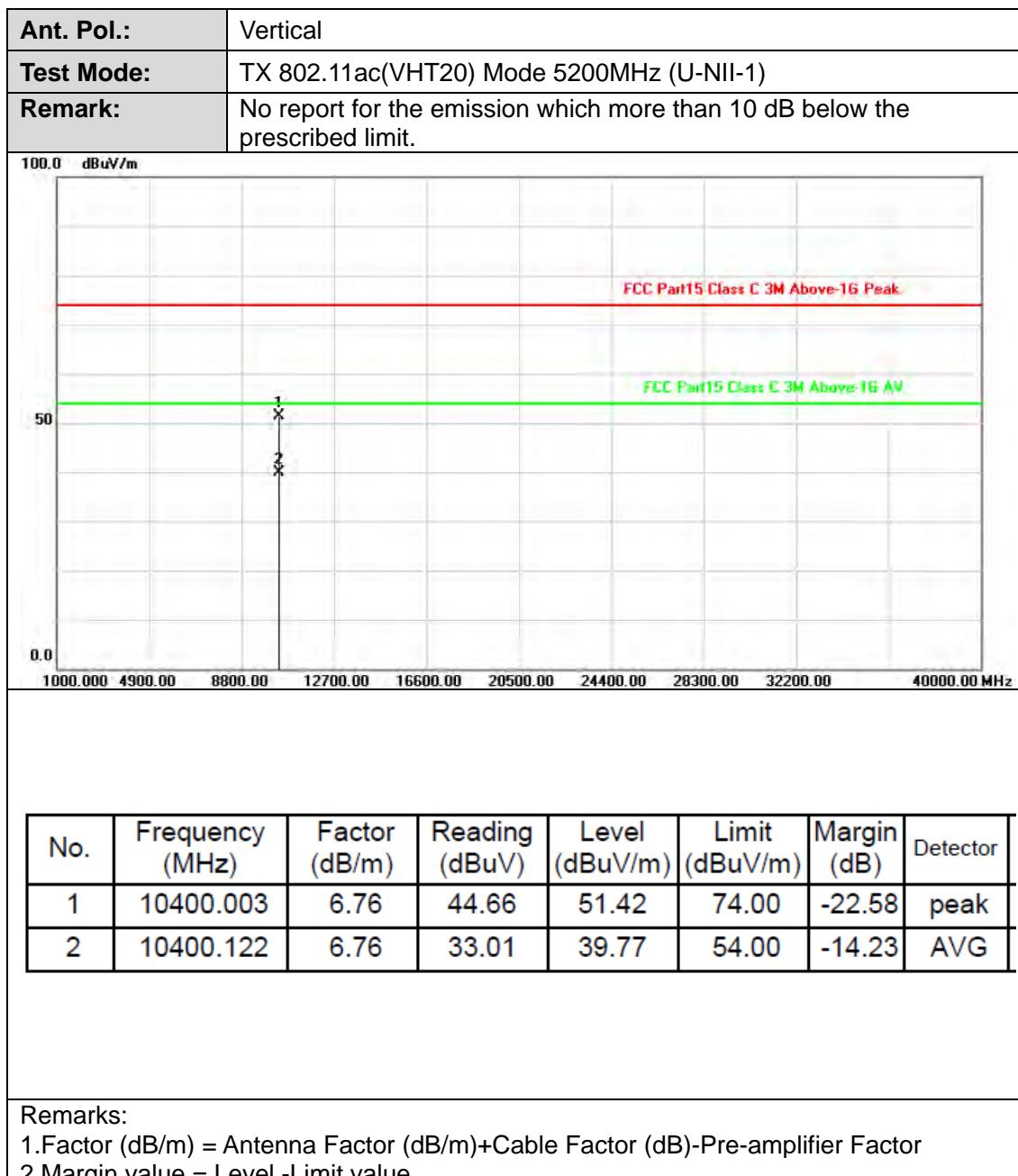


Ant. Pol.:	Horizontal																														
Test Mode:	TX 802.11ac(VHT20) Mode 5180MHz (U-NII-1)																														
Remark:	No report for the emission which more than 10 dB below the prescribed limit.																														
<table border="1"><thead><tr><th>No.</th><th>Frequency (MHz)</th><th>Factor (dB/m)</th><th>Reading (dBuV)</th><th>Level (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Detector</th></tr></thead><tbody><tr><td>1</td><td>10360.412</td><td>6.64</td><td>42.98</td><td>49.62</td><td>74.00</td><td>-24.38</td><td>peak</td></tr><tr><td>2</td><td>10360.512</td><td>6.64</td><td>33.10</td><td>39.74</td><td>54.00</td><td>-14.26</td><td>AVG</td></tr></tbody></table>								No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1	10360.412	6.64	42.98	49.62	74.00	-24.38	peak	2	10360.512	6.64	33.10	39.74	54.00	-14.26	AVG
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	10360.412	6.64	42.98	49.62	74.00	-24.38	peak																								
2	10360.512	6.64	33.10	39.74	54.00	-14.26	AVG																								
<p>Remarks:</p> <p>1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor</p> <p>2. Margin value = Level -Limit value</p>																															



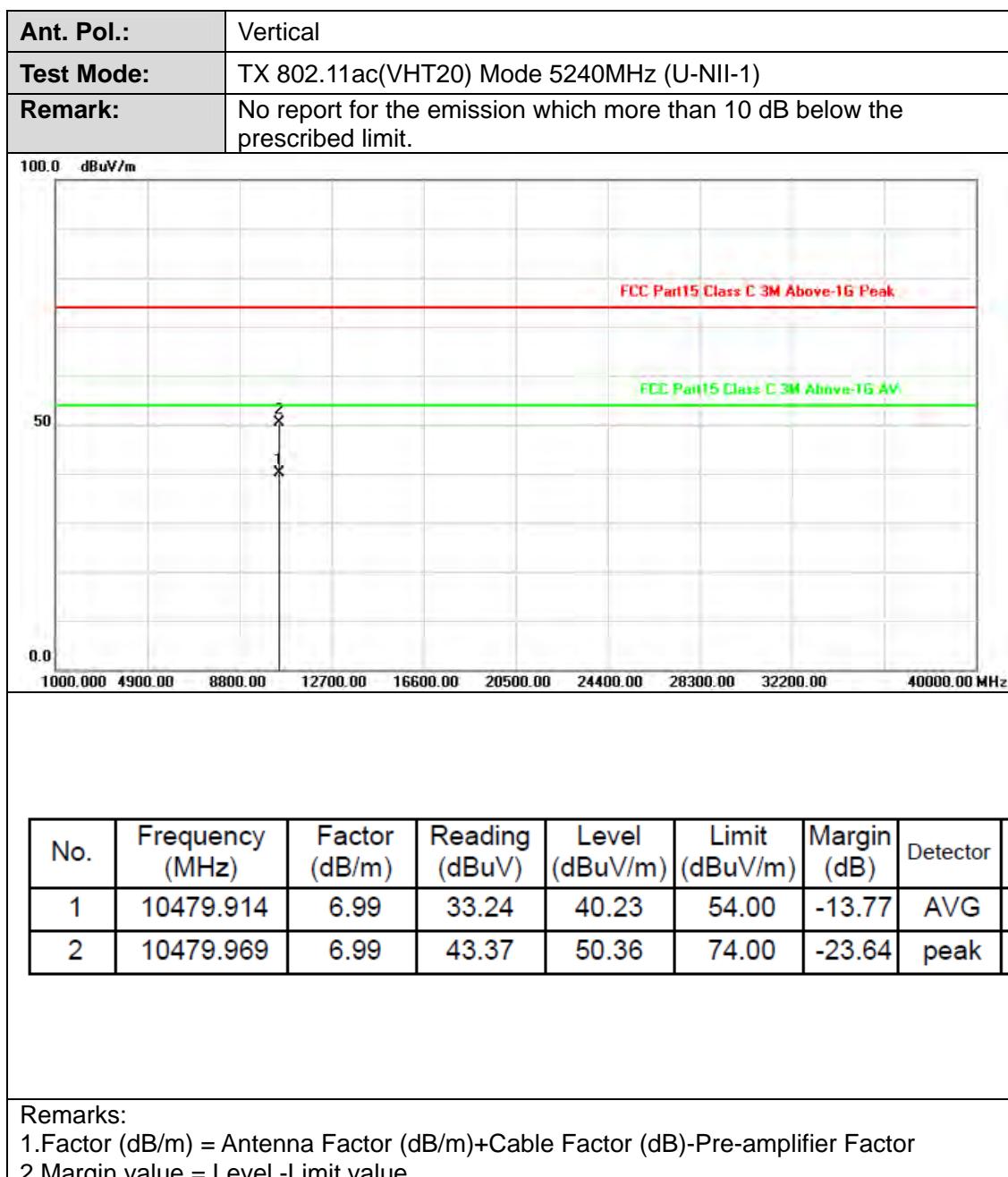


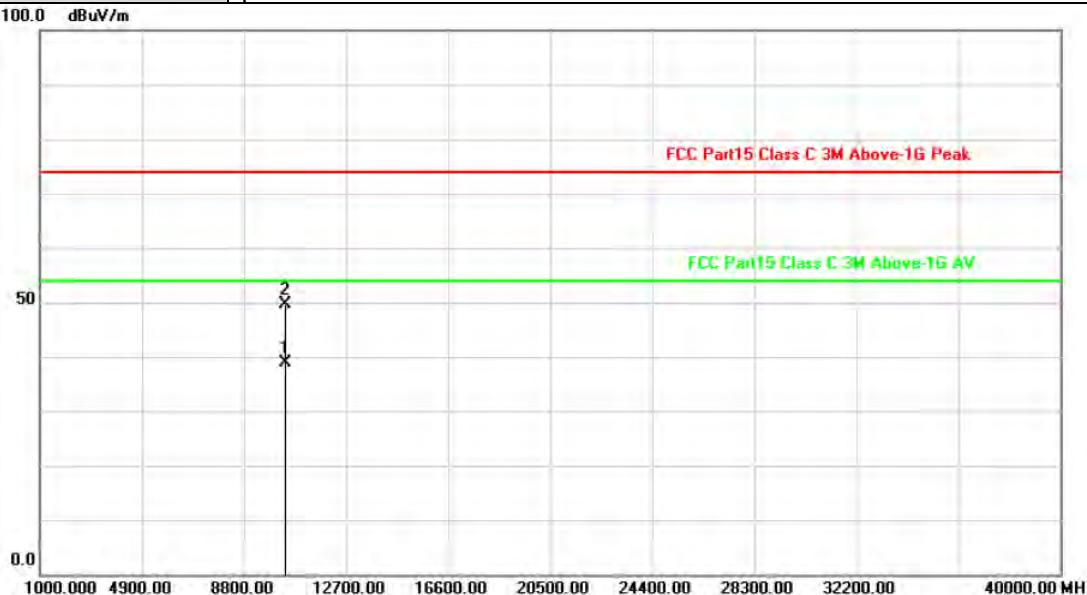
Ant. Pol.:	Horizontal																														
Test Mode:	TX 802.11ac(VHT20) Mode 5200MHz (U-NII-1)																														
Remark:	No report for the emission which more than 10 dB below the prescribed limit.																														
<table border="1"><thead><tr><th>No.</th><th>Frequency (MHz)</th><th>Factor (dB/m)</th><th>Reading (dBuV)</th><th>Level (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Detector</th></tr></thead><tbody><tr><td>1</td><td>10400.020</td><td>6.76</td><td>46.65</td><td>53.41</td><td>74.00</td><td>-20.59</td><td>peak</td></tr><tr><td>2</td><td>10400.111</td><td>6.76</td><td>31.98</td><td>38.74</td><td>54.00</td><td>-15.26</td><td>AVG</td></tr></tbody></table>								No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1	10400.020	6.76	46.65	53.41	74.00	-20.59	peak	2	10400.111	6.76	31.98	38.74	54.00	-15.26	AVG
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	10400.020	6.76	46.65	53.41	74.00	-20.59	peak																								
2	10400.111	6.76	31.98	38.74	54.00	-15.26	AVG																								
<p>Remarks:</p> <p>1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor</p> <p>2. Margin value = Level -Limit value</p>																															





Ant. Pol.:	Horizontal																														
Test Mode:	TX 802.11ac(VHT20) Mode 5240MHz (U-NII-1)																														
Remark:	No report for the emission which more than 10 dB below the prescribed limit.																														
<table border="1"><thead><tr><th>No.</th><th>Frequency (MHz)</th><th>Factor (dB/m)</th><th>Reading (dBuV)</th><th>Level (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Detector</th></tr></thead><tbody><tr><td>1</td><td>10479.858</td><td>6.99</td><td>43.45</td><td>50.44</td><td>74.00</td><td>-23.56</td><td>peak</td></tr><tr><td>2</td><td>10480.213</td><td>6.99</td><td>32.12</td><td>39.11</td><td>54.00</td><td>-14.89</td><td>AVG</td></tr></tbody></table>								No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1	10479.858	6.99	43.45	50.44	74.00	-23.56	peak	2	10480.213	6.99	32.12	39.11	54.00	-14.89	AVG
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	10479.858	6.99	43.45	50.44	74.00	-23.56	peak																								
2	10480.213	6.99	32.12	39.11	54.00	-14.89	AVG																								
<p>Remarks:</p> <p>1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor</p> <p>2. Margin value = Level -Limit value</p>																															



Ant. Pol.:	Horizontal																														
Test Mode:	TX 802.11n(HT40) Mode 5190MHz (U-NII-1)																														
Remark:	No report for the emission which more than 10 dB below the prescribed limit.																														
 <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 1000.000, 4900.00, 8800.00, 12700.00, 16600.00, 20500.00, 24400.00, 28300.00, 32200.00, and 40000.00. A red horizontal line represents the 'FCC Part15 Class C 3M Above-1G Peak' limit at 54.00 dBuV/m. A green horizontal line represents the 'FCC Part15 Class C 3M Above-1G AV' limit at 74.00 dBuV/m. A vertical line with a double-headed arrow indicates the measurement range between 10380.010 MHz and 10380.157 MHz, with a midpoint at 10380.0835 MHz. The plot area is a grid from 0.0 to 100.0 dBuV/m on the Y-axis and 1000.000 to 40000.00 MHz on the X-axis.</p>																															
<table border="1"> <thead> <tr> <th>No.</th> <th>Frequency (MHz)</th> <th>Factor (dB/m)</th> <th>Reading (dBuV)</th> <th>Level (dBuV/m)</th> <th>Limit (dBuV/m)</th> <th>Margin (dB)</th> <th>Detector</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>10380.010</td> <td>6.70</td> <td>32.07</td> <td>38.77</td> <td>54.00</td> <td>-15.23</td> <td>AVG</td> </tr> <tr> <td>2</td> <td>10380.157</td> <td>6.70</td> <td>42.93</td> <td>49.63</td> <td>74.00</td> <td>-24.37</td> <td>peak</td> </tr> </tbody> </table>								No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1	10380.010	6.70	32.07	38.77	54.00	-15.23	AVG	2	10380.157	6.70	42.93	49.63	74.00	-24.37	peak
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	10380.010	6.70	32.07	38.77	54.00	-15.23	AVG																								
2	10380.157	6.70	42.93	49.63	74.00	-24.37	peak																								
<p>Remarks:</p> <p>1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor</p> <p>2. Margin value = Level -Limit value</p>																															



Ant. Pol.:	Vertical																														
Test Mode:	TX 802.11n(HT40) Mode 5190MHz (U-NII-1)																														
Remark:	No report for the emission which more than 10 dB below the prescribed limit.																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	10380.112	6.70	44.52	51.22	74.00	-22.78	peak																								
2	10380.123	6.70	33.04	39.74	54.00	-14.26	AVG																								
<p>Remarks:</p> <p>1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor</p> <p>2. Margin value = Level -Limit value</p>																															



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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	10459.955	6.94	43.29	50.23	74.00	-23.77	peak																								
2	10460.111	6.94	32.80	39.74	54.00	-14.26	AVG																								
<p>Remarks:</p> <p>1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor</p> <p>2. Margin value = Level -Limit value</p>																															

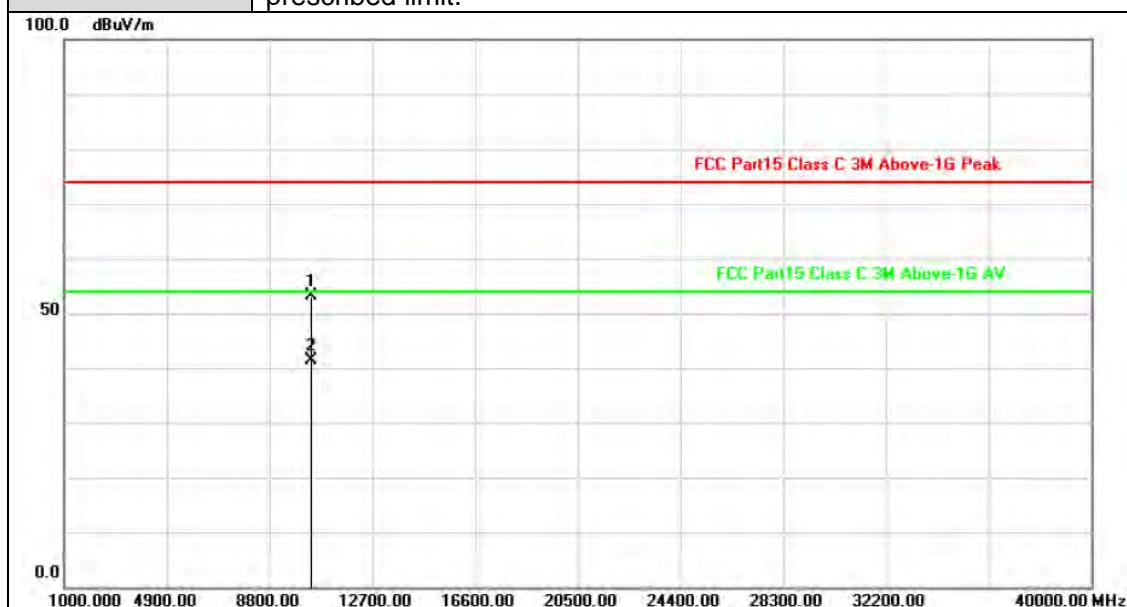


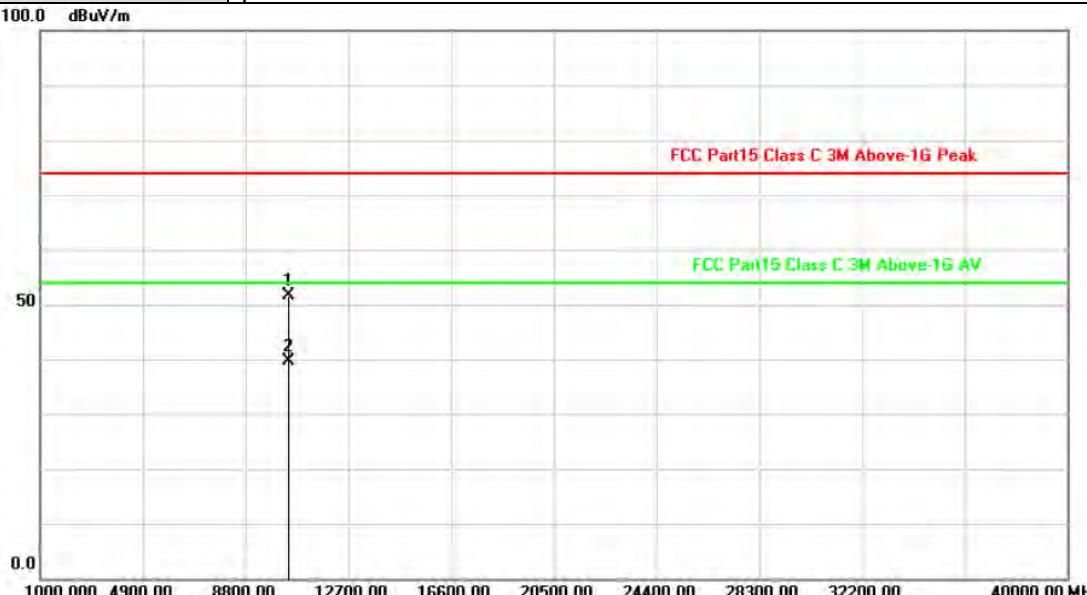
Ant. Pol.:	Vertical																														
Test Mode:	TX 802.11n(HT40) Mode 5230MHz (U-NII-1)																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	10460.068	6.94	45.47	52.41	74.00	-21.59	peak																								
2	10460.302	6.94	32.36	39.30	54.00	-14.70	AVG																								
<p>Remarks:</p> <p>1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor</p> <p>2. Margin value = Level -Limit value</p>																															



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Test Mode:	TX 802.11ac(VHT40) Mode 5190MHz (U-NII-1)																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	10379.845	6.70	44.92	51.62	74.00	-22.38	peak																								
2	10380.110	6.70	31.86	38.56	54.00	-15.44	AVG																								
<p>Remarks:</p> <p>1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor</p> <p>2. Margin value = Level -Limit value</p>																															

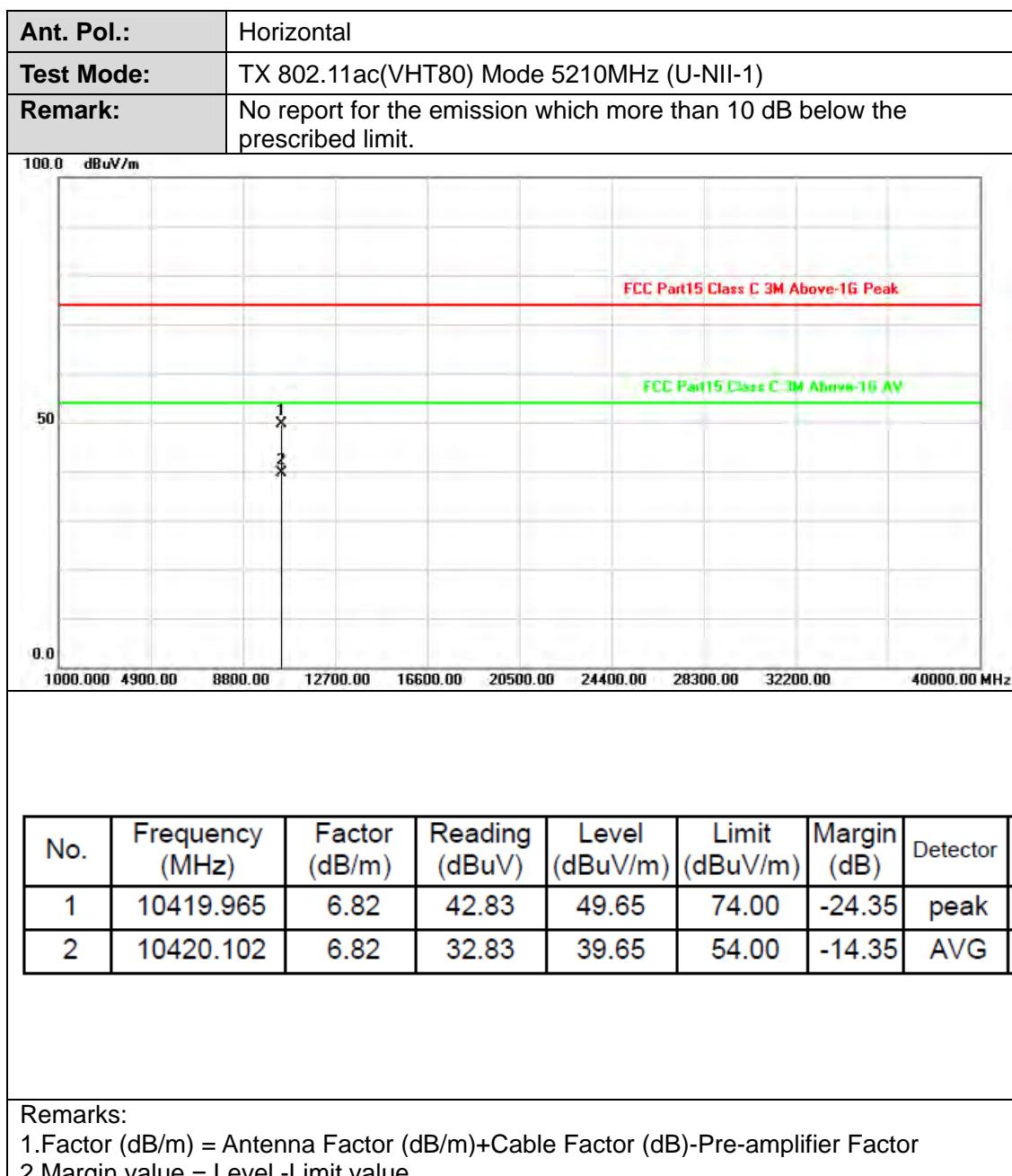


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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	10379.985	6.70	46.45	53.15	74.00	-20.85	peak																								
2	10380.013	6.70	34.60	41.30	54.00	-12.70	AVG																								
<p>Remarks:</p> <p>1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor</p> <p>2. Margin value = Level -Limit value</p>																															

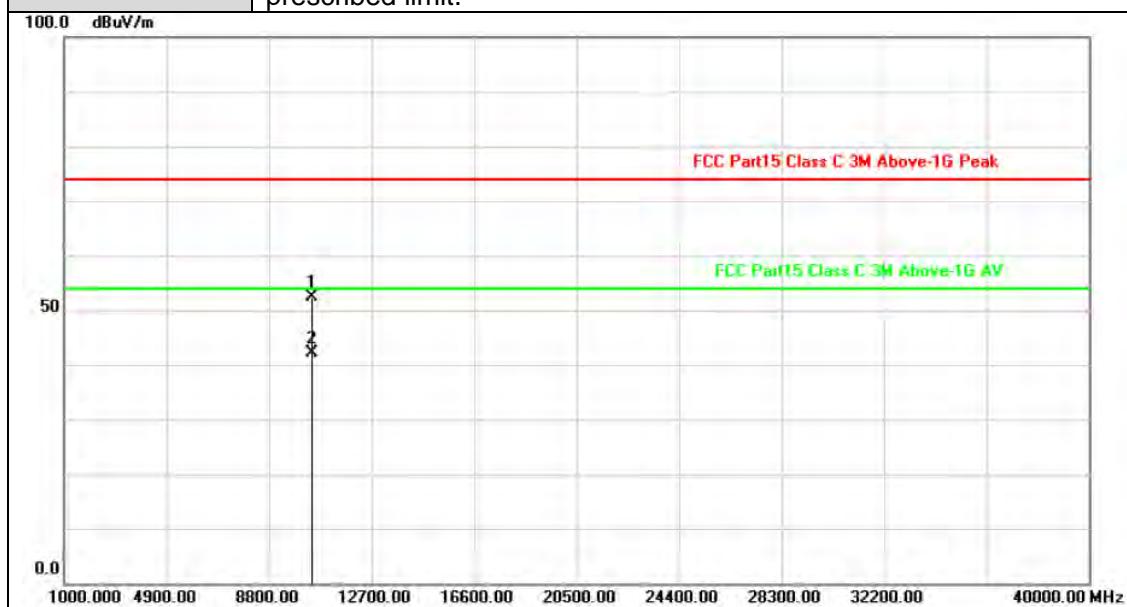
Ant. Pol.:	Horizontal																														
Test Mode:	TX 802.11ac(VHT40) Mode 5230MHz (U-NII-1)																														
Remark:	No report for the emission which more than 10 dB below the prescribed limit.																														
 <p>The figure is a spectral emission mask plot showing dBuV/m on the y-axis (0.0 to 100.0) versus MHz on the x-axis (1000.000 to 40000.00). A red horizontal line at 74.00 dBuV/m represents the FCC Part15 Class C 3M Above-1G Peak limit. A green horizontal line at 54.00 dBuV/m represents the FCC Part15 Class C 3M Above-1G AV limit. Two data points are plotted: point 1 at 10459.842 MHz with a level of 51.57 dBuV/m, and point 2 at 10460.135 MHz with a level of 39.74 dBuV/m. The margin for point 1 is -22.43 dB (51.57 - 74.00), and for point 2 is -14.26 dB (39.74 - 54.00).</p>																															
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	10459.842	6.94	44.63	51.57	74.00	-22.43	peak																								
2	10460.135	6.94	32.80	39.74	54.00	-14.26	AVG																								

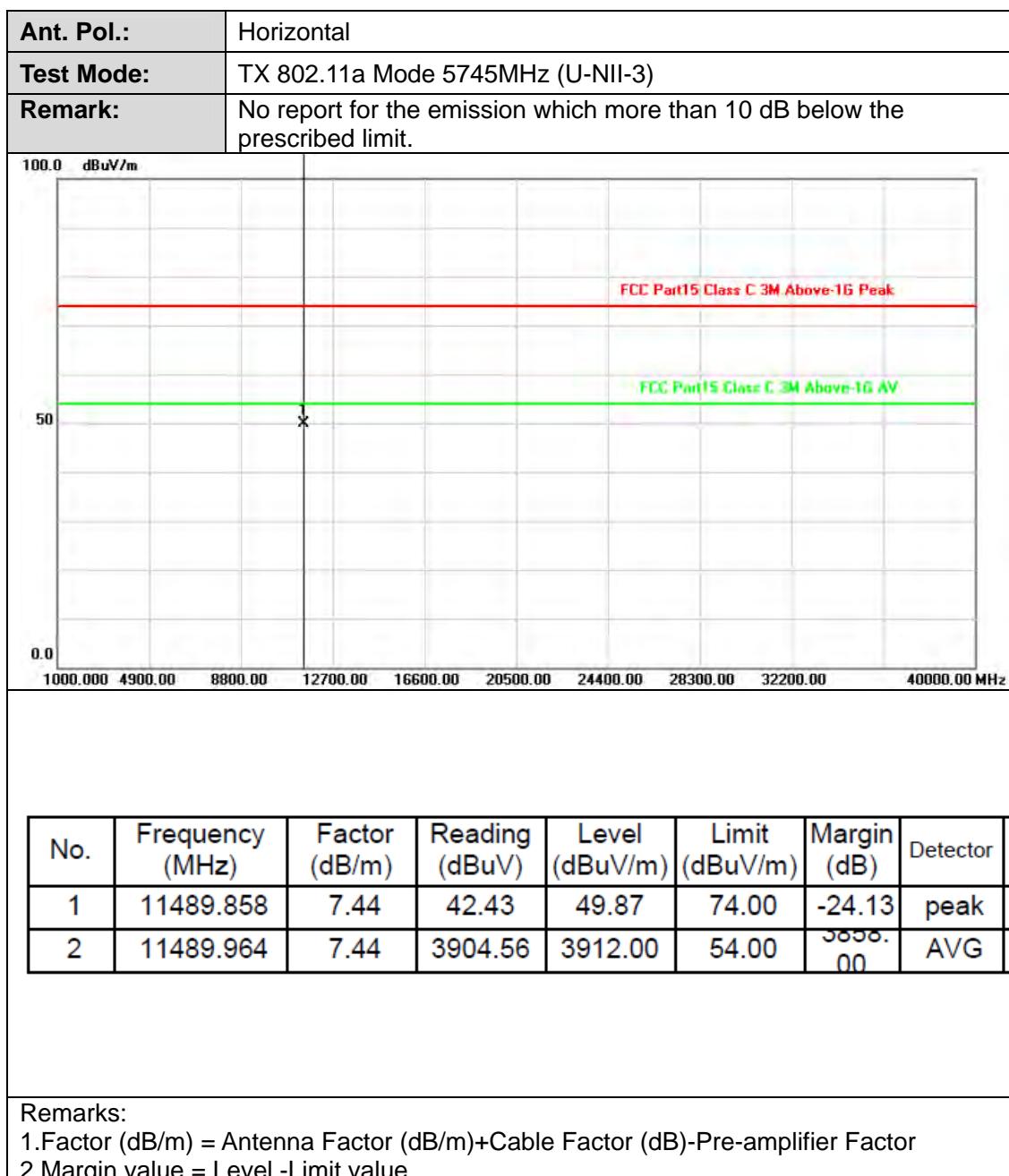


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Test Mode:	TX 802.11ac(VHT40) Mode 5230MHz (U-NII-1)																														
Remark:	No report for the emission which more than 10 dB below the prescribed limit.																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	10459.859	6.94	44.30	51.24	74.00	-22.76	peak																								
2	10460.234	6.94	34.32	41.26	54.00	-12.74	AVG																								
<p>Remarks:</p> <p>1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor</p> <p>2. Margin value = Level -Limit value</p>																															





Ant. Pol.:	Vertical																														
Test Mode:	TX 802.11ac(VHT80) Mode 5210MHz (U-NII-1)																														
Remark:	No report for the emission which more than 10 dB below the prescribed limit.																														
																															
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	10420.032	6.82	45.59	52.41	74.00	-21.59	peak																								
2	10420.162	6.82	35.35	42.17	54.00	-11.83	AVG																								
<p>Remarks:</p> <p>1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor</p> <p>2. Margin value = Level -Limit value</p>																															





Ant. Pol.:	Vertical																														
Test Mode:	TX 802.11a Mode 5745MHz (U-NII-3)																														
Remark:	No report for the emission which more than 10 dB below the prescribed limit.																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	11490.203	7.44	50.23	57.67	74.00	-16.33	peak																								
2	11490.203	7.44	34.86	42.30	54.00	-11.70	AVG																								
<p>Remarks:</p> <p>1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor</p> <p>2. Margin value = Level -Limit value</p>																															



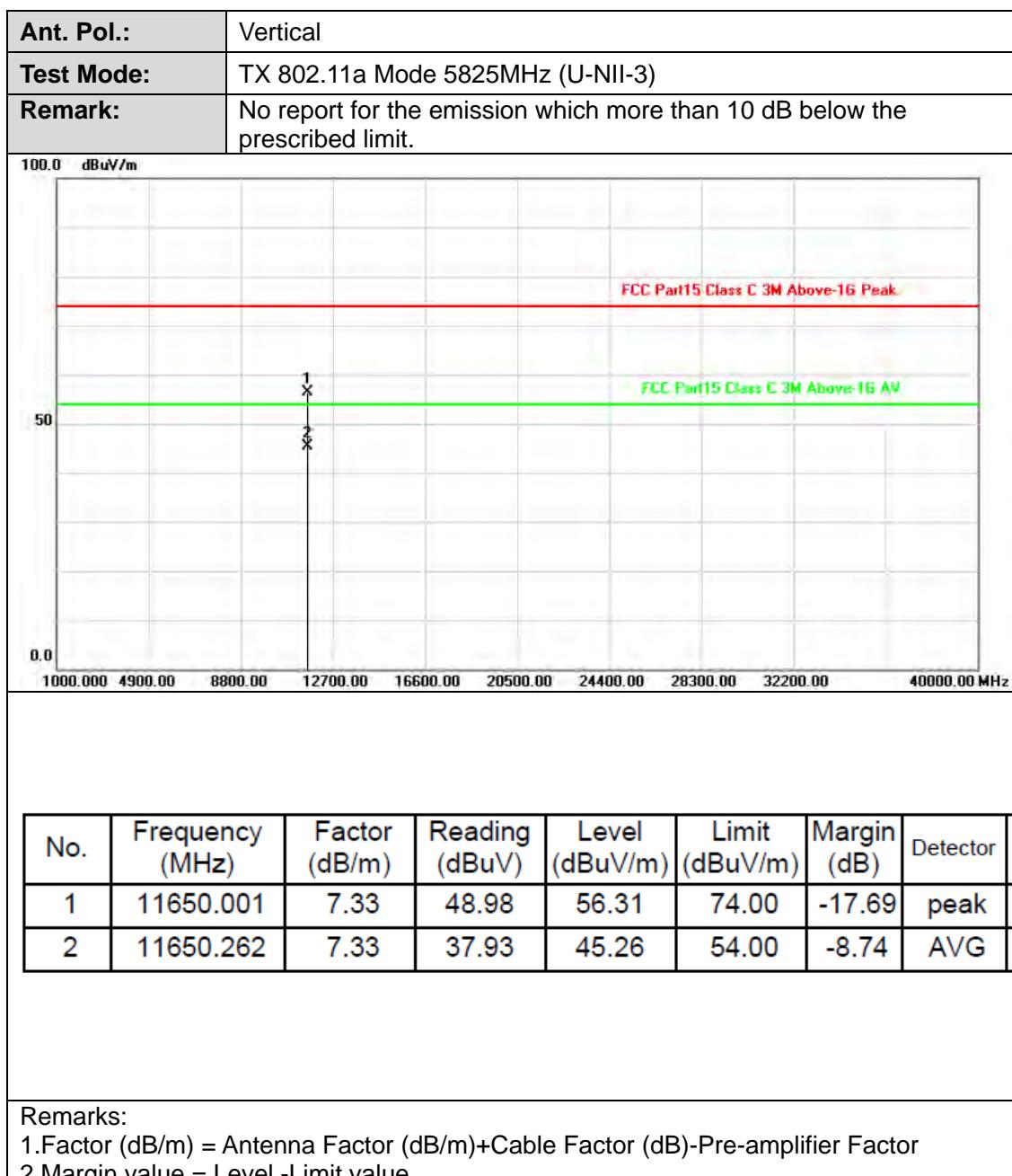
Ant. Pol.:	Horizontal																														
Test Mode:	TX 802.11a Mode 5785MHz (U-NII-3)																														
Remark:	No report for the emission which more than 10 dB below the prescribed limit.																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	11569.989	7.39	32.73	40.12	54.00	-13.88	AVG																								
2	11570.078	7.39	47.08	54.47	74.00	-19.53	peak																								
<p>Remarks:</p> <p>1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor</p> <p>2. Margin value = Level -Limit value</p>																															



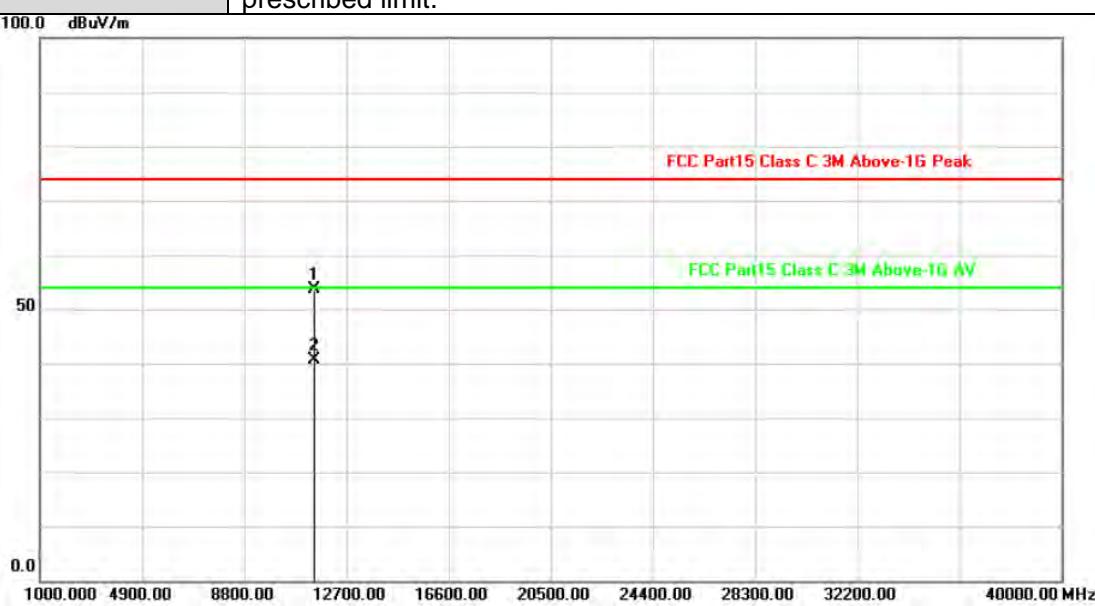
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Test Mode:	TX 802.11a Mode 5785MHz (U-NII-3)																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	11569.868	7.39	50.05	57.44	74.00	-16.56	peak																								
2	11570.006	7.39	50.24	57.63	54.00	3.63	AVG																								
<p>Remarks:</p> <p>1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor</p> <p>2. Margin value = Level -Limit value</p>																															



Ant. Pol.:	Horizontal																														
Test Mode:	TX 802.11a Mode 5825MHz (U-NII-3)																														
Remark:	No report for the emission which more than 10 dB below the prescribed limit.																														
<table border="1"><thead><tr><th>No.</th><th>Frequency (MHz)</th><th>Factor (dB/m)</th><th>Reading (dBuV)</th><th>Level (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Detector</th></tr></thead><tbody><tr><td>1</td><td>11650.102</td><td>7.33</td><td>32.79</td><td>40.12</td><td>54.00</td><td>-13.88</td><td>AVG</td></tr><tr><td>2</td><td>11650.124</td><td>7.33</td><td>46.29</td><td>53.62</td><td>74.00</td><td>-20.38</td><td>peak</td></tr></tbody></table>								No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1	11650.102	7.33	32.79	40.12	54.00	-13.88	AVG	2	11650.124	7.33	46.29	53.62	74.00	-20.38	peak
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	11650.102	7.33	32.79	40.12	54.00	-13.88	AVG																								
2	11650.124	7.33	46.29	53.62	74.00	-20.38	peak																								
<p>Remarks:</p> <p>1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor</p> <p>2. Margin value = Level -Limit value</p>																															



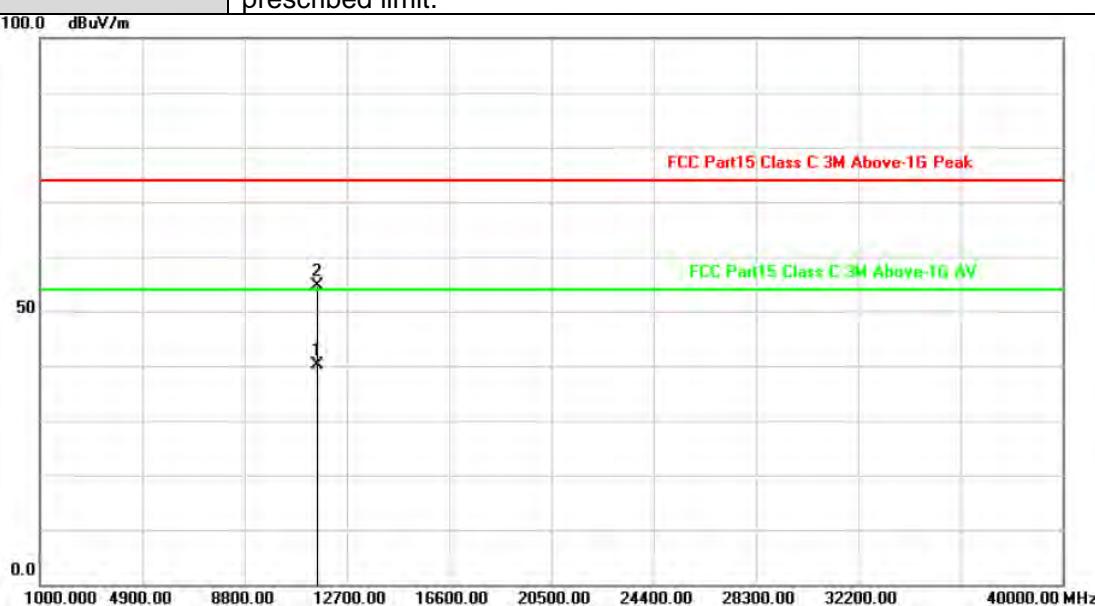


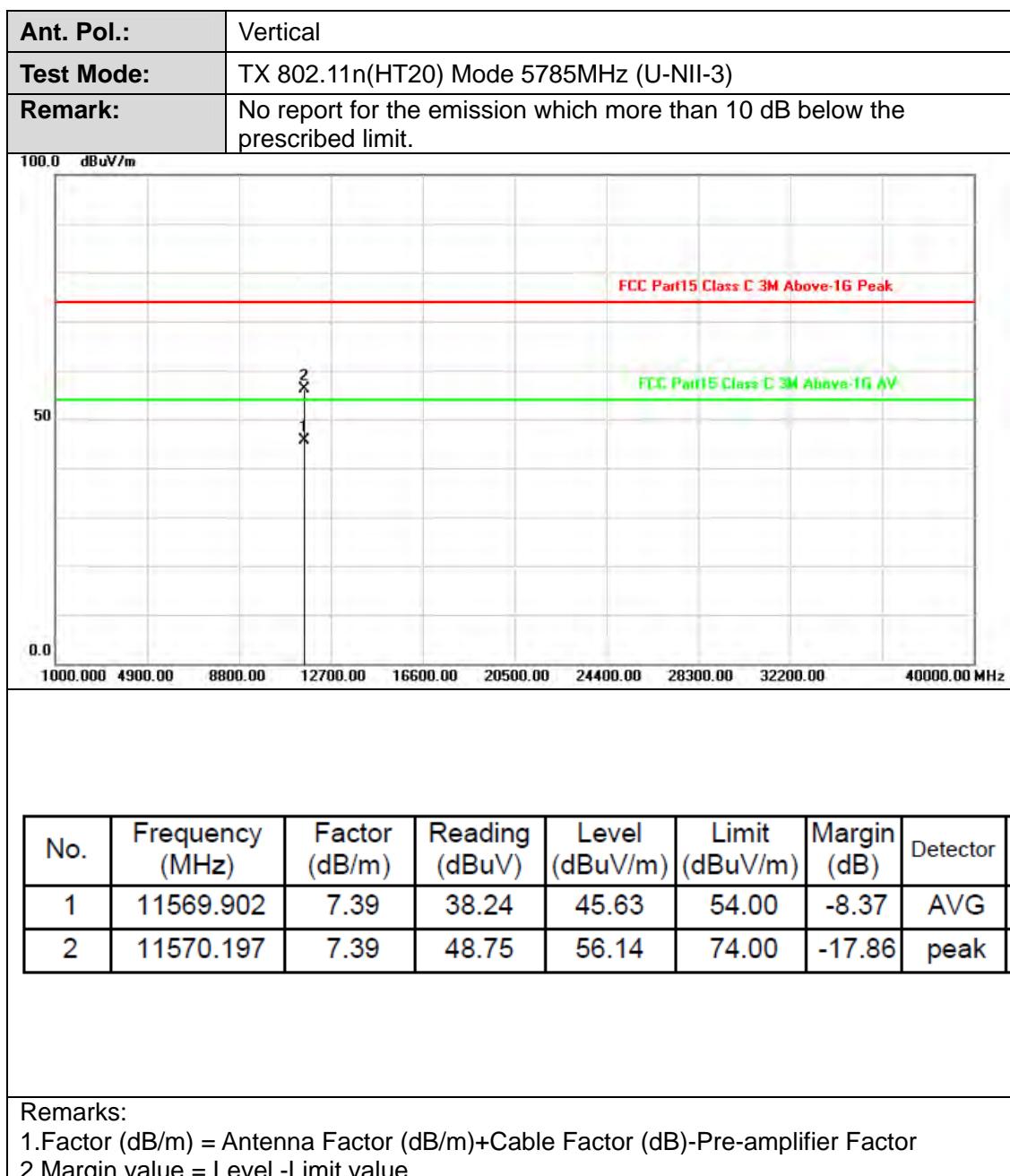
Ant. Pol.:	Horizontal																														
Test Mode:	TX 802.11n(HT20) Mode 5745MHz (U-NII-3)																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	11489.868	7.44	46.23	53.67	74.00	-20.33	peak																								
2	11490.102	7.44	33.11	40.55	54.00	-13.45	AVG																								
<p>Remarks:</p> <p>1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor</p> <p>2. Margin value = Level -Limit value</p>																															



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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	11489.964	7.44	50.19	57.63	74.00	-16.37	peak																								
2	11490.230	7.44	37.42	44.86	54.00	-9.14	AVG																								
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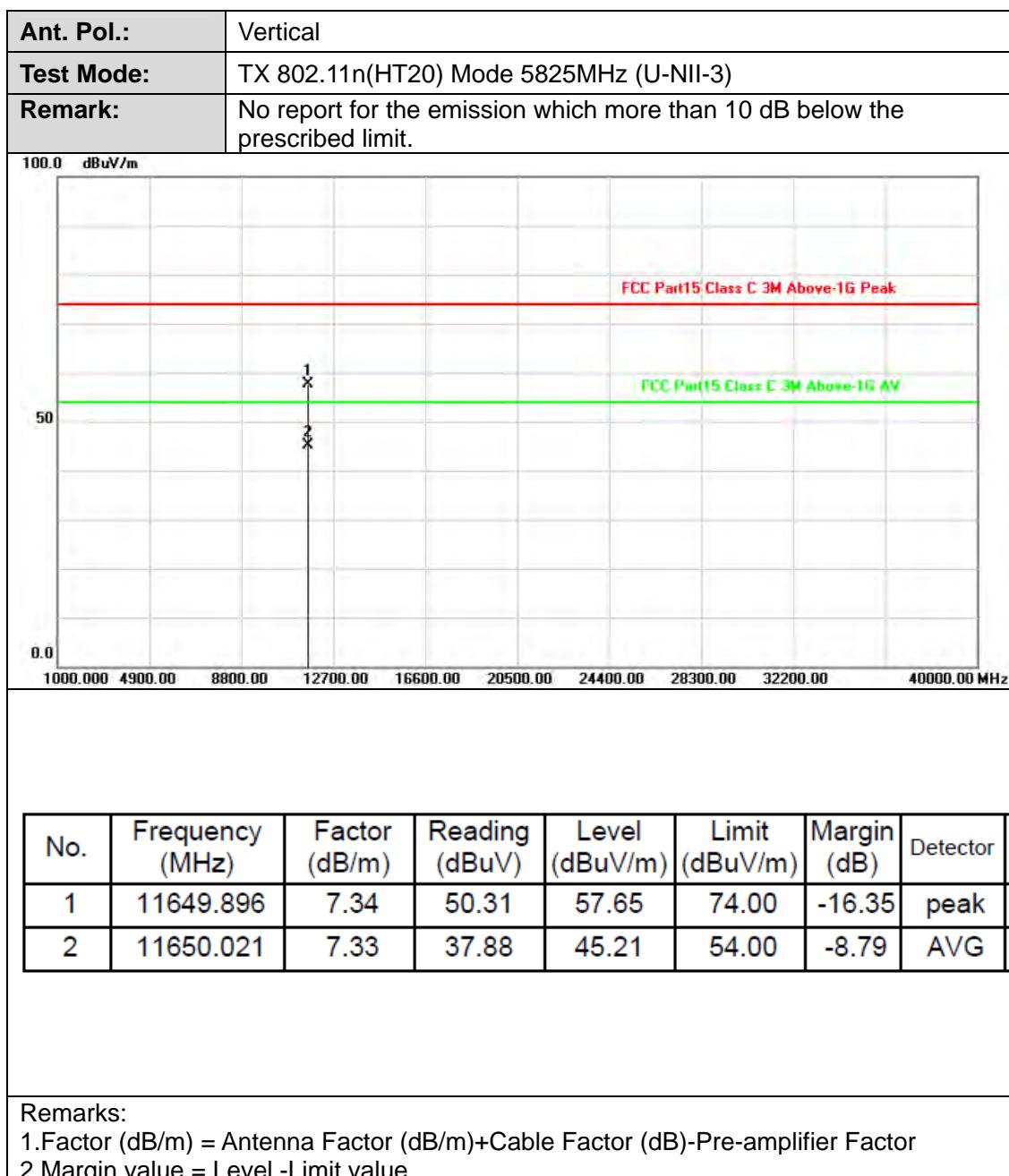


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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																									
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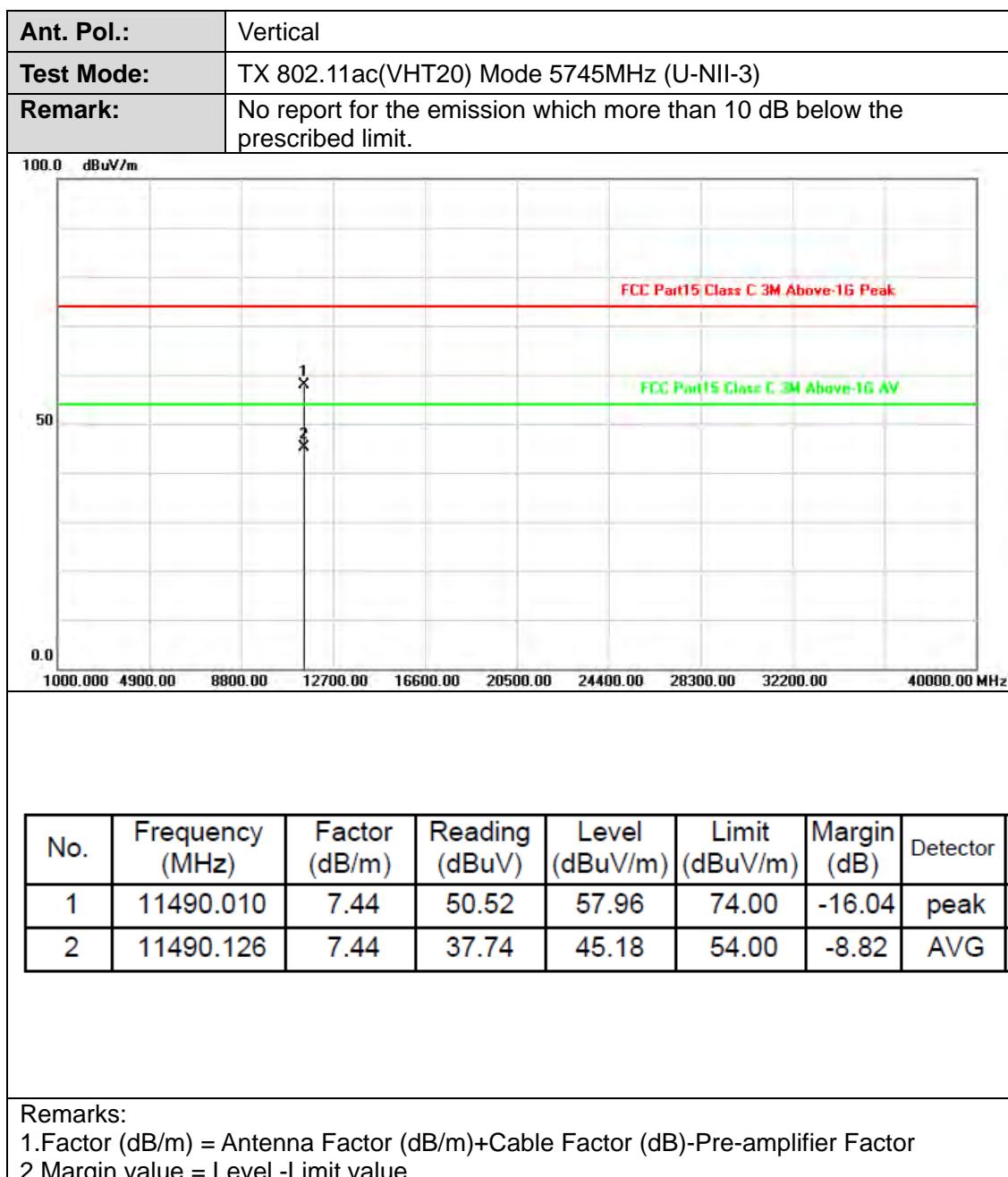


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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	11650.024	7.33	31.36	38.69	54.00	-15.31	AVG																								
2	11650.105	7.33	46.54	53.87	74.00	-20.13	peak																								
<p>Remarks:</p> <p>1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor</p> <p>2. Margin value = Level -Limit value</p>																															





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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	11489.840	7.44	46.00	53.44	74.00	-20.56	peak																								
2	11490.158	7.44	32.40	39.84	54.00	-14.16	AVG																								
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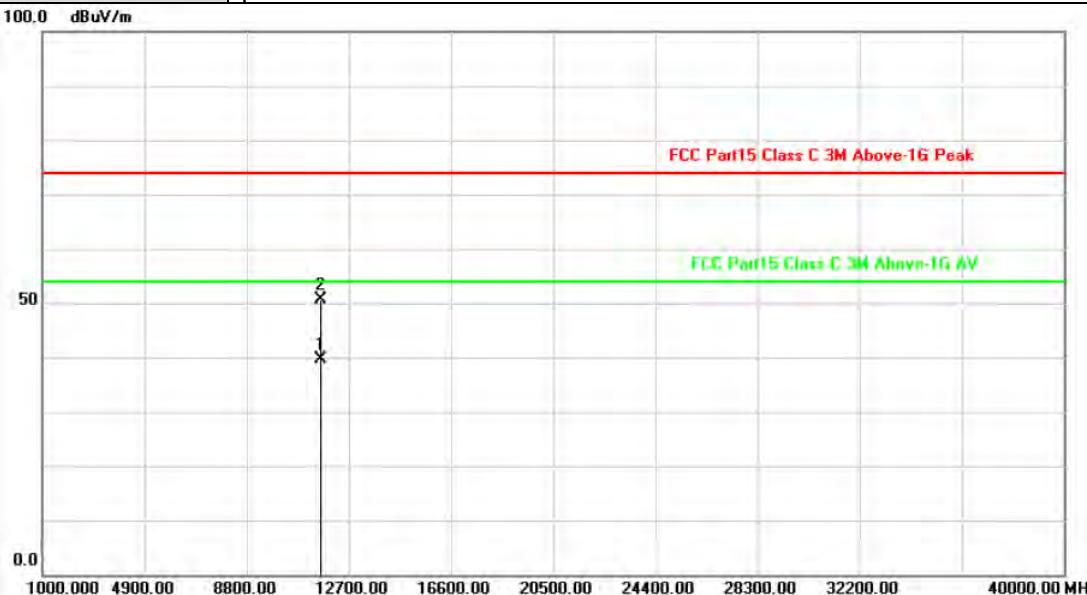


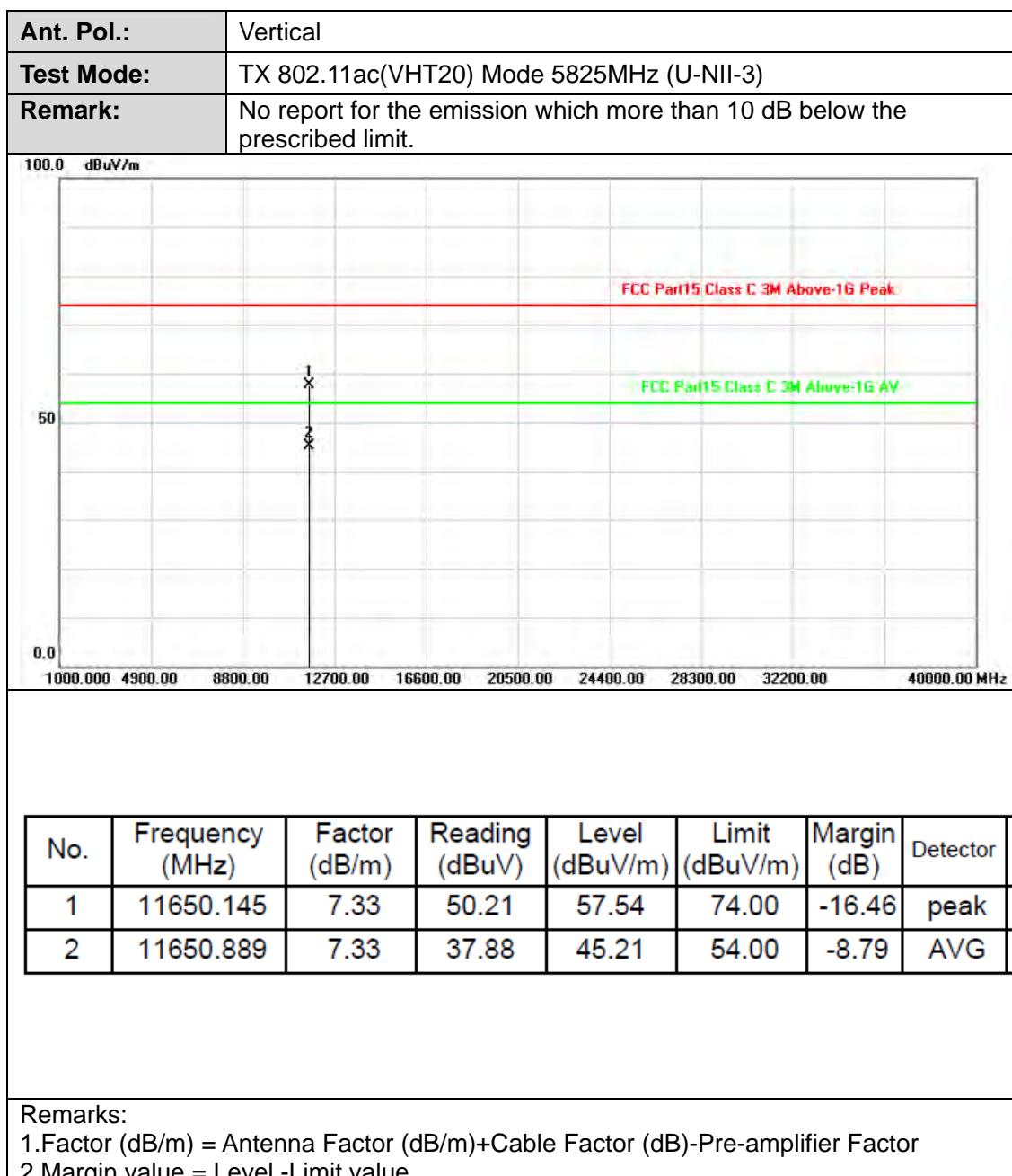
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Test Mode:	TX 802.11ac(VHT20) Mode 5785MHz (U-NII-3)																														
Remark:	No report for the emission which more than 10 dB below the prescribed limit.																														
<table border="1"><thead><tr><th>No.</th><th>Frequency (MHz)</th><th>Factor (dB/m)</th><th>Reading (dBuV)</th><th>Level (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Detector</th></tr></thead><tbody><tr><td>1</td><td>11569.897</td><td>7.39</td><td>32.75</td><td>40.14</td><td>54.00</td><td>-13.86</td><td>AVG</td></tr><tr><td>2</td><td>11570.115</td><td>7.39</td><td>46.38</td><td>53.77</td><td>74.00</td><td>-20.23</td><td>peak</td></tr></tbody></table>								No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1	11569.897	7.39	32.75	40.14	54.00	-13.86	AVG	2	11570.115	7.39	46.38	53.77	74.00	-20.23	peak
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	11569.897	7.39	32.75	40.14	54.00	-13.86	AVG																								
2	11570.115	7.39	46.38	53.77	74.00	-20.23	peak																								
<p>Remarks:</p> <p>1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor</p> <p>2. Margin value = Level -Limit value</p>																															



Ant. Pol.:	Vertical																														
Test Mode:	TX 802.11ac(VHT20) Mode 5785MHz (U-NII-3)																														
Remark:	No report for the emission which more than 10 dB below the prescribed limit.																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
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<p>Remarks:</p> <p>1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor</p> <p>2. Margin value = Level -Limit value</p>																															



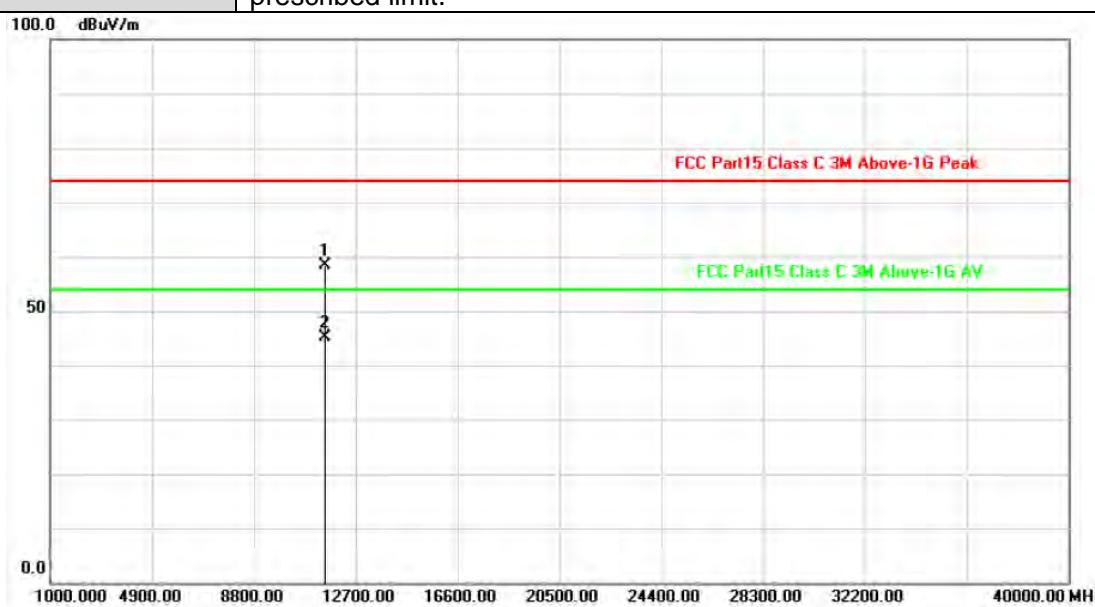
Ant. Pol.:	Horizontal																															
Test Mode:	TX 802.11ac(VHT20) Mode 5825MHz (U-NII-3)																															
Remark:	No report for the emission which more than 10 dB below the prescribed limit.																															
																																
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																									
1	11650.072	7.33	32.38	39.71	54.00	-14.29	AVG																									
2	11650.548	7.33	43.22	50.55	74.00	-23.45	peak																									
<p>Remarks:</p> <p>1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor</p> <p>2. Margin value = Level -Limit value</p>																																



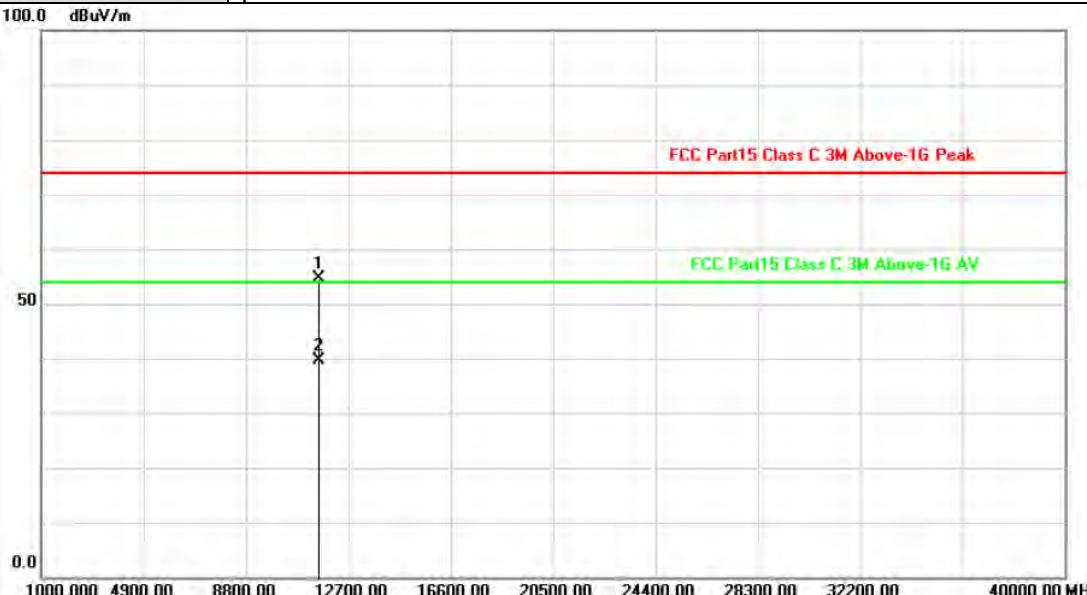


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Test Mode:	TX 802.11n(HT40) Mode 5755MHz (U-NII-3)																														
Remark:	No report for the emission which more than 10 dB below the prescribed limit.																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	11510.114	7.43	31.98	39.41	54.00	-14.59	AVG																								
2	11510.230	7.43	47.04	54.47	74.00	-19.53	peak																								
<p>Remarks:</p> <p>1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor</p> <p>2. Margin value = Level -Limit value</p>																															



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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	11509.990	7.43	50.98	58.41	74.00	-15.59	peak																								
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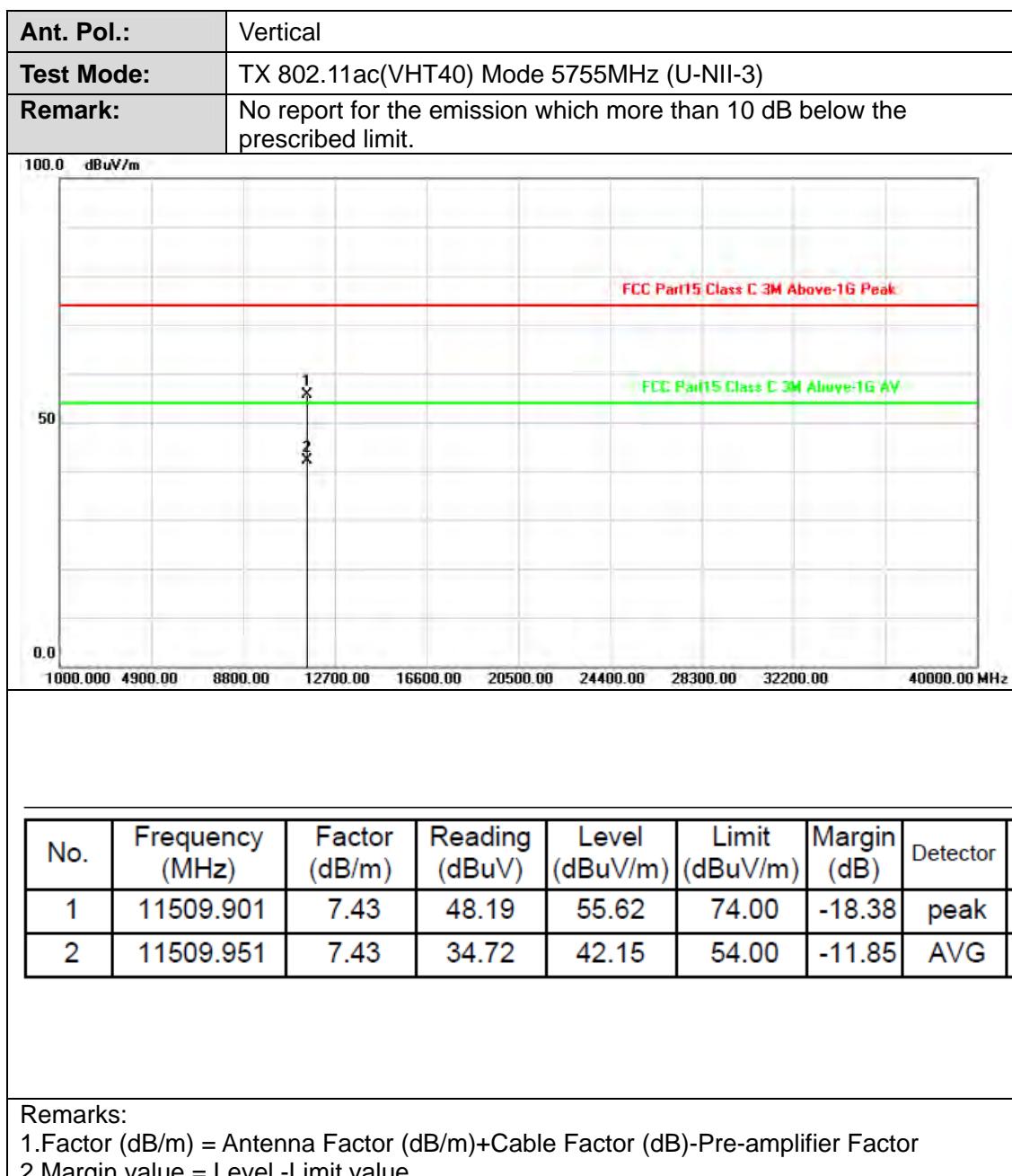
Ant. Pol.:	Horizontal																														
Test Mode:	TX 802.11n(HT40) Mode 5795MHz (U-NII-3)																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	11590.012	7.37	47.25	54.62	74.00	-19.38	peak																								
2	11590.114	7.37	32.17	39.54	54.00	-14.46	AVG																								
<p>Remarks:</p> <p>1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor</p> <p>2. Margin value = Level -Limit value</p>																															



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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	11589.875	7.37	37.25	44.62	54.00	-9.38	AVG																								
2	11589.886	7.37	49.37	56.74	74.00	-17.26	peak																								
<p>Remarks:</p> <p>1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor</p> <p>2. Margin value = Level -Limit value</p>																															



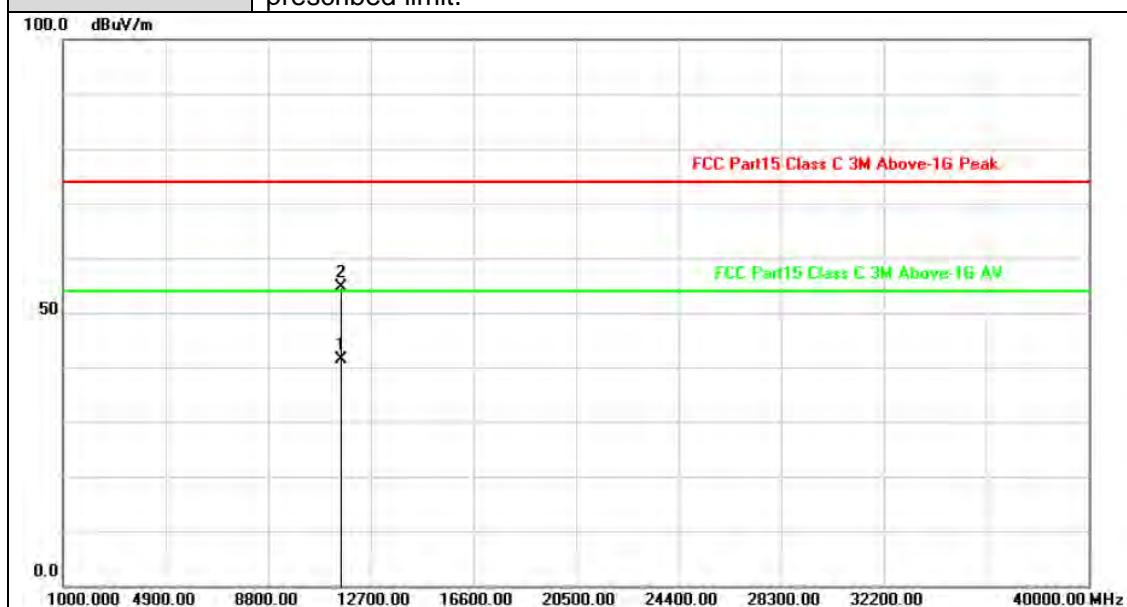
Ant. Pol.:	Horizontal																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	11510.124	7.43	46.15	53.58	74.00	-20.42	peak																								
2	11510.235	7.43	32.04	39.47	54.00	-14.53	AVG																								
<p>Remarks:</p> <p>1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor</p> <p>2. Margin value = Level -Limit value</p>																															

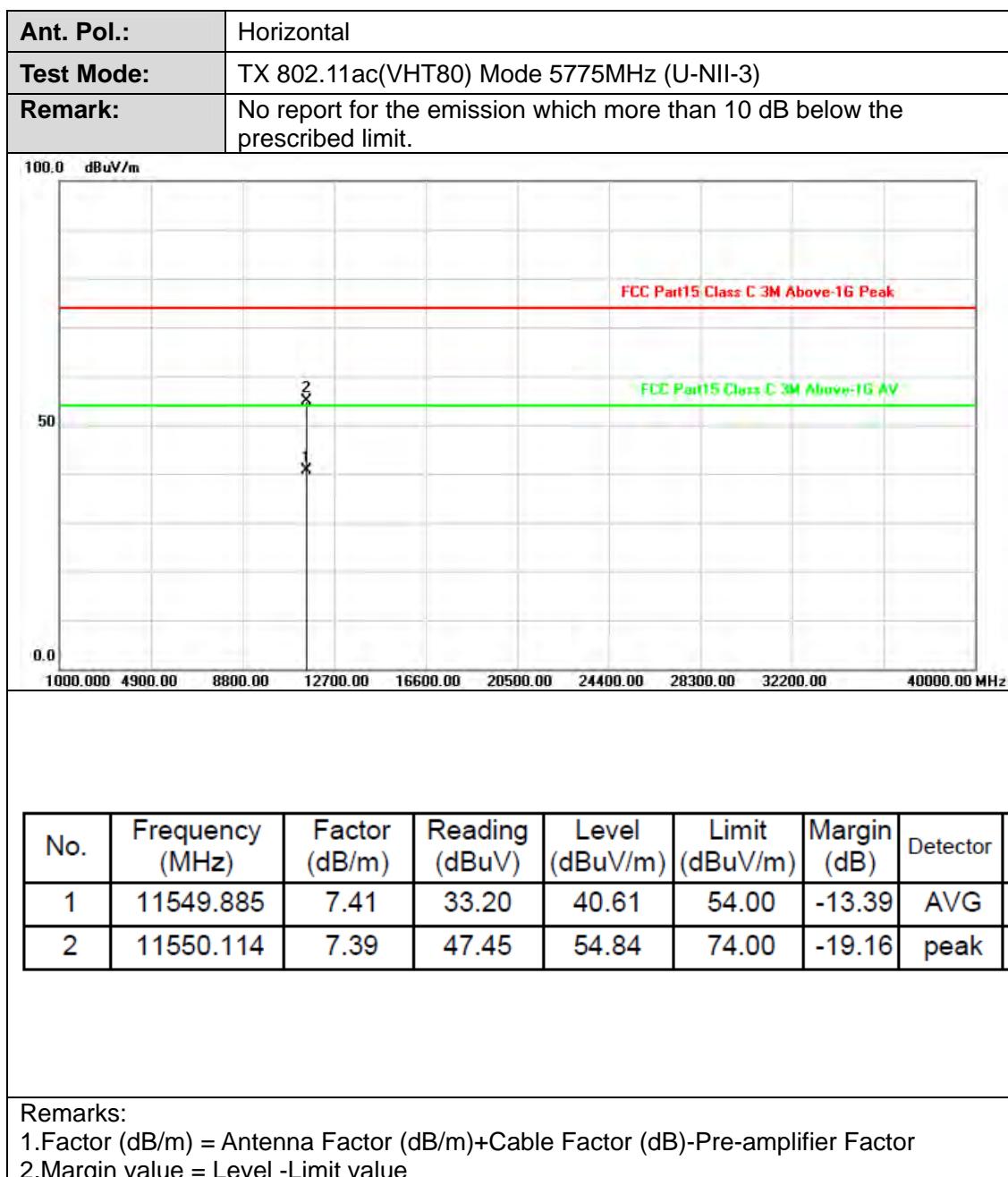




Ant. Pol.:	Horizontal																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
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2	11589.989	7.37	33.14	40.51	54.00	-13.49	AVG																								
<p>Remarks:</p> <p>1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor</p> <p>2. Margin value = Level -Limit value</p>																															



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Test Mode:	TX 802.11ac(VHT40) Mode 5795MHz (U-NII-3)																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	11589.950	7.37	33.89	41.26	54.00	-12.74	AVG																								
2	11590.068	7.37	47.26	54.63	74.00	-19.37	peak																								
<p>Remarks:</p> <p>1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor</p> <p>2. Margin value = Level -Limit value</p>																															





Ant. Pol.:	Vertical																														
Test Mode:	TX 802.11ac(VHT80) Mode 5775MHz (U-NII-3)																														
Remark:	No report for the emission which more than 10 dB below the prescribed limit.																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	11549.961	7.40	47.86	55.26	74.00	-18.74	peak																								
2	11550.035	7.39	35.27	42.66	54.00	-11.34	AVG																								
<p>Remarks:</p> <p>1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor</p> <p>2. Margin value = Level -Limit value</p>																															

3.3. Band Edge Emissions

Limit

Limits of unwanted emission out of the restricted bands

FCC CFR Title 47 Part 15 Subpart C Section 15.407(b)/ RSS-247 6.2.1.2 & RSS-247 6.2.4.2

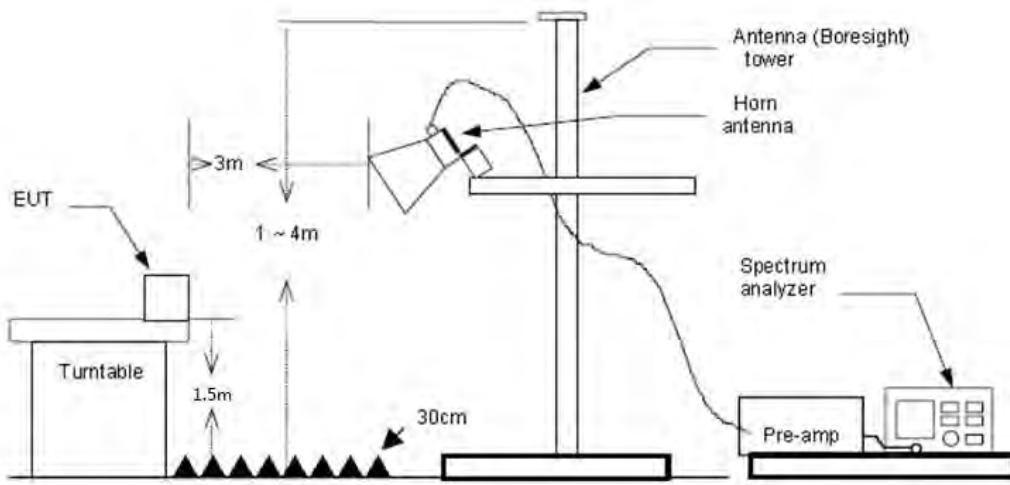
Frequency (MHz)	EIRP Limits (dBm)	Equivalent Field Strength at 3m (dBuV/m)
5150~5250	-27	68.2
5250~5350	-27	68.2
5470~5725	-27	68.2
5725~5825	-27(Note 2)	68.2
	10(Note 2)	105.2
	15.6(Note 2)	110.8
	27(Note 2)	122.2

Note: 1. The following formula is used to convert the equipment isotropic radiated power (eirp) to field

$$\text{strength: } E = \frac{1000000\sqrt{30P}}{3} \text{ uV/m, where } P \text{ is the eirp (Watts)}$$

2. According to FCC 16-24, All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27dBm/MHz at the band edge.

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:

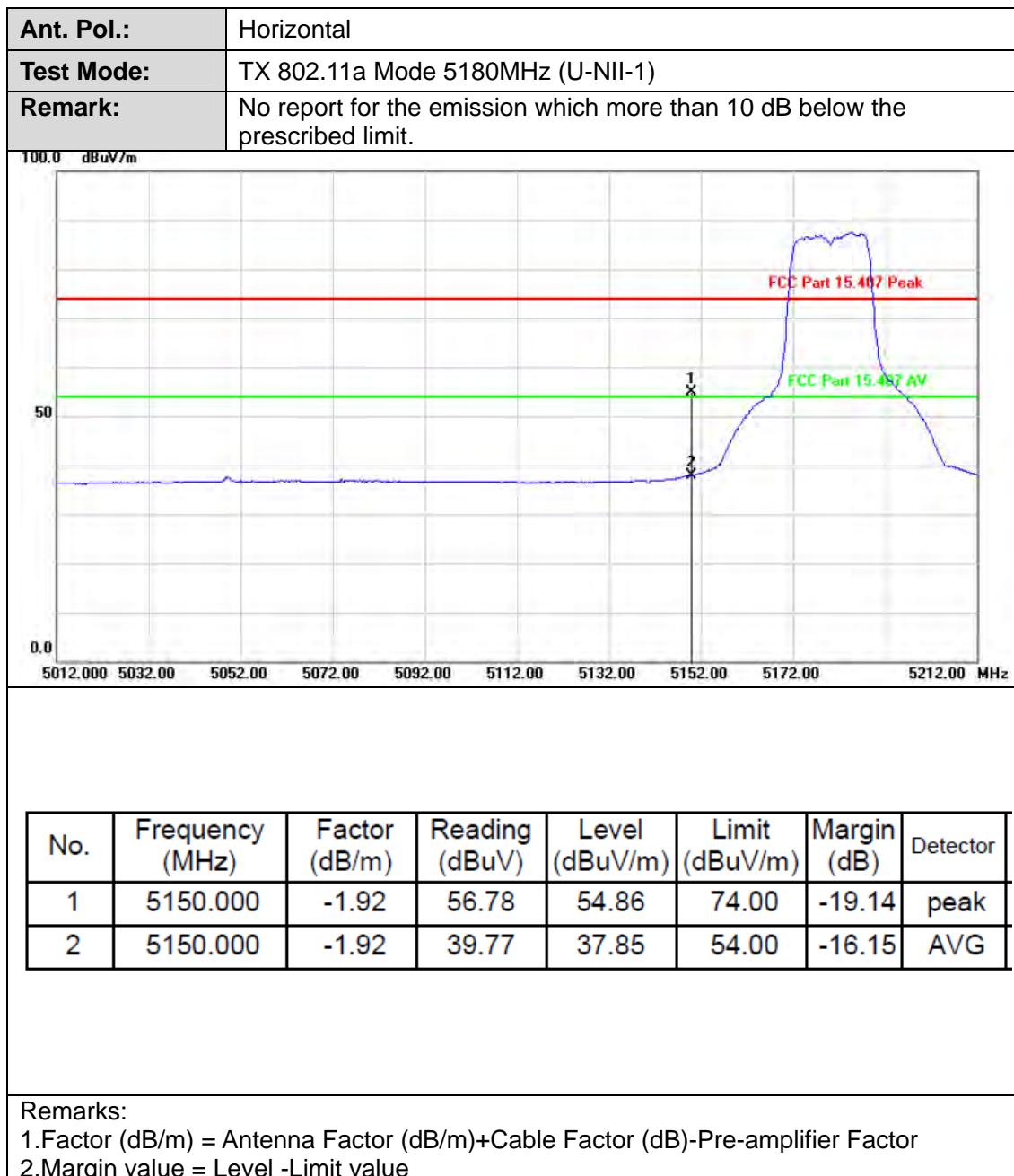
RBW=1MHz, VBW=3MHz PEAK detector for Peak value.

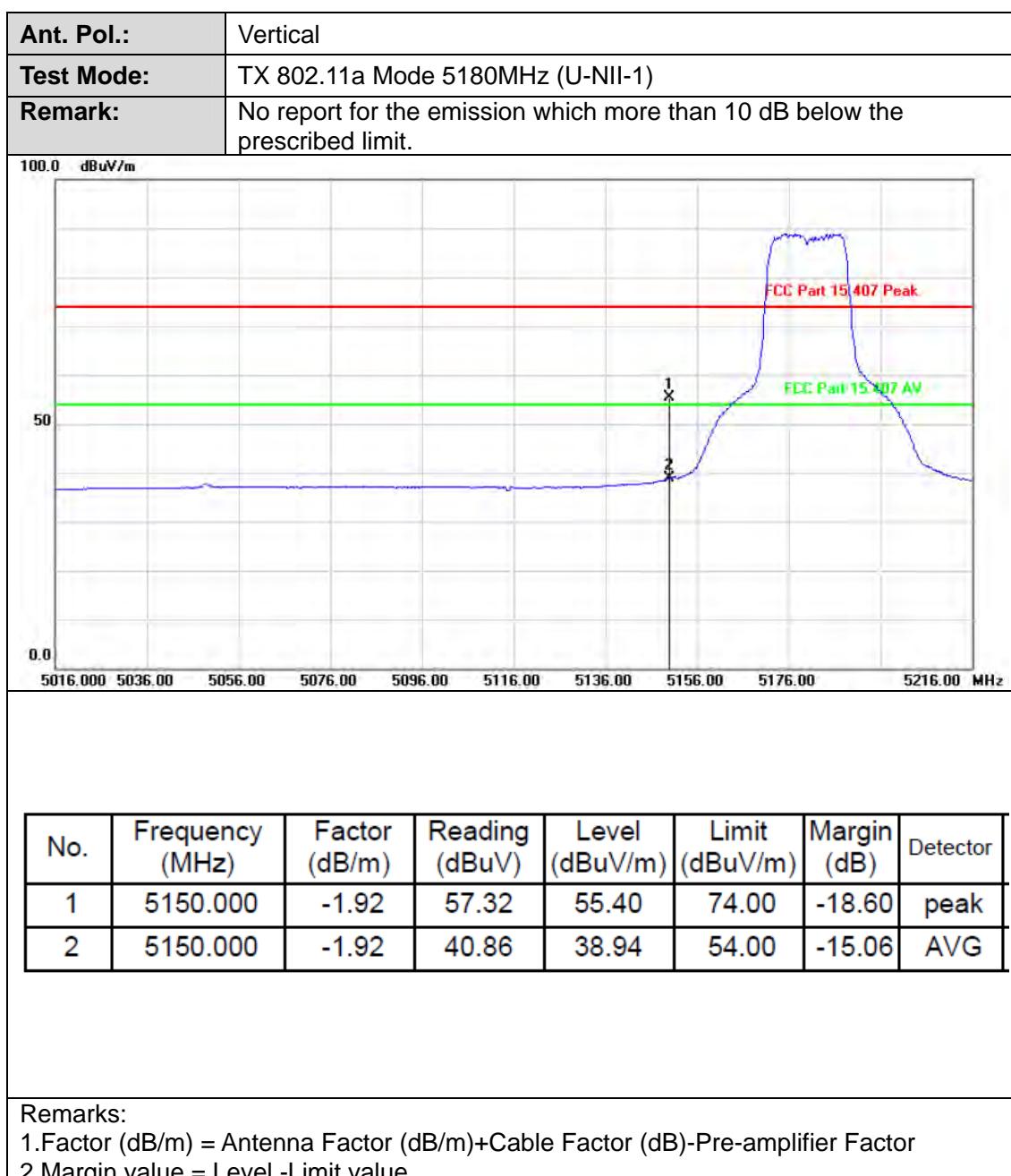
RBW=1MHz, VBW see note 1 with Peak Detector for Average Value.

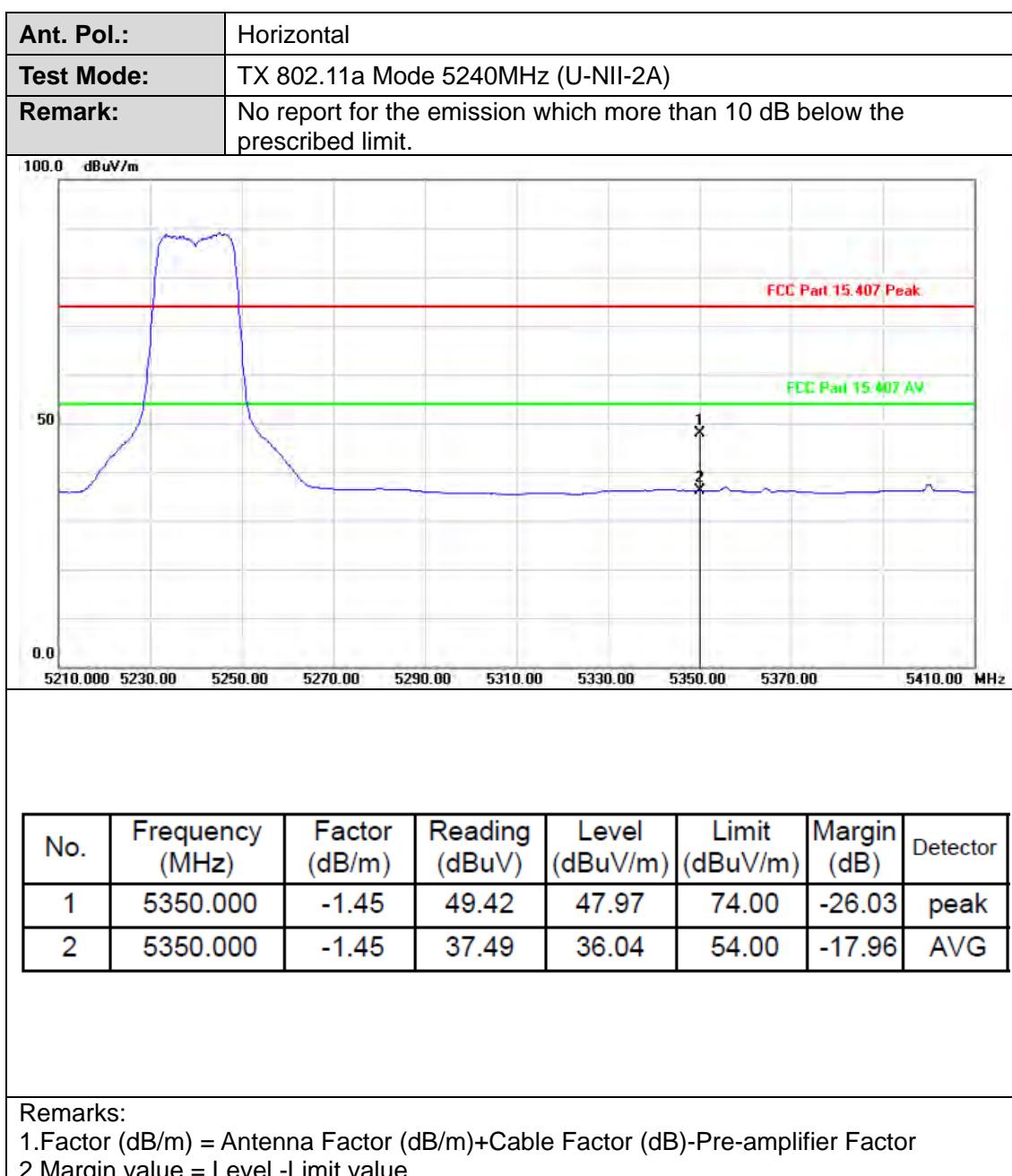
Note 1: For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T video bandwidth with peak detector for average measurements. For the Duty Cycle please refer to clause Appendix E: Duty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

Test Mode

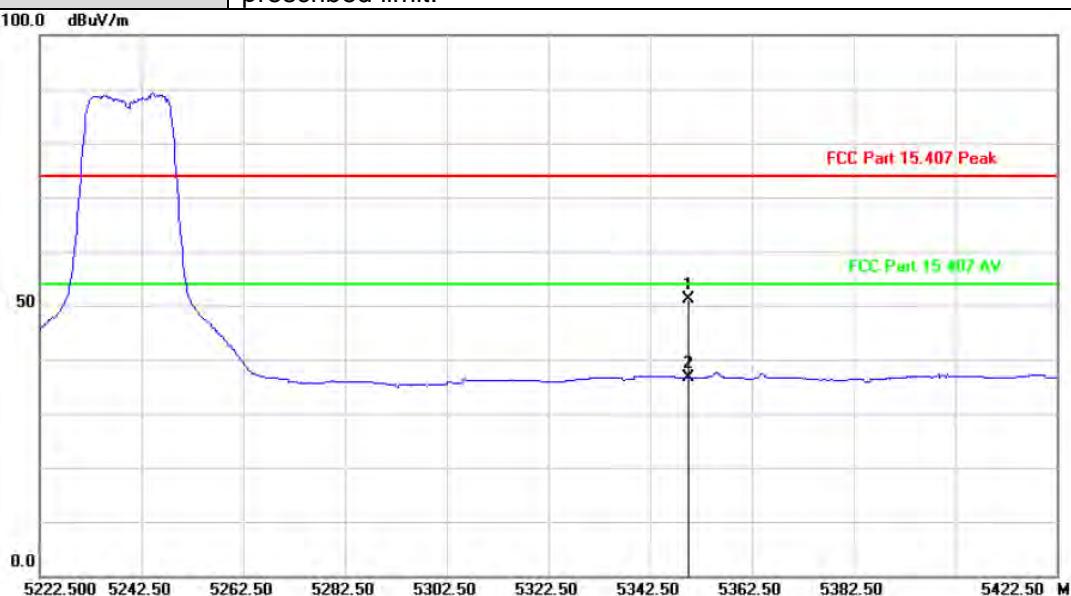
Please refer to the clause 2.4.

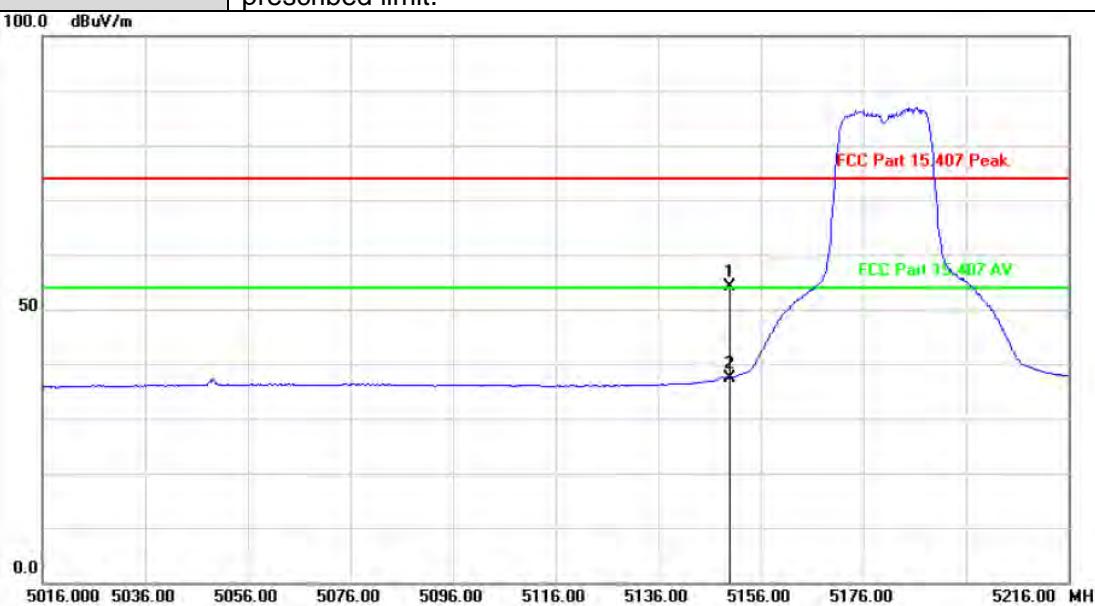
Test Results

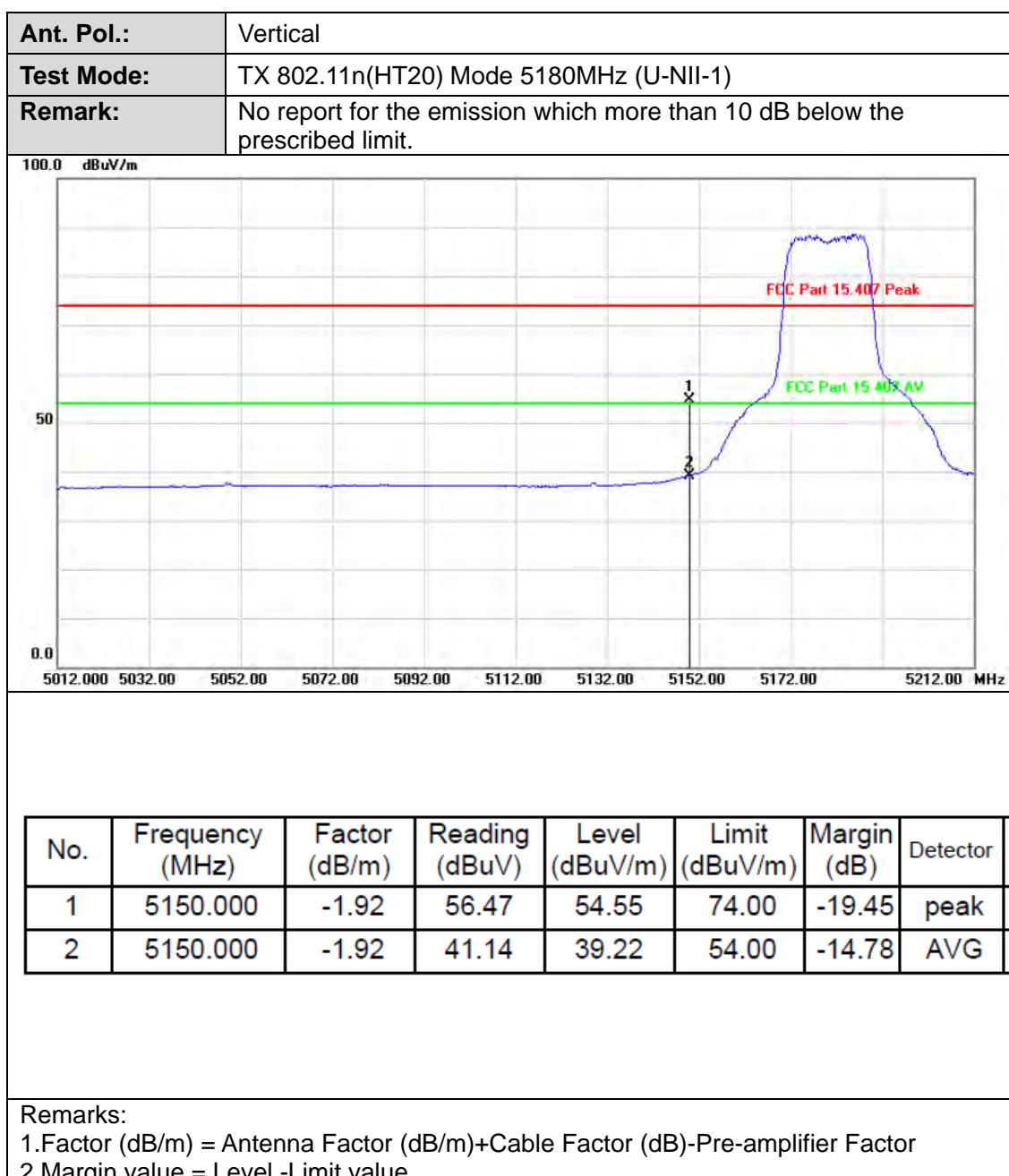


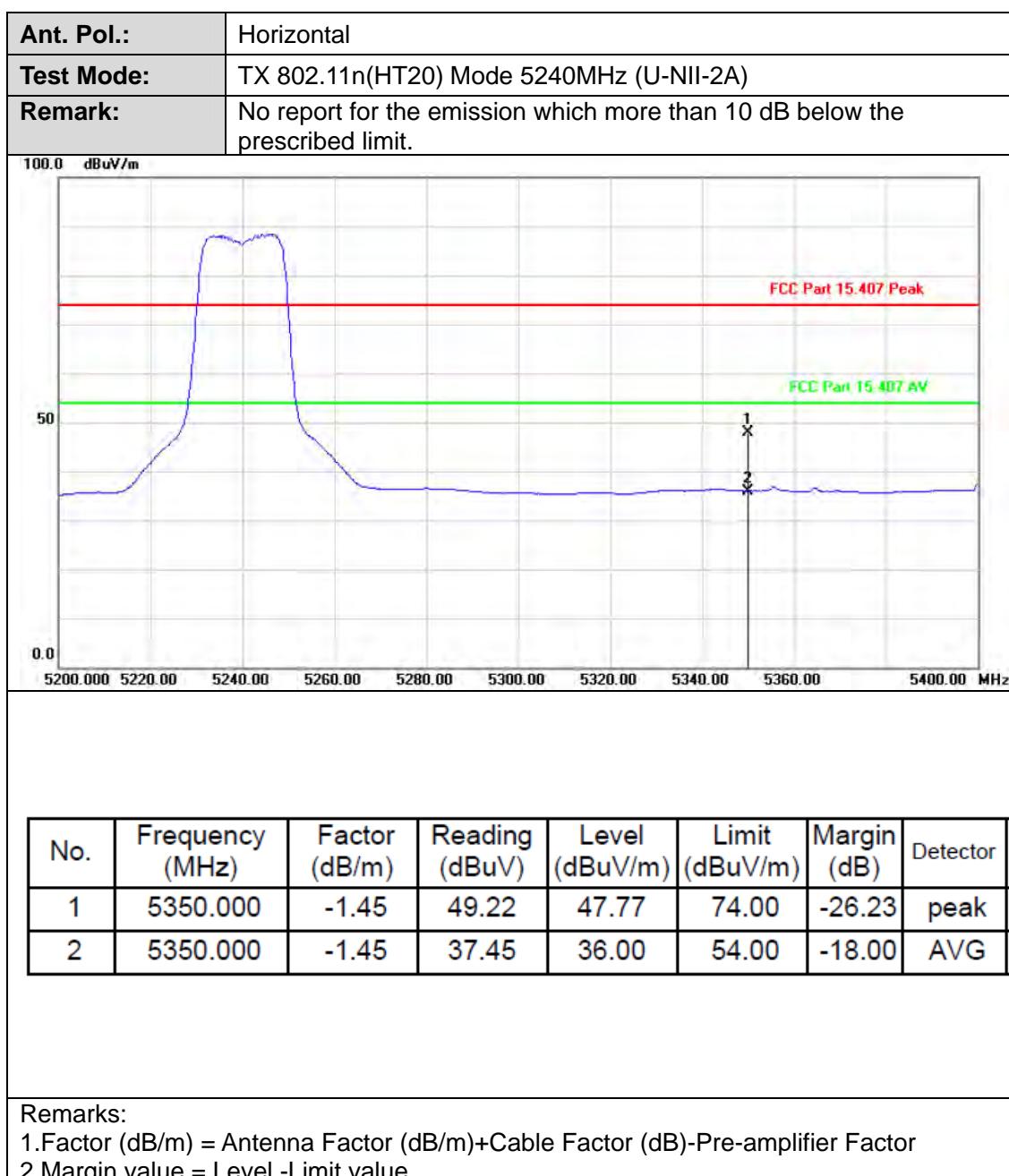




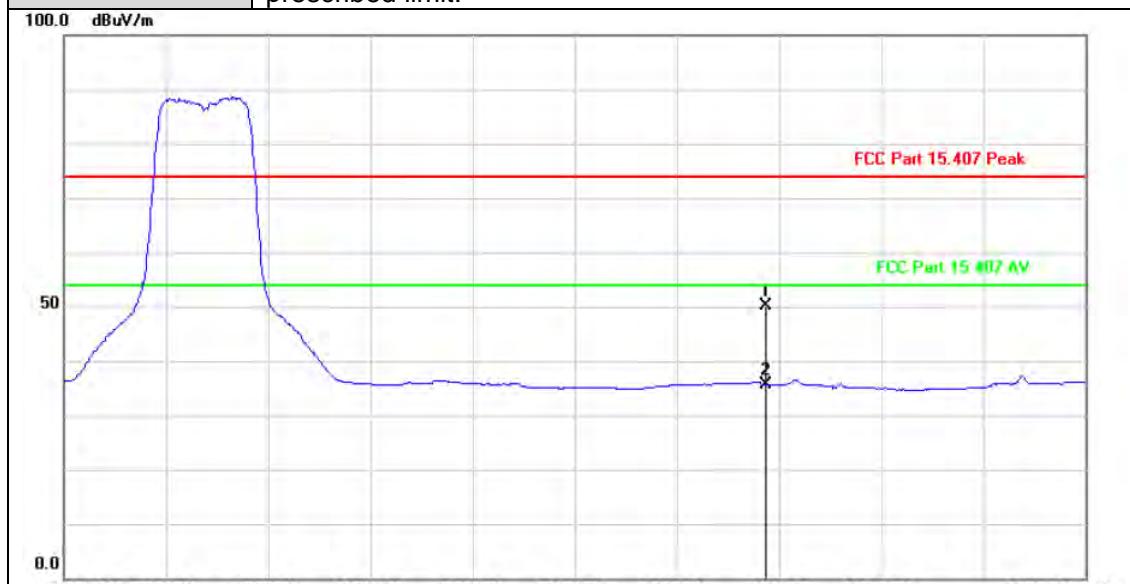
Ant. Pol.:	Vertical																														
Test Mode:	TX 802.11a Mode 5240MHz (U-NII-2A)																														
Remark:	No report for the emission which more than 10 dB below the prescribed limit.																														
																															
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	5350.000	-1.45	52.59	51.14	74.00	-22.86	peak																								
2	5350.000	-1.45	38.08	36.63	54.00	-17.37	AVG																								
<p>Remarks:</p> <p>1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor</p> <p>2. Margin value = Level -Limit value</p>																															

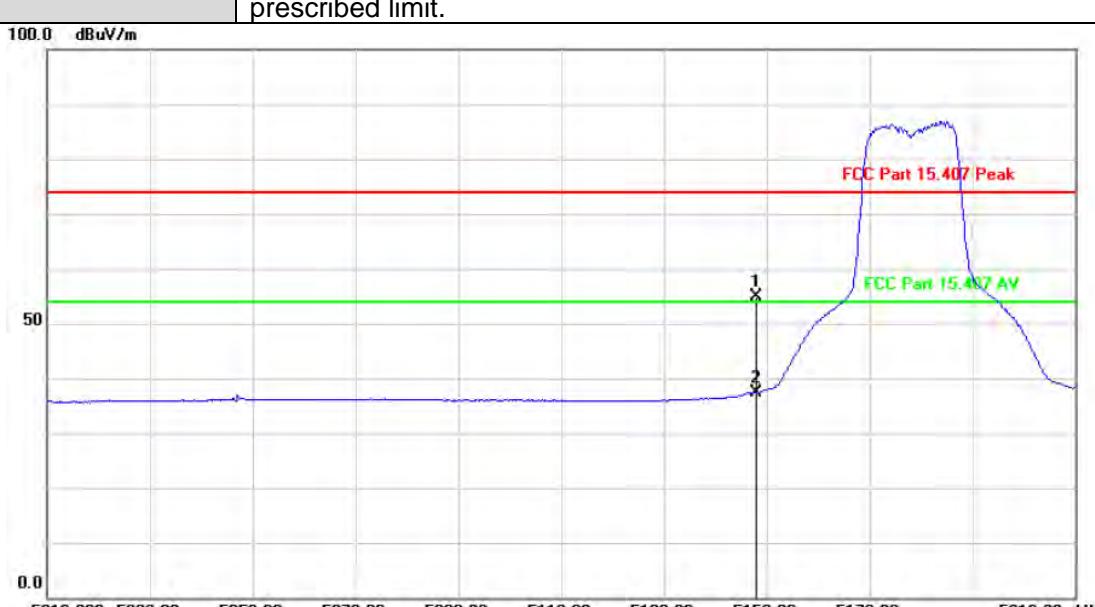
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Test Mode:	TX 802.11n(HT20) Mode 5180MHz (U-NII-1)																														
Remark:	No report for the emission which more than 10 dB below the prescribed limit.																														
 <p>The plot shows the spectral power density in dBuV/m versus frequency in MHz. The x-axis ranges from 5016.000 to 5216.000 MHz. The y-axis ranges from 0.0 to 100.0 dBuV/m. A blue line represents the measured spectrum. A red horizontal line at approximately 74 dBuV/m is labeled 'FCC Part 15.407 Peak'. A green horizontal line at approximately 54 dBuV/m is labeled 'FCC Part 15.407 AV'. Two vertical lines mark the 1 and 3 dB points of the measured spectrum. The plot shows a sharp peak at approximately 5176 MHz.</p>																															
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
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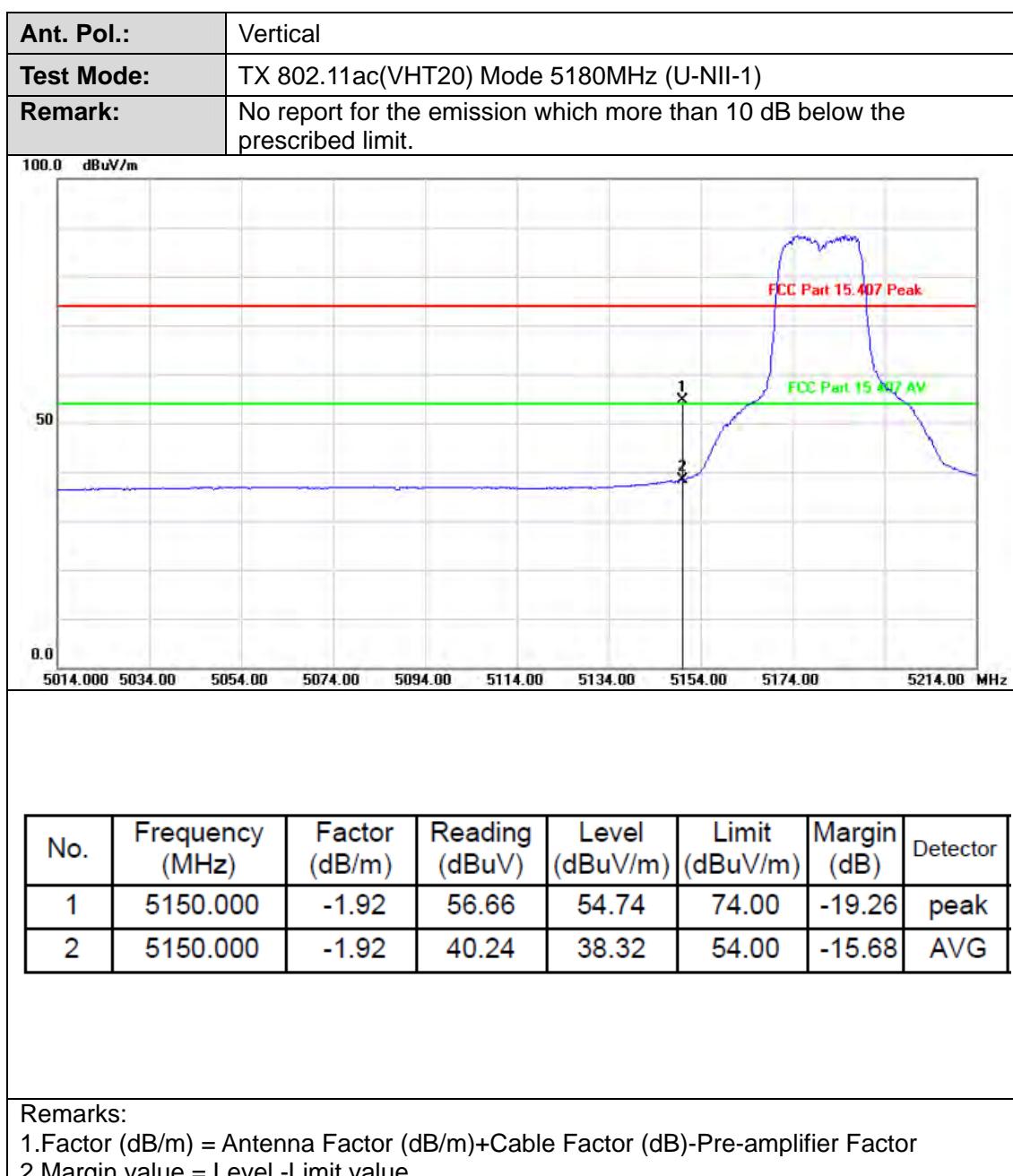




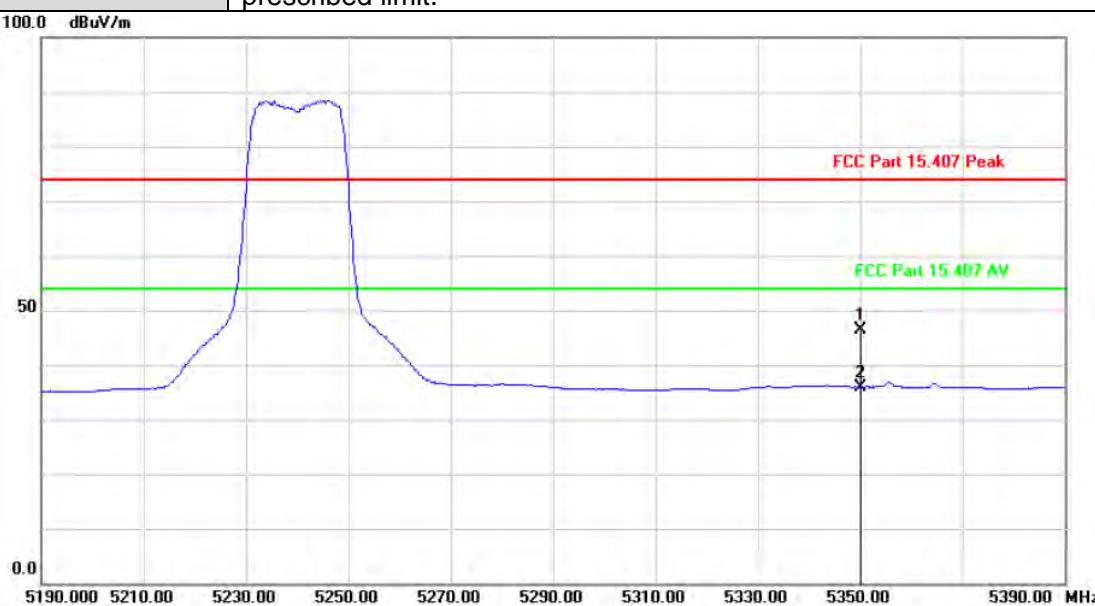


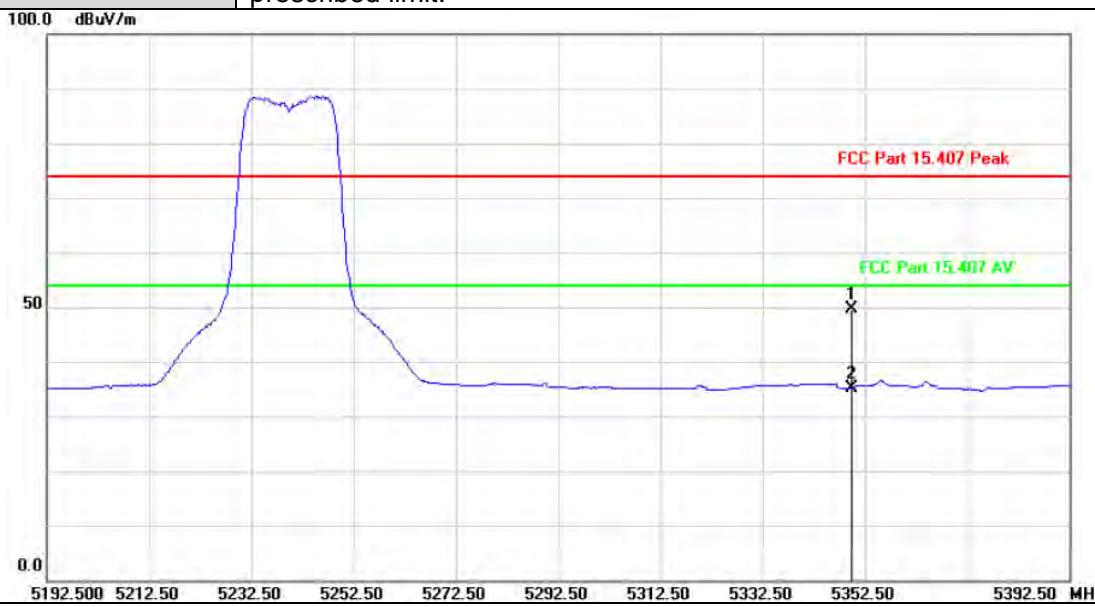
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Test Mode:	TX 802.11n(HT20) Mode 5240MHz (U-NII-2A)																														
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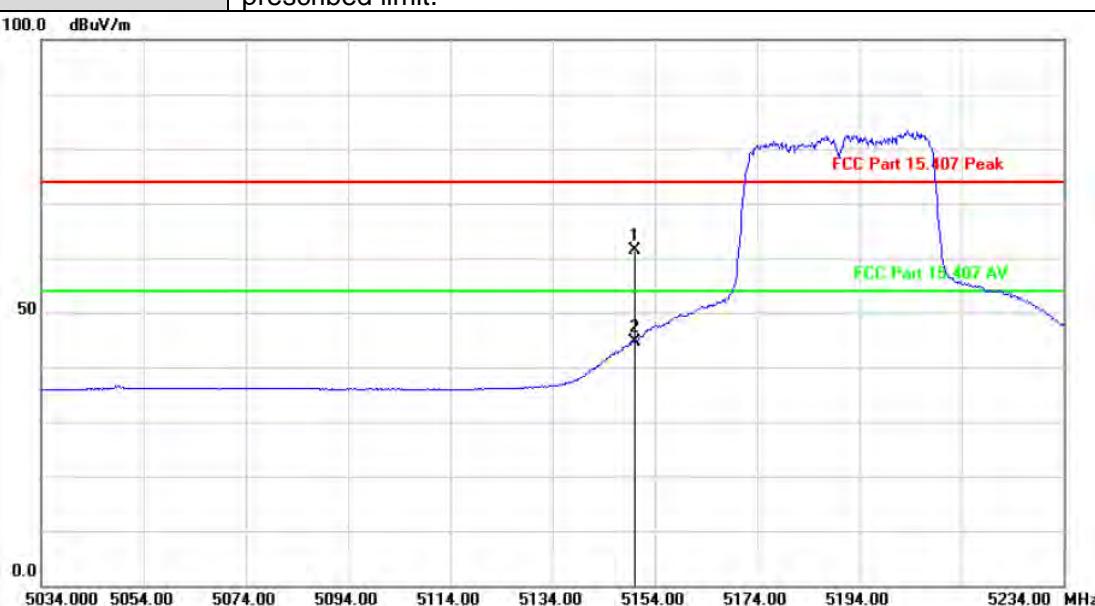
Ant. Pol.:	Horizontal																														
Test Mode:	TX 802.11ac(VHT20) Mode 5180MHz (U-NII-1)																														
Remark:	No report for the emission which more than 10 dB below the prescribed limit.																														
																															
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
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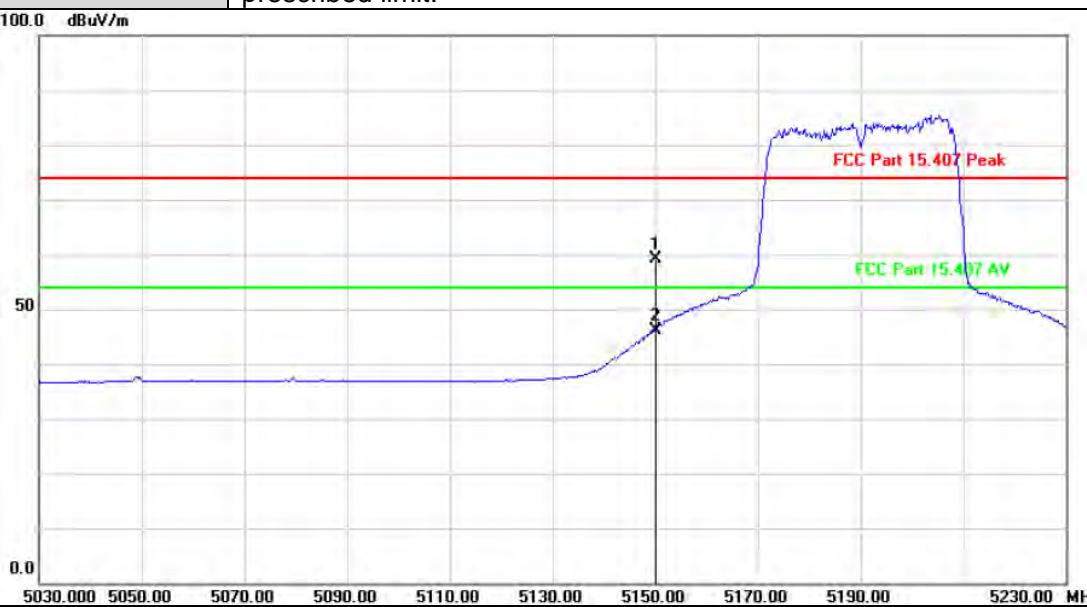


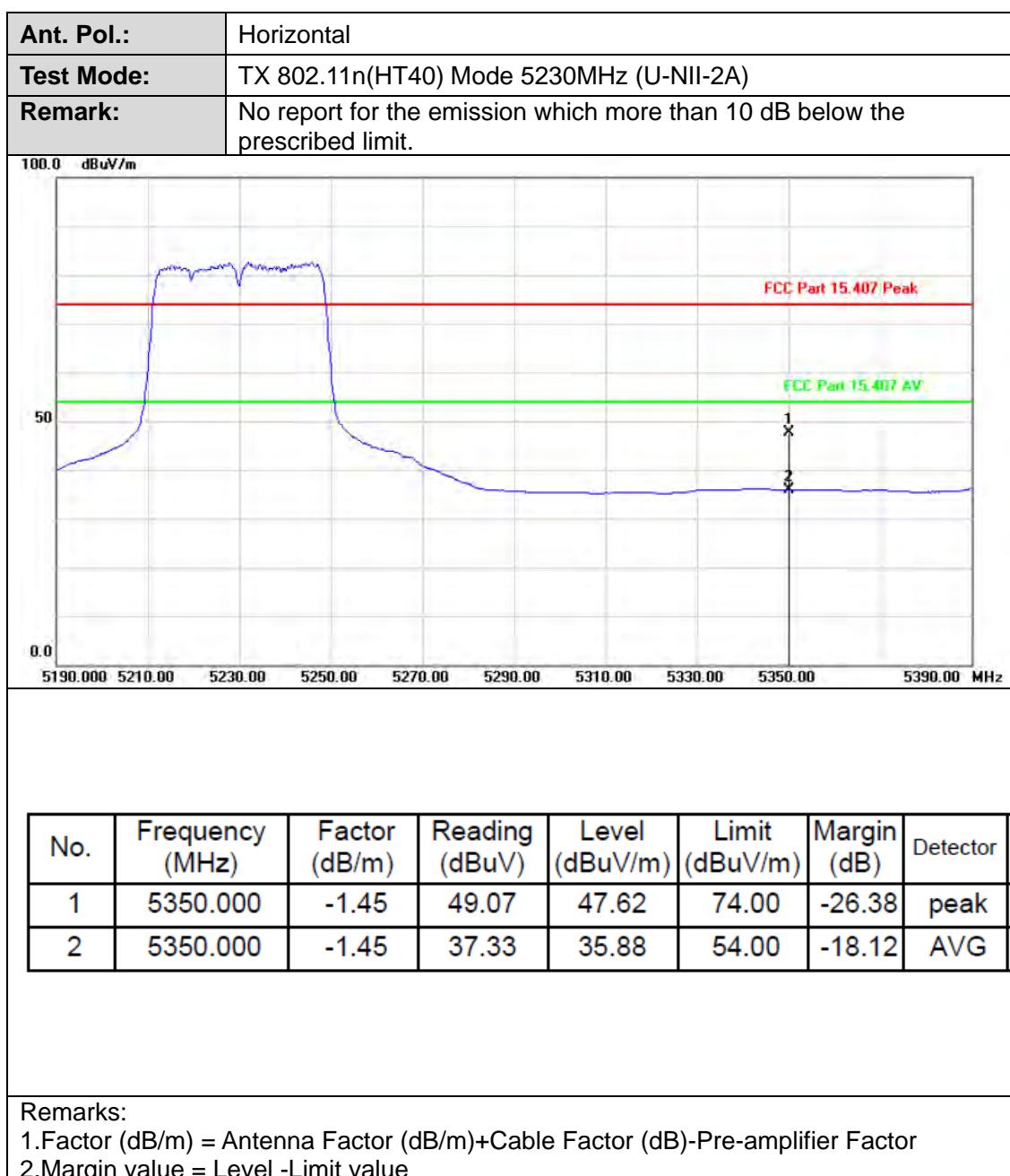


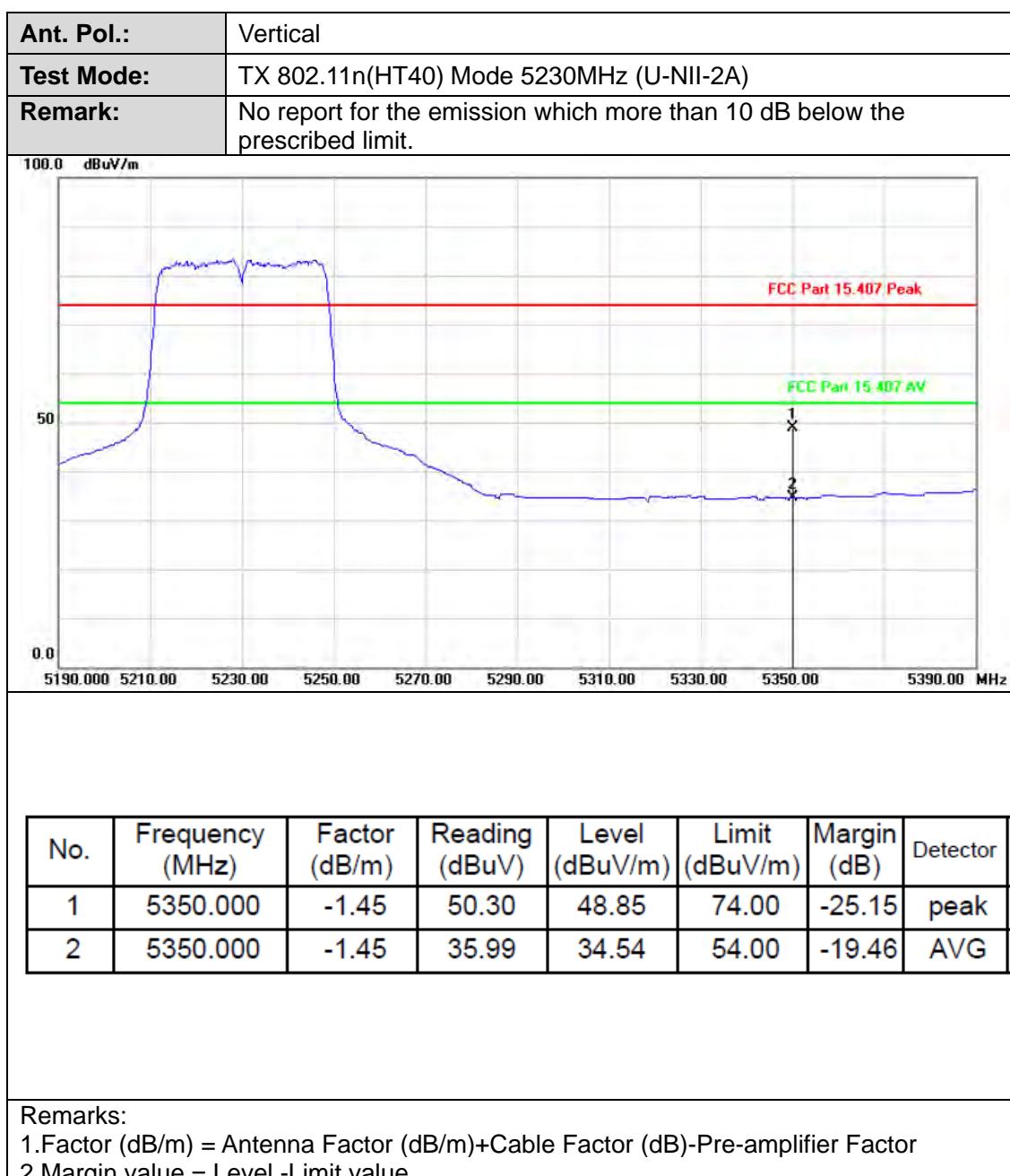
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	5350.000	-1.45	47.77	46.32	74.00	-27.68	peak																								
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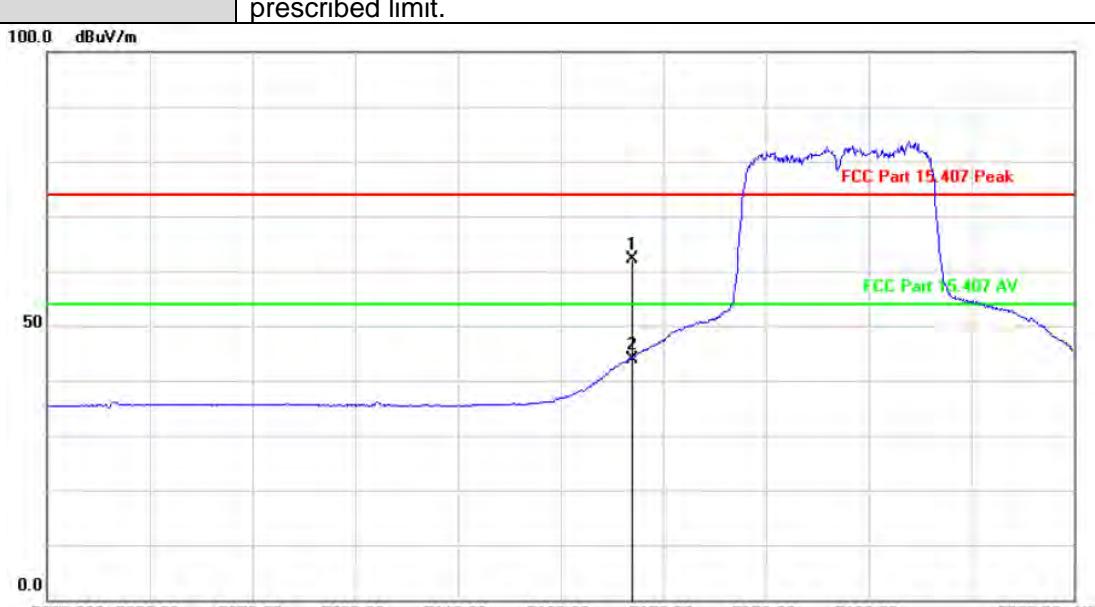
Ant. Pol.:	Vertical																														
Test Mode:	TX 802.11ac(VHT20) Mode 5240MHz (U-NII-2A)																														
Remark:	No report for the emission which more than 10 dB below the prescribed limit.																														
 <p>The plot shows a blue line representing the measured spectral emission. A red horizontal line at approximately 74 dBuV/m is labeled 'FCC Part 15.407 Peak'. A green horizontal line at approximately 54 dBuV/m is labeled 'FCC Part 15.407 AV'. The x-axis represents frequency in MHz, ranging from 5192.500 to 5392.500. The y-axis represents power in dBuV/m, ranging from 0.0 to 100.0. The measured line stays below the peak limit and slightly above the average limit.</p>																															
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	5350.000	-1.45	51.11	49.66	74.00	-24.34	peak																								
2	5350.000	-1.45	36.55	35.10	54.00	-18.90	AVG																								
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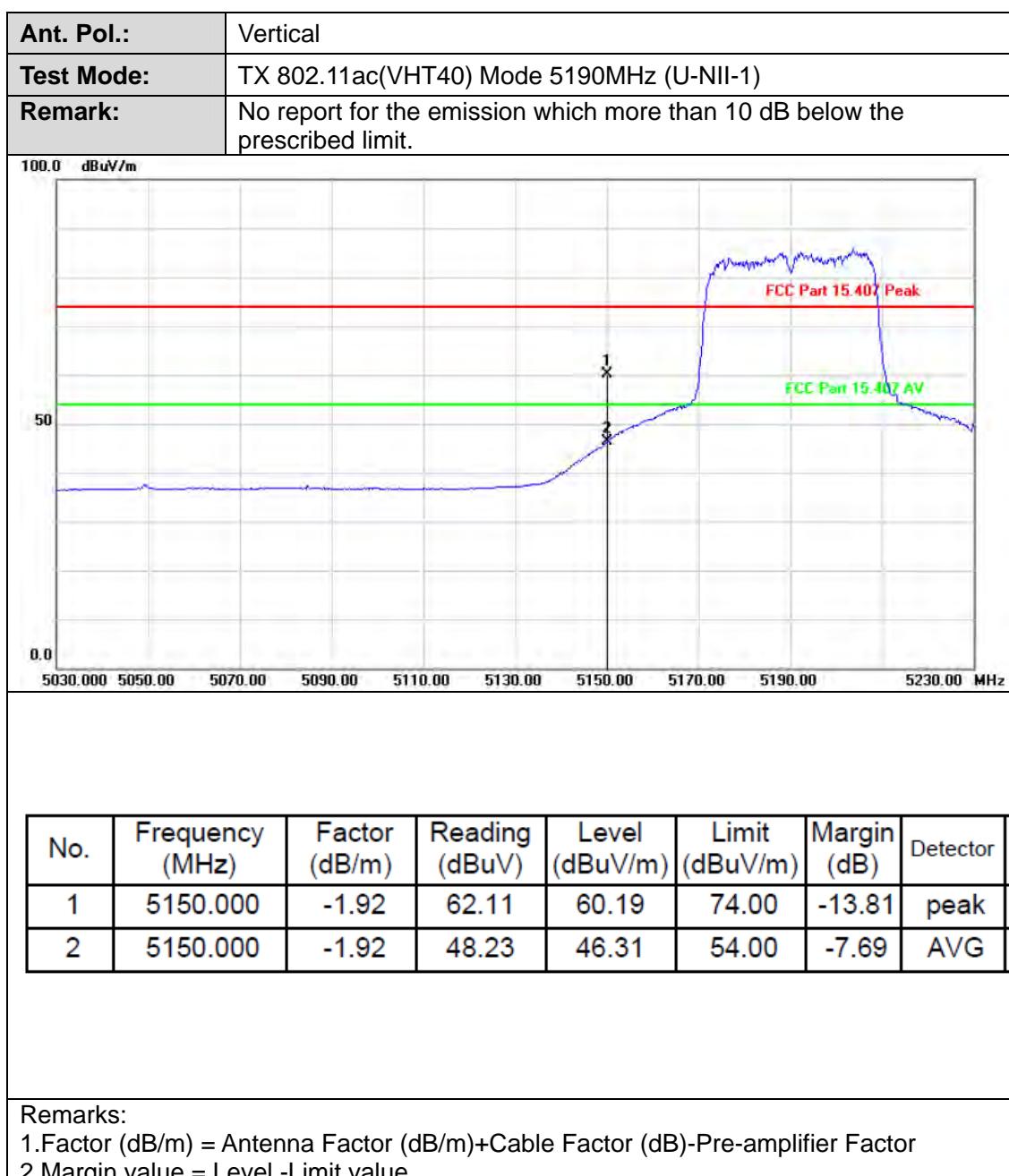
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Test Mode:	TX 802.11n(HT40) Mode 5190MHz (U-NII-1)																														
Remark:	No report for the emission which more than 10 dB below the prescribed limit.																														
 <p>The plot shows a blue line representing the measured emission. A red horizontal line at approximately 74 dBuV/m represents the FCC Part 15.407 Peak limit. A green horizontal line at approximately 54 dBuV/m represents the FCC Part 15.407 AV limit. The x-axis represents frequency in MHz, ranging from 5034.000 to 5234.000. The y-axis represents power density in dBuV/m, ranging from 0.0 to 100.0. The measured emission starts at approximately 5034.000 MHz at -1.92 dB/m, remains flat until 5150.000 MHz, then rises to a peak of 63.22 dBuV at 5174.000 MHz, and then falls back to 46.62 dBuV at 5234.000 MHz.</p>																															
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	5150.000	-1.92	63.22	61.30	74.00	-12.70	peak																								
2	5150.000	-1.92	46.62	44.70	54.00	-9.30	AVG																								

Ant. Pol.:	Vertical																															
Test Mode:	TX 802.11n(HT40) Mode 5190MHz (U-NII-1)																															
Remark:	No report for the emission which more than 10 dB below the prescribed limit.																															
 <p>The plot shows the spectral emission mask. The Y-axis is labeled '100.0 dBuV/m' and ranges from 0.0 to 100.0. The X-axis is labeled 'MHz' and ranges from 5030.000 to 5230.000. A red horizontal line represents the 'FCC Part 15.407 Peak' limit, and a green horizontal line represents the 'FCC Part 15.407 AV' limit. A blue curve represents the measured emission, which remains below the peak limit but exceeds the average limit between approximately 5150 MHz and 5190 MHz.</p>																																
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																									
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2	5150.000	-1.92	48.02	46.10	54.00	-7.90	AVG																									
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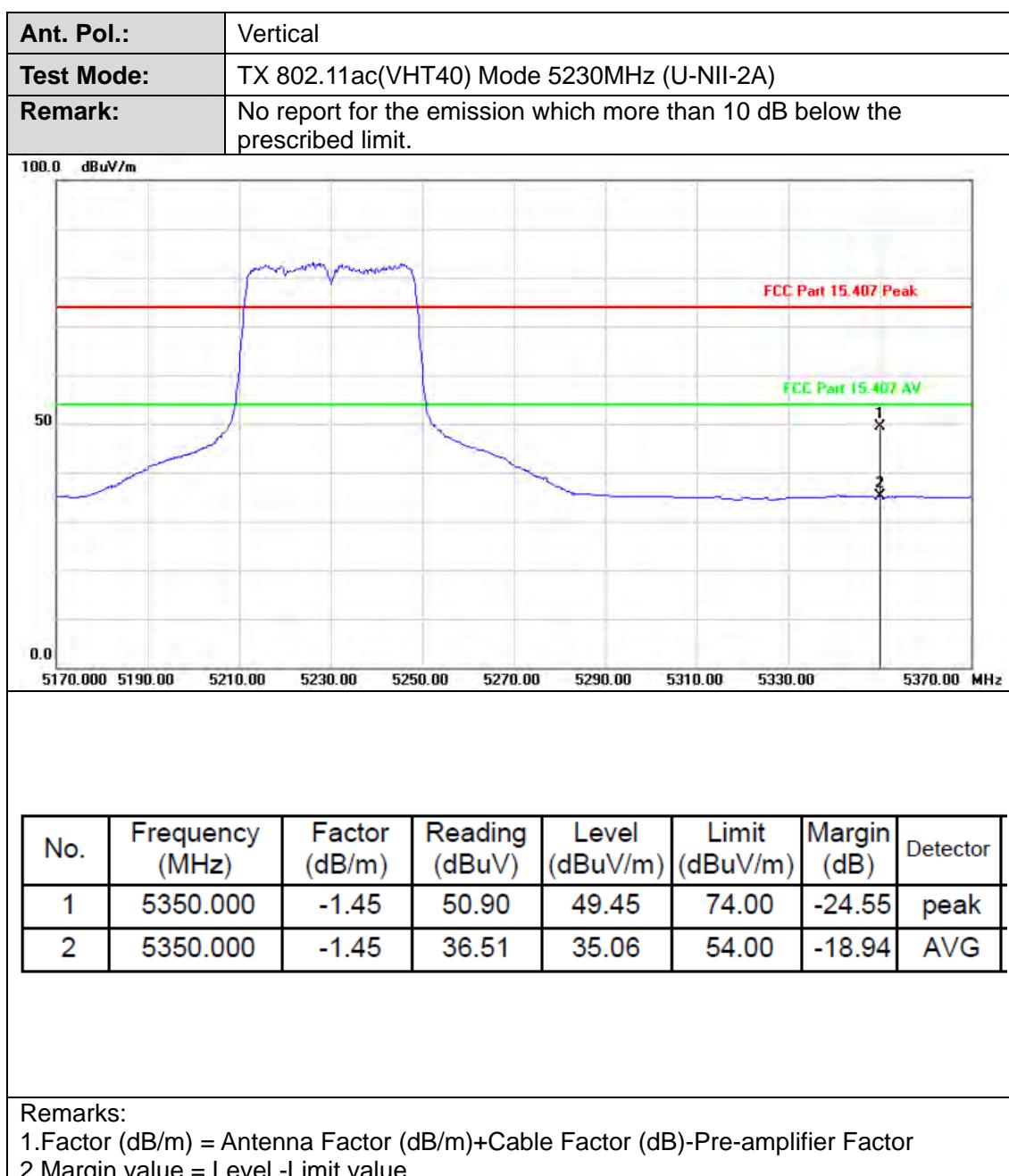


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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
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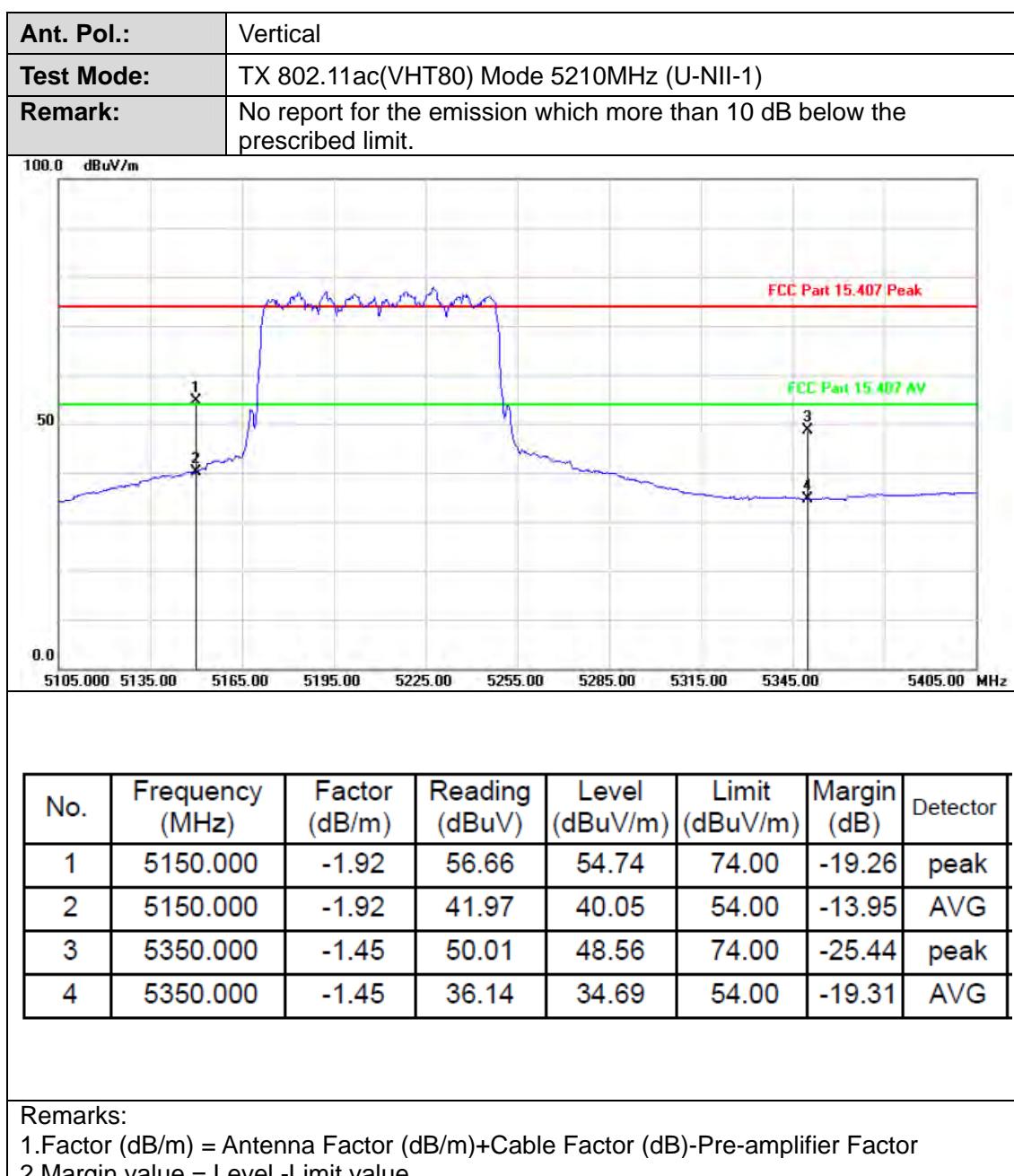


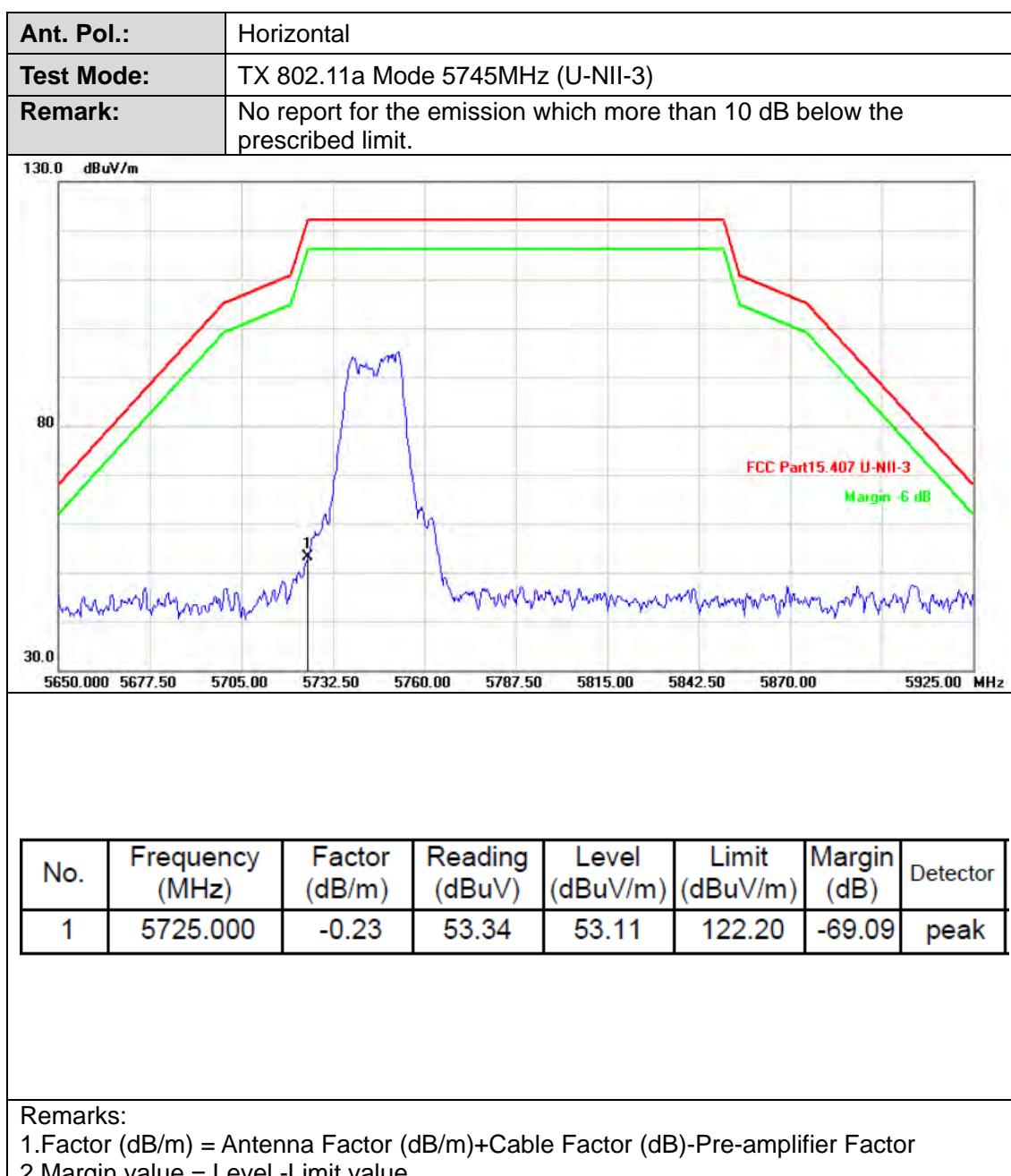


Ant. Pol.:	Horizontal																														
Test Mode:	TX 802.11ac(VHT40) Mode 5230MHz (U-NII-2A)																														
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	5350.000	-1.45	48.70	47.25	74.00	-26.75	peak																								
2	5350.000	-1.45	37.33	35.88	54.00	-18.12	AVG																								
<p>Remarks:</p> <p>1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor</p> <p>2. Margin value = Level -Limit value</p>																															



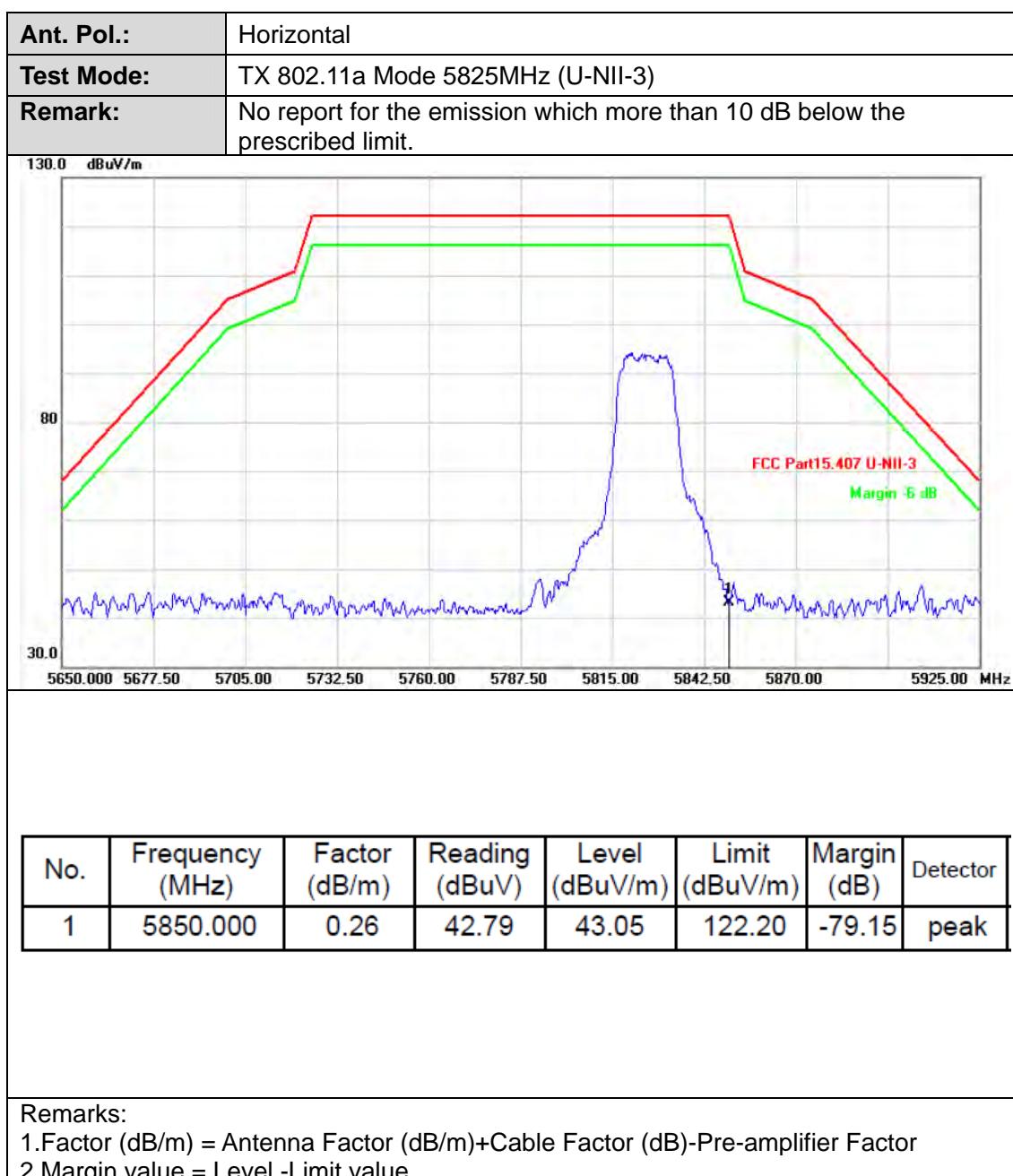
Ant. Pol.:	Horizontal																																														
Test Mode:	TX 802.11ac(VHT80) Mode 5210MHz (U-NII-1)																																														
Remark:	No report for the emission which more than 10 dB below the prescribed limit.																																														
<table border="1"> <thead> <tr> <th>No.</th><th>Frequency (MHz)</th><th>Factor (dB/m)</th><th>Reading (dBuV)</th><th>Level (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Detector</th></tr> </thead> <tbody> <tr> <td>1</td><td>5150.000</td><td>-1.92</td><td>54.36</td><td>52.44</td><td>74.00</td><td>-21.56</td><td>peak</td></tr> <tr> <td>2</td><td>5150.000</td><td>-1.92</td><td>40.82</td><td>38.90</td><td>54.00</td><td>-15.10</td><td>AVG</td></tr> <tr> <td>3</td><td>5350.000</td><td>-1.45</td><td>48.89</td><td>47.44</td><td>74.00</td><td>-26.56</td><td>peak</td></tr> <tr> <td>4</td><td>5350.000</td><td>-1.45</td><td>37.09</td><td>35.64</td><td>54.00</td><td>-18.36</td><td>AVG</td></tr> </tbody> </table>								No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1	5150.000	-1.92	54.36	52.44	74.00	-21.56	peak	2	5150.000	-1.92	40.82	38.90	54.00	-15.10	AVG	3	5350.000	-1.45	48.89	47.44	74.00	-26.56	peak	4	5350.000	-1.45	37.09	35.64	54.00	-18.36	AVG
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																																								
1	5150.000	-1.92	54.36	52.44	74.00	-21.56	peak																																								
2	5150.000	-1.92	40.82	38.90	54.00	-15.10	AVG																																								
3	5350.000	-1.45	48.89	47.44	74.00	-26.56	peak																																								
4	5350.000	-1.45	37.09	35.64	54.00	-18.36	AVG																																								
<p>Remarks:</p> <p>1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor</p> <p>2. Margin value = Level -Limit value</p>																																															

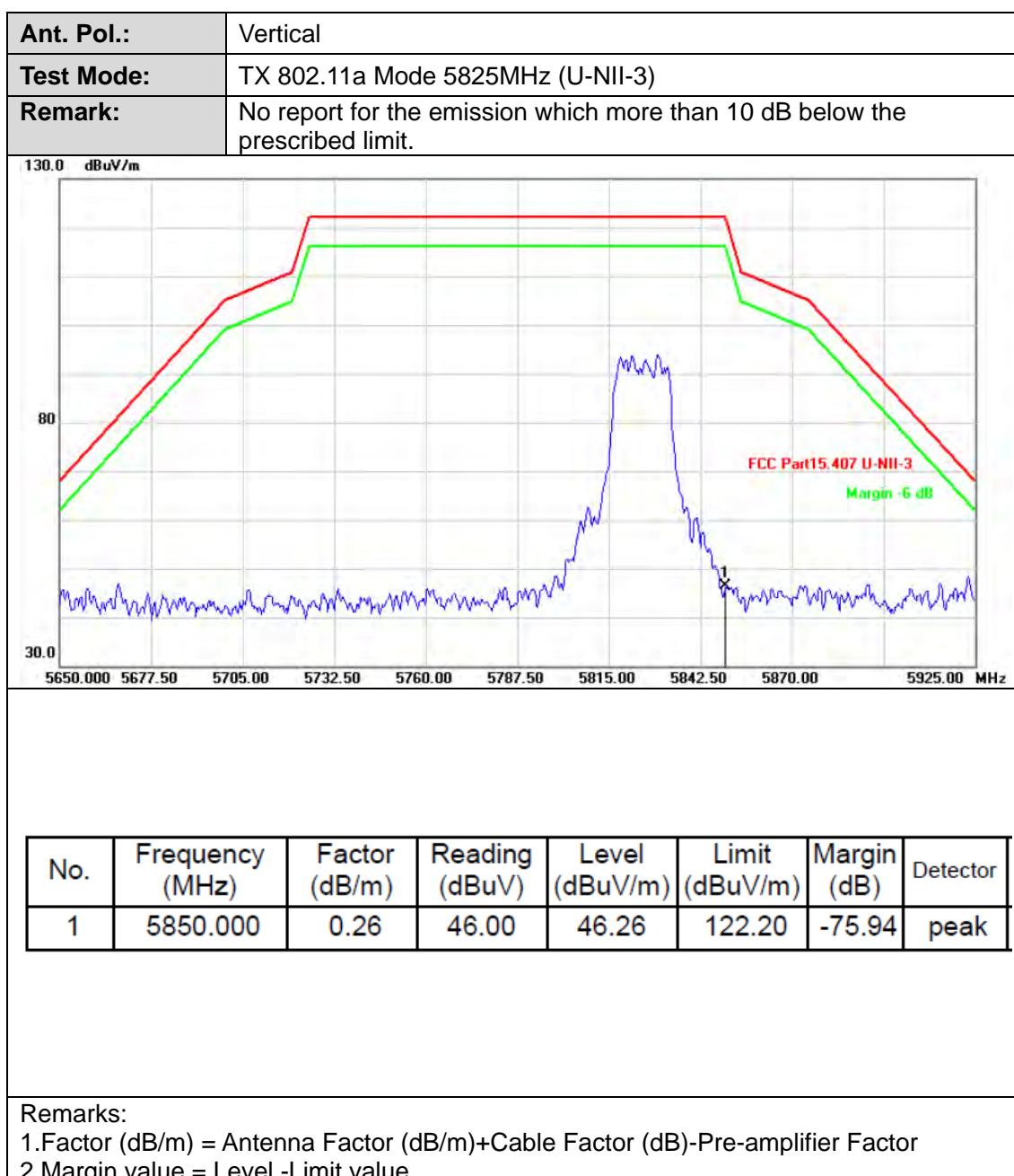




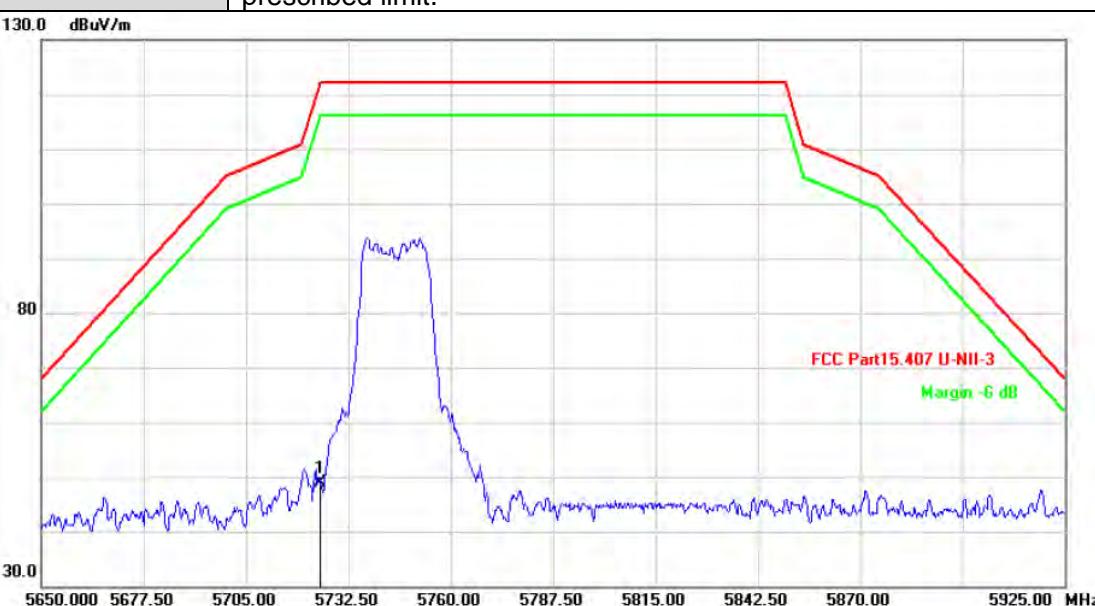


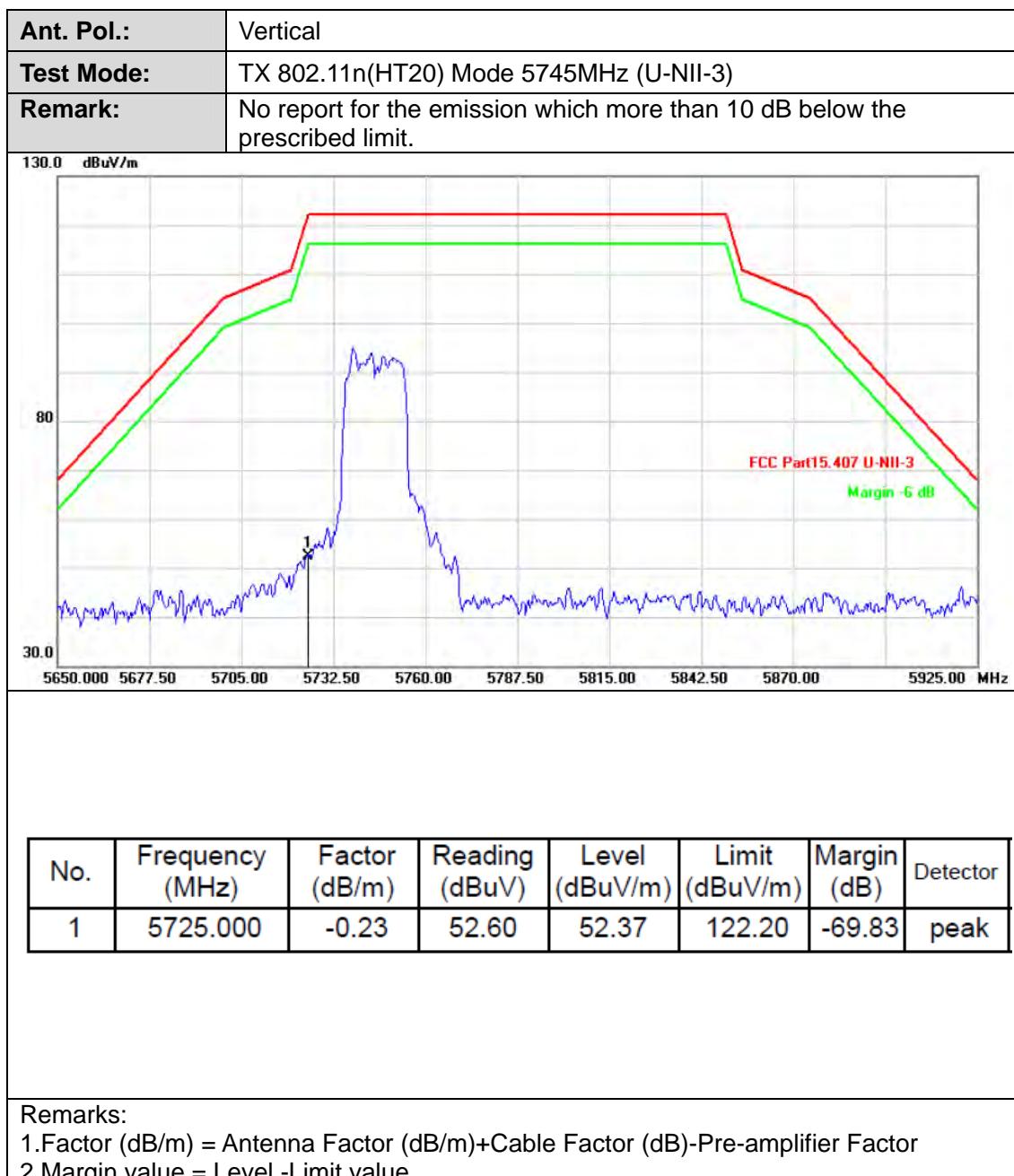
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Test Mode:	TX 802.11a Mode 5745MHz (U-NII-3)																						
Remark:	No report for the emission which more than 10 dB below the prescribed limit.																						
<p>FCC Part15.407 U-NII-3 Margin: 6 dB</p>																							
<table border="1"><thead><tr><th>No.</th><th>Frequency (MHz)</th><th>Factor (dB/m)</th><th>Reading (dBuV)</th><th>Level (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Detector</th></tr></thead><tbody><tr><td>1</td><td>5725.000</td><td>-0.23</td><td>62.94</td><td>62.71</td><td>122.20</td><td>-59.49</td><td>peak</td></tr></tbody></table>								No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1	5725.000	-0.23	62.94	62.71	122.20	-59.49	peak
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																
1	5725.000	-0.23	62.94	62.71	122.20	-59.49	peak																
<p>Remarks:</p> <p>1. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) - Pre-amplifier Factor</p> <p>2. Margin value = Level - Limit value</p>																							

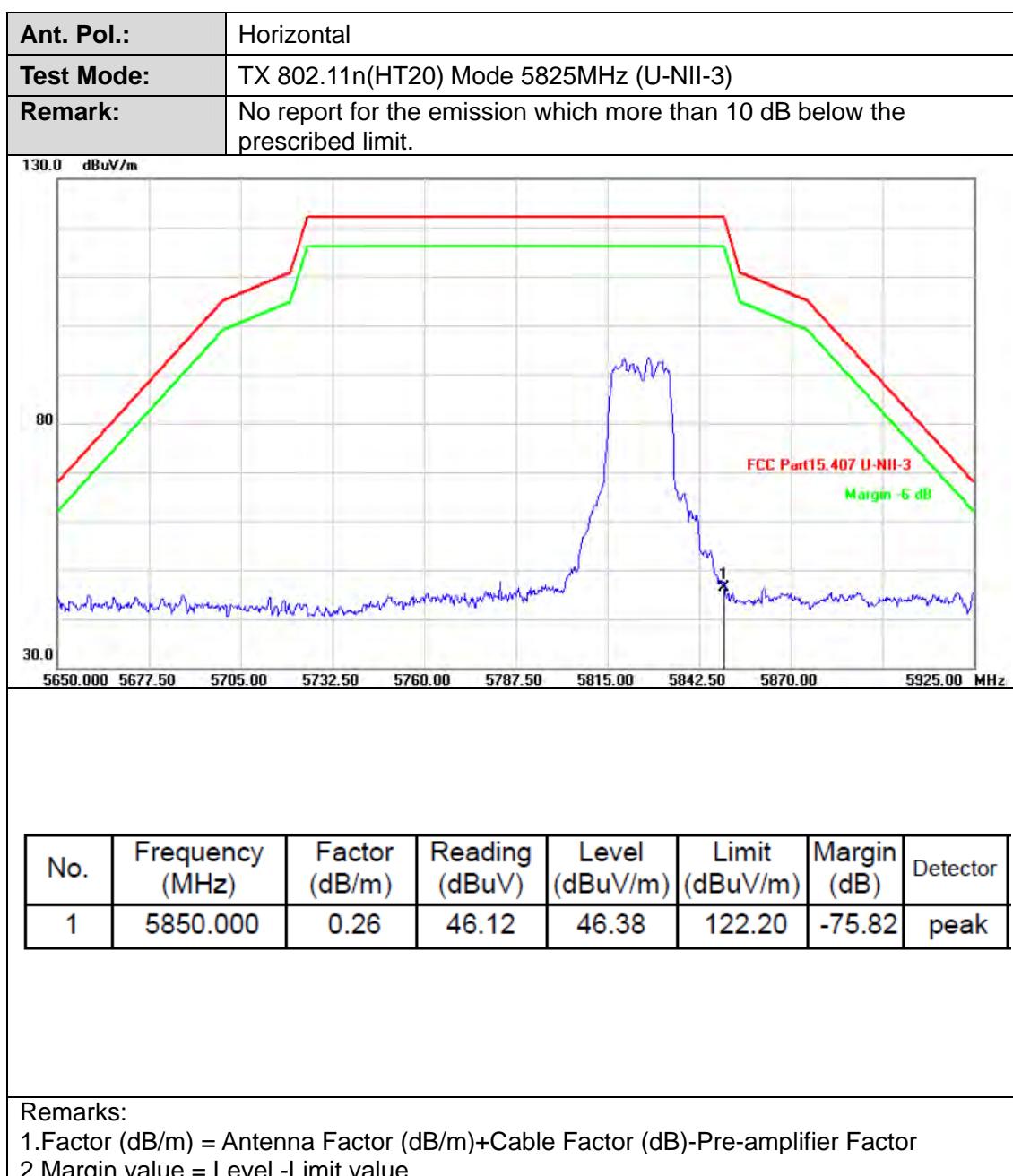




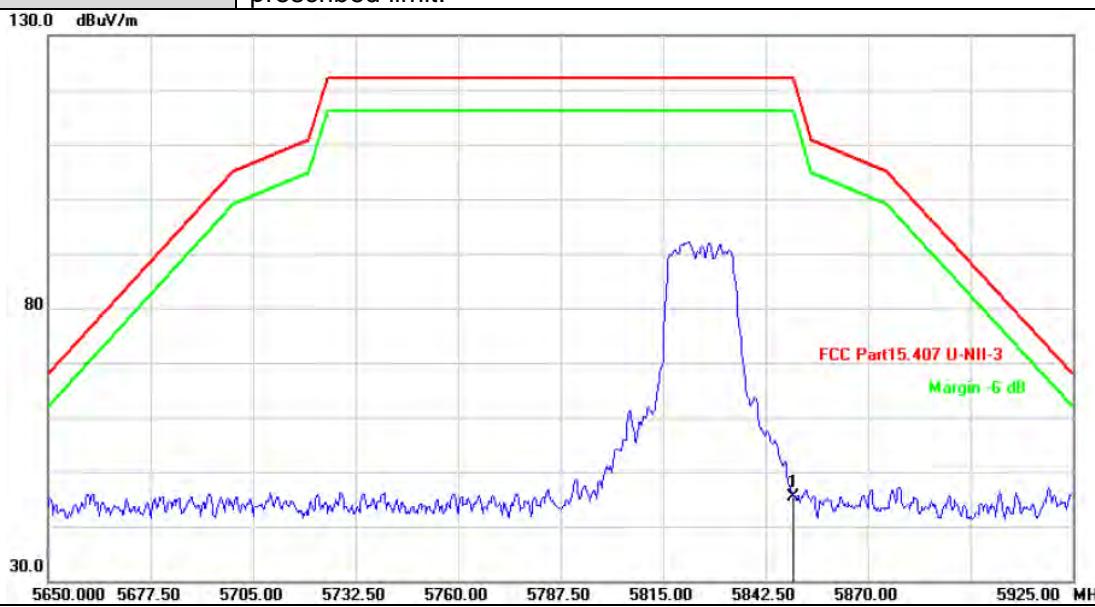


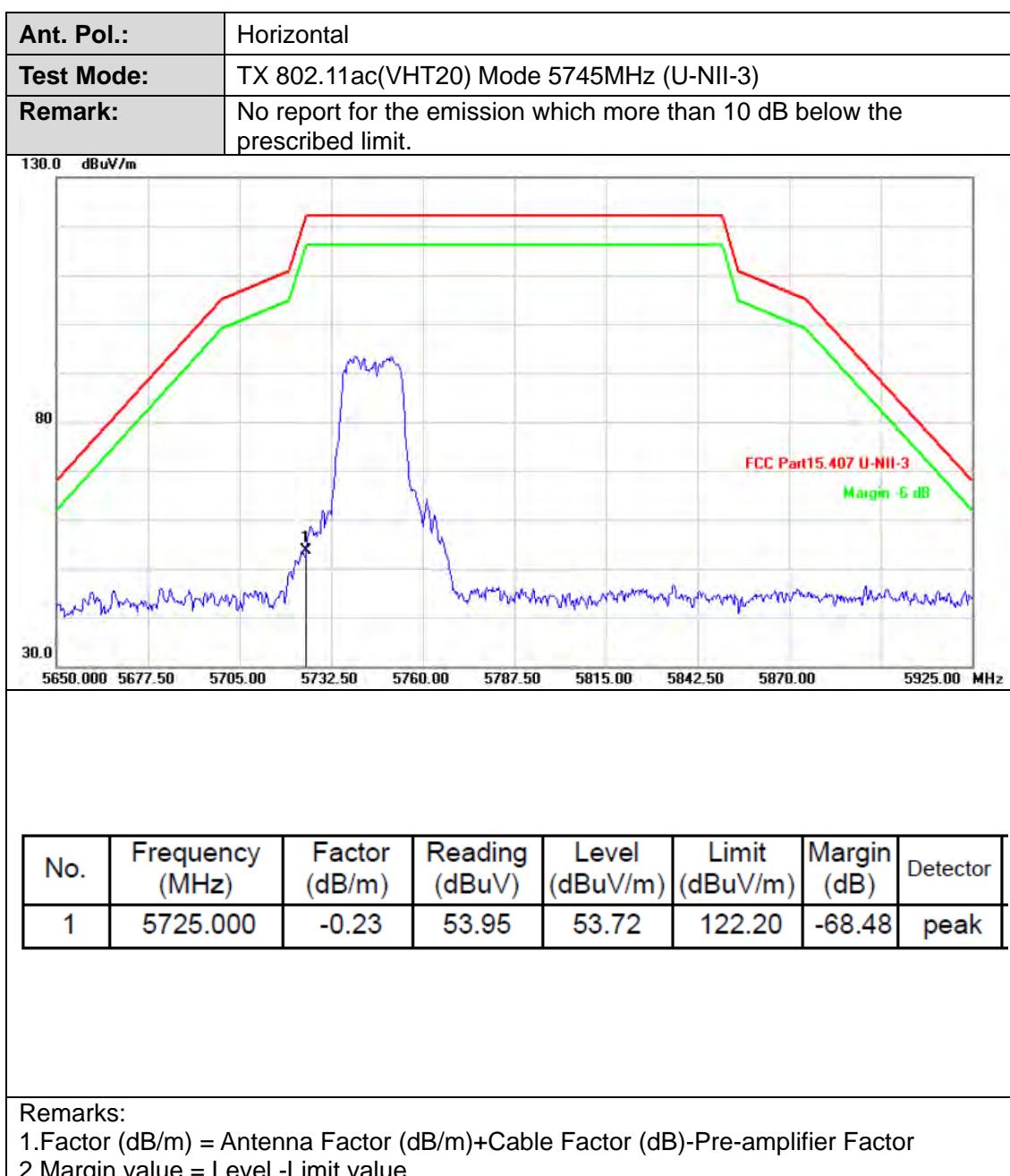
Ant. Pol.:	Horizontal																						
Test Mode:	TX 802.11n(HT20) Mode 5745MHz (U-NII-3)																						
Remark:	No report for the emission which more than 10 dB below the prescribed limit.																						
																							
<table border="1"><thead><tr><th>No.</th><th>Frequency (MHz)</th><th>Factor (dB/m)</th><th>Reading (dBuV)</th><th>Level (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Detector</th></tr></thead><tbody><tr><td>1</td><td>5725.000</td><td>-0.23</td><td>49.11</td><td>48.88</td><td>122.20</td><td>-73.32</td><td>peak</td></tr></tbody></table>								No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1	5725.000	-0.23	49.11	48.88	122.20	-73.32	peak
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																
1	5725.000	-0.23	49.11	48.88	122.20	-73.32	peak																
<p>Remarks:</p> <p>1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor</p> <p>2. Margin value = Level -Limit value</p>																							



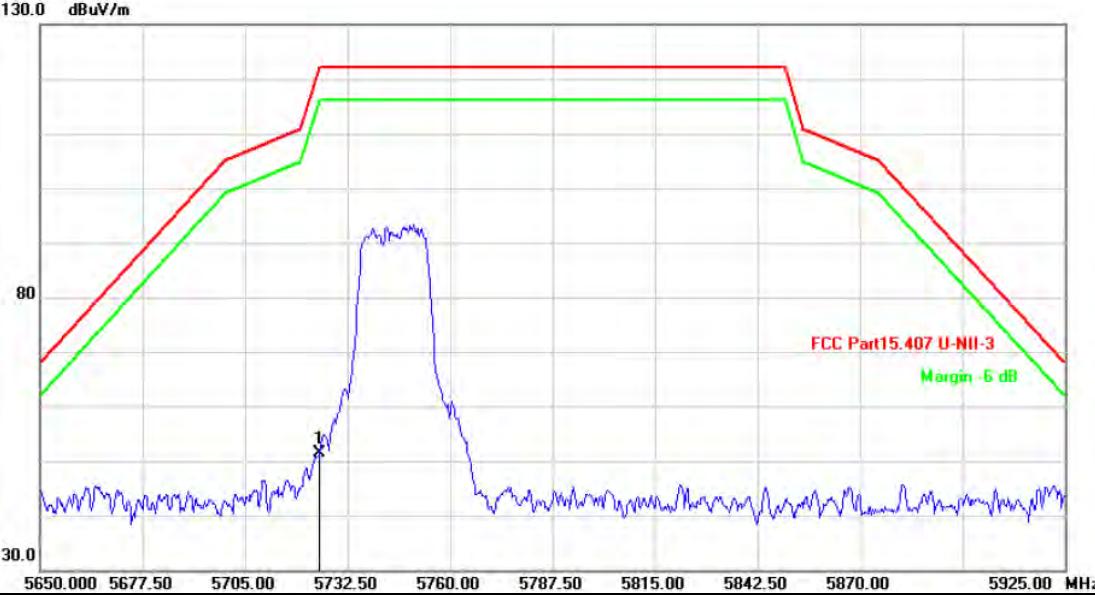


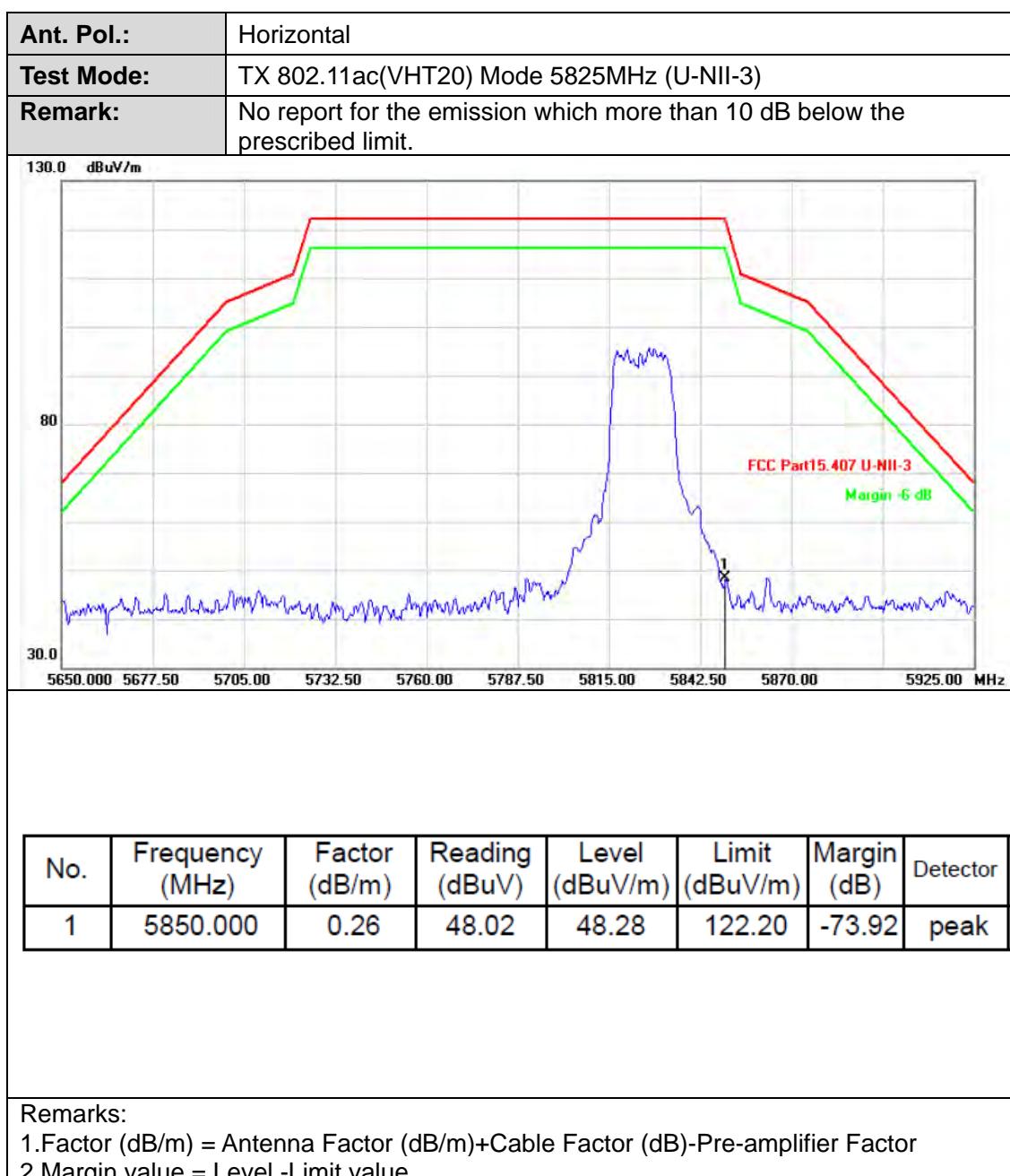


Ant. Pol.:	Vertical																						
Test Mode:	TX 802.11n(HT20) Mode 5825MHz (U-NII-3)																						
Remark:	No report for the emission which more than 10 dB below the prescribed limit.																						
																							
<table border="1"><thead><tr><th>No.</th><th>Frequency (MHz)</th><th>Factor (dB/m)</th><th>Reading (dBuV)</th><th>Level (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Detector</th></tr></thead><tbody><tr><td>1</td><td>5850.000</td><td>0.26</td><td>45.19</td><td>45.45</td><td>122.20</td><td>-76.75</td><td>peak</td></tr></tbody></table>								No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1	5850.000	0.26	45.19	45.45	122.20	-76.75	peak
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																
1	5850.000	0.26	45.19	45.45	122.20	-76.75	peak																
<p>Remarks:</p> <p>1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor</p> <p>2. Margin value = Level -Limit value</p>																							





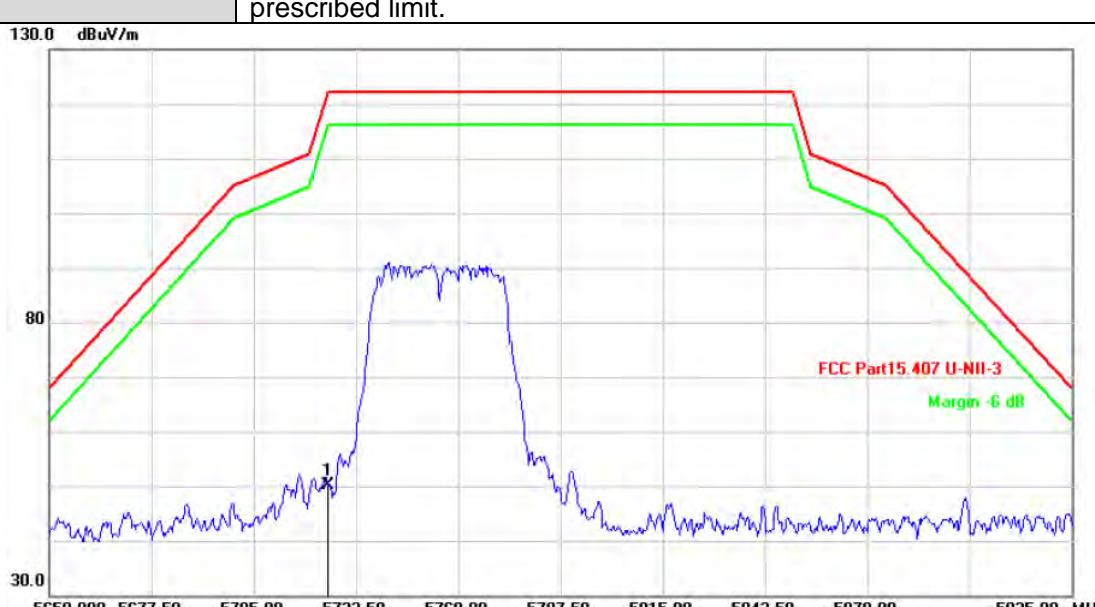
Ant. Pol.:	Vertical																						
Test Mode:	TX 802.11ac(VHT20) Mode 5745MHz (U-NII-3)																						
Remark:	No report for the emission which more than 10 dB below the prescribed limit.																						
																							
<table border="1"><thead><tr><th>No.</th><th>Frequency (MHz)</th><th>Factor (dB/m)</th><th>Reading (dBuV)</th><th>Level (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Detector</th></tr></thead><tbody><tr><td>1</td><td>5725.000</td><td>-0.23</td><td>51.60</td><td>51.37</td><td>122.20</td><td>-70.83</td><td>peak</td></tr></tbody></table>								No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1	5725.000	-0.23	51.60	51.37	122.20	-70.83	peak
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																
1	5725.000	-0.23	51.60	51.37	122.20	-70.83	peak																
<p>Remarks:</p> <p>1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor</p> <p>2. Margin value = Level -Limit value</p>																							

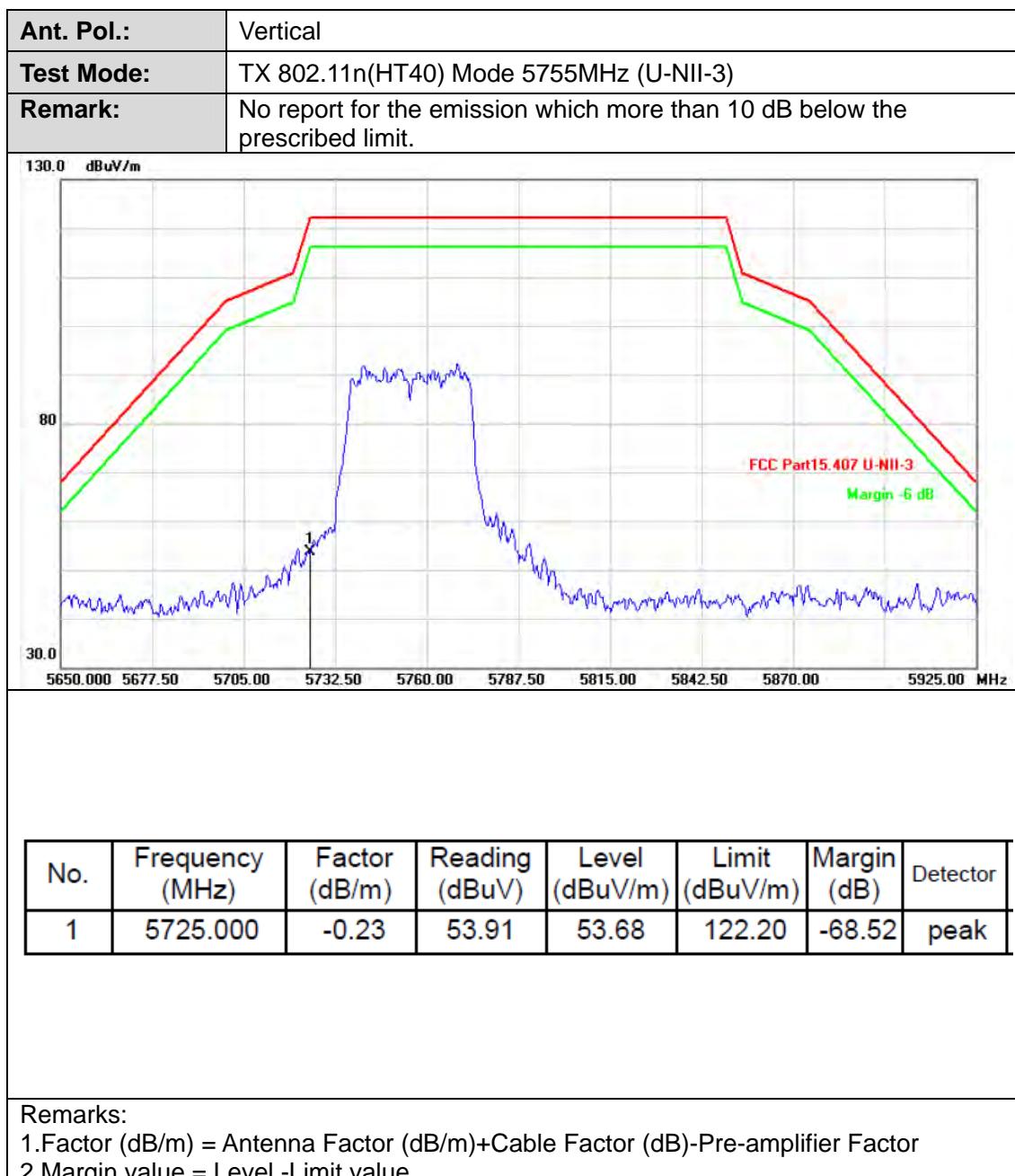




Ant. Pol.:	Vertical																						
Test Mode:	TX 802.11ac(VHT20) Mode 5825MHz (U-NII-3)																						
Remark:	No report for the emission which more than 10 dB below the prescribed limit.																						
<table border="1"><thead><tr><th>No.</th><th>Frequency (MHz)</th><th>Factor (dB/m)</th><th>Reading (dBuV)</th><th>Level (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Detector</th></tr></thead><tbody><tr><td>1</td><td>5850.000</td><td>0.26</td><td>43.48</td><td>43.74</td><td>122.20</td><td>-78.46</td><td>peak</td></tr></tbody></table>								No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1	5850.000	0.26	43.48	43.74	122.20	-78.46	peak
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																
1	5850.000	0.26	43.48	43.74	122.20	-78.46	peak																
<p>Remarks:</p> <p>1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor</p> <p>2. Margin value = Level -Limit value</p>																							

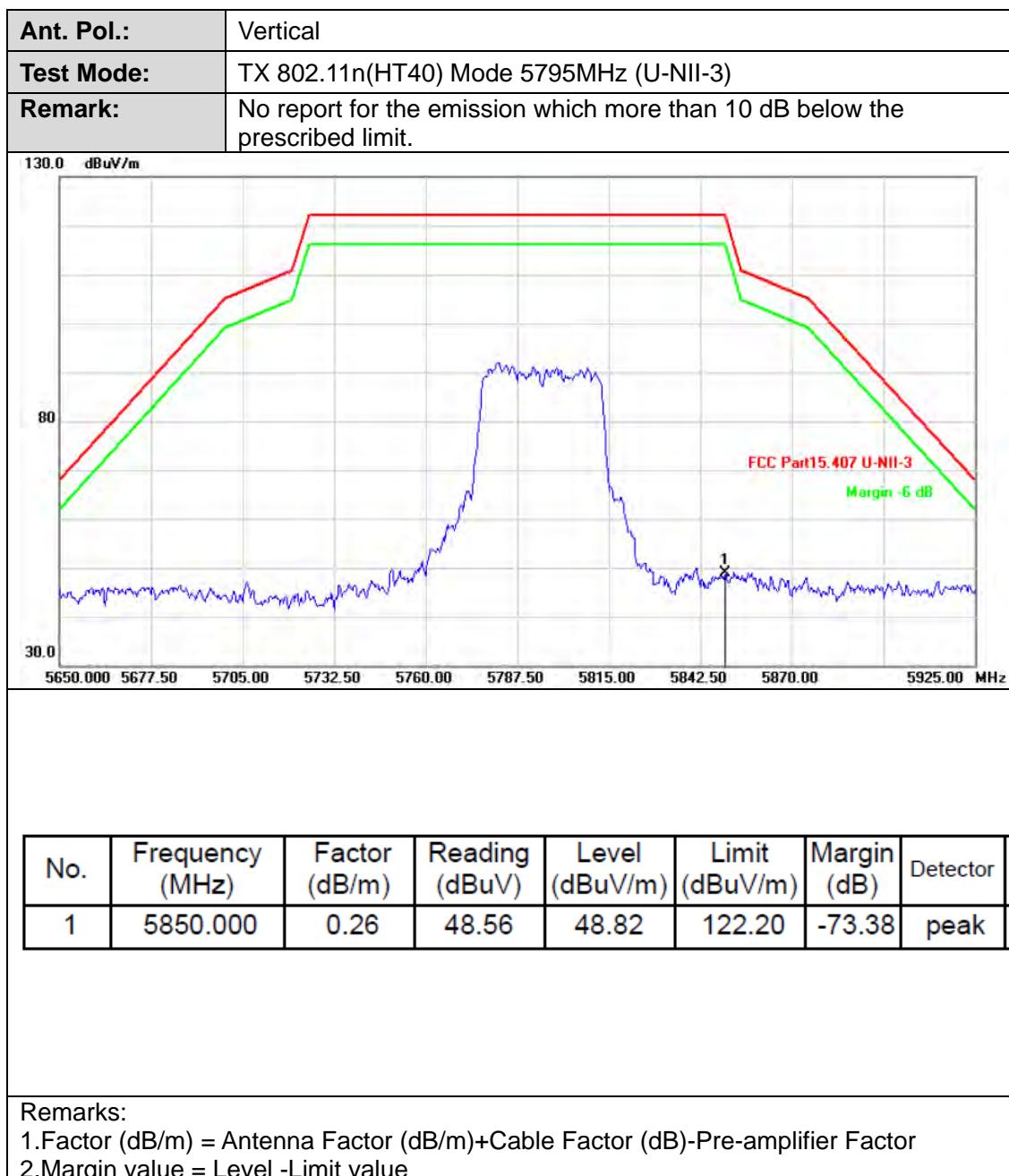


Ant. Pol.:	Horizontal																						
Test Mode:	TX 802.11n(HT40) Mode 5755MHz (U-NII-3)																						
Remark:	No report for the emission which more than 10 dB below the prescribed limit.																						
																							
<table border="1"><thead><tr><th>No.</th><th>Frequency (MHz)</th><th>Factor (dB/m)</th><th>Reading (dBuV)</th><th>Level (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Detector</th></tr></thead><tbody><tr><td>1</td><td>5725.000</td><td>-0.23</td><td>50.27</td><td>50.04</td><td>122.20</td><td>-72.16</td><td>peak</td></tr></tbody></table>								No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1	5725.000	-0.23	50.27	50.04	122.20	-72.16	peak
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																
1	5725.000	-0.23	50.27	50.04	122.20	-72.16	peak																
<p>Remarks:</p> <p>1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor</p> <p>2. Margin value = Level -Limit value</p>																							

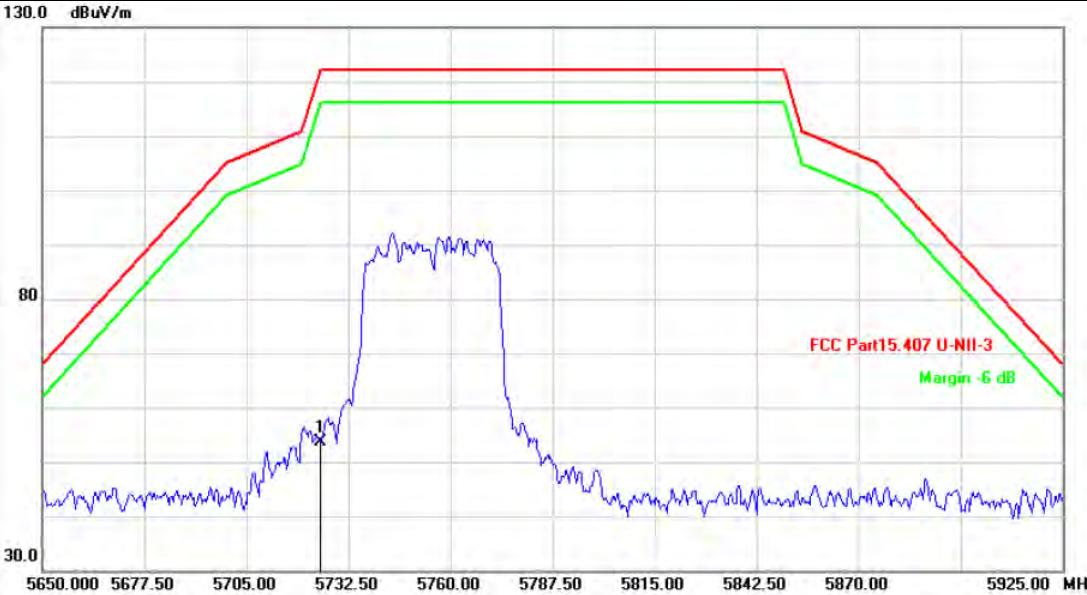


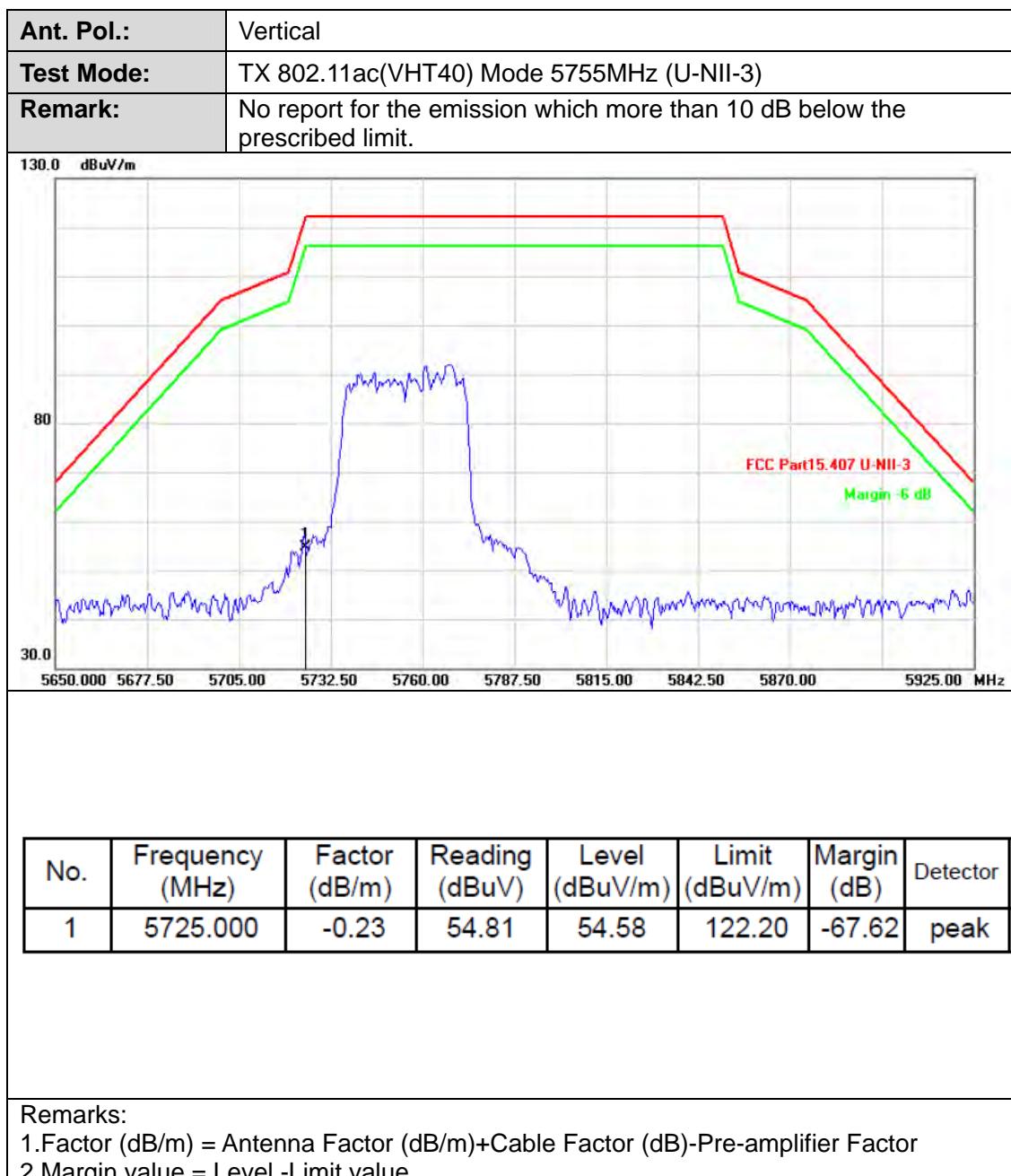


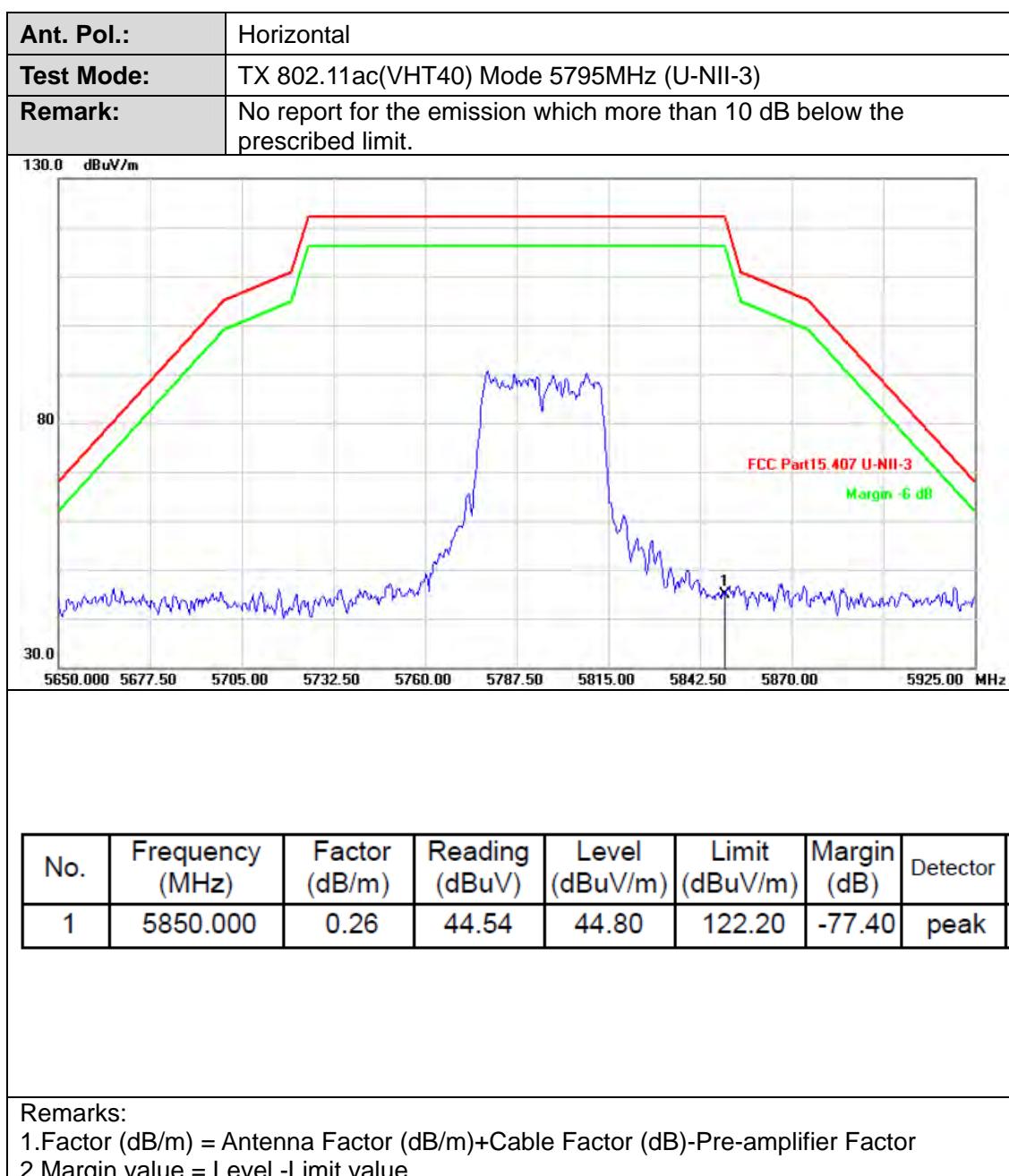
Ant. Pol.:	Horizontal																						
Test Mode:	TX 802.11n(HT40) Mode 5795MHz (U-NII-3)																						
Remark:	No report for the emission which more than 10 dB below the prescribed limit.																						
<table border="1"><thead><tr><th>No.</th><th>Frequency (MHz)</th><th>Factor (dB/m)</th><th>Reading (dBuV)</th><th>Level (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Detector</th></tr></thead><tbody><tr><td>1</td><td>5850.000</td><td>0.26</td><td>44.75</td><td>45.01</td><td>122.20</td><td>-77.19</td><td>peak</td></tr></tbody></table>								No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1	5850.000	0.26	44.75	45.01	122.20	-77.19	peak
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																
1	5850.000	0.26	44.75	45.01	122.20	-77.19	peak																
<p>Remarks:</p> <p>1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor</p> <p>2. Margin value = Level -Limit value</p>																							





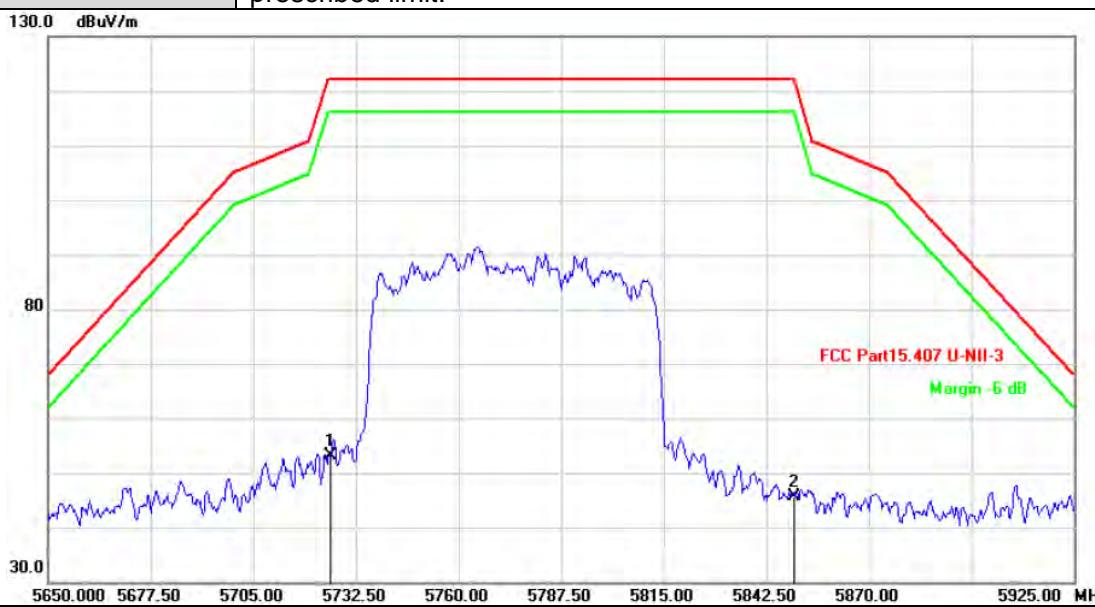
Ant. Pol.:	Horizontal																						
Test Mode:	TX 802.11ac(VHT40) Mode 5755MHz (U-NII-3)																						
Remark:	No report for the emission which more than 10 dB below the prescribed limit.																						
																							
<table border="1"><thead><tr><th>No.</th><th>Frequency (MHz)</th><th>Factor (dB/m)</th><th>Reading (dBuV)</th><th>Level (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Detector</th></tr></thead><tbody><tr><td>1</td><td>5725.000</td><td>-0.23</td><td>53.95</td><td>53.72</td><td>122.20</td><td>-68.48</td><td>peak</td></tr></tbody></table>								No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1	5725.000	-0.23	53.95	53.72	122.20	-68.48	peak
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																
1	5725.000	-0.23	53.95	53.72	122.20	-68.48	peak																
<p>Remarks:</p> <p>1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor</p> <p>2. Margin value = Level -Limit value</p>																							

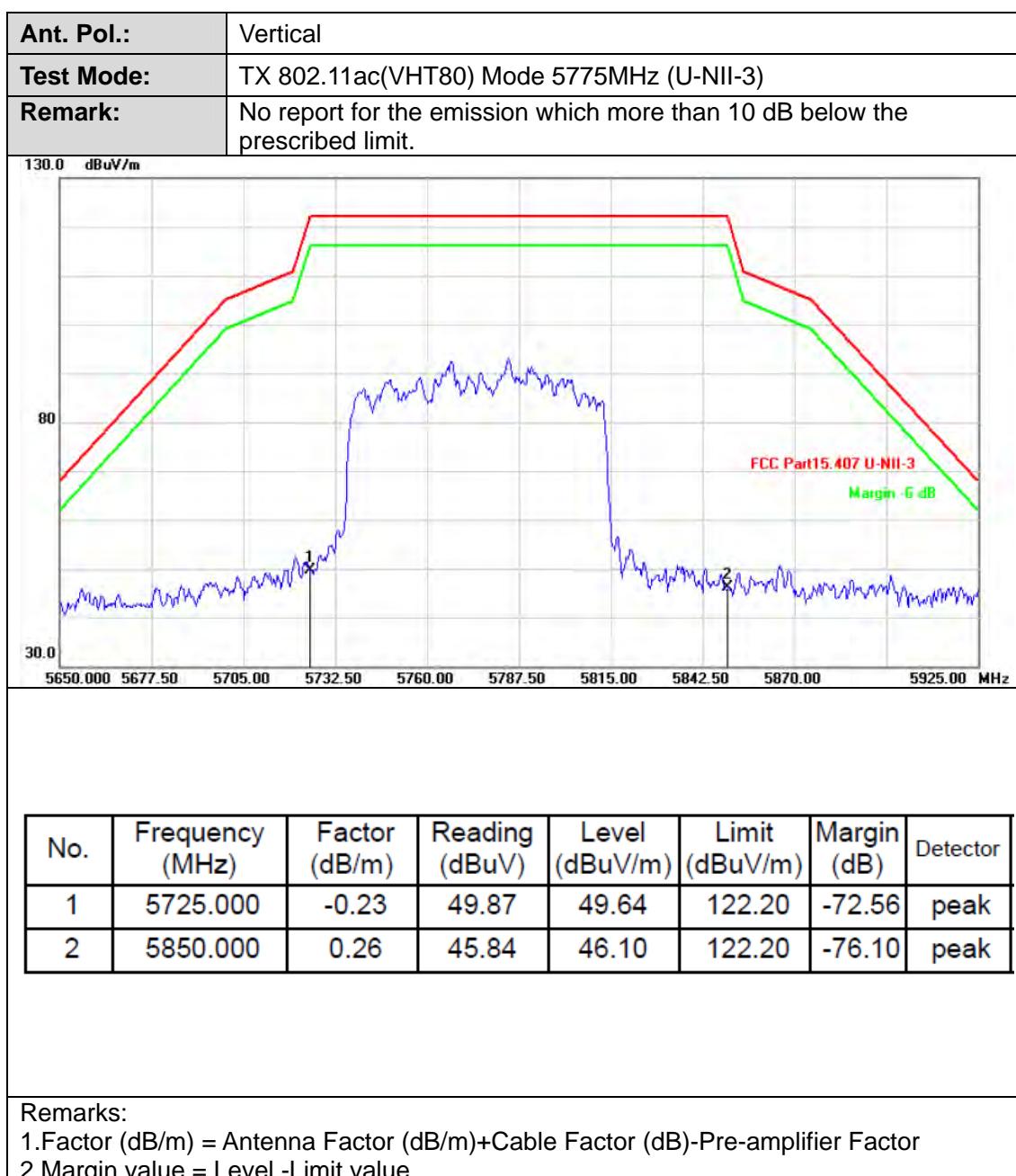






Ant. Pol.:	Vertical						
Test Mode:	TX 802.11ac(VHT40) Mode 5795MHz (U-NII-3)						
Remark:	No report for the emission which more than 10 dB below the prescribed limit.						
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5850.000	0.26	44.77	45.03	122.20	-77.17	peak
Remarks: 1. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) - Pre-amplifier Factor 2. Margin value = Level - Limit value							

Ant. Pol.:	Horizontal																														
Test Mode:	TX 802.11ac(VHT80) Mode 5775MHz (U-NII-3)																														
Remark:	No report for the emission which more than 10 dB below the prescribed limit.																														
 <p>The graph plots dBuV/m (Y-axis, 30.0 to 130.0) against MHz (X-axis, 5650.000 to 5925.000). A red line represents the FCC Part15.407 U-NII-3 limit, and a green line represents the margin of 6 dB. A blue line shows the measured spectrum. Two vertical lines mark the measurement points: point 1 at 5725.585 MHz and point 2 at 5850.000 MHz.</p>																															
<table border="1"> <thead> <tr> <th>No.</th> <th>Frequency (MHz)</th> <th>Factor (dB/m)</th> <th>Reading (dBuV)</th> <th>Level (dBuV/m)</th> <th>Limit (dBuV/m)</th> <th>Margin (dB)</th> <th>Detector</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>5725.585</td> <td>-0.22</td> <td>53.35</td> <td>53.13</td> <td>122.20</td> <td>-69.07</td> <td>peak</td> </tr> <tr> <td>2</td> <td>5850.000</td> <td>0.26</td> <td>45.38</td> <td>45.64</td> <td>122.20</td> <td>-76.56</td> <td>peak</td> </tr> </tbody> </table>								No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1	5725.585	-0.22	53.35	53.13	122.20	-69.07	peak	2	5850.000	0.26	45.38	45.64	122.20	-76.56	peak
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	5725.585	-0.22	53.35	53.13	122.20	-69.07	peak																								
2	5850.000	0.26	45.38	45.64	122.20	-76.56	peak																								
<p>Remarks:</p> <p>1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor</p> <p>2. Margin value = Level -Limit value</p>																															



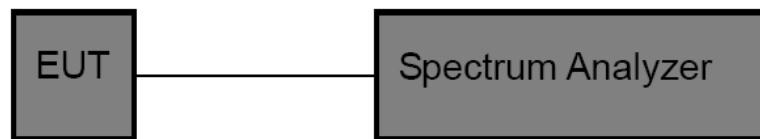


3.4. Bandwidth Test

Limit

FCC Part 15 Subpart C(15.407)/ RSS-247		
Test Item	Limit	Frequency Range (MHz)
26 Bandwidth	N/A	5150~5250
		5250~5350
		5500~5700
6 dB Bandwidth	>500kHz	5725~5850

Test Configuration



Test Procedure

Please refer to According to KDB789033 D02, for the measurement methods.

The setting of the spectrum analyser as below:

26dB Bandwidth Test	
Spectrum Parameters	Setting
Attenuation	Auto
Span	>26 dB Bandwidth
RBW	Approximately 1% of the emission bandwidth
VBW	VBW>RBW
Detector	Peak
Trace	Max Hold
Sweep Time	Auto



6dB Bandwidth Test	
Spectrum Parameters	Setting
Attenuation	Auto
Span	>6 dB Bandwidth
RBW	100 kHz
VBW	VBW>=3*RBW
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

99% Occupied Bandwidth Test	
Spectrum Parameters	Setting
Attenuation	Auto
RBW	1% to 5% of the OBW
VBW	≥ 3RBW
Detector	Peak
Trace	Max Hold

Note: The EUT was set to continuously transmitting in each mode and low, Middle and high channel for the test.

Test Mode

Please refer to the clause 2.4.

Test Results

Please see the Appendix A1, A2, A3.



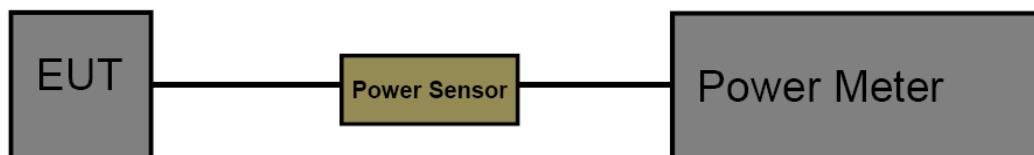
3.5. Output Power Test

Limit

FCC Part 15 Subpart E (15.407)		
Test Item	Limit	Frequency Range(MHz)
Conducted Output Power	Fixed: 1 Watt (30dBm) Mobile and Portable: 250mW (24dBm)	5150~5250
	250mW (24dBm)	5250~5350
	250mW (24dBm)	5500~5700
	1 Watt (30dBm)	5725~5850

IC Power&PSD Limit					
Frequency	Type of devices	Maximum Conducted Output Power	EIRP Output Power	Conducted Power Spectral Density	EIRP Power Spectral Density
5150MHz-5250MHz	in vehicles		30mW or $1.76 + 10 \times \log_{10} B$ dBm, whichever is less (B=99% OBW in MHz)		
	Other Devices		200mW or $10 + 10 \times \log_{10} B$ dBm, whichever is less (B=99% OBW in MHz)		10dBm/MHz
5250MHz-5350MHz	in vehicles		30mW or $1.76 + 10 \times \log_{10} B$ dBm, whichever is less (B=99% OBW in MHz)		
	Other Devices	250mW or $11 + 10 \times \log_{10} B$ dBm, whichever is less (B=99% OBW in MHz)	1W or $17 + 10 \times \log_{10} B$ dBm, whichever is less (B=99% OBW in MHz)	11dBm/Mhz	
5470MHz-5600MHz 5650MHz-5725MHz	ALL Devices	250mW or $11 + 10 \times \log_{10} B$ dBm, whichever is less (B=99% OBW in MHz)	1W or $17 + 10 \times \log_{10} B$ dBm, whichever is less (B=99% OBW in MHz)	11dBm/Mhz	
5725MHz-5850MHz	ALL Devices	1W		30dBm/500KHz	

Test Configuration





Test Procedure

The measurement is according to section 3 of KDB 789033 D02 General UNII Test Procedures New Rules V02r01.

Test Mode

Please refer to the clause 2.4.

Test Result

Please see the Appendix B.



3.6. Power Spectral Density Test

Limit

FCC Part 15 Subpart E(15.407)/ RSS-247

For the 5.15~5.25GHz band:

- Outdoor AP
The peak power spectral density (PSD) shall not exceed the lesser of 17dBm/MHz.
If $G_{Tx} > 6\text{dBi}$, then $\text{PSD} = 17 - (G_{Tx} - 6)$.
- Indoor AP
The peak power spectral density (PSD) shall not exceed the lesser of 17dBm/MHz.
If $G_{Tx} > 6\text{dBi}$, then $\text{PSD} = 17 - (G_{Tx} - 6)$.
- Point-to-point AP
The peak power spectral density (PSD) shall not exceed the lesser of 17dBm/MHz.
If $G_{Tx} > 23\text{dBi}$, then $\text{PSD} = 17 - (G_{Tx} - 23)$.
- Client devices
The peak power spectral density (PSD) shall not exceed the lesser of 11dBm/MHz.
If $G_{Tx} > 6\text{dBi}$, then $\text{PSD} = 11 - (G_{Tx} - 6)$.

For the 5.25~5.35GHz band:

The peak power spectral density (PSD) shall not exceed the lesser of 11dBm/MHz.
If $G_{Tx} > 6\text{dBi}$, then $\text{PSD} = 11 - (G_{Tx} - 6)$.

For the 5.47~5.725GHz band:

The peak power spectral density (PSD) shall not exceed the lesser of 11dBm/MHz.
If $G_{Tx} > 6\text{dBi}$, then $\text{PSD} = 11 - (G_{Tx} - 6)$.

For the 5.725~5.85GHz band:

- Point-to-multipoint systems (P2M)
The peak power spectral density (PSD) shall not exceed the lesser of 30dBm/500kHz.
If $G_{Tx} > 6\text{dBi}$, then $\text{PSD} = 30 - (G_{Tx} - 6)$.
- Point-to-point systems (P2P)
The peak power spectral density (PSD) shall not exceed the lesser of 30dBm/500kHz.

Note: G_{Tx} : EUT Antenna gain.

IC Power&PSD Limit					
Frequency	Type of devices	Maximum Conducted Output Power	EIRP Output Power	Conducted Power Spectral Density	EIRP Power Spectral Density
5150MHz-5250MHz	in vehicles		30mW or $1.76 + 10 \times \log_{10} \text{dBm}$, whichever is less (B=99% OBW in MHz)		
	Other Devices		200mW or $10 + 10 \times \log_{10} \text{dBm}$, whichever is less (B=99% OBW in MHz)		10dBm/MHz
5250MHz-5350MHz	in vehicles		30mW or $1.76 + 10 \times \log_{10} \text{dBm}$, whichever is less (B=99% OBW in MHz)		
	Other Devices	250mW or $11 + 10 \times \log_{10} \text{dBm}$, whichever is less (B=99% OBW in MHz)	1W or $17 + 10 \times \log_{10} \text{dBm}$, whichever is less (B=99% OBW in MHz)	11 dBm/Mhz	
5470MHz-5600MHz 5650MHz-5725MHz	ALL Devices	250mW or $11 + 10 \times \log_{10} \text{dBm}$, whichever is less (B=99% OBW in MHz)	1W or $17 + 10 \times \log_{10} \text{dBm}$, whichever is less (B=99% OBW in MHz)	11 dBm/Mhz	
5725MHz-5850MHz	ALL Devices	1W		30 dBm/500KHz	

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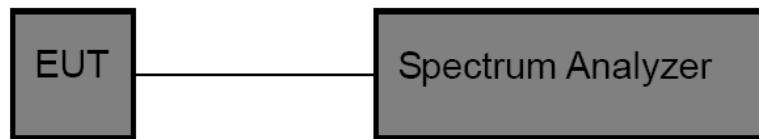
For anti-fake verification, please visit the official website of Certification and

Accreditation Administration of the People's Republic of China : yz.cnca.cn





Test Configuration



Test Procedure

The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above. The measurement is according to KDB 789033 D02 General UNII Test Procedures New Rules V02r01.

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) Set analyzer center frequency to transmitting frequency.
- (3) Set the span to encompass the entire emissions bandwidth (EBW)(alternatively, the entire 99% OBW) of the signal.
- (4) RBW=1MHz for devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz
RBW=500kHz for devices operating in the band 5.725-5.85 GHz
- (5) Set the VBW to: ≥ 3 RBW
- (6) Detector: AVG
- (7) Trace: Max Hold and View
- (7) Sweep time: auto
- (8) Trace average at least 100 traces in power averaging.
- (9) Use the peak marker function to determine the maximum amplitude level within the RBW. Apply correction to the result if different RBW is used.

NOTE: The EUT was set to continuously transmitting in each mode and low, Middle and high channel for the test.

Test Mode

Please refer to the clause 2.4.

Test Result

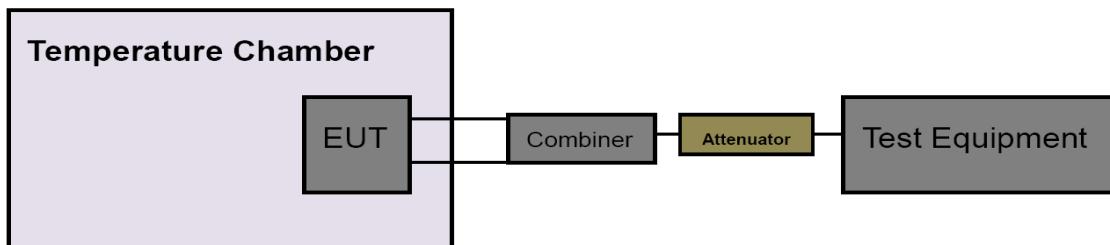
Please see the Appendix C.

3.7. Frequency Stability Measurement

Limit

FCC Part 15 Subpart C(15.407)		
Test Item	Limit	Frequency Range(MHz)
Peak Excursion Measurement	Specified in the user's manual, the transmitter center frequency tolerance shall be ± 20 ppm maximum for the 5 GHz band (IEEE 802.11n specification)	5150~5250
		5250~5350
		5500~5700
		5725~5850

Test Configuration



Test Procedure

The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above.

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) Set analyzer center frequency to transmitting frequency.
- (3) Set the span to encompass the entire emissions bandwidth (EBW) of the signal.
- (4) Set the RBW to: 10MHz, VBW=10MHz with peak detector and maxhold settings.
- (5) The test extreme voltage is to change the primary supply voltage from 10.8V to 13.2V percent of the nominal value.
- (6) Extreme temperature is 0°C~45°C

NOTE: The EUT was set to continuously transmitting in continuously un-modulation transmitting mode.

Test Mode

Please refer to the clause 2.4.

Test Result

Please see the Appendix D.



3.8. Antenna Requirement

Standard Requirement

FCC CFR Title 47 Part 15 Subpart C Section 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, 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.

Test Result

The directional gain of the antenna less than 6dBi, please refer to the EUT internal photographs antenna photo.



3.9. Dynamic Frequency Selection(DFS)

Requirement

Table 1: Applicability of DFS Requirements Prior to Use of a Channel

Requirement	Operational Mode		
	Master	Client Without Radar Detection	Client With Radar Detection
Non-Occupancy Period	Yes	Not required	Yes
DFS Detection Threshold	Yes	Not required	Yes
Channel Availability Check Time	Yes	Not required	Not required
U-NII Detection Bandwidth	Yes	Not required	Yes

Table 2: Applicability of DFS requirements during normal operation

Requirement	Operational Mode	
	Master Device or Client with Radar Detection	Client Without Radar Detection
DFS Detection Threshold	Yes	Not required
Channel Closing Transmission Time	Yes	Yes
Channel Move Time	Yes	Yes
U-NII Detection Bandwidth	Yes	Not required

Additional requirements for devices with multiple bandwidth modes	Master Device or Client with Radar Detection	Client Without Radar Detection
U-NII Detection Bandwidth and Statistical Performance Check	All BW modes must be tested	Not required
Channel Move Time and Channel Closing Transmission Time	Test using widest BW mode available	Test using the widest BW mode available for the link
All other tests	Any single BW mode	Not required

Note: Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.

**LIMIT****1. DFS Detection Thresholds**

Table 3: DFS Detection Thresholds for Master Devices and Client Devices With Radar Detection

Maximum Transmit Power	Value (See Notes 1, 2, and 3)
EIRP \geq 200 milliwatt	-64 dBm
EIRP $<$ 200 milliwatt and power spectral density $<$ 10 dBm/MHz	-62 dBm
EIRP $<$ 200 milliwatt that do not meet the power spectral density requirement	-64 dBm

Note 1: This is the level at the input of the receiver assuming a 0dBi receive antenna.

Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.

Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.

2. DFS Response Requirements

Table 4: DFS Response Requirement Values

Parameter	Value
Non-occupancy period	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds See Note 1.
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required facilitating a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

RADAR TEST WAVEFORMS

This section provides the parameters for required test waveforms, minimum percentage of successful detections, and the minimum number of trials that must be used for determining DFS conformance. Step intervals of 0.1 microsecond for Pulse Width, 1 microsecond for PRI, 1 MHz for chirp width and 1 for the number of pulses will be utilized for the random determination of specific test waveforms.



Table 5 Short Pulse Radar Test Waveforms

Radar Type	Pulse Width (μsec)	PRI (μsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Number of Trials
0	1	1428	18	See Note 1	See Note 1
1	1	Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a	Roundup $\left\lceil \left(\frac{1}{360} \right) \cdot \left(\frac{19 \cdot 10^6}{\text{PRI}_{\mu\text{sec}}} \right) \right\rceil$	60%	30
		Test B: 15 unique PRI values randomly selected within the range of 518-3066 μsec, with a minimum increment of 1 μsec, excluding PRI values selected in Test A			
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate (Radar Types 1-4)				80%	120

Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.

A minimum of 30 unique waveforms are required for each of the Short Pulse Radar Types 2 through 4. If more than 30 waveforms are used for Short Pulse Radar Types 2 through 4, then each additional waveform must also be unique and not repeated from the previous waveforms. If more than 30 waveforms are used for Short Pulse Radar Type 1, then each additional waveform is generated with Test B and must also be unique and not repeated from the previous waveforms in Tests A or B.

For example if in Short Pulse Radar Type 1 Test B a PRI of 3066 μsec is selected, the number of pulses

$$\left\lceil \left(\frac{1}{360} \right) \cdot \left(\frac{19 \cdot 10^6}{3066} \right) \right\rceil$$

would be Round up = Round up {17.2} = 18.

Table 5a - Pulse Repetition Intervals Values for Test A

Pulse Repetition Frequency Number	Pulse Repetition Frequency (Pulses Per Second)	Pulse Repetition Interval (Microseconds)
1	1930.5	518
2	1858.7	538
3	1792.1	558
4	1730.1	578
5	1672.2	598
6	1618.1	618
7	1567.4	638
8	1519.8	658
9	1474.9	678
10	1432.7	698

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11	1392.8	718
12	1355	738
13	1319.3	758
14	1285.3	778
15	1253.1	798
16	1222.5	818
17	1193.3	838
18	1165.6	858
19	1139	878
20	1113.6	898
21	1089.3	918
22	1066.1	938
23	326.2	3066

Table 6 – Long Pulse Radar Test Waveform

Radar Type	Pulse Width (μsec)	Chirp Width (MHz)	PRI (μsec)	Number of Pulses per Burst	Number of Bursts	Minimum Percentage of Successful Detection	Minimum Number of Trials
5	50-100	5-20	1000-2000	1-3	8-20	80%	30

The parameters for this waveforms are randomly chosen. Thirty unique waveforms are required for the Long Pulse Radar Type waveforms. If more than 30 waveforms are used for the Long Pulse Radar Type wave forms, then each additional waveform must also be unique and not repeated from the previous waveforms.

Table 7 – Frequency Hopping Radar Test Waveform

Radar Type	Pulse Width (μsec)	PRI (μsec)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (msec)	Minimum Percentage of Successful Detection	Minimum Number of Trials
6	1	333	9	0.333	300	70%	30

For the Frequency Hopping Radar Type, the same Burst parameters are used for each wave form. The hopping sequence is different for each wave form and a 100-length segment is selected from the hopping sequence defined by the following algorithm:

The first frequency in a hopping sequence is selected randomly from the group of 475 integer frequencies from 5250–5724MHz. Next, the frequency that was just chosen is removed from the group and a frequency is randomly selected from the remaining 474 frequencies in the group. This process continues until all 475 frequencies are chosen for the set. For selection of a random frequency, the frequencies remaining within the group are always treated as equally likely.

Calibration of Radar Waveform

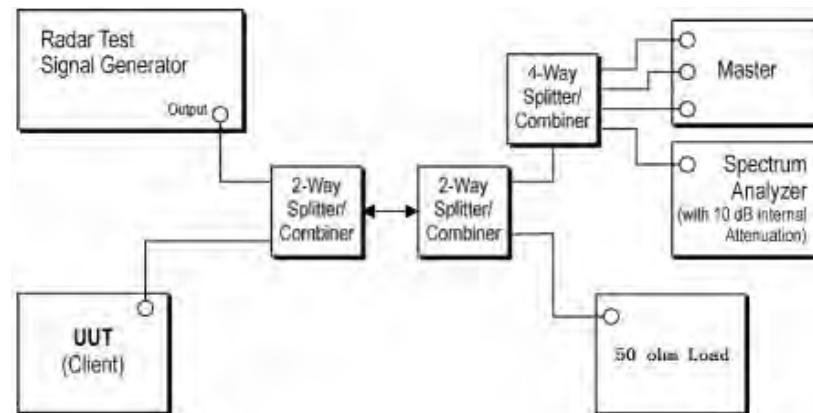
Radar Waveform Calibration Procedure

- 1) A 50 ohm load is connected in place of the spectrum analyzer, and the spectrum analyzer is connected to place of the master
- 2) The interference Radar Detection Threshold Level is $-62\text{dBm} + 0\text{dBi} + 1\text{dB} = -61\text{dBm}$ that had been taken into account the output power range and antenna gain.
- 3) The following equipment setup was used to calibrate the conducted radar waveform. A vector signal generator was utilized to establish the test signal level for radar type 0. During this process there were no transmissions by either the master or client device. The spectrum analyzer was switched to the zero spans (time domain) at the frequency of the radar waveform generator. Peak detection was

used. The spectrum analyzer resolution bandwidth (RBW) and video bandwidth (VBW) were set to 3 MHz. The spectrum analyzer had offset -1.0dB to compensate RF cable loss 1.0dB.

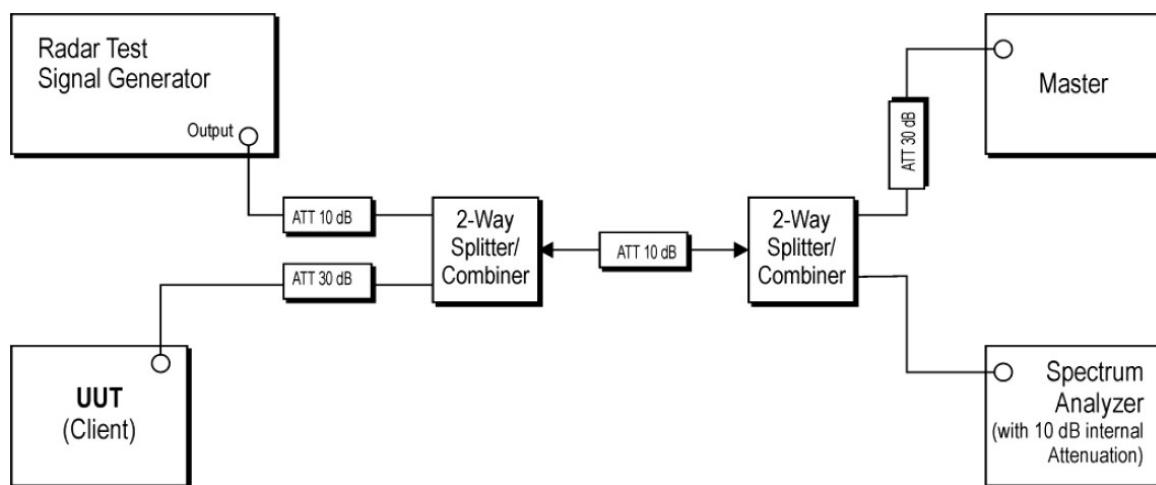
4) The vector signal generator amplitude was set so that the power level measured at the spectrum analyzer was $-62\text{dBm} + 0\text{dB} + 1\text{dB} = -61\text{dBm}$. Capture the spectrum analyzer plots on short pulse radar waveform.

Conducted Calibration Setup



Test Configuration

Setup for Client with injection at the Master



Radar Waveform Calibration Result

Passed Not Applicable



Test Procedure

1. The radar pulse generator is setup to provide a pulse at frequency that the master and client are operating. A type 0 radar pulse with a 1us pulse width and a 1428us PRI is used for the testing.
2. The vector signal generator is adjusted to provide the radar burst (18 pulses) at the level of approximately -61dBm at the antenna port of the master device
3. A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the traffic and the occurrence of the radar pulse.
4. EUT will associate with the master at channel. The file "iperf.exe" specified by the FCC is streamed from the PC 2 through the master and the client device to the PC 1 and played in full motion video using Media Player Classic Ver. 6.4.8.6 in order to properly load the network for the entire period of the test.
5. When radar burst with a level equal to the DFS Detection Threshold +1dB is generated on the operating channel of the U-NII device. At time T0 the radar waveform generator sends a burst of pulse of the radar waveform at Detection Threshold +1dB.
6. Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel Measure and record the transmissions from the UUT during the observation time (Channel Move Time). One 15 seconds plot is reported for the Short Pulse Radar Type 0. The plot for the Short Pulse Radar Types start at the end of the radar burst. The Channel Move Time will be calculated based on the zoom in 600ms plot of the Short Pulse Radar Type
7. Measurement of the aggregate duration of the Channel Closed Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: Dwell (0.3ms) = S (12000ms) / B (4000); where Dwell is the dwell time per spectrum analyzer sampling bin, S is sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by: C (ms) = N X Dwell (0.3ms); where C is the Closing Time, N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and Dwell is the dwell time per bin.
8. Measurement the EUT for more than 30 minutes following the channel move time to verify that no transmission or beacons occur on this channel.

Test Mode

Please refer to the clause 2.4.

Test Results

Passed Not Applicable

*****THE END*****