



Radio Test Report

FCC ID: ZQ6-AP5811SA**Change II**

Report No. : TBR-C-202601-0203-55
Applicant : AMPAK Technology Inc.
Equipment Under Test (EUT)
EUT Name : AP5811SA
Model No. : AP5811SA
Series Model No. : N/A
Brand Name : AMPAK, SPARKLAN
Sample ID : HC-C-202601-0203-01-01&HC-C-202601-0203-02-01
Receipt Date : 2026-01-26
Test Date : 2026-01-26 to 2026-03-16
Issue Date : 2026-03-16
Standards : FCC Part 15 Subpart E 15.407
Test Method : ANSI C63.10: 2020+Cor.1:2023+C63.10a: 2024+Errata to C63.10a: 2024KDB 987594
D01 U-NII 6GHz General Requirements v01r02
KDB 987594 D02 U-NII 6GHz EMC Measurement v01r01
Conclusions : **PASS**

In the configuration tested, the EUT complied with the standards specified above.

Test By : Gold. zhang Gold Zhang
Reviewed By : Henry Huang Henry Huang
Approved By : Ivan Su Ivan Su



This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in the report.

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Revision History

Report No.	Version	Description	Issued Date
TBR-C-202601-0203-55	Rev.01	Initial issue of report	2026-03-16

Note:

- (1) This report is Class II change report for the original equipment have changed, the transmitter module itself has not changed. More information about the test data please refer to the original test report.
- (2) Add an antenna (EAF727A) . The interface for connecting the RF cable is the same as before. However, the antenna gain is smaller than before. (Antenna: -3.7dBi)
- (3) Based on these changes, only tests were conducted on "conductive radiation", "non-essential radiation emissions at frequencies of 1GHz and below, and those above 1GHz", and "contention-based Protocol" as well as "restricted frequency bands". The other items that were not reported still meet the requirements of the latest standard.



1. General Information about EUT

1.1 Client Information

Applicant	:	AMPAK Technology Inc.
Address	:	6F., No. 23, Huanke 1st Rd., Zhubei City, Hsinchu 302047, Taiwan
Manufacturer	:	AMPAK Technology Inc.
Address	:	6F., No. 23, Huanke 1st Rd., Zhubei City, Hsinchu 302047, Taiwan

1.2 General Description of EUT (Equipment Under Test)

EUT Name	:	AP5811SA	
HVIN/Models No.	:	AP5811SA	
Model Different	:	N/A	
Product Description	:	Operation Frequency: U-NII-5: 5955MHz~6415MHz, U-NII-6: 6435MHz~6515MHz U-NII-7: 6535MHz~6875MHz, U-NII-8: 6895MHz~7115MHz	
		Antenna Gain:	See antenna information
		Modulation Type:	802.11a: OFDM (QPSK, BPSK, 16QAM, 64QAM) 802.11ax: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM)
		Beamforming Function:	☐ With Beamforming
			☒ Without Beamforming
		Device Type:	☐ Indoor Access Point
			☒ Indoor Client
			☐ Dual Client
			☐ Fixed Client
Power Rating	:	DC 3.3V	
Software Version	:	N/A	
Hardware Version	:	N/A	
Remark: (1) The antenna gain provided by the applicant, the verified for the RF conduction test provided by TOBY test lab. (2) The above antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.			



(3)Channel List:

5955-6415MHz(U-NII-5 band)				
Bandwidth	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
802.11ax(HE20)	1	5955	49	6195
	5	5975	53	6215
	9	5995	57	6235
	13	6015	61	6255
	17	6035	65	6275
	21	6055	69	6295
	25	6075	73	6315
	29	6095	77	6335
	33	6115	81	6355
	37	6135	85	6375
	41	6155	89	6395
	45	6175	93	6415
Bandwidth	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
802.11ax(HE40)	3	5965	51	6205
	11	6005	59	6245
	19	6045	67	6285
	27	6085	75	6325
	35	6125	83	6365
	43	6165	91	6405
Bandwidth	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
802.11ax(HE80)	7	5985	55	6225
	23	6065	71	6305
	39	6145	87	6385



6425-6525MHz(U-NII-6 band)				
Bandwidth	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
802.11ax(HE20)	97	6435	109	6495
	101	6455	113	6515
	105	6475		
Bandwidth	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
802.11ax(HE40)	99	6445	*115	6525
	107	6485		
Bandwidth	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
802.11ax(HE80)	103	6465	*119	6545
*mean this is straddle channel.				

6525-6885MHz(U-NII-7 band)				
Bandwidth	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
802.11ax(HE20)	117	6535	153	6715
	121	6555	157	6735
	125	6575	161	6755
	129	6595	165	6775
	133	6615	169	6795
	137	6635	173	6815
	141	6655	177	6835
	145	6675	181	6855
	149	6695	*185	6875
Bandwidth	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
802.11ax(HE40)	123	6565	163	6765
	131	6605	171	6805
	139	6645	179	6845
	147	6685	*187	6885
	155	6725		
Bandwidth	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
802.11ax(HE80)	135	6625	167	6785
	151	6705	*183	6865



6875-7125MHz(U-NII-8 band)				
Bandwidth	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
802.11ax(HE20)	189	6895	213	7015
	193	6915	217	7035
	197	6935	221	7055
	201	6955	225	7075
	205	6975	229	7095
	209	6995	233	7115
Bandwidth	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
802.11ax(HE40)	195	6925	219	7045
	203	6965	227	7085
	211	7005		
Bandwidth	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
802.11ax(HE80)	199	6945	215	7025



(4) Antenna information:

Antenna information:

Model No. of antenna:	Type of antenna:	Gain of the antenna (Max.)	Gain of the antenna (Min.)
		Antenna 1	Antenna 1
AD-501AX	Dipole Antenna	5.00dBi	4.50dBi
AD-510AX	Dipole Antenna	3.52dBi	2.29 dBi
AD-512AX	Dipole Antenna	3.02dBi	1.90 dBi
AD-514AX	Dipole Antenna	4.17dBi	2.99 dBi
AD-515AX	Dipole Antenna	6.34dBi	5.29 dBi
EAF727A	PCB Antenna	-3.7dBi	-8.2 dBi

Note: This module will use five different WiFi antennas, and only the one with the larger antenna gain(**Antenna1: 6.34dBi;(AD-515AX)** will be used for test.

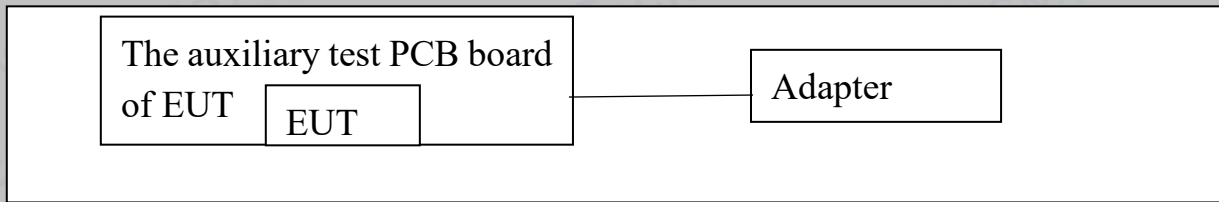
Add an antenna (**EAF727A**) . The interface for connecting the RF cable is the same as before.

However, the antenna gain is smaller than before. (**Antenna: -3.7dBi**)

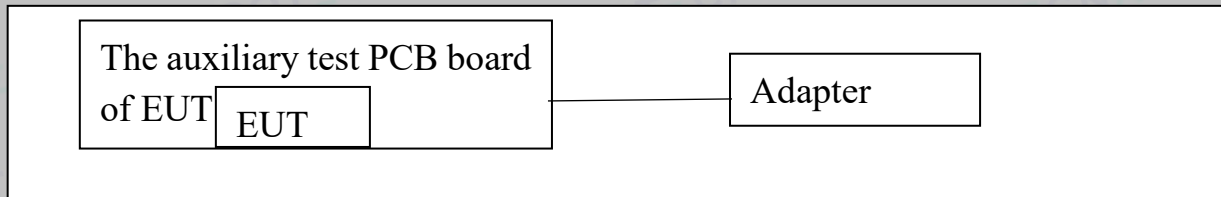


1.3 Block Diagram Showing the Configuration of System Tested

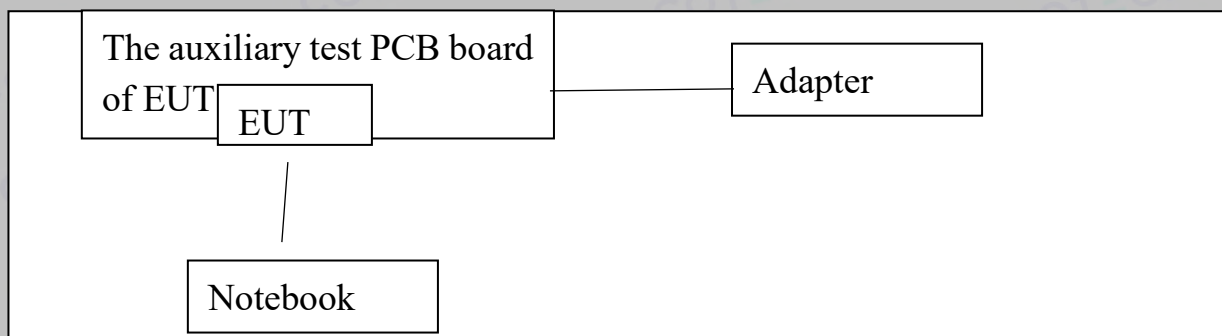
Conducted Test



Radiated Test



Conducted Measurements Test



1.4 Description of Support Units

Equipment Information				
Name	Model	S/N	Manufacturer	Used “√”
Notebook	HYLR-WFQ9	AAMFPM1418000165	DELL	√
Adapter	N/A	N/A	N/A	√
The auxiliary test PCB board of EUT	N/A	N/A	N/A	√

1.5 Description of Test Mode

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test



configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned follow was evaluated respectively.

For Conducted Test		
Final Test Mode		Description
Mode 1		TX ax Mode(5955MHz)
For Radiated Test Below 1GHz		
Final Test Mode		Description
Mode 2		TX ax Mode(5955MHz)
For Radiated Above 1GHz and RF Conducted Test		
Test Band	Final Test Mode	Description
	Mode 3	TX Mode 802.11ax(HE20) Mode Channel 01/45/93
	Mode 4	TX Mode 802.11ax (HE40) Mode Channel 03/43/91
	Mode 5	TX Mode 802.11ax (HE80) Mode Channel 07/39/87
	Mode 6	TX Mode 802.11ax(HE20) Mode Channel 97/105/113
	Mode 7	TX Mode 802.11ax (HE40) Mode Channel 99/107/115
	Mode 8	TX Mode 802.11ax (HE80) Mode Channel 103/119
	Mode 9	TX Mode 802.11ax(HE20) Mode Channel 117/149/181/185
	Mode 10	TX Mode 802.11ax (HE40) Mode Channel 123/155/178/187
	Mode 11	TX Mode 802.11ax (HE80) Mode Channel 135/151/167/183
	Mode 12	TX Mode 802.11ax(HE20) Mode Channel 189/209/233
	Mode 13	TX Mode 802.11ax (HE40) Mode Channel 195/211/227
	Mode 14	TX Mode 802.11ax (HE80) Mode Channel 199/215

Note:

- (1) For all test, we have verified the construction and function in typical operation. And all the test modes were carried out with the EUT in transmitting operation in maximum power with all kinds of data rate.

According to ANSI C63.10 standards, the measurements are performed at the highest, middle, lowest available channels, and the worst case data rate as follows:

- (2) During the testing procedure, the continuously transmitting with the maximum power mode was programmed by the customer.

Mode	Data Rate
AX(HE20) Mode	HE0NSS0
AX(HE40) Mode	HE0NSS0
AX(HE80) Mode	HE0NSS0

- (3) The EUT is considered a Mobile unit; in normal use it was positioned on X-plane. The worst case was found positioned on X-plane. Therefore only the test data of this X-plane was used for radiated emission measurement test.



1.5 Description of Test Software Setting

During testing channel& Power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of RF setting.

Test Software: cmd command		
U-NII-5		
Mode	Frequency(MHz)	Parameters
802.11ax(HE20)	5955	50
	6175	50
	6415	50
802.11ax(HE40)	5965	60
	6165	60
	6405	60
802.11ax(HE80)	5985	63
	6145	63
	6385	63
U-NII-6		
Mode	Frequency(MHz)	Parameters
802.11ax(HE20)	6435	60
	6475	60
	6515	60
802.11ax(HE40)	6445	65
	6485	65
	6525	65
802.11ax(HE80)	6465	65
	6545	65



U-NII-7		
Mode	Frequency(MHz)	Parameters
802.11ax(HE20)	6535	65
	6695	65
	6855	65
	6875	65
802.11ax(HE40)	6565	65
	6685	65
	6845	65
	6885	65
802.11ax(HE80)	6625	65
	6705	65
	6785	65
	6865	65
U-NII-8		
Mode	Frequency(MHz)	Parameters
802.11ax(HE20)	6895	65
	6995	65
	7115	65
802.11ax(HE40)	6925	65
	6965	65
	7085	65
802.11ax(HE80)	6945	65
	7025	65
Note: U-NII-5, U-NII-6, U-NII-7 and U-NII-8 only support ax20, ax40 and ax80; Radiated Unwanted Emissions U-NII-5, U-NII-6, U-NII-7 U-NII-8 All When the radiation exceeds 1GHz, only the worst mode ax20M frequency is tested, Restricted Bands Requirement All the modes of U-NII-5, U-NII-6, U-NII-7 and U-NII-8 were evaluated		



1.6 Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

Test Item	Parameters	Expanded Uncertainty (U_{Lab})
Conducted Emission	Level Accuracy: 9kHz~150kHz 150kHz to 30MHz	± 3.50 dB ± 3.10 dB
Radiated Emission	Level Accuracy: 9kHz to 30 MHz	± 4.60 dB
Radiated Emission	Level Accuracy: 30MHz to 1000 MHz	± 4.50 dB
Radiated Emission	Level Accuracy: Above 1000MHz	± 4.20 dB
RF Power-Conducted	Level Accuracy: Above 1000MHz	± 0.95 dB
Power Spectral Density- Conducted	Level Accuracy: Above 1000MHz	± 3 dB
Occupied Bandwidth	Level Accuracy: 30MHz to 1000 MHz Above 1000MHz	$\pm 3.8\%$
Unwanted Emission- Conducted	Level Accuracy: 30MHz to 1000 MHz Above 1000MHz	± 2.72 dB
Temperature	/	$\pm 0.6^{\circ}\text{C}$
Humidity	/	$\pm 4\%$
Supply voltages	/	$\pm 2\%$
Time	/	$\pm 4\%$



1.7 Test Facility

The testing report were performed by the Shenzhen Toby Technology Co., Ltd., in their facilities located at 1/F., Building 6, Rundongsheng Industrial Zone, Longzhu, Xixiang, Bao'an District, Shenzhen, Guangdong, China. At the time of testing, the following bodies accredited the Laboratory:

CNAS (L5813)

The Laboratory has been accredited by CNAS to ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories for the competence in the field of testing. And the Registration No.: CNAS L5813.

A2LA Certificate No.: 4750.01

The laboratory has been accredited by American Association for Laboratory Accreditation(A2LA) to ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories for the technical competence in the field of Electrical Testing. And the A2LA Certificate No.: 4750.01.FCC Accredited Test Site Number: 854351. Designation Number: CN1223.

IC Registration No.: (11950A)

The Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing. The site registration: Site# 11950A. CAB identifier: CN0056.



2. Test Summary

Standard Section	Test Item	Test Sample(s)	Judgment
15.407(b)(8)	Conducted Emission	HC-C-202601-0203-01-01	PASS
15.407(b)(5)(8)	Radiated Spurious Emission	HC-C-202601-0203-01-01	PASS
15.407(d)(6)	Contention-based Protocol	HC-C-202601-0203-02-01	PASS

Note: (1) N/A is an abbreviation for Not Applicable.

(2) This report is Class II change report for the original equipment have changed, the transmitter module itself has not changed. More information about the test data please refer to the original test report.

3. Test Software

Test Item	Test Software	Manufacturer	Version No.
Radiation Emission	EZ-EMC	EZ	Ver.GARAD-3A1.1+
Radiation Emission	EZ-EMC	EZ	Ver.GARAD-3A1.1+
Radiation Emission	TS+	Tonscend	5.0.5
RF Conducted Measurement	MTS-8310	MWRFtest	V2.0.0.0
RF Test System	JS1120	Tonscend	V3.6.21



4. Test Equipment

Test Site					
No.	Test Site	Manufacturer	Specification	Used	
TB-EMCSR001	Shielding Chamber #1	YIHENG	7.5*4.0*3.0 (m)	✓	
TB-EMCSR002	Shielding Chamber #2	YIHENG	8.0*4.0*3.0 (m)	✓	
TB-EMCCA001	3m Anechoic Chamber #A	ETS	9.0*6.0*6.0 (m)	X	
TB-EMCCB002	3m Anechoic Chamber #B	YIHENG	9.0*6.0*6.0 (m)	✓	
Conducted Emission Test					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
EMI Test Receiver	Rohde & Schwarz	ESCI	100321	Jun. 16, 2025	Jun. 15, 2026
RF Switching Unit	Compliance Direction Systems Inc	RSU-A4	34403	Jun. 16, 2025	Jun. 15, 2026
AMN	SCHWARZBECK	NNBL 8226-2	8226-2/164	Jun. 16, 2025	Jun. 15, 2026
LISN	Rohde & Schwarz	ENV216	101131	Jun. 16, 2025	Jun. 15, 2026
Radiation Emission Test(B Site)					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	N9020A	MY49100060	Aug. 27, 2025	Aug. 26, 2026
Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102197	Jun. 16, 2025	Jun. 15, 2026
EMI Test Receiver	Rohde & Schwarz	ESU-8	100472/008	Jan. 30, 2026	Jan. 29, 2027
Bilog Antenna	SCHWARZBECK	VULB 9168	1225	Oct. 18, 2025	Oct. 17, 2027
Horn Antenna	SCHWARZBECK	BBHA 9120 D	2463	Jun. 14, 2024	Jun. 13, 2026
Horn Antenna	SCHWARZBECK	BBHA 9170	1118	Jan. 31, 2026	Jan. 30, 2028
HF Amplifier	Tonscend	TAP9E6343	AP21C806117	Jun. 14, 2024	Jun. 13, 2026
HF Amplifier	Tonscend	TAP051845	AP21C806141	Aug. 27, 2025	Aug. 26, 2026
HF Amplifier	Tonscend	TAP0184050	AP21C806129	Aug. 27, 2025	Aug. 26, 2026
Pre-amplifier	HP	8449B	3008A00849	Feb. 02, 2026	Feb.01, 2027
Highpass Filter	CD	HPM-6.4/18G	---	N/A	N/A
Highpass Filter	CD	HPM-2.8/18G	---	N/A	N/A
Highpass Filter	XINBO	XBLBQ-HTA67(8-25G)	22052702-1	N/A	N/A
Antenna Conducted Emission					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102197	Jun. 16, 2025	Jun. 15, 2026
MXA Signal Analyzer	KEYSIGHT	N9020B	MY60110172	Aug. 27, 2025	Aug. 26, 2026
MXA Signal Analyzer	Agilent	N9020A	MY47380425	Aug. 27, 2025	Aug. 26, 2026
Vector Signal Generator	Agilent	N5182A	MY50141294	Aug. 27, 2025	Aug. 26, 2026
Analog Signal Generator	Agilent	N5181A	MY48180463	Aug. 27, 2025	Aug. 26, 2026
Vector Signal Generator	KEYSIGHT	N5182B	MY59101429	Aug. 27, 2025	Aug. 26, 2026
Analog Signal Generator	KEYSIGHT	N5173B	MY61252685	Aug. 27, 2025	Aug. 26, 2026
RF Control Unit	Tonsced	JS0806-2	21F8060439	Aug. 27, 2025	Aug. 26, 2026
Power Control Box	Tonsced	JS0806-4ADC	21C8060387	N/A	N/A
RF Power Sensor	DARE!! Instruments	RadiPowerRPR30 06W	17I00015SNO26	Aug. 27, 2025	Aug. 26, 2026
			17I00015SNO29	Aug. 27, 2025	Aug. 26, 2026
			17I00015SNO31	Aug. 27, 2025	Aug. 26, 2026
			17I00015SNO33	Aug. 27, 2025	Aug. 26, 2026
Attenuator	XINQY	10dB	---	N/A	N/A
Attenuator	XINQY	10dB	---	N/A	N/A



5.4 Deviation From Test Standard

No deviation

5.5 EUT Operating Mode

Please refer to the description of test mode.

5.6 Test Data

Please refer to the Attachment A inside test report.



6. Radiated and Conducted Unwanted Emissions

6.1 Test Standard and Limit

6.1.1 Test Standard

FCC Part 15.209 & FCC Part 15.407(b)

6.1.2 Test Limit

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table:

General field strength limits at frequencies Below 30MHz		
Frequency (MHz)	Field Strength (microvolt/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
Note: The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.		

General field strength limits at frequencies above 30 MHz		
Frequency (MHz)	Field strength (μV/m at 3 m)	Measurement Distance (meters)
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

General field strength limits at frequencies Above 1000MHz		
Frequency (MHz)	Distance of 3m (dBuV/m)	
	Peak	Average
Above 1000	74	54
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

Frequency (MHz)	EIRP Limits (dBm)	Equivalent Field Strength at 3m (dBuV/m)
5925~7125	Peak: -7	88.2
	AVG: -27	68.2
NOTE:		
The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:		
$E = \frac{1000000 \sqrt{30P}}{3} \text{ uV/m, where P is the eirp (Watts)}$		
For above 1000MHz $E[\text{dBuV/m}] = \text{EIRP}[\text{dBm}] + 95.2$, for $d=3$		
Note: For above 1000 MHz. Unwanted emissions outside of restricted bands are measured with a RMS detector. In addition, 15.35(b) applies where the peak emissions must be limited to no more than 20 dB above the average limit.		

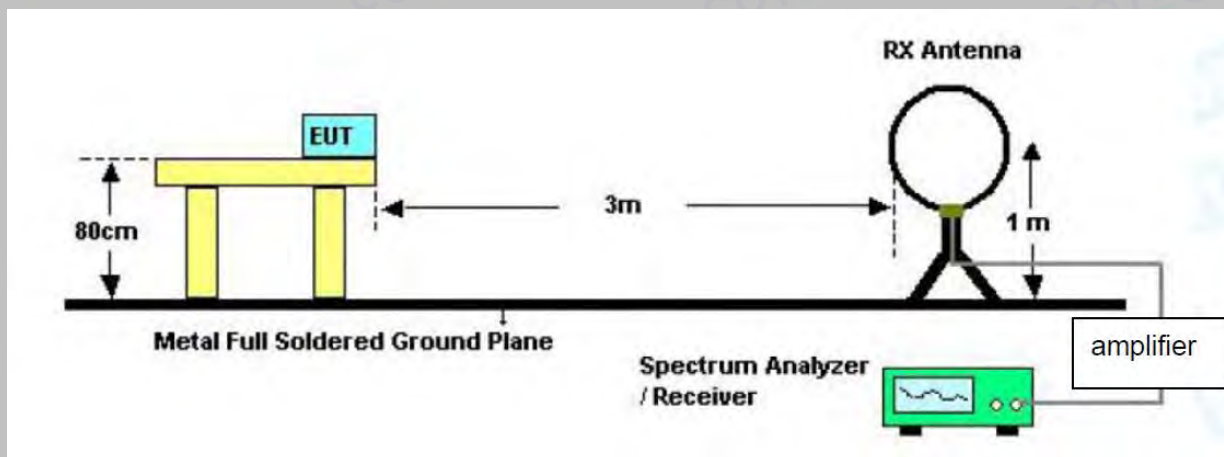


Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) of FCC part 15, must also comply with the radiated emission limits specified in Section 15.209(a).

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

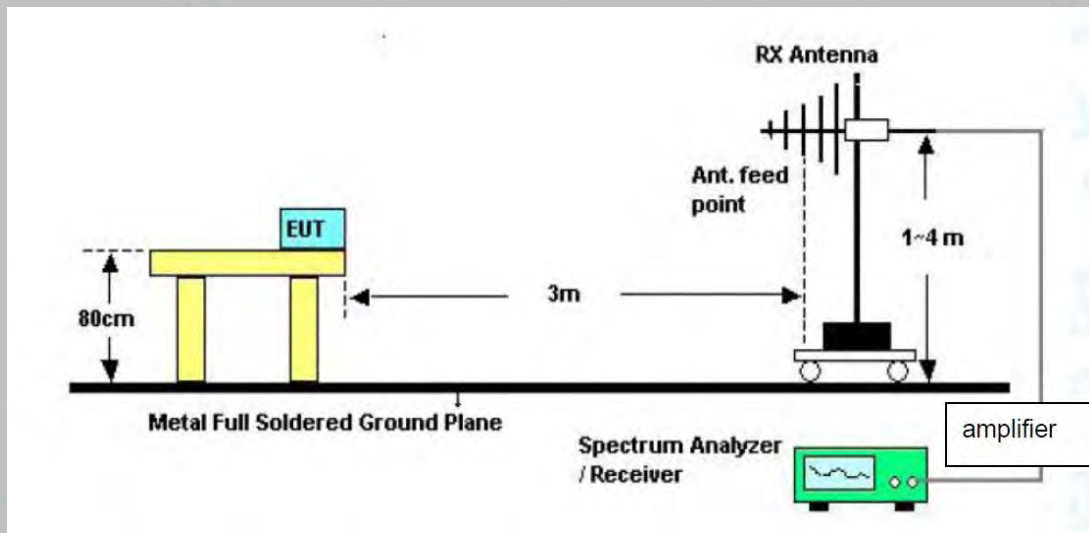
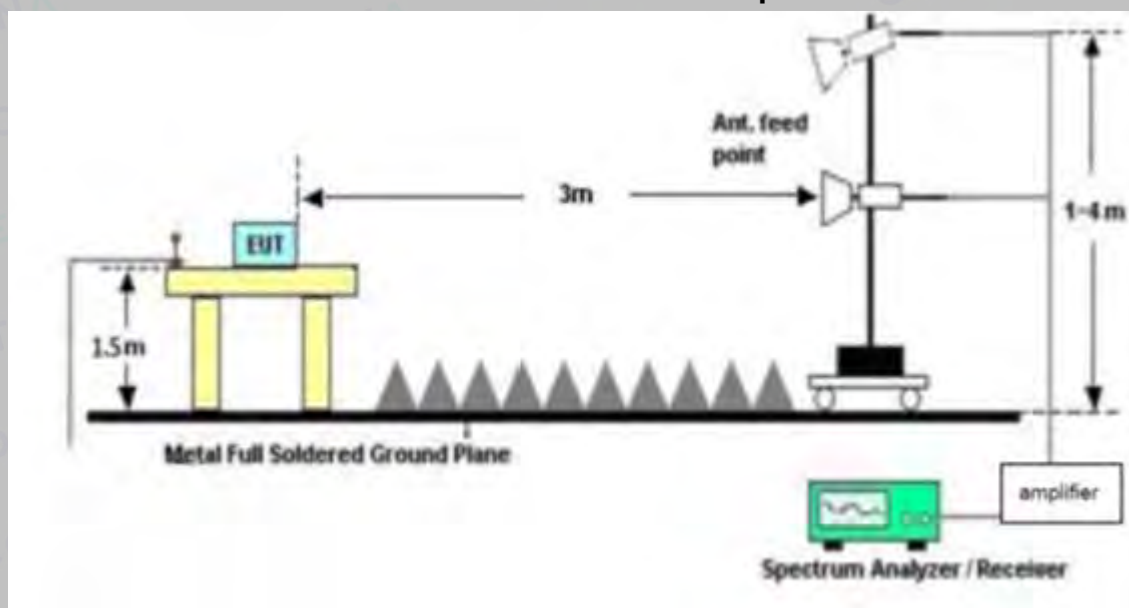
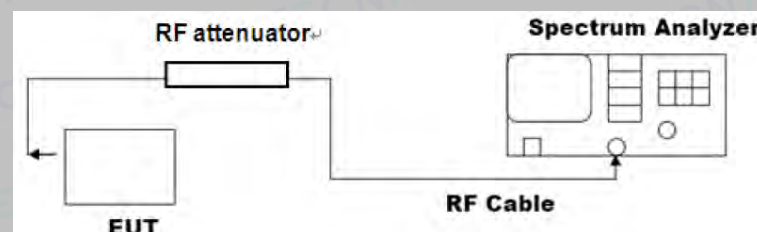
6.2 Test Setup

Radiated measurement



Below 30MHz Test Setup



**Below 1000MHz Test Setup****Above 1GHz Test Setup
Conducted measurement**

6.3 Test Procedure

---Radiated measurement

- The measuring distance of 3m shall be used for measurements at frequency up to 1GHz and above 1 GHz. The EUT was placed on a rotating 0.8m high above ground, the table was rotated 360 degrees to determine the position of the highest radiation.
- Measurements at frequency above 1GHz. The EUT was placed on a rotating 1.5m high above the ground. RF absorbers covered the ground plane with a minimum area of 3.0m by 3.0m between the EUT and measurement receiver antenna. The RF absorber shall not exceed 30cm in high above the conducting floor. The table was rotated 360 degrees to determine the position of the highest radiation.
- The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.
- The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit Below 1 GHz, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed. But the Peak Value and average value both need to comply with applicable limit above 1 GHz.
- Testing frequency range 30MHz-1GHz the measuring instrument use VBW=120 kHz with Quasi-peak detection. Testing frequency range 9KHz-150Hz the measuring instrument use VBW=200Hz with Quasi-peak detection. Testing frequency range 9KHz-30MHz the measuring instrument use VBW=9kHz with Quasi-peak detection.
- Testing frequency range above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.
- For the actual test configuration, please see the test setup photo.

--- Conducted measurement

●Reference level measurement

Establish a reference level by using the following procedure:

- a) Set instrument center frequency to DTS channel center frequency.
- b) Set the span to ≥ 1.5 times the DTS bandwidth.
- c) Set the RBW = 100 kHz.
- d) Set the VBW $\geq [3 \times \text{RBW}]$.
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum PSD level.



Note that the channel found to contain the maximum PSD level can be used to establish the reference level.

● Emission level measurement

Establish an emission level by using the following procedure:

- a) Set the center frequency and span to encompass frequency range to be measured.
- b) Set the RBW = 100 kHz.
- c) Set the VBW $\geq [3 \times \text{RBW}]$.
- d) Detector = peak.
- e) Sweep time = auto couple.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) Use the peak marker function to determine the maximum amplitude level.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11. Report the three highest emissions relative to the limit.

6.4 Deviation From Test Standard

No deviation

6.5 EUT Operating Mode

Please refer to the description of test mode.

6.6 Test Data

Radiated measurement please refer to the Attachment B inside test report.



7. Restricted Bands Requirement

7.1 Test Standard and Limit

7.1.1 Test Standard

FCC Part 15.205 & FCC Part 15.407(b)(5)

7.1.2 Test Limit

Frequency (MHz)	EIRP Limits (dBm)	Equivalent Field Strength at 3m (dBuV/m)
5925~7125	Peak: -7	88.2
	AVG: -27	68.2

NOTE:

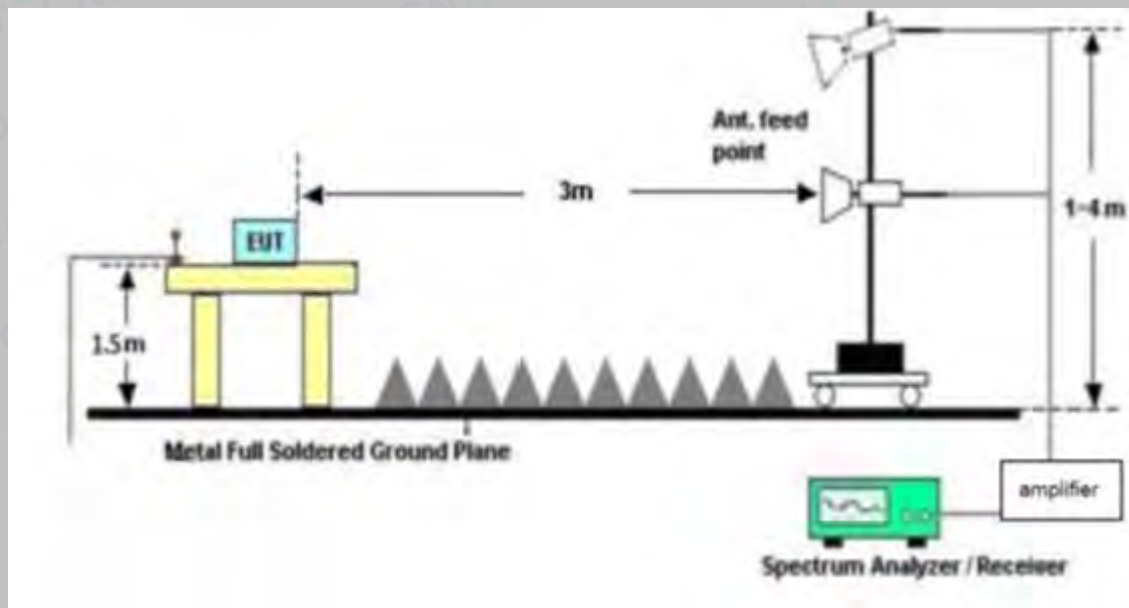
The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

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

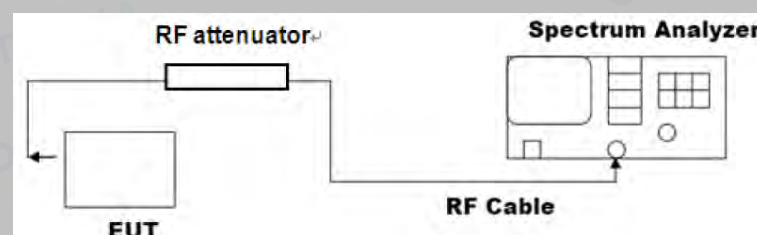
Note: For above 1000 MHz. Unwanted emissions outside of restricted bands are measured with a RMS detector. In addition, 15.35(b) applies where the peak emissions must be limited to no more than 20 dB above the average limit.

7.2 Test Setup

Radiated measurement



Conducted measurement



7.3 Test Procedure

---Radiated measurement

- Measurements at frequency above 1GHz. The EUT was placed on a rotating 1.5m high above the ground. RF absorbers covered the ground plane with a minimum area of 3.0m by 3.0m between the EUT and measurement receiver antenna. The RF absorber shall not exceed 30cm in high above the conducting floor. The table was rotated 360 degrees to determine the position of the highest radiation.
- The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.
- The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- The Peak Value and average value both need to comply with applicable limit above 1 GHz.
- Testing frequency range above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.
- For the actual test configuration, please see the test setup photo.

--- Conducted measurement

- a) Measure the conducted output power (in dBm) using the detector specified by the appropriate regulatory agency (see 11.12.2.3 through 11.12.2.5 for guidance regarding measurement procedures for determining quasi-peak, peak, and average conducted output power, respectively).
- b) Add the maximum transmit antenna gain (in dBi) to the measured output power level to determine the EIRP (see 11.12.2.6 for guidance on determining the applicable antenna gain).
- c) Add the appropriate maximum ground reflection factor to the EIRP (6 dB for frequencies ≤ 30 MHz; 4.7 dB for frequencies between 30 MHz and 1000 MHz, inclusive; and 0 dB for frequencies > 1000 MHz).
- d) For MIMO devices, measure the power of each chain and sum the EIRP of all chains in linear terms (i.e., watts and mW).
- e) Convert the resultant EIRP to an equivalent electric field strength using the following relationship:

$$E = \text{EIRP} - 20 \log d + 104.8$$

where

E is the electric field strength in dBuV/m

EIRP is the equivalent isotropically radiated power in dBm

d is the specified measurement distance in m

f) Compare the resultant electric field strength level with the applicable regulatory limit.

g) Perform the radiated spurious emission test.

7.4 Deviation From Test Standard

No deviation

7.5 EUT Operating Mode

Please refer to the description of test mode.

7.6 Test Data

Please refer to the Attachment C.



8. Contention-based Protocol

12.1 Test Standard and Limit

12.1.1 Test Standard

FCC Part 15.407(d)(6)

12.1.2 Test Limit

EUT can detect an AWGN signal with 90% (or better) level of certainty.

12.2 Test Setup

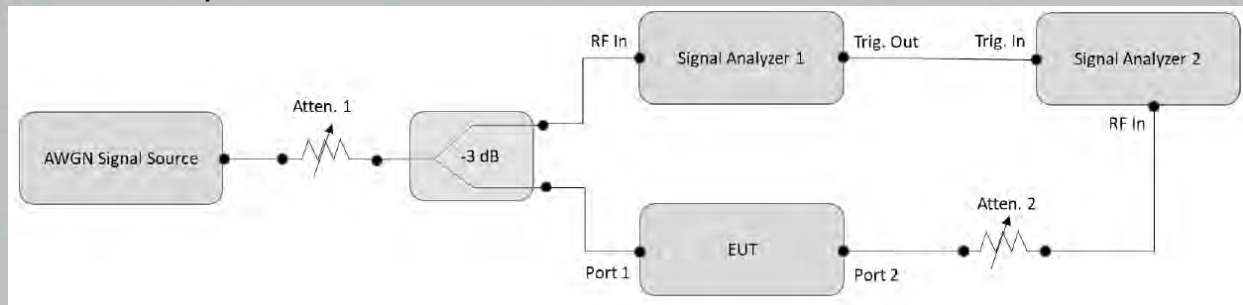


Figure 2. Contention-based protocol test setup, conducted method Step-by-Step Procedure, Conducted Setup

12.3 Test Procedure

To ensure the EUT is capable of detecting co-channel energy, the first step is to configure the EUT to transmit with a constant duty cycle. To simulate an incumbent signal, a signal generator (or similar source) that is capable of generating band-limited additive white Gaussian noise (AWGN) is required. Depending on the EUT antenna configuration, the AWGN signal can be provided to the EUT receiver via a conducted method (Figure 2) or a radiated method (Figure 3). Figure 2 shows the conducted test setup where a band-limited AWGN signal is generated at a very low power level and injected into the EUT's antenna port. The AWGN signal power level is then incrementally increased while the EUT transmission is monitored on a signal analyzer 2 to verify if the EUT can sense the AWGN signal and can subsequently cease its transmission. A triggered measurement, as shown in Figure 2, is optional, and assists with determining the time it takes the EUT to cease transmission (or vacate the channel) upon detecting RF energy. If the EUT has only one antenna port, then an AWGN signal source can be connected to the same antenna port.

1. Configure the EUT to transmit with a constant duty cycle.
2. Set the operating parameters of the EUT including power level, operating frequency, modulation and bandwidth.
3. Set the signal analyzer center frequency to the nominal EUT channel center frequency. The span range of the signal analyzer shall be between two times and five times the OBW of the EUT. Connect the output port of the EUT to the signal analyzer 2, as shown in Figure 2. Ensure that the attenuator 2 provides enough attenuation to not overload the signal analyzer 2 receiver.
4. Monitoring the signal analyzer 2, verify the EUT is operating and transmitting with the parameters set at step two.
5. Using an AWGN signal source, generate (but do not transmit, i.e., RF OFF) a 10 MHz-wide AWGN signal. Use Table 1 to determine the center frequency of the 10 MHz AWGN signal relative to the EUT's channel bandwidth and center frequency.
6. Set the AWGN signal power to an extremely low level (more than 20 dB below the -62 dBm threshold). Connect the AWGN signal source, via a 3-dB splitter, to the signal analyzer 1 and the EUT as shown in Figure 2.
7. Transmit the AWGN signal (RF ON) and verify its characteristics on the signal analyzer 1.
8. Monitor the signal analyzer 2 to verify if the AWGN signal has been detected and the



EUT has ceased transmission. If the EUT continues to transmit, then incrementally increase the AWGN signal power level until the EUT stops transmitting.

9. (Including all losses in the RF paths) Determine and record the AWGN signal power level (at the EUT's antenna port) at which the EUT ceased transmission. Repeat the procedure at least 10 times to verify the EUT can detect an AWGN signal with 90% (or better) level of certainty.

10. Refer to Table 1 to determine number of times the detection threshold testing needs to be repeated. If testing is required more than once, then go back to step 5, choose a different center frequency for the AWGN signal and repeat the process.

12.4 Deviation From Test Standard

No deviation

12.5 Antenna Connected Construction

Please refer to the description of test mode.

12.6 Test Data

Please refer to the Attachment D inside test report.



9. Antenna Requirement

15.1 Test Standard and Limit

15.1.1 Test Standard

FCC Part 15.203

15.1.2 Requirement

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

15.2 Deviation From Test Standard

No deviation

15.3 Antenna Connected Construction

The gains of the antenna used for transmitting is -3.7 dBi, and the antenna de-signed with permanent attachment and no consideration of replacement. Please see the EUT photo for details.

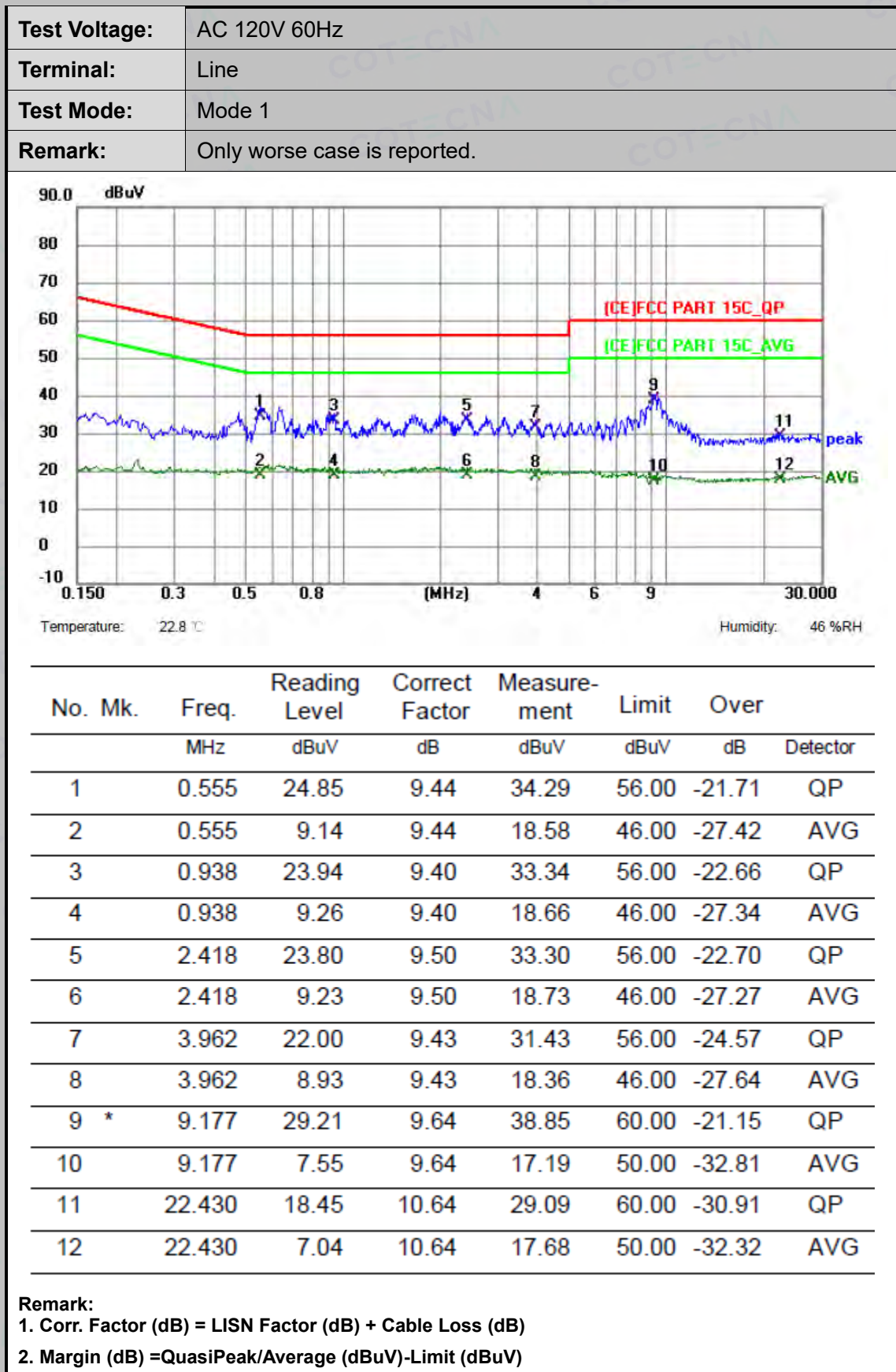
15.4 Test Data

The EUT antenna is a PCB Antenna. It complies with the standard requirement.

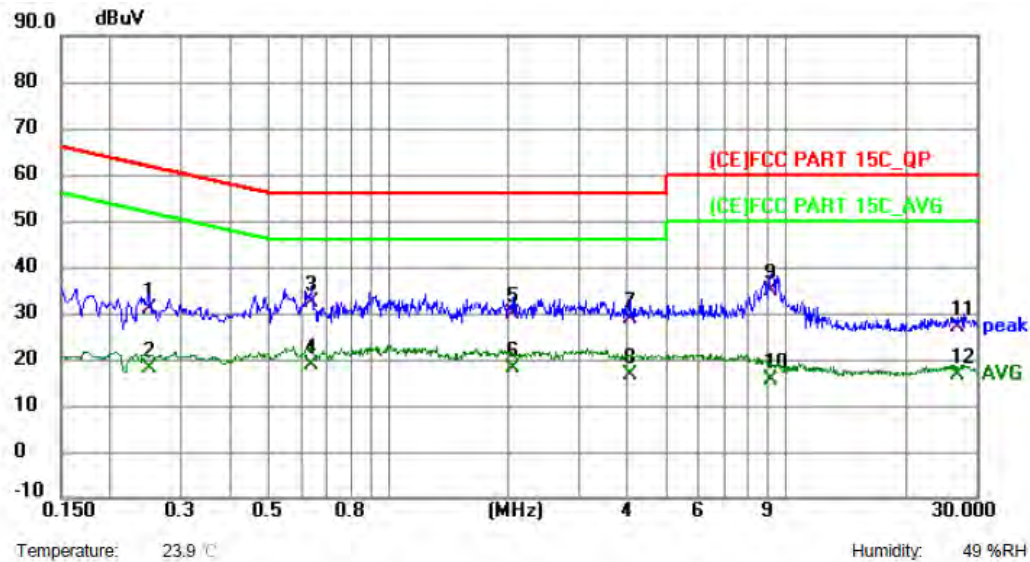
Antenna Type
☐ Permanent attached antenna
☒ Unique connector antenna
☐ Professional installation antenna



Attachment A-- Conducted Emission Test Data



Test Voltage:	AC 120V 60Hz
Terminal:	Neutral
Test Mode:	Mode 1
Remark:	Only worse case is reported.



No. Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1	0.249	21.47	9.60	31.07	61.79	-30.72	QP
2	0.249	8.51	9.60	18.11	51.79	-33.68	AVG
3 *	0.640	22.69	9.55	32.24	56.00	-23.76	QP
4	0.640	9.27	9.55	18.82	46.00	-27.18	AVG
5	2.045	20.24	9.51	29.75	56.00	-26.25	QP
6	2.045	8.60	9.51	18.11	46.00	-27.89	AVG
7	4.043	19.33	9.36	28.69	56.00	-27.31	QP
8	4.043	7.16	9.36	16.52	46.00	-29.48	AVG
9	9.177	25.09	9.85	34.94	60.00	-25.06	QP
10	9.177	5.81	9.85	15.66	50.00	-34.34	AVG
11	26.948	16.26	10.74	27.00	60.00	-33.00	QP
12	26.948	5.84	10.74	16.58	50.00	-33.42	AVG

Remark:

1. Corr. Factor (dB) = LISN Factor (dB) + Cable Loss (dB)

2. Margin (dB) = QuasiPeak/Average (dBuV) - Limit (dBuV)



Attachment B--Unwanted Emissions Data

---Radiated Unwanted Emissions

9 KHz~30 MHz

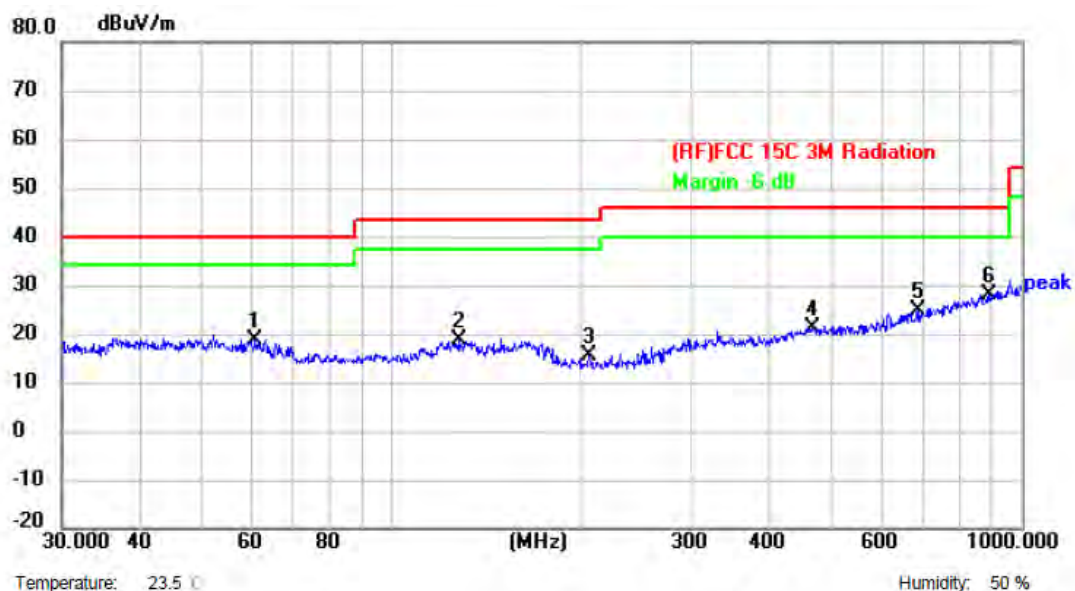
From 9 KHz to 30 MHz: Conclusion: PASS

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

Test Voltage:	AC 120V 60Hz
Ant. Pol.	Horizontal
Test Mode:	Mode 2
Remark:	Only worse case is reported.



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	60.9174	42.61	-23.78	18.83	40.00	-21.17	peak	P
2	128.5630	42.15	-23.47	18.68	43.50	-24.82	peak	P
3	206.3975	39.96	-24.32	15.64	43.50	-27.86	peak	P
4	465.5994	38.70	-17.52	21.18	46.00	-24.82	peak	P
5	684.7453	37.27	-12.42	24.85	46.00	-21.15	peak	P
6 *	890.7277	36.37	-8.38	27.99	46.00	-18.01	peak	P

Remark:

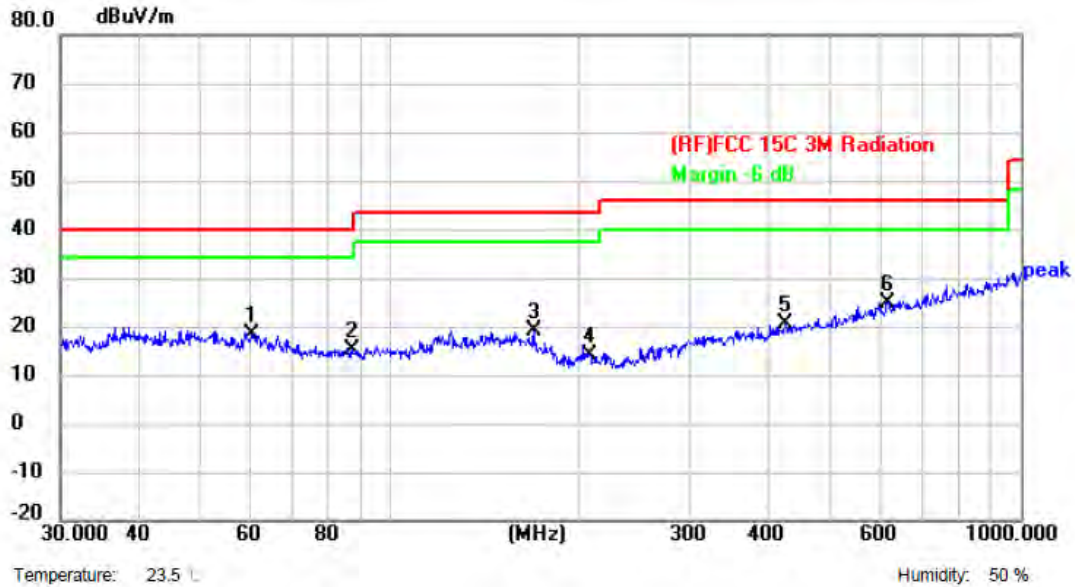
1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)+AMP(dB)

2. QuasiPeak (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)

3. Margin (dB) = QuasiPeak (dBμV/m)-Limit QPK(dBμV/m)



Test Voltage:	AC 120V 60Hz
Ant. Pol.	Vertical
Test Mode:	Mode 2
Remark:	Only worse case is reported.



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	60.4917	42.04	-23.57	18.47	40.00	-21.53	peak	P
2	87.4175	41.39	-26.29	15.10	40.00	-24.90	peak	P
3	169.0053	40.54	-21.60	18.94	43.50	-24.56	peak	P
4	207.1225	38.70	-24.43	14.27	43.50	-29.23	peak	P
5	425.0280	38.94	-18.44	20.50	46.00	-25.50	peak	P
6 *	616.3716	37.89	-13.00	24.89	46.00	-21.11	peak	P

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)+AMP(dB)

2. QuasiPeak (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)

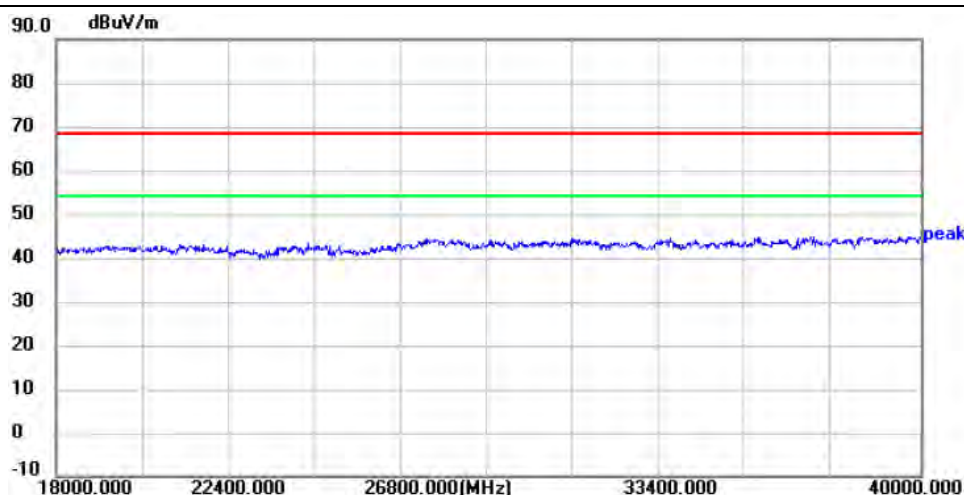
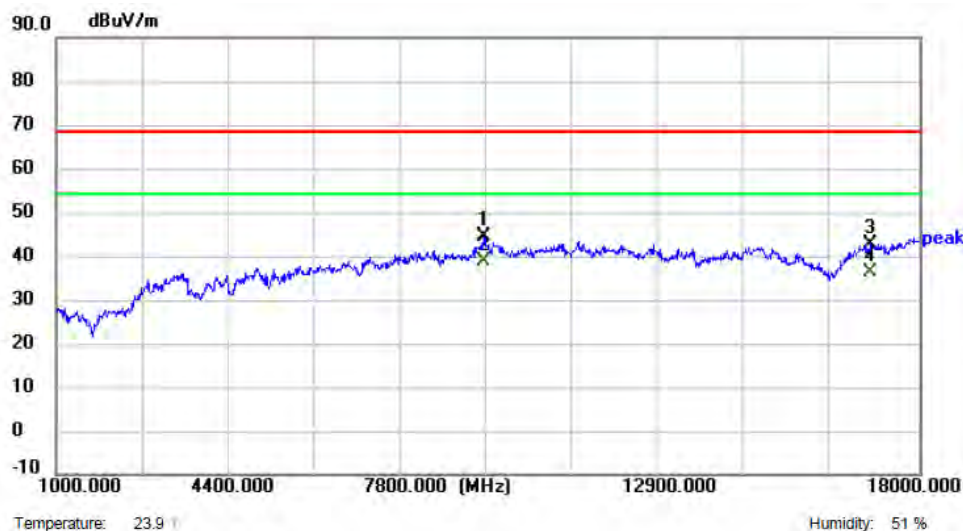
3. Margin (dB) = QuasiPeak (dBμV/m)-Limit QPK(dBμV/m)



Above 1GHz

Temperature:	23.9°C	Relative Humidity:	51%
Test Voltage:	DC 3.3V		
Test Mode:	TX 802.11ax20 Mode 5955MHz -U-NII-5		

Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	9415.0000	46.63	-2.30	44.33	68.30	-23.97	peak	P
2 *	9415.0000	40.91	-2.30	38.61	54.00	-15.39	AVG	P
3	17048.0000	39.06	3.61	42.67	68.30	-25.63	peak	P
4	17048.0000	32.56	3.61	36.17	54.00	-17.83	AVG	P

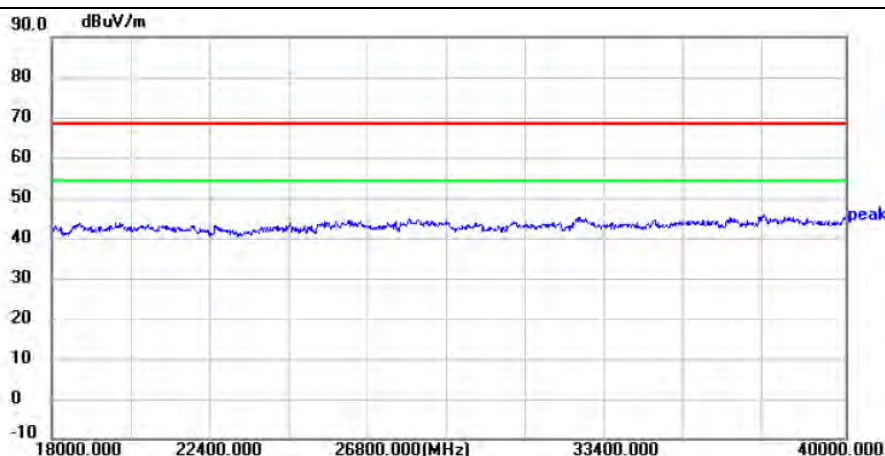
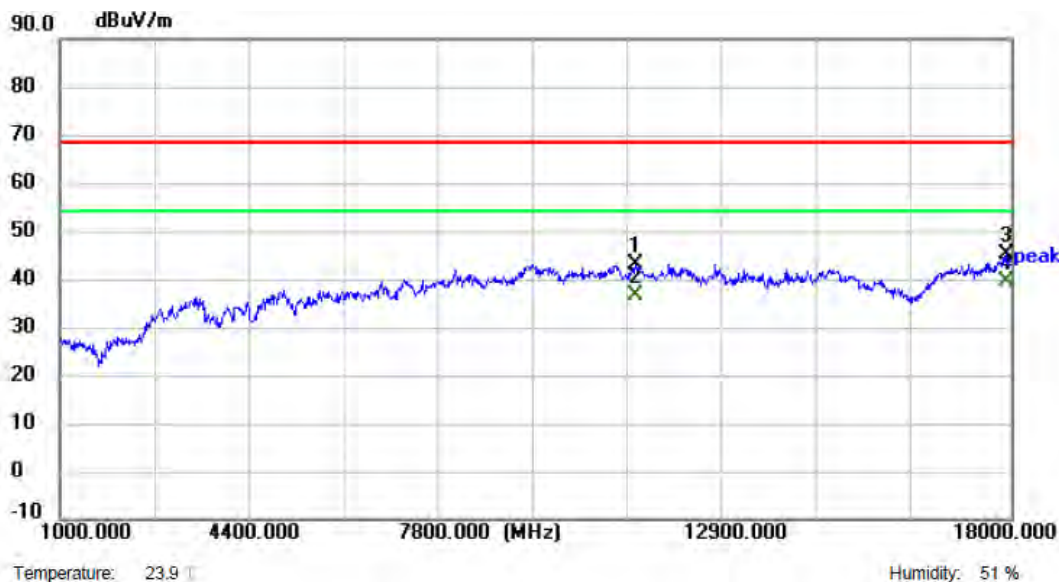
Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)+AMP(dB)
2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)
4. The tests evaluated 1-40GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency or 40GHz. Test with highpass filter (Pass Frequency:8-25G).
5. No report for the emission which more than 20dB below the prescribed limit.
6. The peak value<average limit, So only show the peak value. and 18GHz-40GHz is the noise, No other signals were detected.



Temperature:	23.9°C	Relative Humidity:	51%
Test Voltage:	DC 3.3V		
Test Mode:	TX 802.11ax20 Mode 5955MHz -U-NII-5		

Vertical

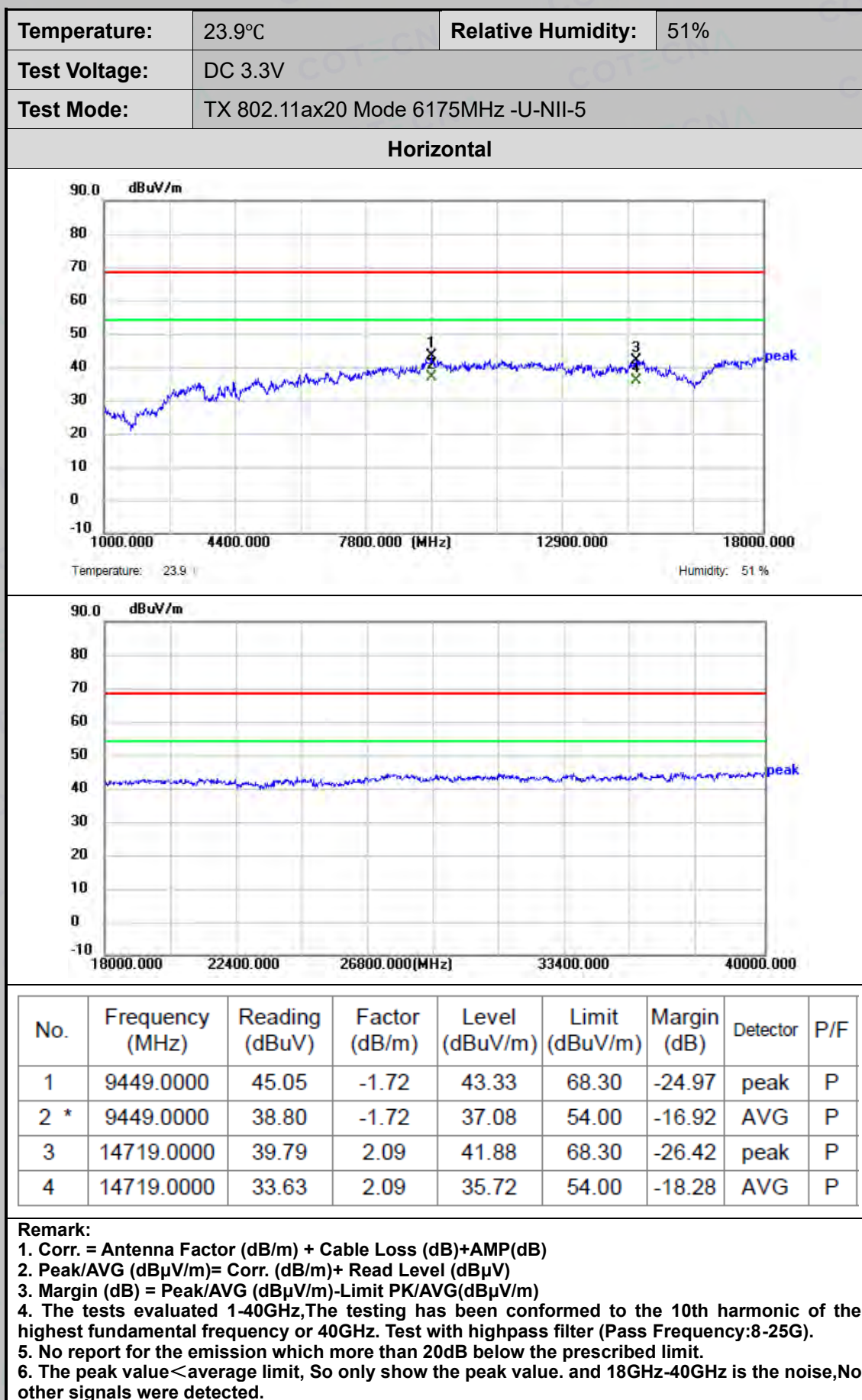


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	11302.0000	43.25	-0.39	42.86	68.30	-25.44	peak	P
2	11302.0000	36.94	-0.39	36.55	54.00	-17.45	AVG	P
3	17915.0000	39.18	6.10	45.28	68.30	-23.02	peak	P
4 *	17915.0000	33.38	6.10	39.48	54.00	-14.52	AVG	P

Remark:

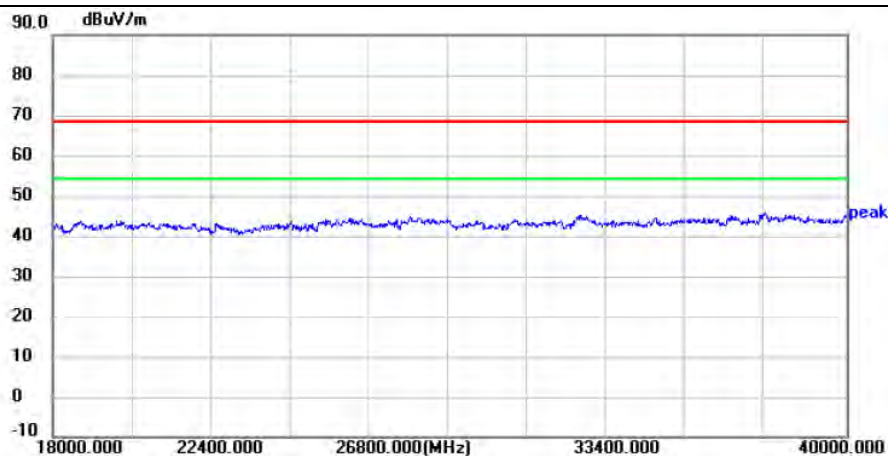
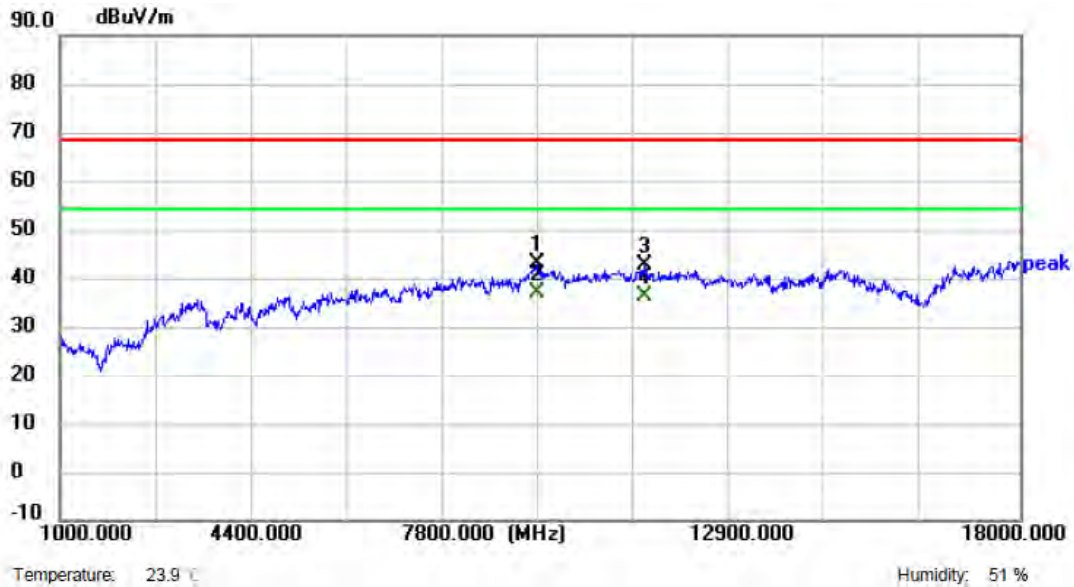
1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)+AMP(dB)
2. Peak/AVG (dBuV/m)= Corr. (dB/m)+ Read Level (dBuV)
3. Margin (dB) = Peak/AVG (dBuV/m)-Limit PK/AVG(dBuV/m)
4. The tests evaluated 1-40GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency or 40GHz. Test with highpass filter (Pass Frequency:8-25G).
5. No report for the emission which more than 20dB below the prescribed limit.
6. The peak value<average limit, So only show the peak value. and 18GHz-40GHz is the noise,No other signals were detected.





Temperature:	23.9°C	Relative Humidity:	51%
Test Voltage:	DC 3.3V		
Test Mode:	TX 802.11ax20 Mode 6175MHz -U-NII-5		

Vertical

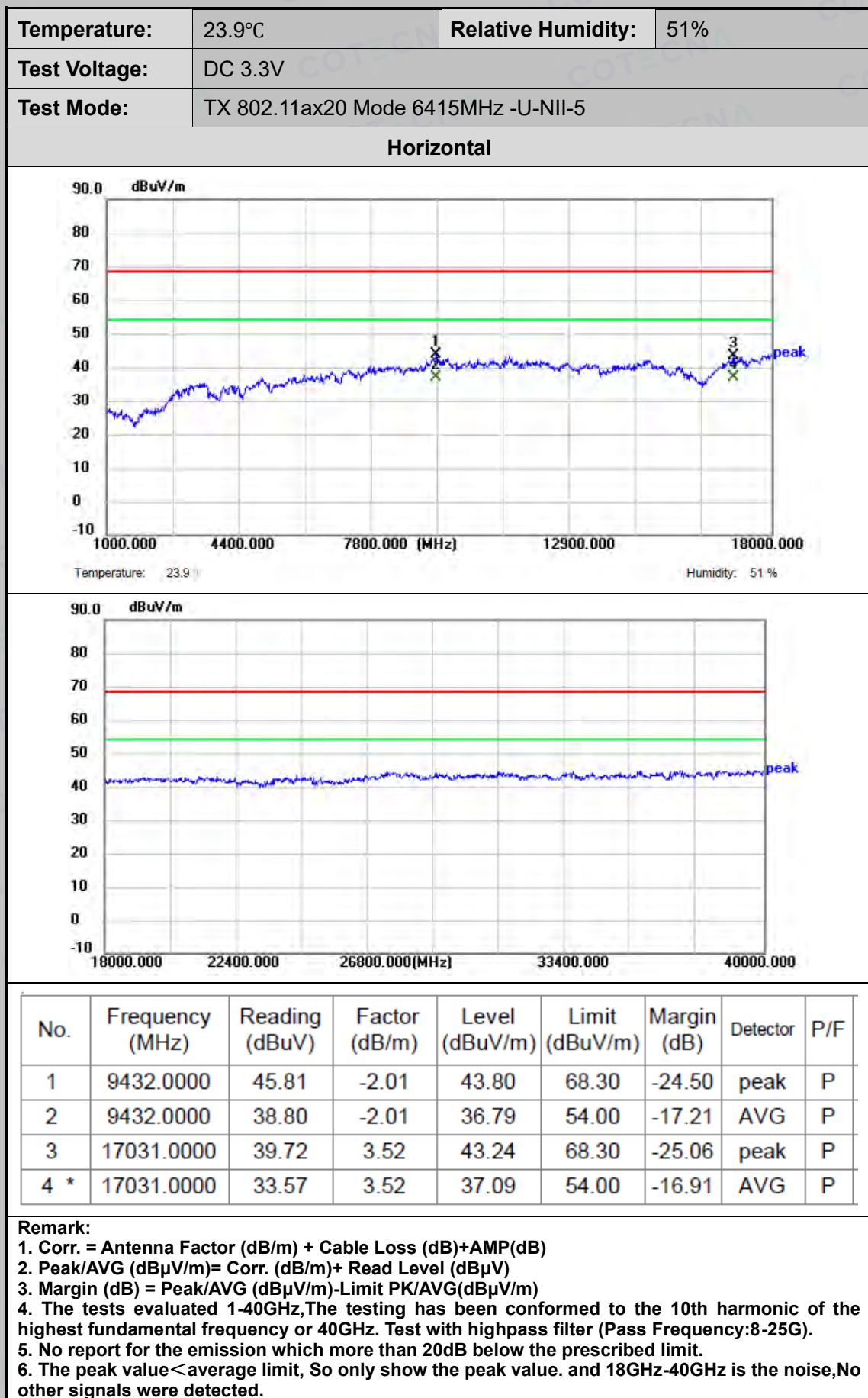


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	9449.0000	44.61	-1.72	42.89	68.30	-25.41	peak	P
2 *	9449.0000	38.64	-1.72	36.92	54.00	-17.08	AVG	P
3	11370.0000	43.01	-0.26	42.75	68.30	-25.55	peak	P
4	11370.0000	36.67	-0.26	36.41	54.00	-17.59	AVG	P

Remark:

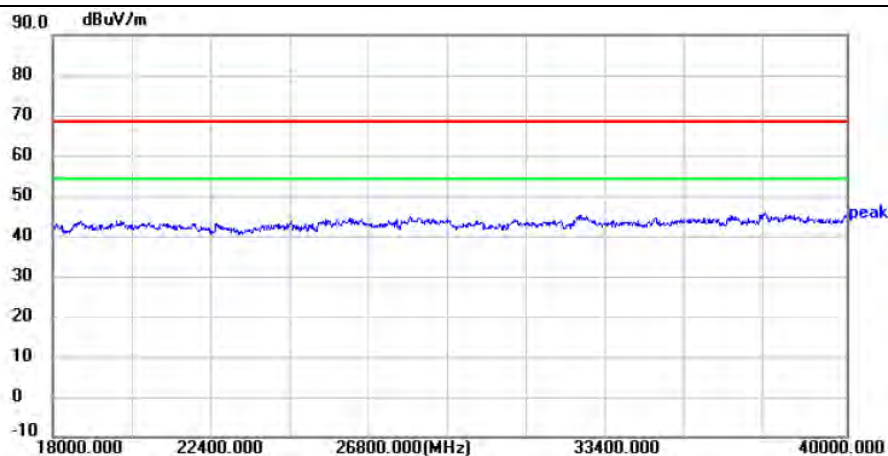
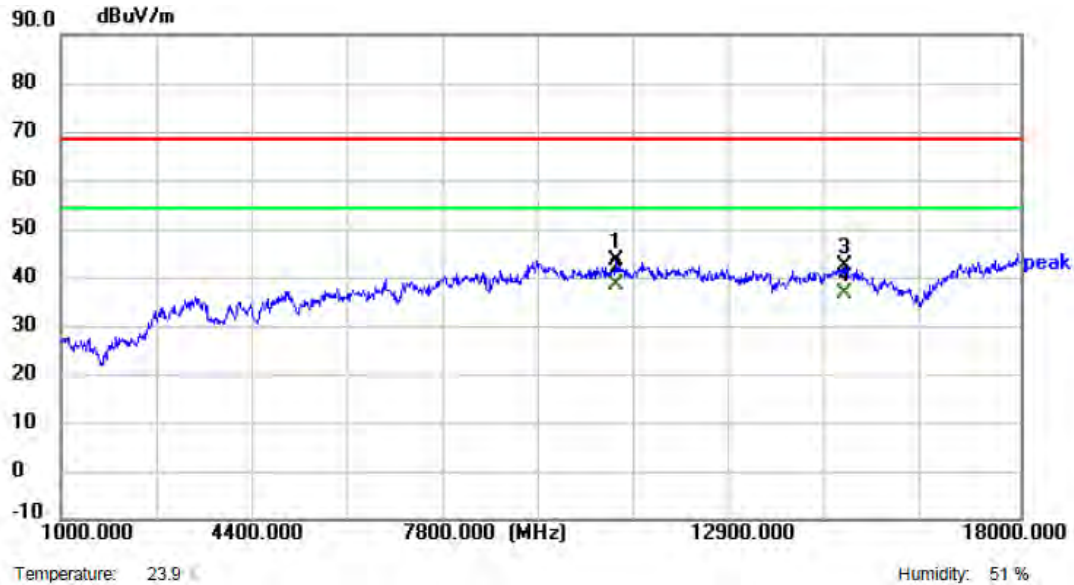
1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)+AMP(dB)
2. Peak/AVG (dBuV/m)= Corr. (dB/m)+ Read Level (dBuV)
3. Margin (dB) = Peak/AVG (dBuV/m)-Limit PK/AVG(dBuV/m)
4. The tests evaluated 1-40GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency or 40GHz. Test with highpass filter (Pass Frequency:8-25G).
5. No report for the emission which more than 20dB below the prescribed limit.
6. The peak value<average limit, So only show the peak value. and 18GHz-40GHz is the noise, No other signals were detected.





Temperature:	23.9°C	Relative Humidity:	51%
Test Voltage:	DC 3.3V		
Test Mode:	TX 802.11ax20 Mode 6415MHz -U-NII-5		

Vertical

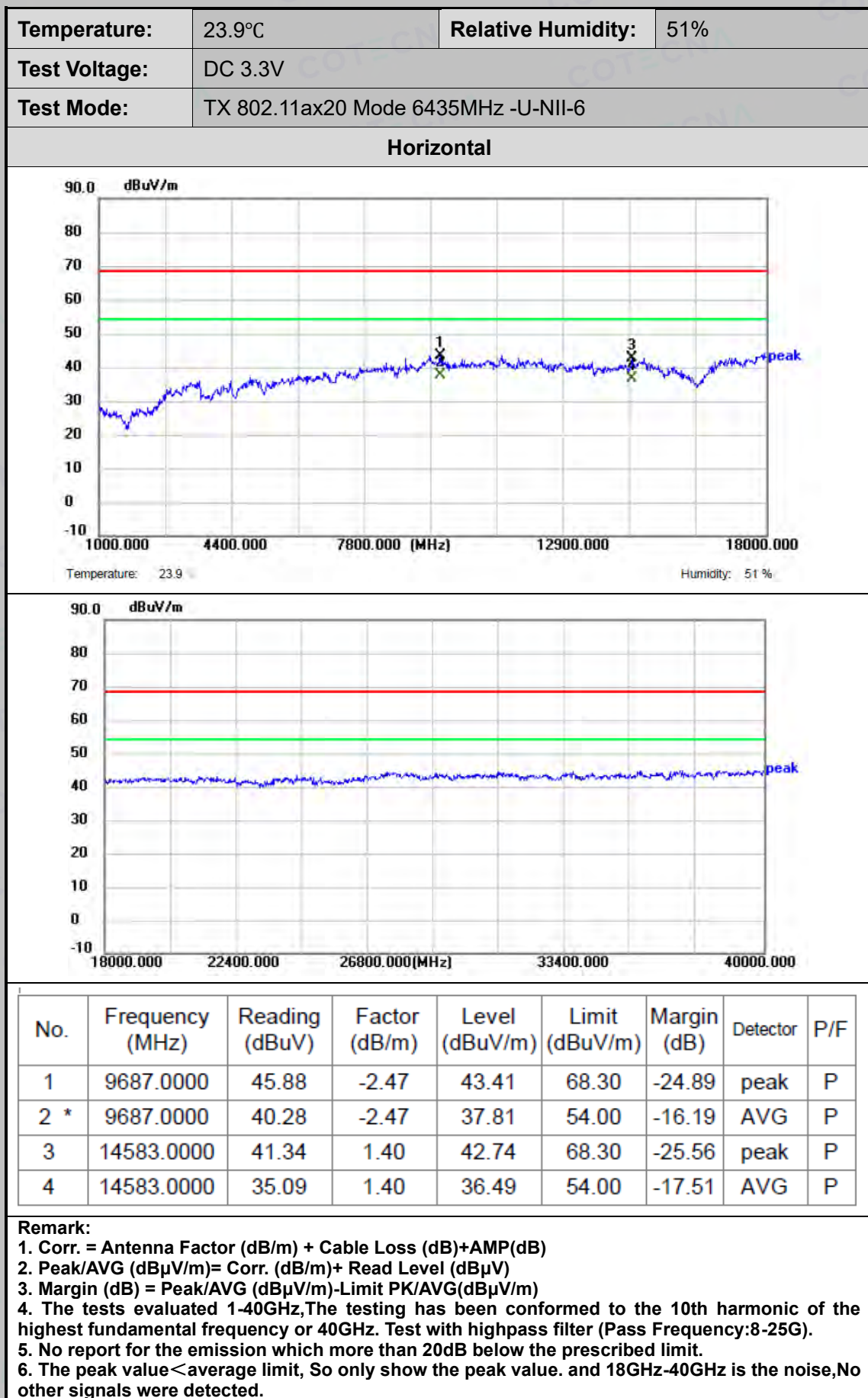


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	10843.0000	44.95	-1.68	43.27	68.30	-25.03	peak	P
2 *	10843.0000	39.96	-1.68	38.28	54.00	-15.72	AVG	P
3	14889.0000	39.56	2.91	42.47	68.30	-25.83	peak	P
4	14889.0000	33.61	2.91	36.52	54.00	-17.48	AVG	P

Remark:

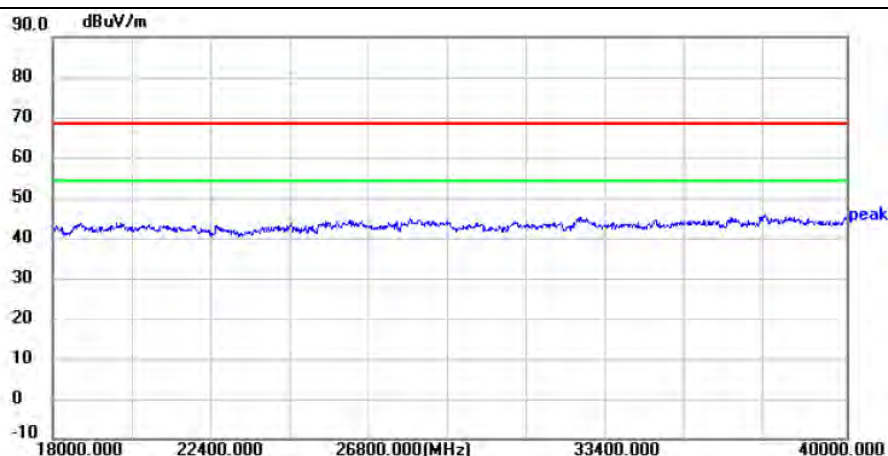
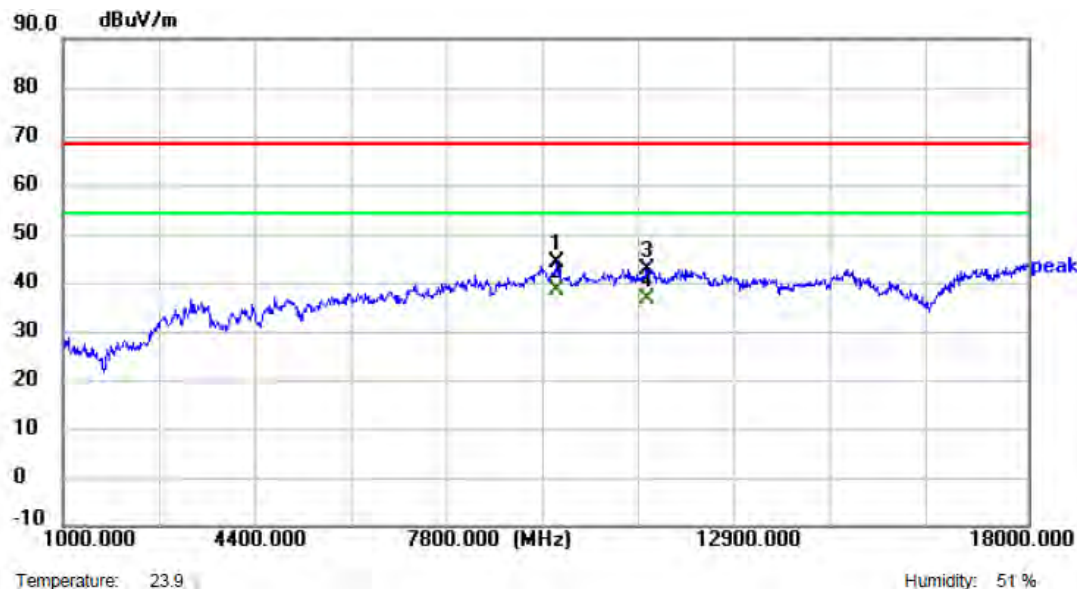
1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)+AMP(dB)
2. Peak/AVG (dBuV/m)= Corr. (dB/m)+ Read Level (dBuV)
3. Margin (dB) = Peak/AVG (dBuV/m)-Limit PK/AVG(dBuV/m)
4. The tests evaluated 1-40GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency or 40GHz. Test with highpass filter (Pass Frequency:8-25G).
5. No report for the emission which more than 20dB below the prescribed limit.
6. The peak value<average limit, So only show the peak value. and 18GHz-40GHz is the noise, No other signals were detected.





Temperature:	23.9°C	Relative Humidity:	51%
Test Voltage:	DC 3.3V		
Test Mode:	TX 802.11ax20 Mode 6435MHz -U-NII-6		

Vertical

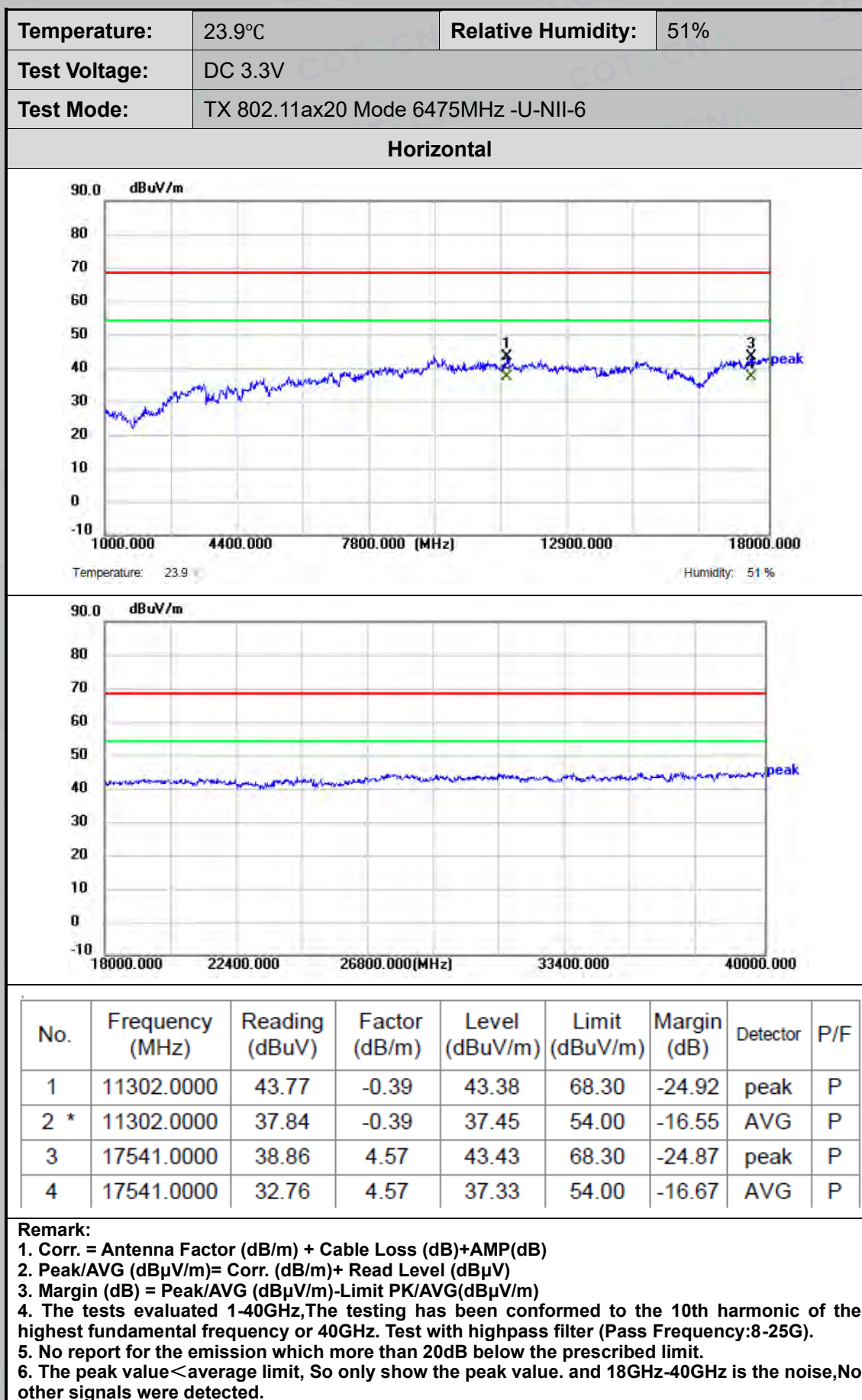


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	9687.0000	46.41	-2.47	43.94	68.30	-24.36	peak	P
2 *	9687.0000	40.81	-2.47	38.34	54.00	-15.66	AVG	P
3	11302.0000	43.06	-0.39	42.67	68.30	-25.63	peak	P
4	11302.0000	36.91	-0.39	36.52	54.00	-17.48	AVG	P

Remark:

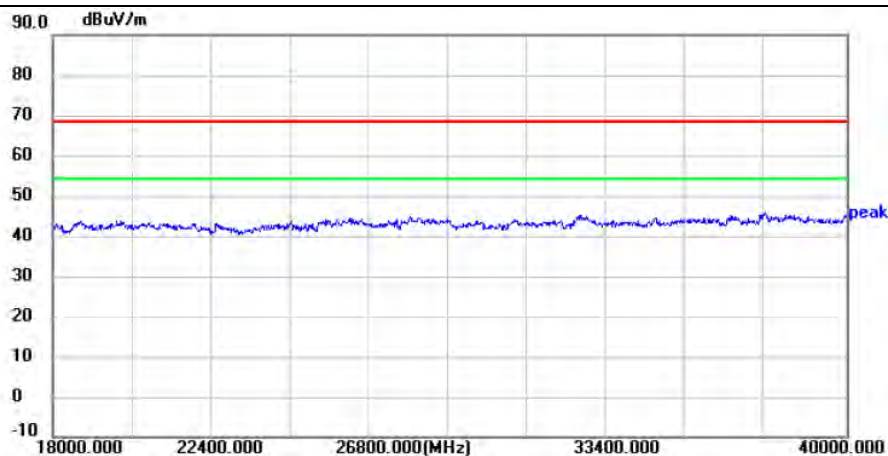
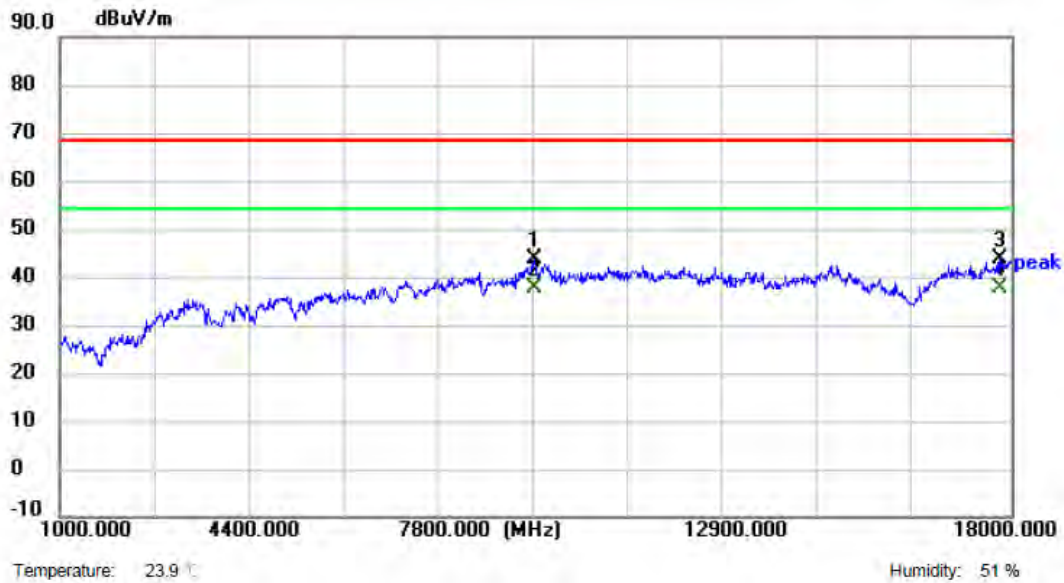
1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)+AMP(dB)
2. Peak/AVG (dBuV/m)= Corr. (dB/m)+ Read Level (dBuV)
3. Margin (dB) = Peak/AVG (dBuV/m)-Limit PK/AVG(dBuV/m)
4. The tests evaluated 1-40GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency or 40GHz. Test with highpass filter (Pass Frequency:8-25G).
5. No report for the emission which more than 20dB below the prescribed limit.
6. The peak value<average limit, So only show the peak value. and 18GHz-40GHz is the noise, No other signals were detected.





Temperature:	23.9°C	Relative Humidity:	51%
Test Voltage:	DC 3.3V		
Test Mode:	TX 802.11ax20 Mode 6475MHz -U-NII-6		

Vertical

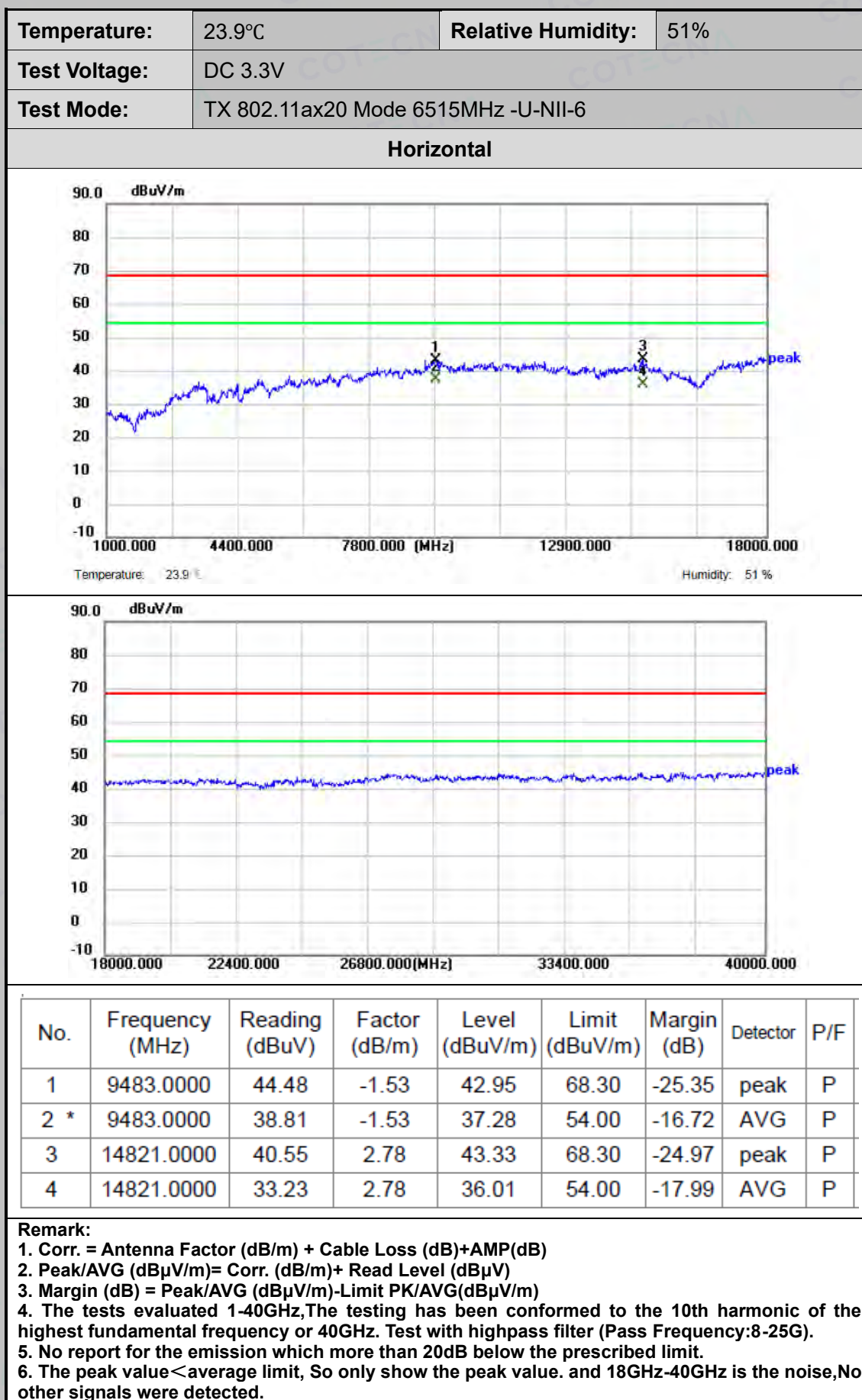


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	9483.0000	45.31	-1.53	43.78	68.30	-24.52	peak	P
2 *	9483.0000	39.37	-1.53	37.84	54.00	-16.16	AVG	P
3	17813.0000	37.32	6.27	43.59	68.30	-24.71	peak	P
4	17813.0000	31.35	6.27	37.62	54.00	-16.38	AVG	P

Remark:

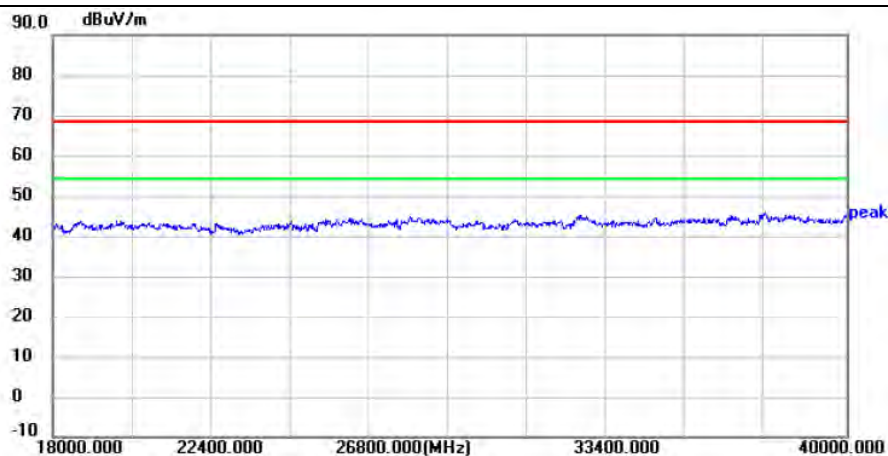
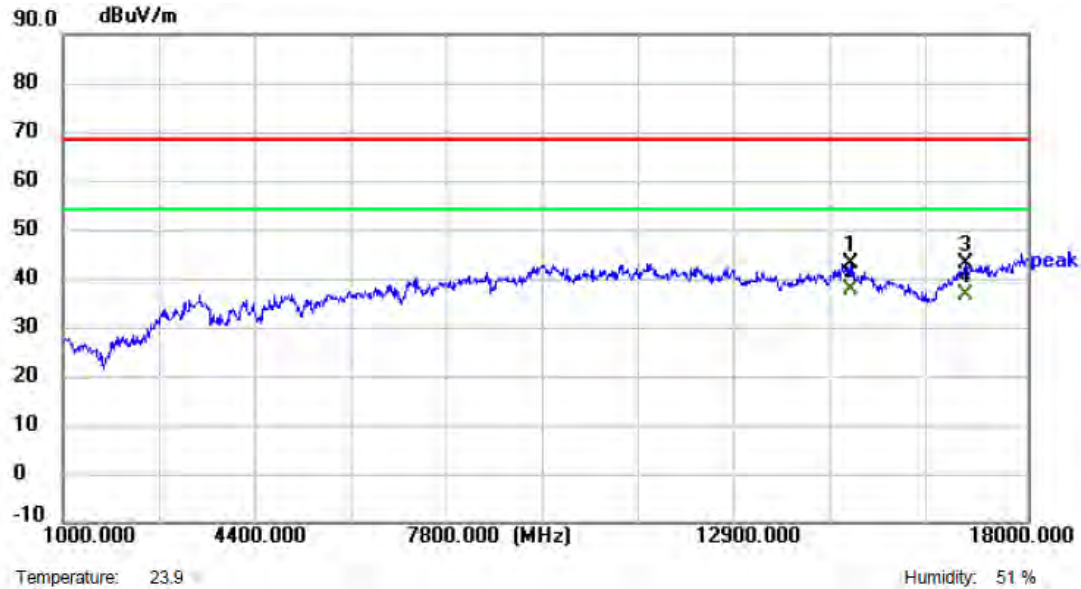
1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)+AMP(dB)
2. Peak/AVG (dBuV/m)= Corr. (dB/m)+ Read Level (dBuV)
3. Margin (dB) = Peak/AVG (dBuV/m)-Limit PK/AVG(dBuV/m)
4. The tests evaluated 1-40GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency or 40GHz. Test with highpass filter (Pass Frequency:8-25G).
5. No report for the emission which more than 20dB below the prescribed limit.
6. The peak value<average limit, So only show the peak value. and 18GHz-40GHz is the noise, No other signals were detected.





Temperature:	23.9°C	Relative Humidity:	51%
Test Voltage:	DC 3.3V		
Test Mode:	TX 802.11ax20 Mode 6515MHz -U-NII-6		

Vertical

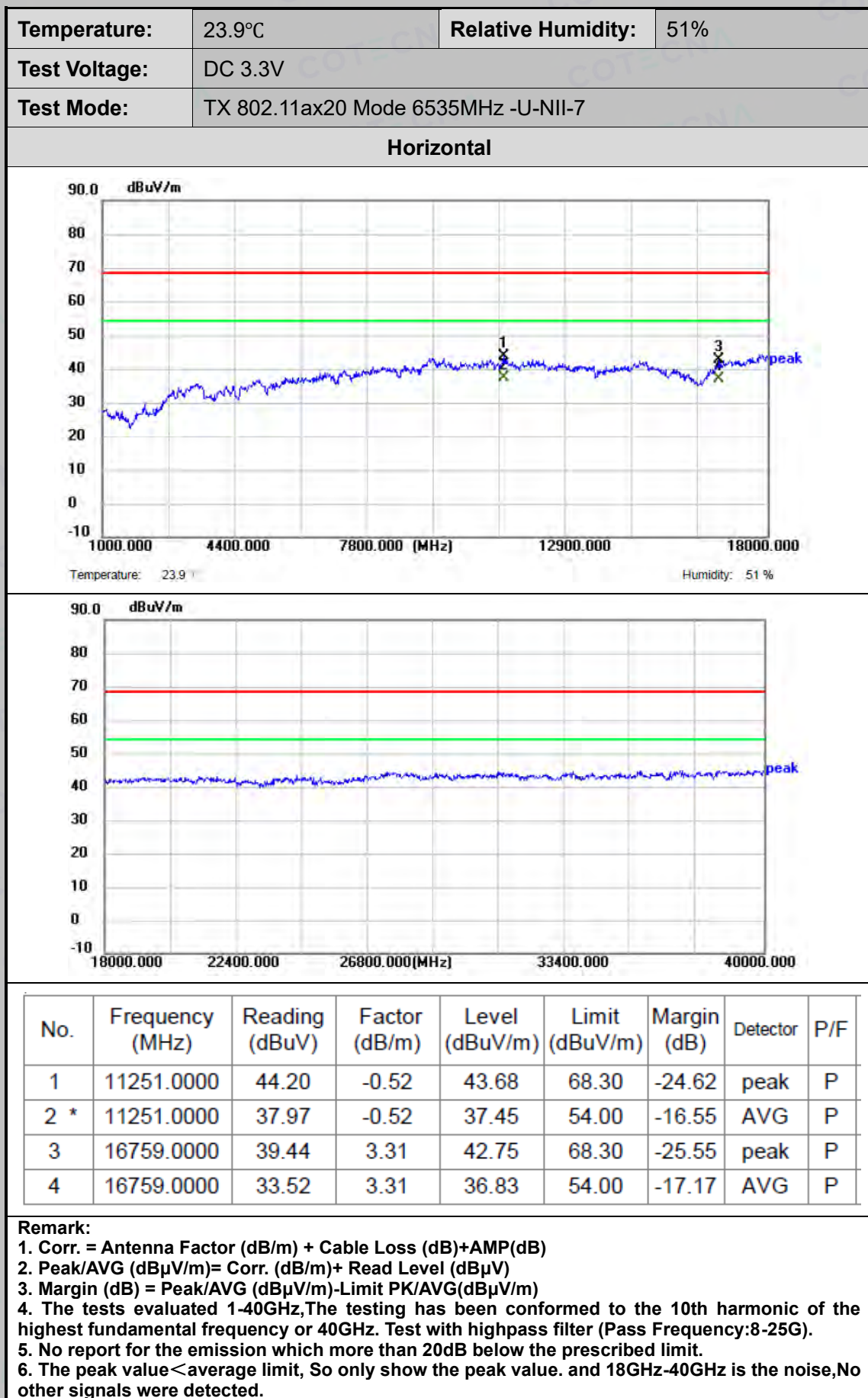


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	14872.0000	40.33	2.88	43.21	68.30	-25.09	peak	P
2 *	14872.0000	34.76	2.88	37.64	54.00	-16.36	AVG	P
3	16912.0000	39.65	3.52	43.17	68.30	-25.13	peak	P
4	16912.0000	33.01	3.52	36.53	54.00	-17.47	AVG	P

Remark:

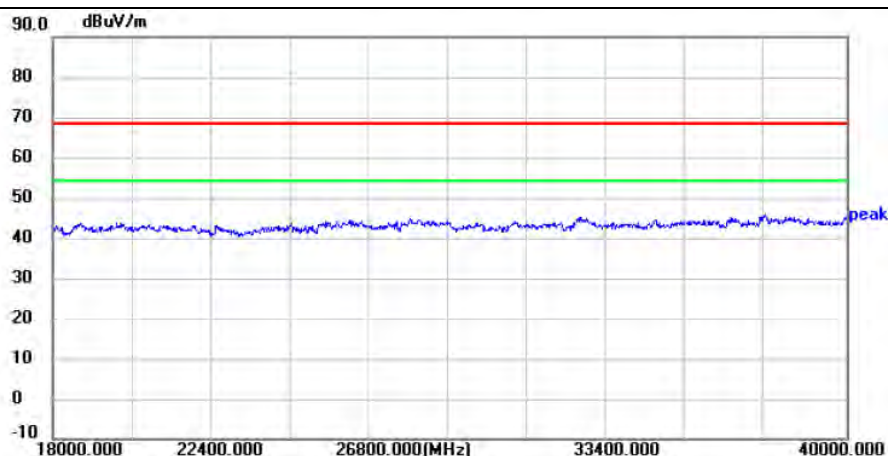
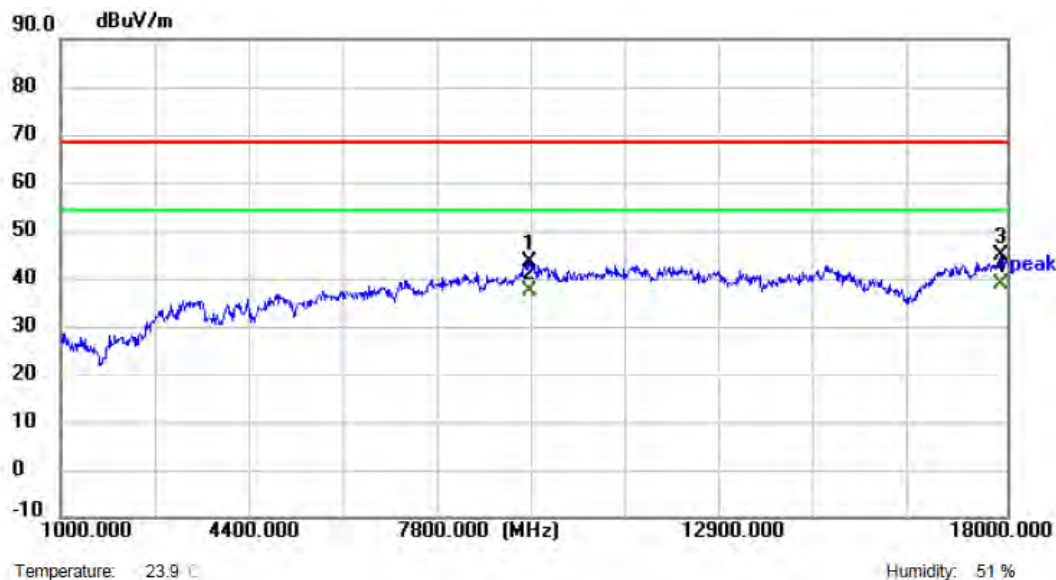
1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)+AMP(dB)
2. Peak/AVG (dBuV/m)= Corr. (dB/m)+ Read Level (dBuV)
3. Margin (dB) = Peak/AVG (dBuV/m)-Limit PK/AVG(dBuV/m)
4. The tests evaluated 1-40GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency or 40GHz. Test with highpass filter (Pass Frequency:8-25G).
5. No report for the emission which more than 20dB below the prescribed limit.
6. The peak value<average limit, So only show the peak value. and 18GHz-40GHz is the noise, No other signals were detected.





Temperature:	23.9°C	Relative Humidity:	51%
Test Voltage:	DC 3.3V		
Test Mode:	TX 802.11ax20 Mode 6535MHz -U-NII-7		

Vertical

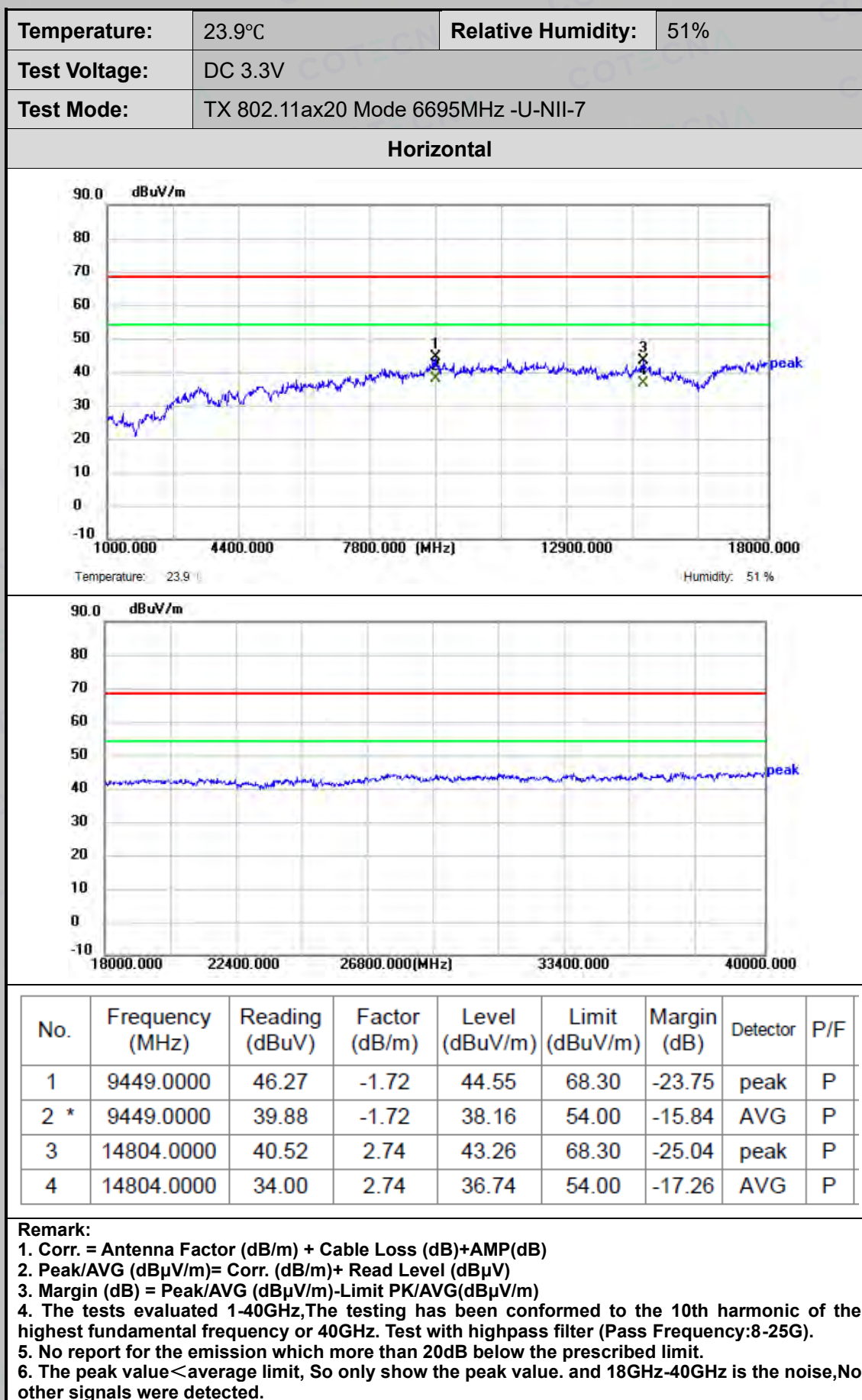


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	9415.0000	45.60	-2.30	43.30	68.30	-25.00	peak	P
2	9415.0000	39.55	-2.30	37.25	54.00	-16.75	AVG	P
3	17898.0000	38.92	6.06	44.98	68.30	-23.32	peak	P
4 *	17898.0000	32.84	6.06	38.90	54.00	-15.10	AVG	P

Remark:

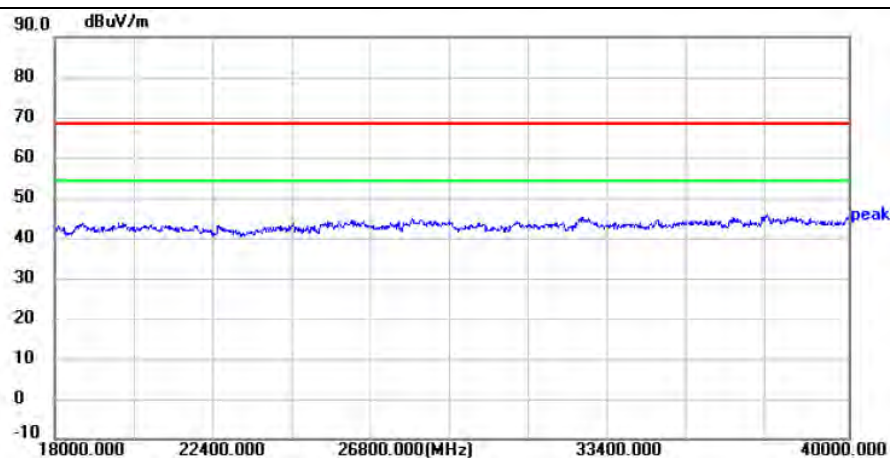
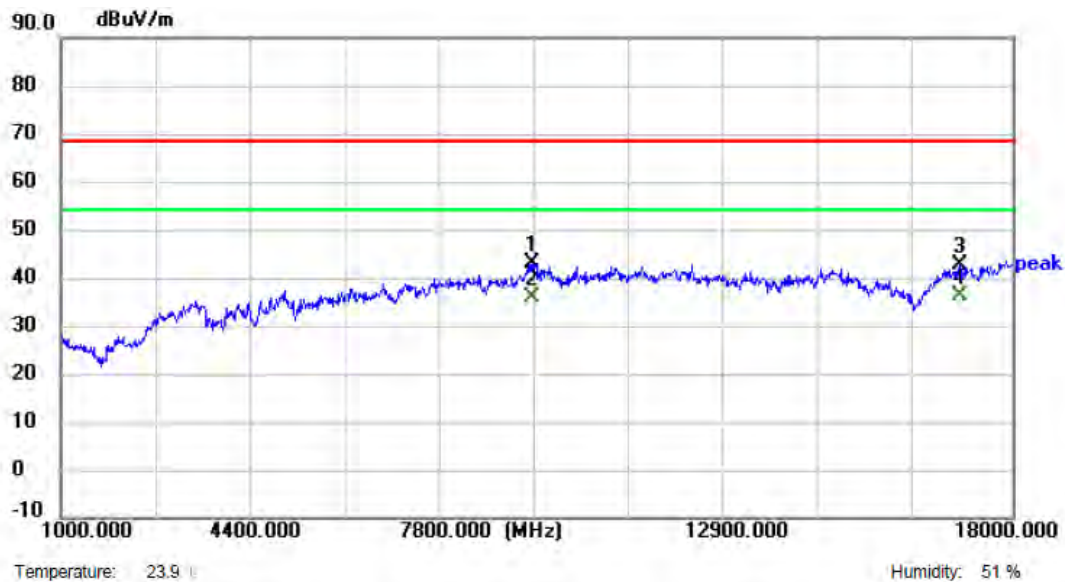
1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)+AMP(dB)
2. Peak/AVG (dBuV/m)= Corr. (dB/m)+ Read Level (dBuV)
3. Margin (dB) = Peak/AVG (dBuV/m)-Limit PK/AVG(dBuV/m)
4. The tests evaluated 1-40GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency or 40GHz. Test with highpass filter (Pass Frequency:8-25G).
5. No report for the emission which more than 20dB below the prescribed limit.
6. The peak value<average limit, So only show the peak value. and 18GHz-40GHz is the noise, No other signals were detected.





Temperature:	23.9°C	Relative Humidity:	51%
Test Voltage:	DC 3.3V		
Test Mode:	TX 802.11ax20 Mode 6695MHz -U-NII-7		

Vertical

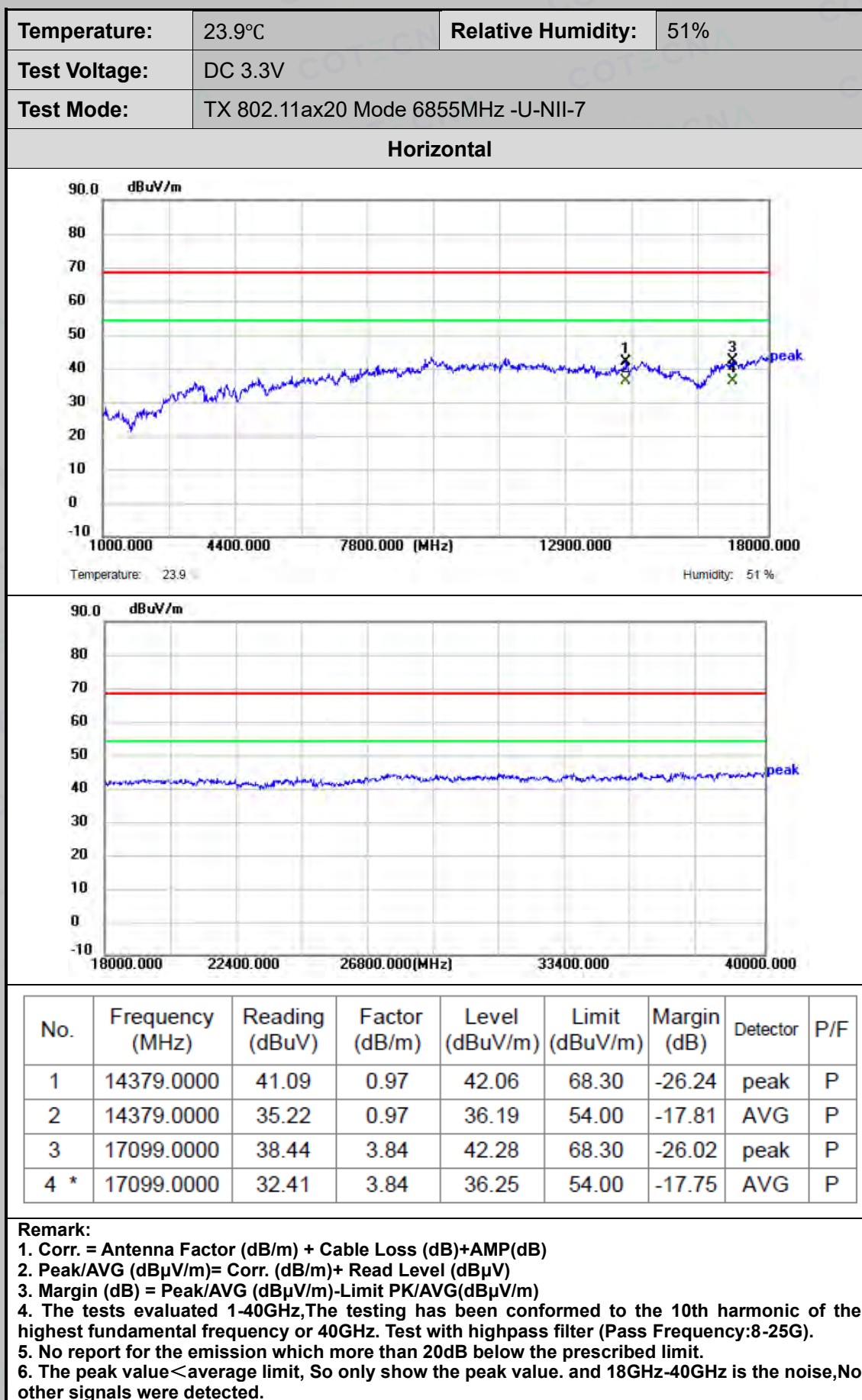


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	9432.0000	44.92	-2.01	42.91	68.30	-25.39	peak	P
2	9432.0000	38.06	-2.01	36.05	54.00	-17.95	AVG	P
3	17065.0000	38.84	3.69	42.53	68.30	-25.77	peak	P
4 *	17065.0000	32.49	3.69	36.18	54.00	-17.82	AVG	P

Remark:

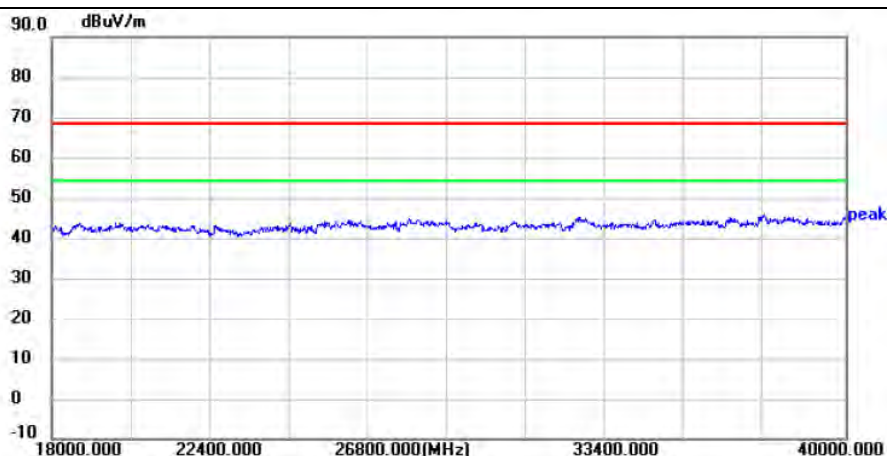
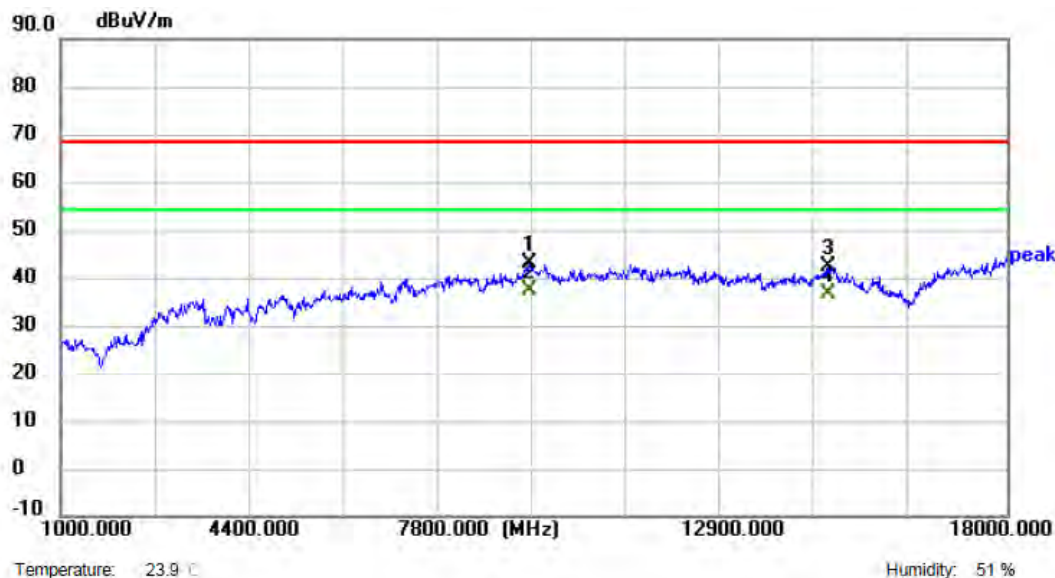
1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)+AMP(dB)
2. Peak/AVG (dBuV/m)= Corr. (dB/m)+ Read Level (dBuV)
3. Margin (dB) = Peak/AVG (dBuV/m)-Limit PK/AVG(dBuV/m)
4. The tests evaluated 1-40GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency or 40GHz. Test with highpass filter (Pass Frequency:8-25G).
5. No report for the emission which more than 20dB below the prescribed limit.
6. The peak value<average limit, So only show the peak value. and 18GHz-40GHz is the noise, No other signals were detected.





Temperature:	23.9°C	Relative Humidity:	51%
Test Voltage:	DC 3.3V		
Test Mode:	TX 802.11ax20 Mode 6855MHz -U-NII-7		

Vertical

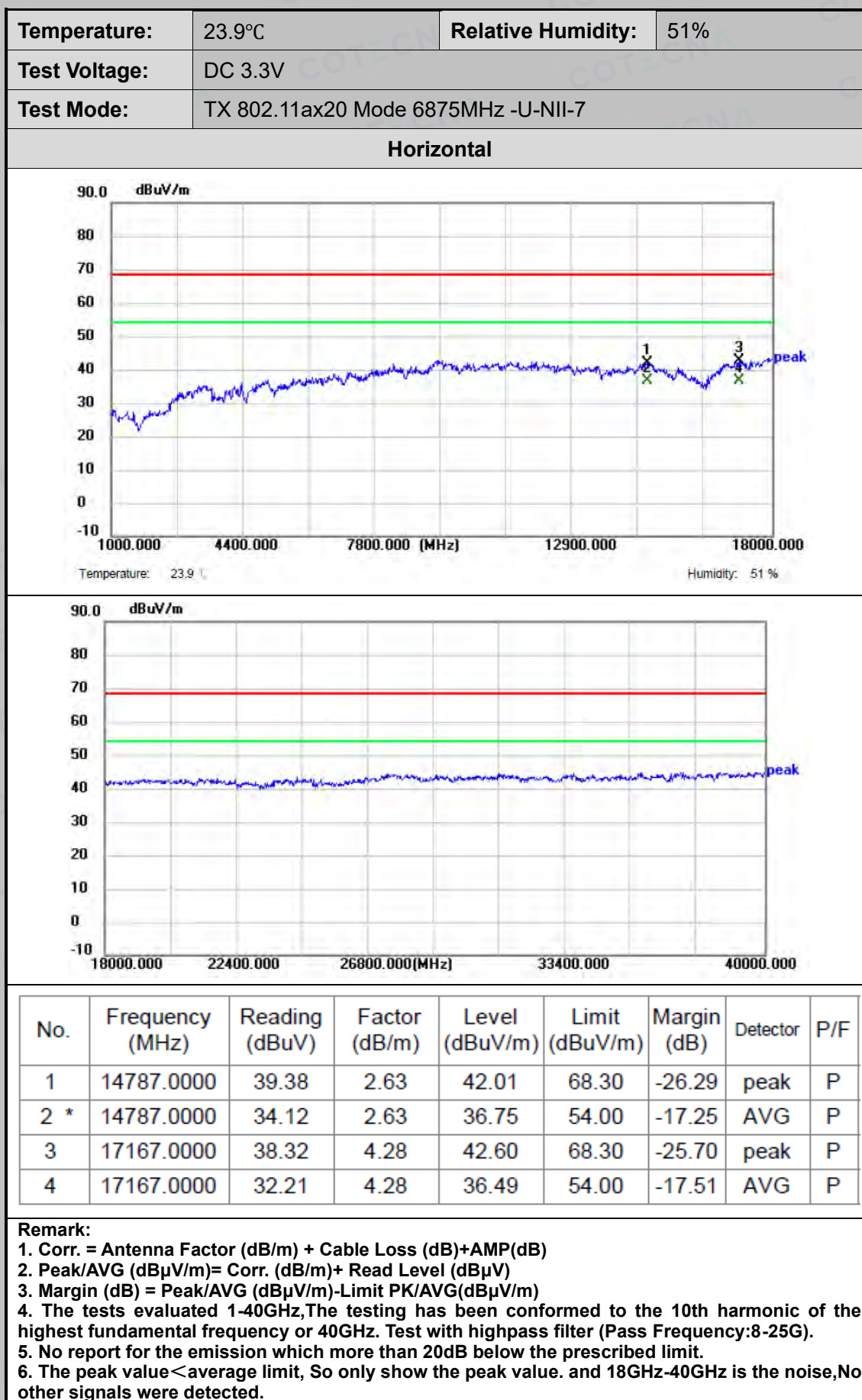


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	9415.0000	45.28	-2.30	42.98	68.30	-25.32	peak	P
2 *	9415.0000	39.57	-2.30	37.27	54.00	-16.73	AVG	P
3	14787.0000	39.64	2.63	42.27	68.30	-26.03	peak	P
4	14787.0000	33.80	2.63	36.43	54.00	-17.57	AVG	P

Remark:

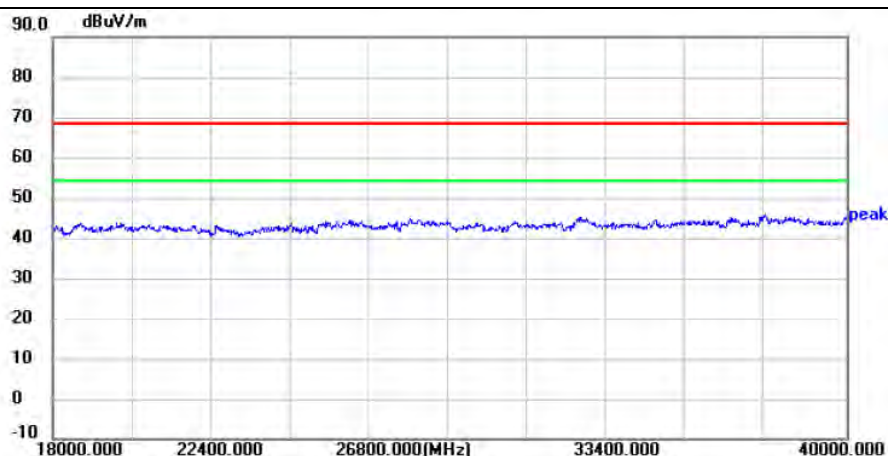
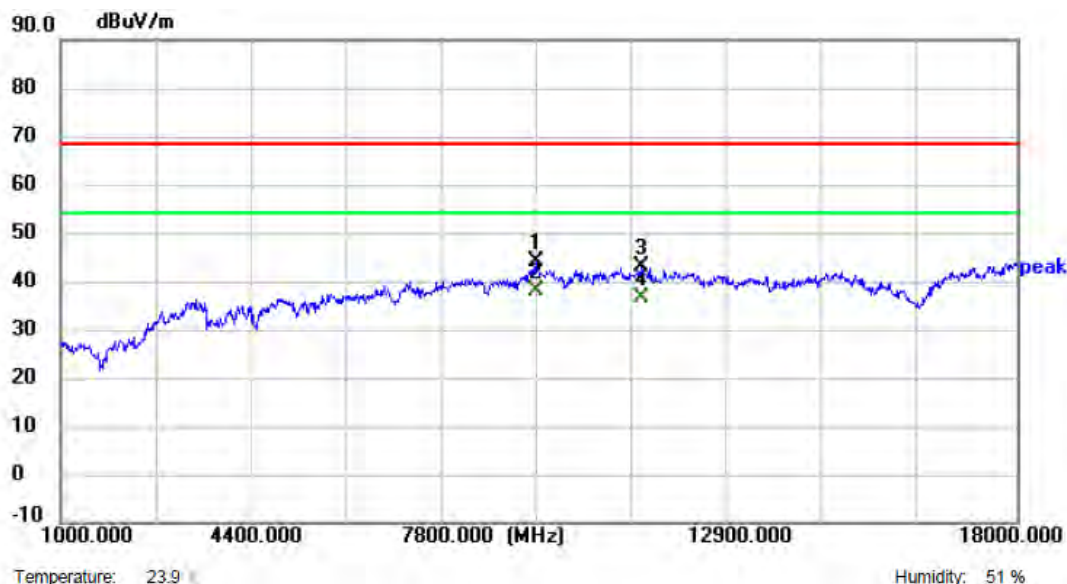
1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)+AMP(dB)
2. Peak/AVG (dBuV/m)= Corr. (dB/m)+ Read Level (dBuV)
3. Margin (dB) = Peak/AVG (dBuV/m)-Limit PK/AVG(dBuV/m)
4. The tests evaluated 1-40GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency or 40GHz. Test with highpass filter (Pass Frequency:8-25G).
5. No report for the emission which more than 20dB below the prescribed limit.
6. The peak value<average limit, So only show the peak value. and 18GHz-40GHz is the noise, No other signals were detected.





Temperature:	23.9°C	Relative Humidity:	51%
Test Voltage:	DC 3.3V		
Test Mode:	TX 802.11ax20 Mode 6875MHz -U-NII-7		

Vertical

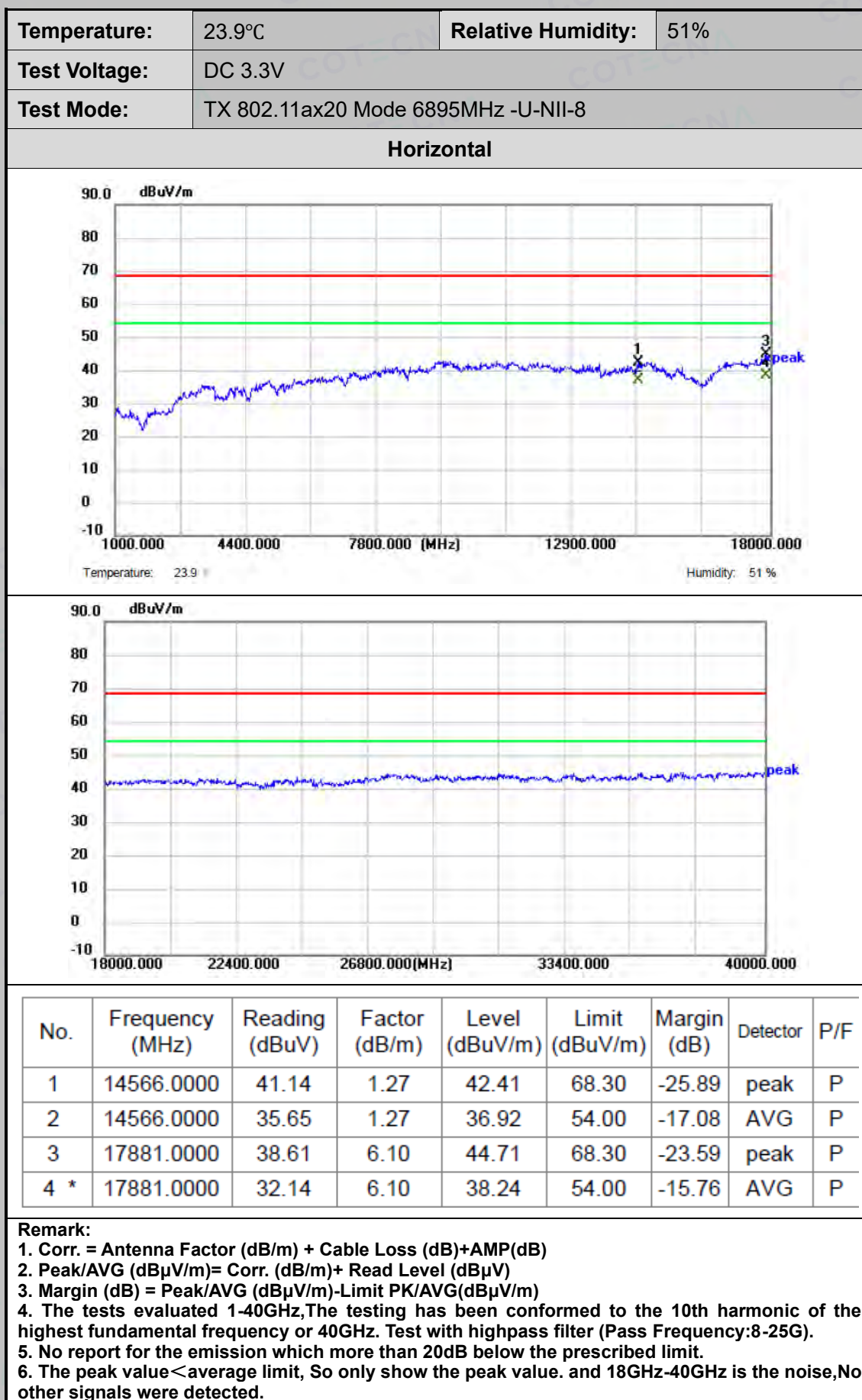


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	9449.0000	45.71	-1.72	43.99	68.30	-24.31	peak	P
2 *	9449.0000	39.90	-1.72	38.18	54.00	-15.82	AVG	P
3	11336.0000	43.23	-0.33	42.90	68.30	-25.40	peak	P
4	11336.0000	37.09	-0.33	36.76	54.00	-17.24	AVG	P

Remark:

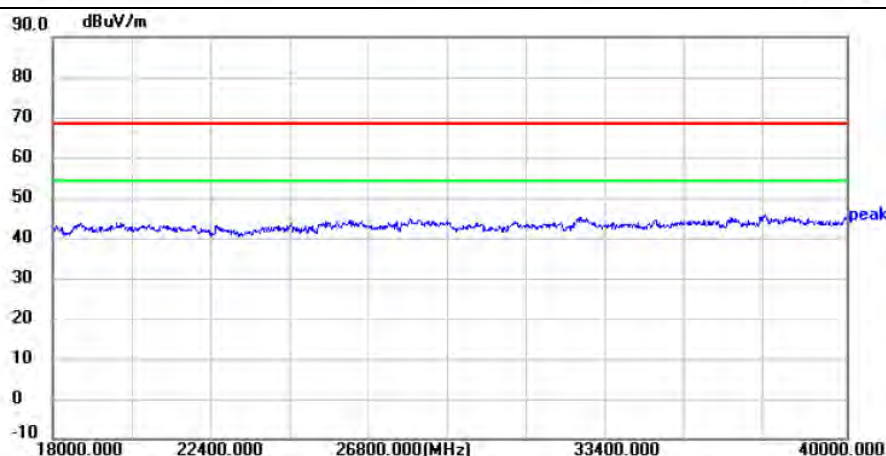
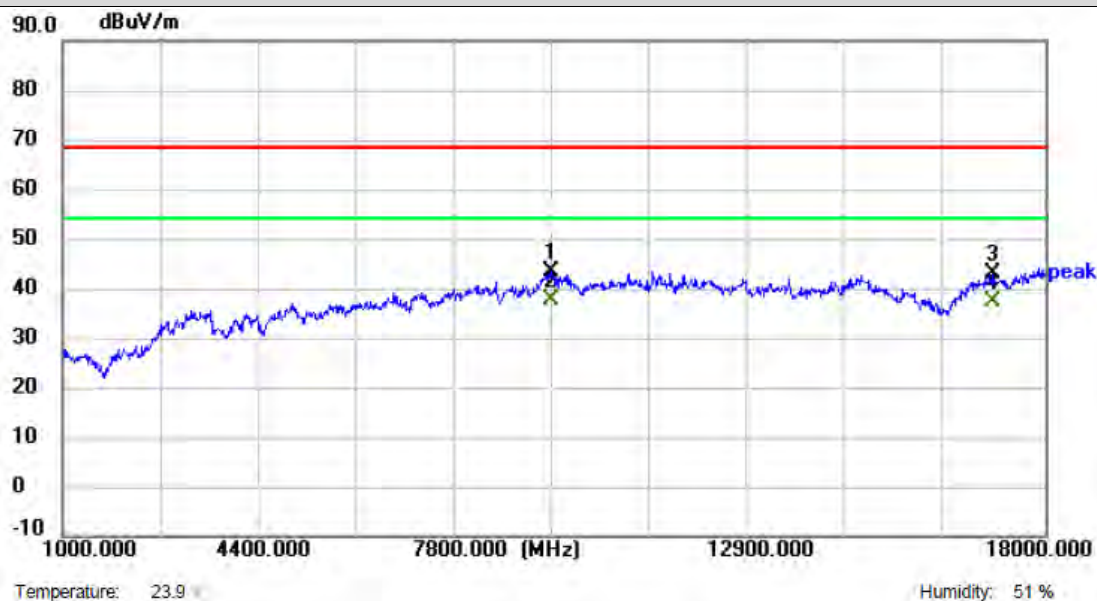
1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)+AMP(dB)
2. Peak/AVG (dBuV/m)= Corr. (dB/m)+ Read Level (dBuV)
3. Margin (dB) = Peak/AVG (dBuV/m)-Limit PK/AVG(dBuV/m)
4. The tests evaluated 1-40GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency or 40GHz. Test with highpass filter (Pass Frequency:8-25G).
5. No report for the emission which more than 20dB below the prescribed limit.
6. The peak value<average limit, So only show the peak value. and 18GHz-40GHz is the noise,No other signals were detected.





Temperature:	23.9°C	Relative Humidity:	51%
Test Voltage:	DC 3.3V		
Test Mode:	TX 802.11ax20 Mode 6895MHz -U-NII-8		

Vertical

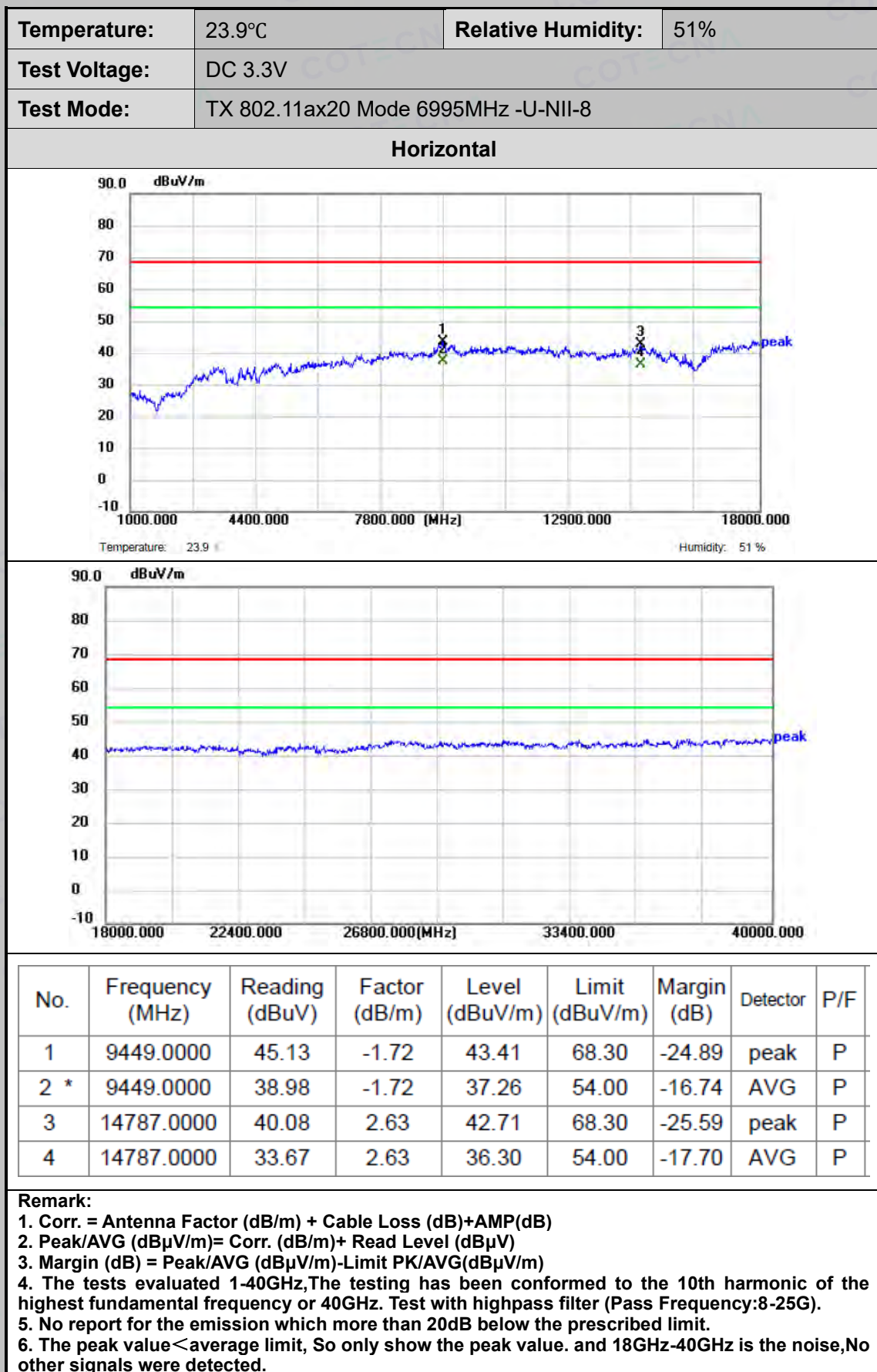


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	9449.0000	44.99	-1.72	43.27	68.30	-25.03	peak	P
2 *	9449.0000	39.56	-1.72	37.84	54.00	-16.16	AVG	P
3	17082.0000	39.20	3.76	42.96	68.30	-25.34	peak	P
4	17082.0000	33.62	3.76	37.38	54.00	-16.62	AVG	P

Remark:

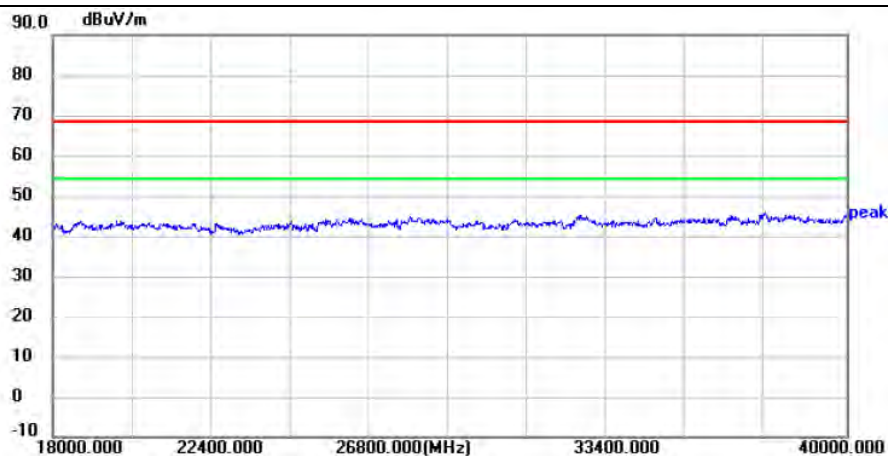
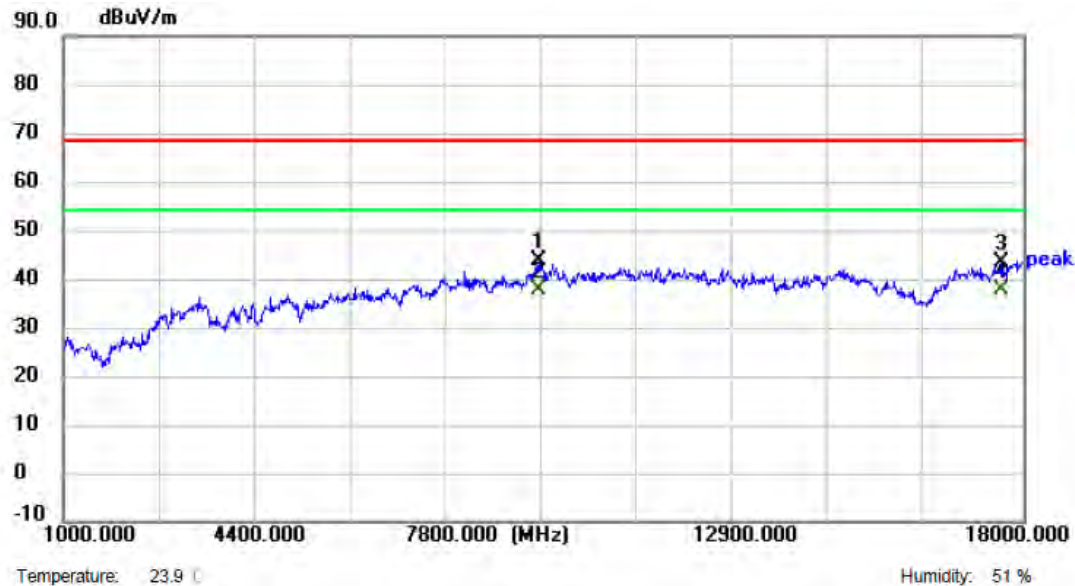
1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)+AMP(dB)
2. Peak/AVG (dBuV/m)= Corr. (dB/m)+ Read Level (dBuV)
3. Margin (dB) = Peak/AVG (dBuV/m)-Limit PK/AVG(dBuV/m)
4. The tests evaluated 1-40GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency or 40GHz. Test with highpass filter (Pass Frequency:8-25G).
5. No report for the emission which more than 20dB below the prescribed limit.
6. The peak value<average limit, So only show the peak value. and 18GHz-40GHz is the noise, No other signals were detected.





Temperature:	23.9°C	Relative Humidity:	51%
Test Voltage:	DC 3.3V		
Test Mode:	TX 802.11ax20 Mode 6995MHz -U-NII-8		

Vertical

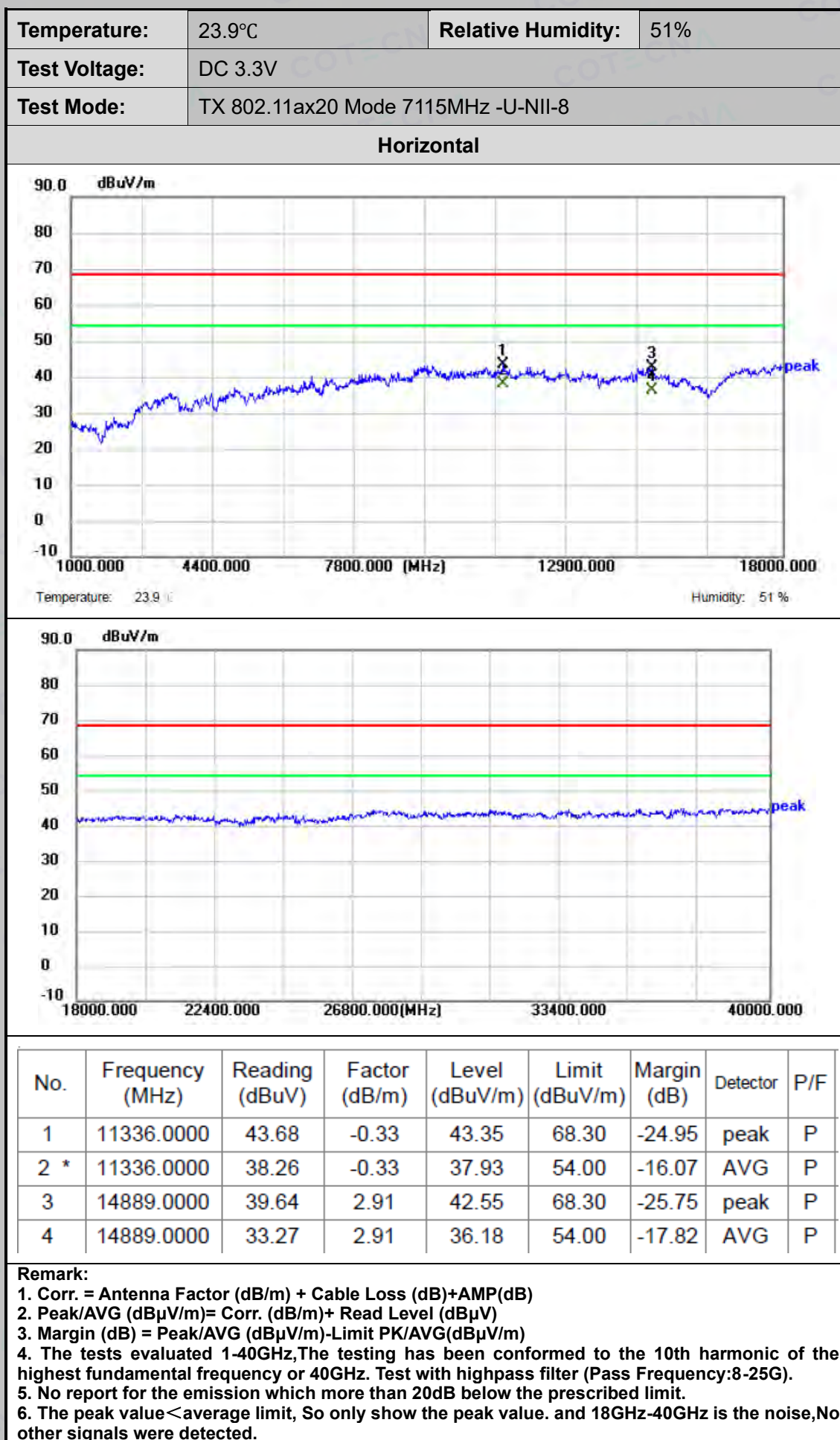


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	9415.0000	45.92	-2.30	43.62	68.30	-24.68	peak	P
2 *	9415.0000	40.12	-2.30	37.82	54.00	-16.18	AVG	P
3	17626.0000	38.76	4.71	43.47	68.30	-24.83	peak	P
4	17626.0000	32.87	4.71	37.58	54.00	-16.42	AVG	P

Remark:

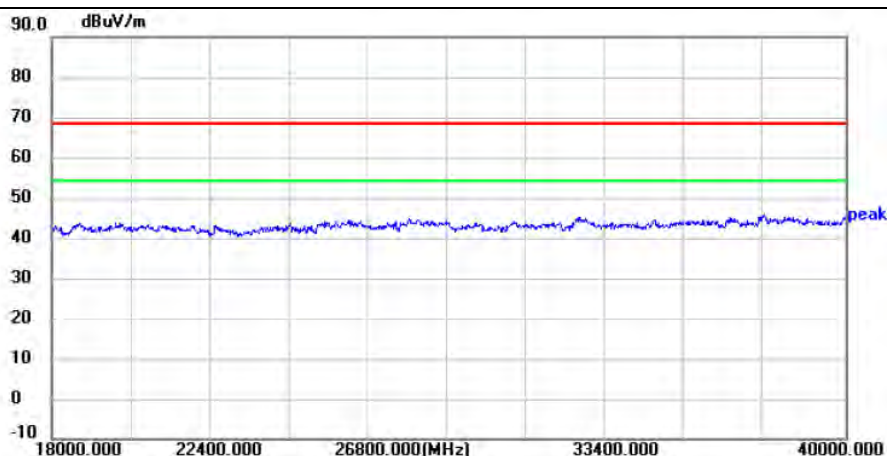
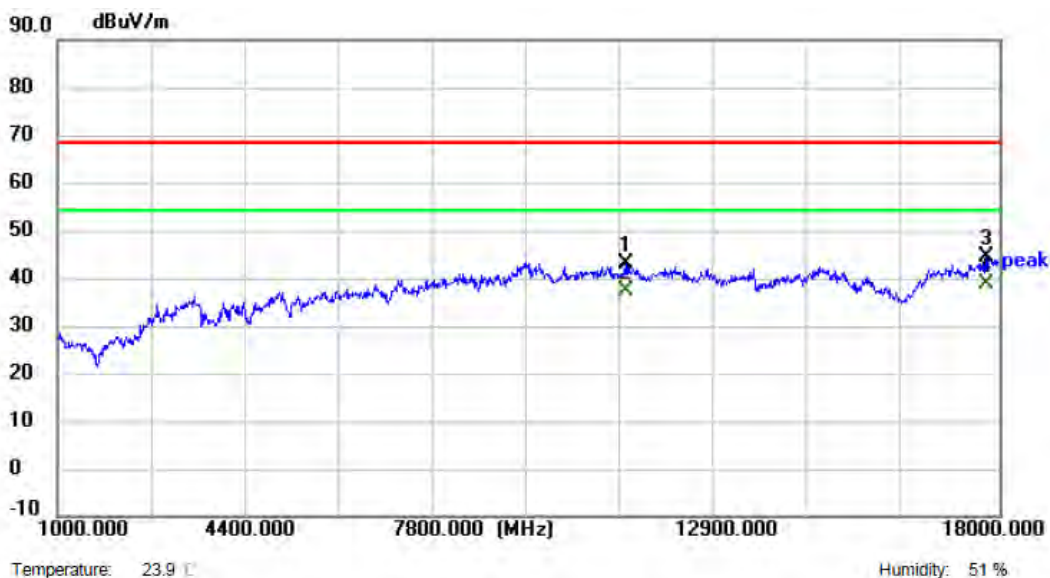
1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)+AMP(dB)
2. Peak/AVG (dBuV/m)= Corr. (dB/m)+ Read Level (dBuV)
3. Margin (dB) = Peak/AVG (dBuV/m)-Limit PK/AVG(dBuV/m)
4. The tests evaluated 1-40GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency or 40GHz. Test with highpass filter (Pass Frequency:8-25G).
5. No report for the emission which more than 20dB below the prescribed limit.
6. The peak value<average limit, So only show the peak value. and 18GHz-40GHz is the noise, No other signals were detected.





Temperature:	23.9°C	Relative Humidity:	51%
Test Voltage:	DC 3.3V		
Test Mode:	TX 802.11ax20 Mode 7115MHz -U-NII-8		

Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	11251.0000	43.53	-0.52	43.01	68.30	-25.29	peak	P
2	11251.0000	37.77	-0.52	37.25	54.00	-16.75	AVG	P
3	17779.0000	38.33	6.04	44.37	68.30	-23.93	peak	P
4 *	17779.0000	32.56	6.04	38.60	54.00	-15.40	AVG	P

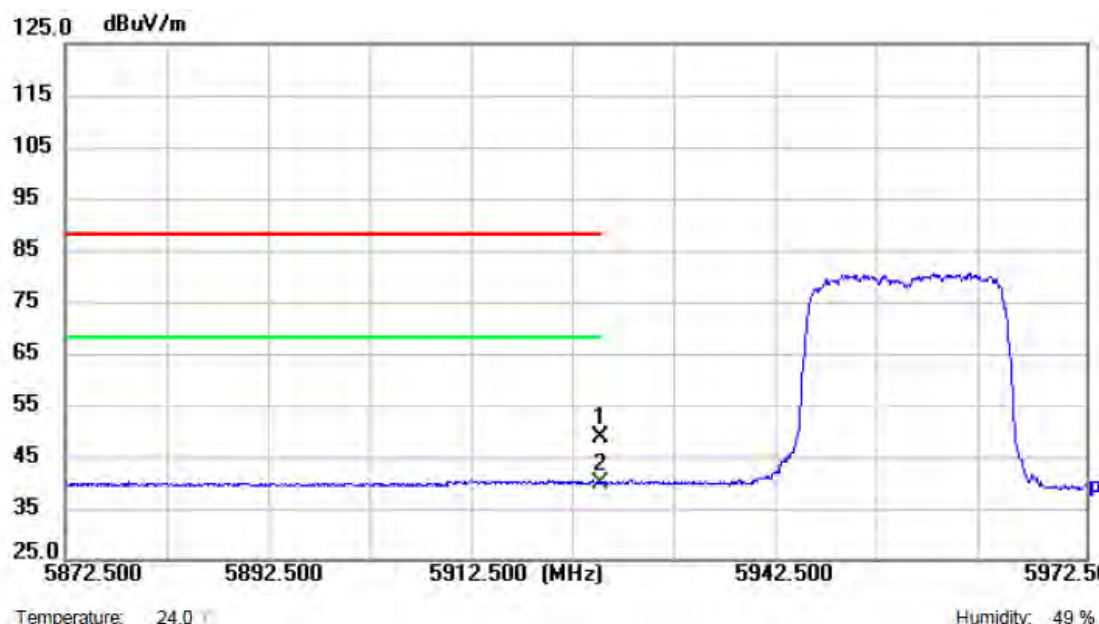
Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)+AMP(dB)
2. Peak/AVG (dBuV/m)= Corr. (dB/m)+ Read Level (dBuV)
3. Margin (dB) = Peak/AVG (dBuV/m)-Limit PK/AVG(dBuV/m)
4. The tests evaluated 1-40GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency or 40GHz. Test with highpass filter (Pass Frequency:8-25G).
5. No report for the emission which more than 20dB below the prescribed limit.
6. The peak value<average limit, So only show the peak value. and 18GHz-40GHz is the noise, No other signals were detected.



Attachment C--Restricted Bands Requirement Data

Test Voltage:	AC 120V/60Hz
Ant. Pol.	Horizontal
Test Mode:	TX 802.11ax(HE20) Mode 5955 MHz (U-NII-5)
Remark:	



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5925.0000	49.16	-0.47	48.69	88.20	-39.51	peak	P
2 *	5925.0000	40.28	-0.47	39.81	68.20	-28.39	AVG	P

Remark:

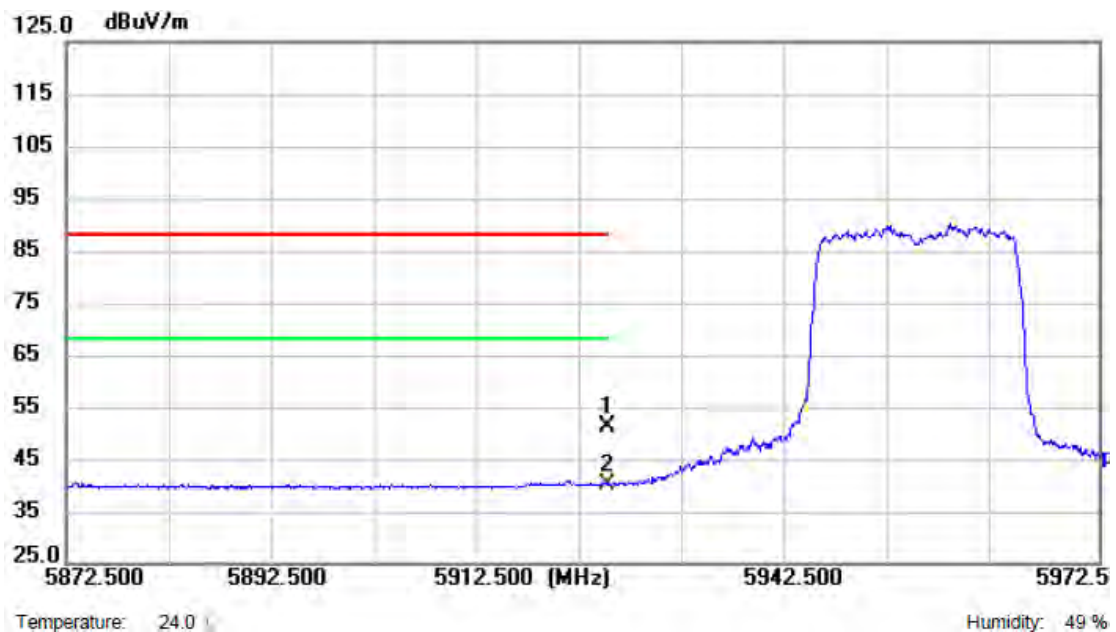
1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)+AMP(dB)

2. Peak/AVG (dBuV/m)= Corr. (dB/m)+ Read Level (dBuV)

3. Margin (dB) = Peak/AVG (dBuV/m)-Limit PK/AVG(dBuV/m)



Test Voltage:	AC 120V/60Hz
Ant. Pol.	Vertical
Test Mode:	TX 802.11ax(HE20) Mode 5955 MHz (U-NII-5)
Remark:	



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5925.0000	51.74	-0.47	51.27	88.20	-36.93	peak	P
2 *	5925.0000	40.76	-0.47	40.29	68.20	-27.91	AVG	P

Remark:

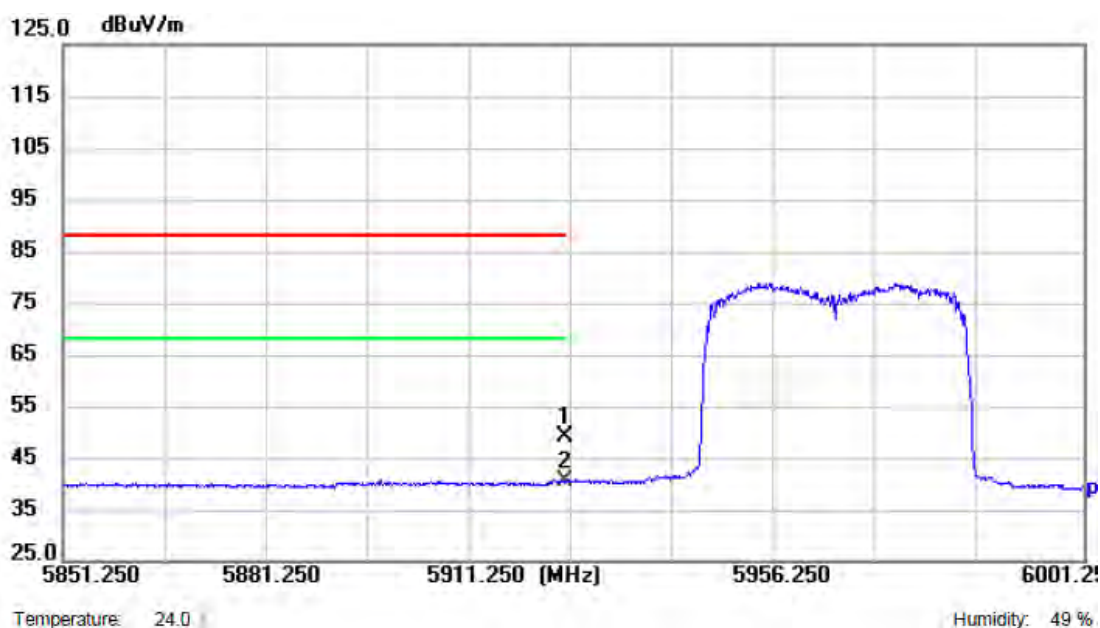
1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)+AMP(dB)

2. Peak/AVG (dBuV/m)= Corr. (dB/m)+ Read Level (dBuV)

3. Margin (dB) = Peak/AVG (dBuV/m)-Limit PK/AVG(dBuV/m)



Test Voltage:	AC 120V/60Hz
Ant. Pol.	Horizontal
Test Mode:	TX 802.11ax(HE40) Mode 5965 MHz (U-NII-5)
Remark:	



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5925.0000	49.67	-0.47	49.20	88.20	-39.00	peak	P
2 *	5925.0000	40.85	-0.47	40.38	68.20	-27.82	AVG	P

Remark:

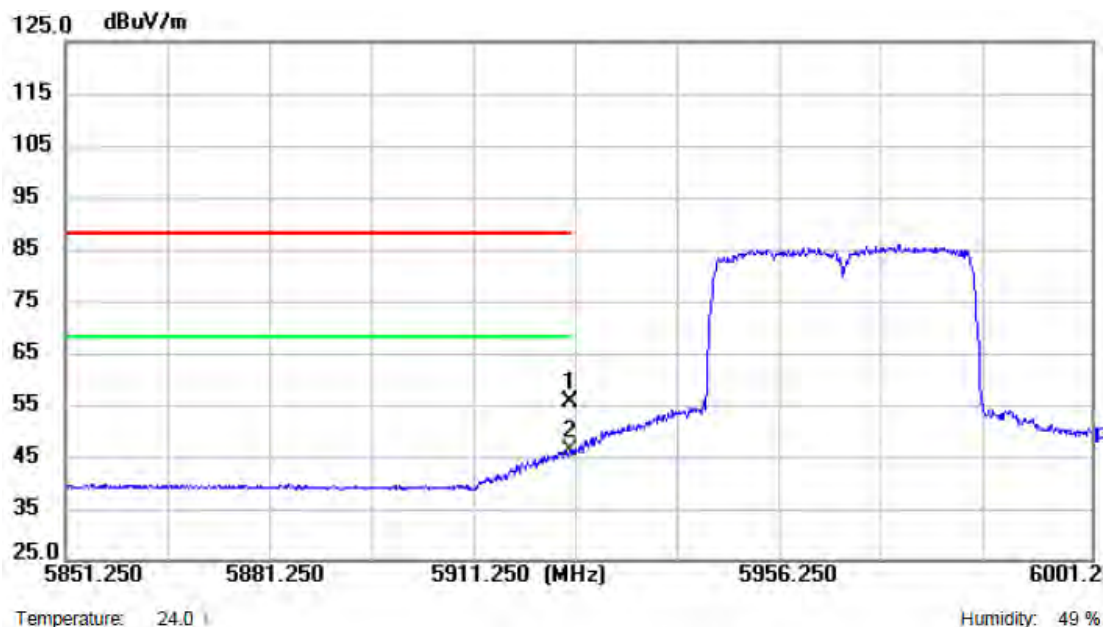
1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)+AMP(dB)

2. Peak/AVG (dBuV/m)= Corr. (dB/m)+ Read Level (dBuV)

3. Margin (dB) = Peak/AVG (dBuV/m)-Limit PK/AVG(dBuV/m)



Test Voltage:	AC 120V/60Hz
Ant. Pol.	Vertical
Test Mode:	TX 802.11ax(HE40) Mode 5965 MHz (U-NII-5)
Remark:	



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5925.0000	55.88	-0.47	55.41	88.20	-32.79	peak	P
2 *	5925.0000	46.73	-0.47	46.26	68.20	-21.94	AVG	P

Remark:

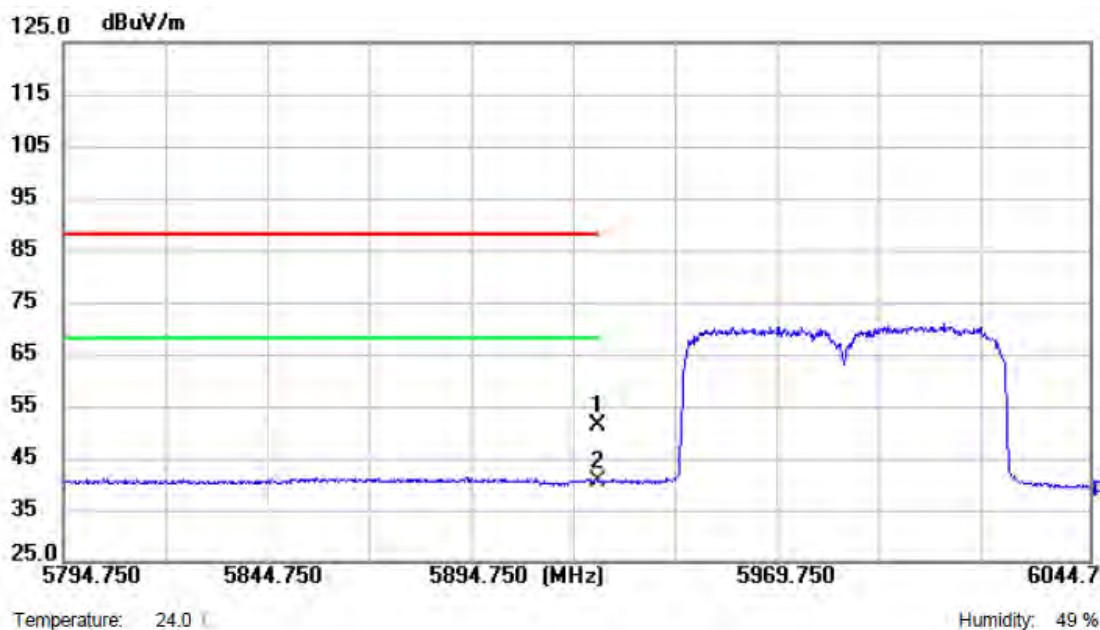
1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)+AMP(dB)

2. Peak/AVG (dBuV/m)= Corr. (dB/m)+ Read Level (dBuV)

3. Margin (dB) = Peak/AVG (dBuV/m)-Limit PK/AVG(dBuV/m)



Temperature:	23.2°C	Relative Humidity:	51%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX 802.11ax(HE80) Mode 5985 MHz (U-NII-5)		
Remark:			



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5925.0000	51.88	-0.47	51.41	88.20	-36.79	peak	P
2 *	5925.0000	41.17	-0.47	40.70	68.20	-27.50	AVG	P

Remark:

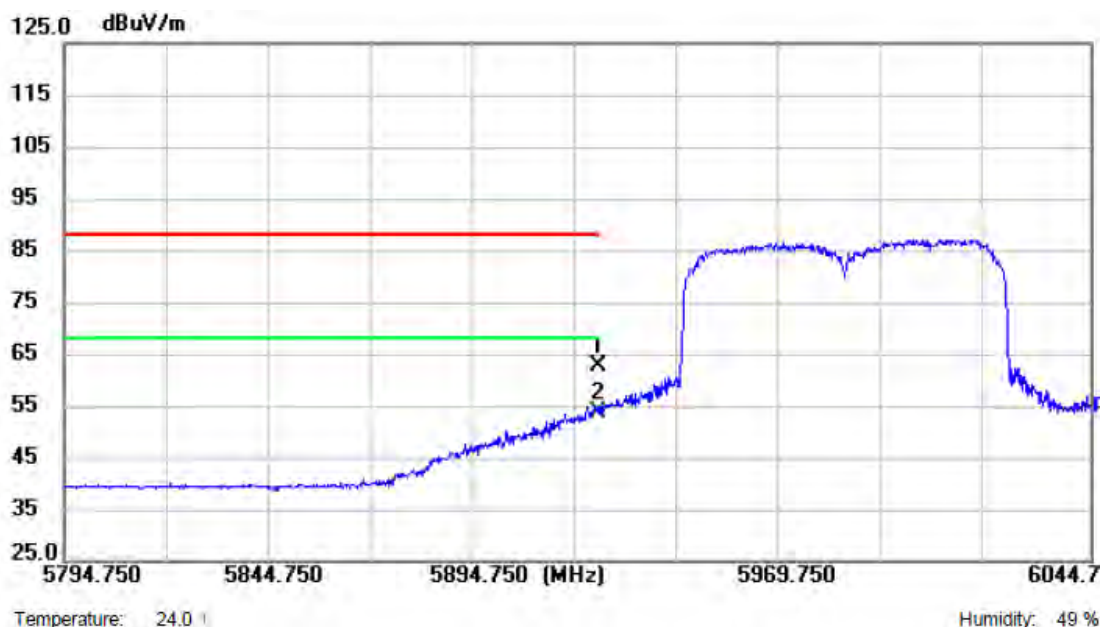
1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)+AMP(dB)

2. Peak/AVG (dBuV/m)= Corr. (dB/m)+ Read Level (dBuV)

3. Margin (dB) = Peak/AVG (dBuV/m)-Limit PK/AVG(dBuV/m)



Temperature:	23.2°C	Relative Humidity:	51%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Vertical		
Test Mode:	TX 802.11ax(HE80) Mode 5985 MHz (U-NII-5)		
Remark:			



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5925.0000	63.19	-0.47	62.72	88.20	-25.48	peak	P
2 *	5925.0000	54.05	-0.47	53.58	68.20	-14.62	AVG	P

Remark:

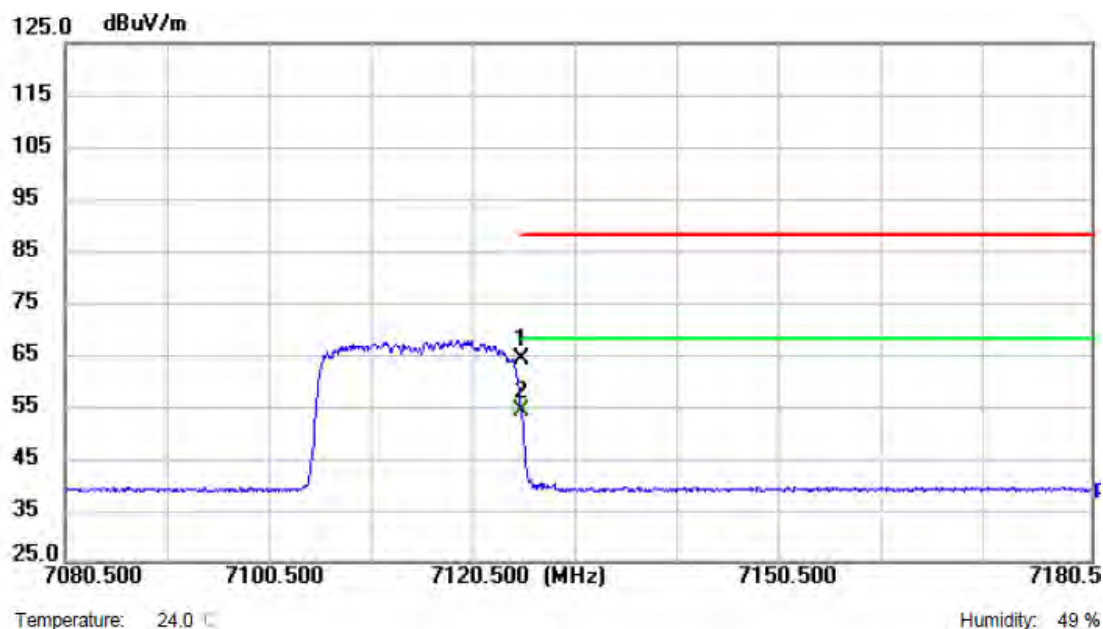
1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)+AMP(dB)

2. Peak/AVG (dBuV/m)= Corr. (dB/m)+ Read Level (dBuV)

3. Margin (dB) = Peak/AVG (dBuV/m)-Limit PK/AVG(dBuV/m)



Temperature:	23.2°C	Relative Humidity:	51%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX 802.11ax(HE20) Mode 7155 MHz (U-NII-8)		
Remark:			



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	7125.0000	62.06	2.12	64.18	88.20	-24.02	peak	P
2 *	7125.0000	52.10	2.12	54.22	68.20	-13.98	AVG	P

Remark:

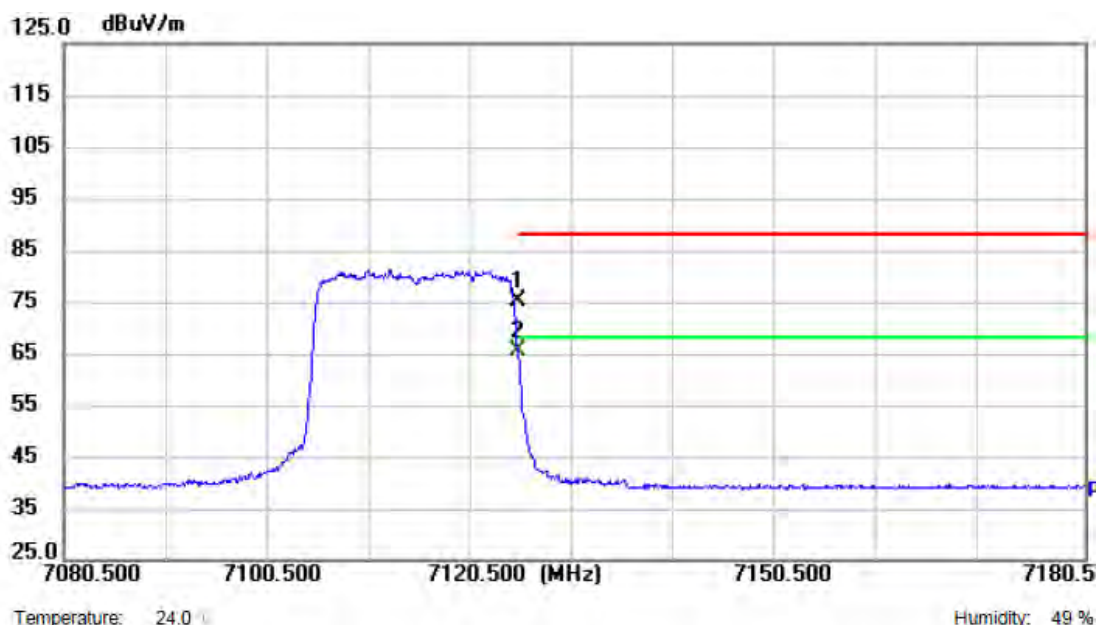
1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)+AMP(dB)

2. Peak/AVG (dBuV/m)= Corr. (dB/m)+ Read Level (dBuV)

3. Margin (dB) = Peak/AVG (dBuV/m)-Limit PK/AVG(dBuV/m)



Temperature:	23.2°C	Relative Humidity:	51%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Vertical		
Test Mode:	TX 802.11ax(HE20) Mode 7155 MHz (U-NII-8)		
Remark:			



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	7125.0000	73.21	2.12	75.33	88.20	-12.87	peak	P
2 *	7125.0000	63.28	2.12	65.40	68.20	-2.80	AVG	P

Remark:

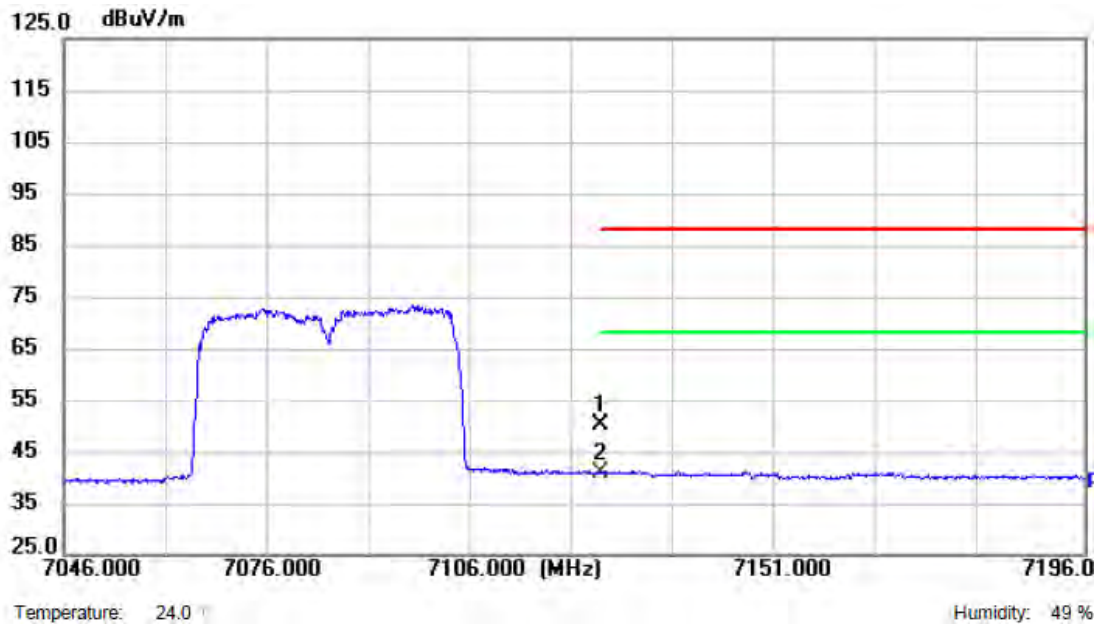
1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)+AMP(dB)

2. Peak/AVG (dBuV/m)= Corr. (dB/m)+ Read Level (dBuV)

3. Margin (dB) = Peak/AVG (dBuV/m)-Limit PK/AVG(dBuV/m)



Temperature:	23.2°C	Relative Humidity:	51%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX 802.11ax(HE40) Mode 7085 MHz (U-NII-8)		
Remark:			



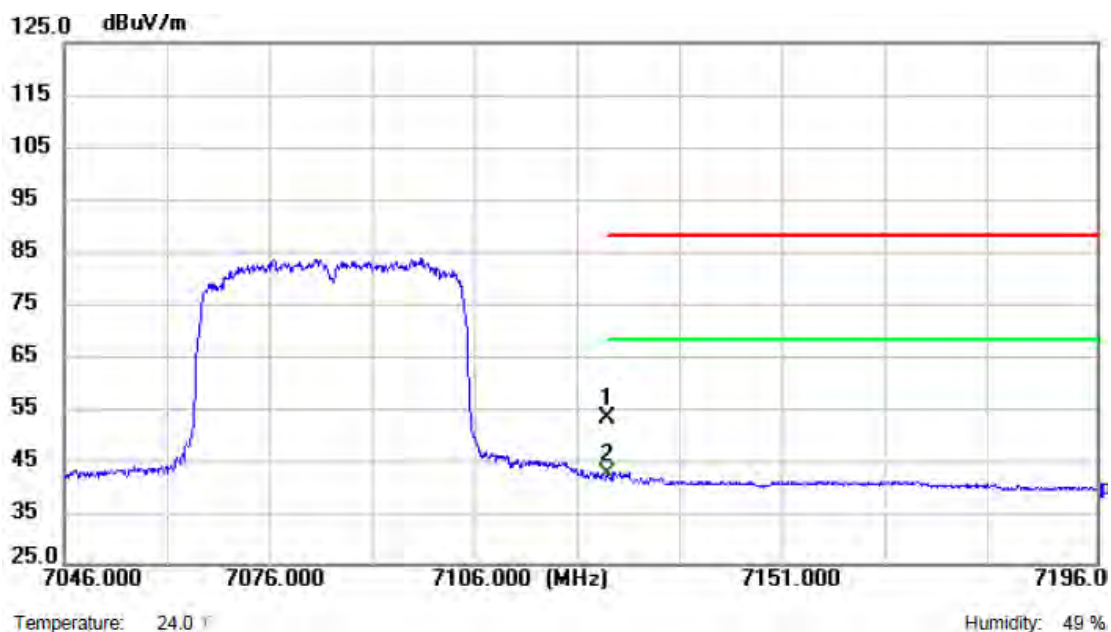
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	7125.0000	48.23	2.12	50.35	88.20	-37.85	peak	P
2 *	7125.0000	38.79	2.12	40.91	68.20	-27.29	AVG	P

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)+AMP(dB)
2. Peak/AVG (dBuV/m)= Corr. (dB/m)+ Read Level (dBuV)
3. Margin (dB) = Peak/AVG (dBuV/m)-Limit PK/AVG(dBuV/m)



Temperature:	23.2°C	Relative Humidity:	51%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Vertical		
Test Mode:	TX 802.11ax(HE40) Mode 7085 MHz (U-NII-8)		
Remark:			



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	7125.0000	50.99	2.12	53.11	88.20	-35.09	peak	P
2 *	7125.0000	40.10	2.12	42.22	68.20	-25.98	AVG	P

Remark:

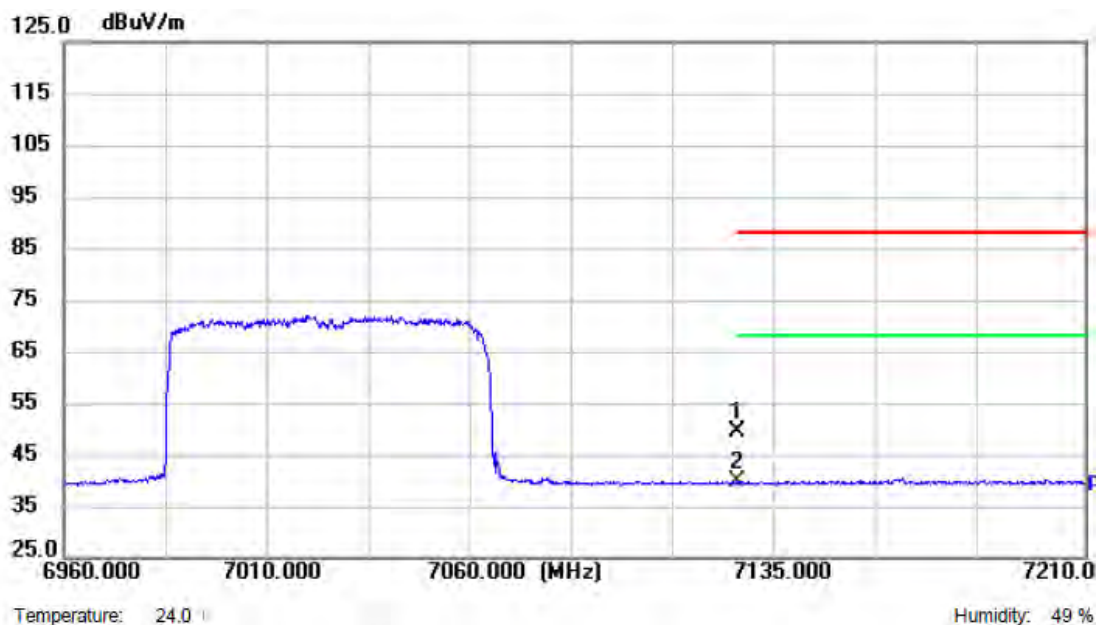
1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)+AMP(dB)

2. Peak/AVG (dBuV/m)= Corr. (dB/m)+ Read Level (dBuV)

3. Margin (dB) = Peak/AVG (dBuV/m)-Limit PK/AVG(dBuV/m)



Temperature:	23.2°C	Relative Humidity:	51%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX 802.11ax(HE80) Mode 7025 MHz (U-NII-8)		
Remark:			



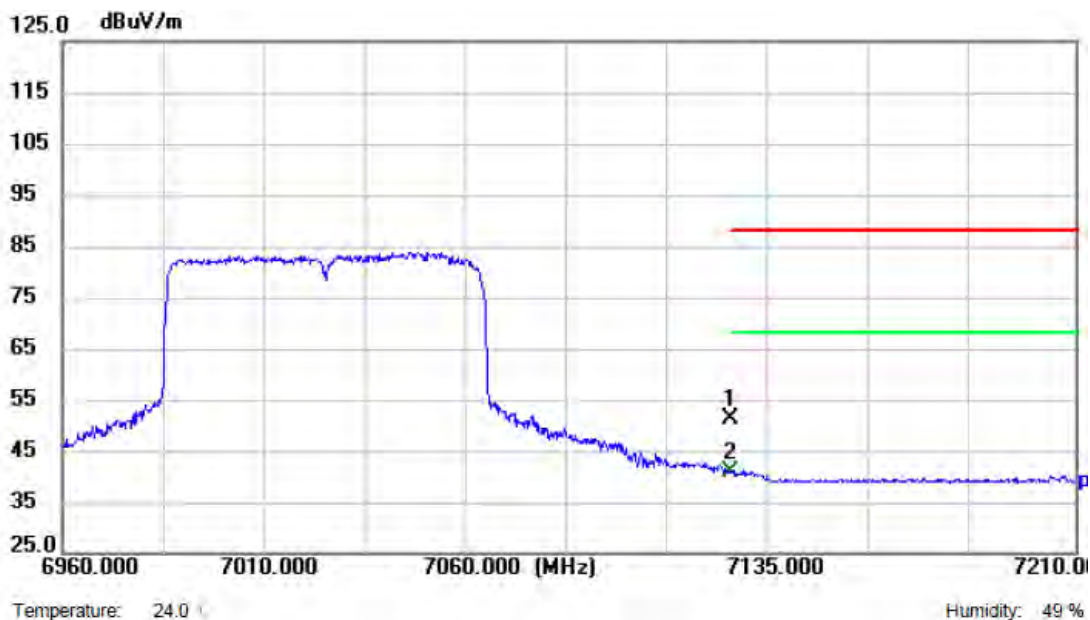
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	7125.0000	47.44	2.12	49.56	88.20	-38.64	peak	P
2 *	7125.0000	37.67	2.12	39.79	68.20	-28.41	AVG	P

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)+AMP(dB)
2. Peak/AVG (dBuV/m)= Corr. (dB/m)+ Read Level (dBuV)
3. Margin (dB) = Peak/AVG (dBuV/m)-Limit PK/AVG(dBuV/m)



Temperature:	23.2°C	Relative Humidity:	51%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Vertical		
Test Mode:	TX 802.11ax(HE80) Mode 7025 MHz (U-NII-8)		
Remark:			



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	7125.0000	48.97	2.12	51.09	88.20	-37.11	peak	P
2 *	7125.0000	38.69	2.12	40.81	68.20	-27.39	AVG	P

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)+AMP(dB)

2. Peak/AVG (dBuV/m)= Corr. (dB/m)+ Read Level (dBuV)

3. Margin (dB) = Peak/AVG (dBuV/m)-Limit PK/AVG(dBuV/m)



Attachment D-- Contention-based Protocol Data

Test Result

Contention Based Protocol Measurement											
Test Mode	Ant.	Ch. [MHz]	Interference Frequency [MHz]		Status	Awgn Level [dBm]	Gain [dBi]	Path Loss [dB]	Adjusted Level [dBm]	Limit [dBm]	Verdict
11AX20SISO	Ant1	5955	Center	5955	OFF	-67.71	-3.7	0	-64.01	-62	PASS
	Ant1		Center	5955	Minimal	-69.47	-3.7	0	-65.77	---	---
	Ant1		Center	5955	ON	-87.00	-3.7	0	-83.30	---	---
	Ant1	6435	Center	6435	OFF	-66.80	-3.7	0	-63.10	-62	PASS
	Ant1		Center	6435	Minimal	-69.56	-3.7	0	-65.86	---	---
	Ant1		Center	6435	ON	-87.00	-3.7	0	-83.30	---	---
	Ant1	6535	Center	6535	OFF	-67.05	-3.7	0	-63.35	-62	PASS
	Ant1		Center	6535	Minimal	-70.85	-3.7	0	-67.15	---	---
	Ant1		Center	6535	ON	-87.00	-3.7	0	-83.30	---	---
	Ant1	6895	Center	6895	OFF	-66.99	-3.7	0	-63.29	-62	PASS
	Ant1		Center	6895	Minimal	-70.26	-3.7	0	-66.56	---	---
	Ant1		Center	6895	ON	-87.00	-3.7	0	-83.30	---	---
11AX80SISO	Ant1	5985	Center	5985	OFF	-66.97	-3.7	0	-63.27	-62.00	PASS
	Ant1		Low	5951.4785	OFF	-66.68	-3.7	0	-62.98	-62.00	PASS
	Ant1		High	6018.5215	OFF	-67.35	-3.7	0	-63.65	-62.00	PASS
	Ant1		Center	5985	Minimal	-70.25	-3.7	0	-66.55	---	---
	Ant1		Low	5951.4785	Minimal	-70.26	-3.7	0	-66.56	---	---
	Ant1		High	6018.5215	Minimal	-70.56	-3.7	0	-66.86	---	---
	Ant1		Center	5985	ON	-87.00	-3.7	0	-83.30	---	---
	Ant1		Low	5951.4785	ON	-87.00	-3.7	0	-83.30	---	---
	Ant1		High	6018.5215	ON	-87.00	-3.7	0	-83.30	---	---
	Ant1		6465	Low	6431.3187	OFF	-67.27	-3.7	0	-63.57	-62.00
	Ant1	Center		6465	OFF	-67.62	-3.7	0	-63.92	-62.00	PASS
	Ant1	High		6498.5215	OFF	-67.19	-3.7	0	-63.49	-62.00	PASS
	Ant1	Low		6431.3187	Minimal	-70.23	-3.7	0	-66.53	---	---
	Ant1	Center		6465	Minimal	-71.25	-3.7	0	-67.55	---	---
	Ant1	High		6498.5215	Minimal	-69.98	-3.7	0	-66.28	---	---
	Ant1	Low		6431.3187	ON	-87.00	-3.7	0	-83.30	---	---
	Ant1	Center		6465	ON	-87.00	-3.7	0	-83.30	---	---
	Ant1	High		6498.5215	ON	-87.00	-3.7	0	-83.30	---	---
	Ant1	6625		Low	6591.3187	OFF	-67.52	-3.7	0	-63.82	-62.00
	Ant1		Center	6625	OFF	-67.64	-3.7	0	-63.94	-62.00	PASS
	Ant1		High	6658.6813	OFF	-67.99	-3.7	0	-64.29	-62.00	PASS
	Ant1		Low	6591.3187	Minimal	-70.26	-3.7	0	-66.56	---	---
	Ant1		Center	6625	Minimal	-69.85	-3.7	0	-66.15	---	---
	Ant1		High	6658.6813	Minimal	-69.88	-3.7	0	-66.18	---	---
	Ant1		Low	6591.3187	ON	-87.00	-3.7	0	-83.30	---	---
	Ant1		Center	6625	ON	-87.00	-3.7	0	-83.30	---	---
	Ant1		High	6658.6813	ON	-87.00	-3.7	0	-83.30	---	---
	Ant1		6865	Low	6831.4785	OFF	-67.27	-3.7	0	-63.57	-62.00
	Ant1	Center		6865	OFF	-67.26	-3.7	0	-63.56	-62.00	PASS
	Ant1	High		6898.5215	OFF	-68.02	-3.7	0	-64.32	-62.00	PASS
	Ant1	Low		6831.4785	Minimal	-69.25	-3.7	0	-65.55	---	---
	Ant1	Center		6865	Minimal	-69.18	-3.7	0	-65.48	---	---
	Ant1	High		6898.5215	Minimal	-70.25	-3.7	0	-66.55	---	---
	Ant1	Low		6831.4785	ON	-87.00	-3.7	0	-83.30	---	---
	Ant1	Center		6865	ON	-87.00	-3.7	0	-83.30	---	---
	Ant1	High		6898.5215	ON	-87.00	-3.7	0	-83.30	---	---
	Ant1										

Note: Adjusted Power = Injected Signal (AWGN) Power - Antenna Gain + Path Loss

*Antenna gain values include all the applicable path losses. And the antenna gain used the min. gain for test.

RF Conducted test Offset= cable loss+ Attenuator(10dB).



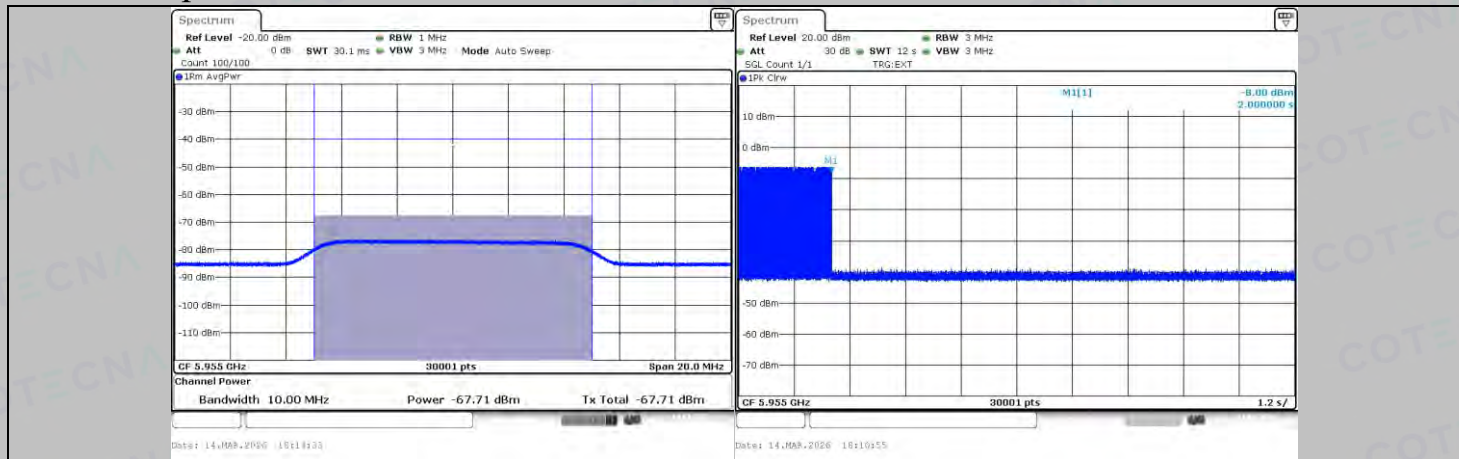
Contention Based Protocol Detection Probability

Test Mode	Ant.	Ch. [MHz]	Interference Frequency [MHz]		Status	Trial										Result [%]	Limit [%]	Verdict
						1	2	3	4	5	6	7	8	9	10			
11AX20SISO	Ant1	5955	Center	5955	OFF	1	1	1	1	1	1	1	1	1	1	100	90	PASS
	Ant1	6435	Center	6435	OFF	1	1	1	1	0	1	1	1	1	1	90	90	PASS
	Ant1	6535	Center	6535	OFF	1	1	1	1	1	1	0	1	1	1	90	90	PASS
	Ant1	6895	Center	6895	OFF	1	1	1	1	1	1	1	1	1	1	100	90	PASS
11AX80SISO	Ant1	5985	Center	5985	OFF	1	1	1	1	1	1	1	1	1	1	100	90	PASS
	Ant1		Low	5951.4785	OFF	1	1	1	1	1	1	1	1	1	1	100	90	PASS
	Ant1		High	6018.5215	OFF	1	1	1	1	1	1	1	1	1	1	100	90	PASS
	Ant1	6465	Low	6431.3187	OFF	1	1	1	1	0	1	1	1	1	1	90	90	PASS
	Ant1		Center	6465	OFF	1	1	1	1	1	1	1	1	1	1	100	90	PASS
	Ant1		High	6498.5215	OFF	1	1	1	1	0	1	1	1	1	1	90	90	PASS
	Ant1	6625	Low	6591.3187	OFF	1	1	1	1	1	1	0	1	1	1	90	90	PASS
	Ant1		Center	6625	OFF	1	1	1	1	1	1	1	0	1	1	90	90	PASS
	Ant1		High	6658.6813	OFF	1	1	1	1	1	1	1	1	1	1	100	90	PASS
	Ant1	6865	Low	6831.4785	OFF	1	1	1	1	1	1	1	1	1	1	100	90	PASS
	Ant1		Center	6865	OFF	1	1	1	1	1	0	1	1	1	1	90	90	PASS
	Ant1		High	6898.5215	OFF	1	1	1	1	1	1	1	1	1	1	100	90	PASS

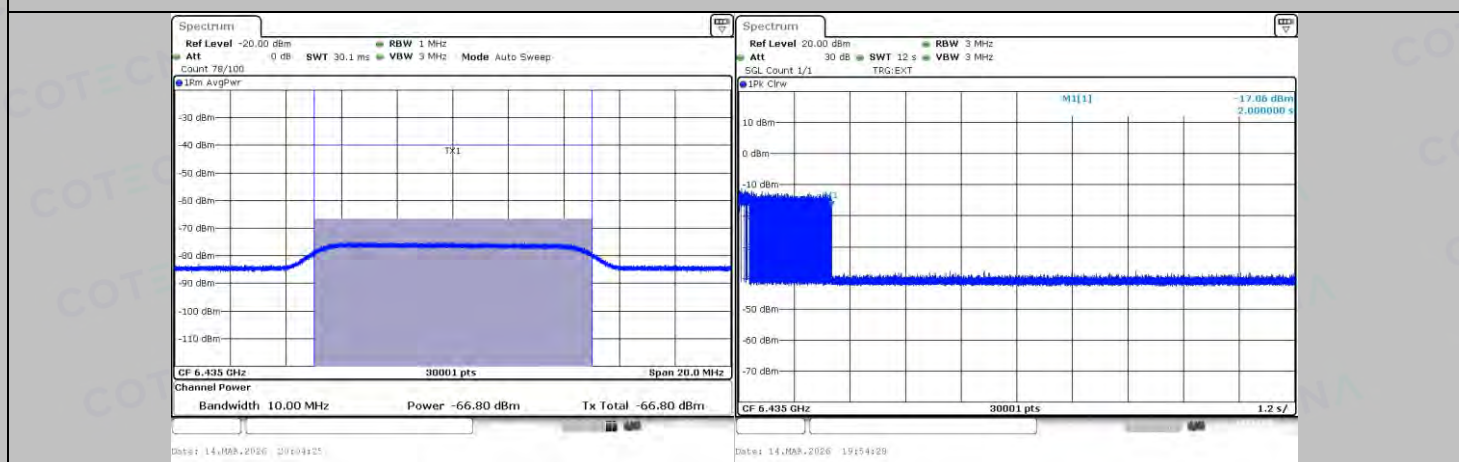
Note: "1"=PASS, "0"=FAIL



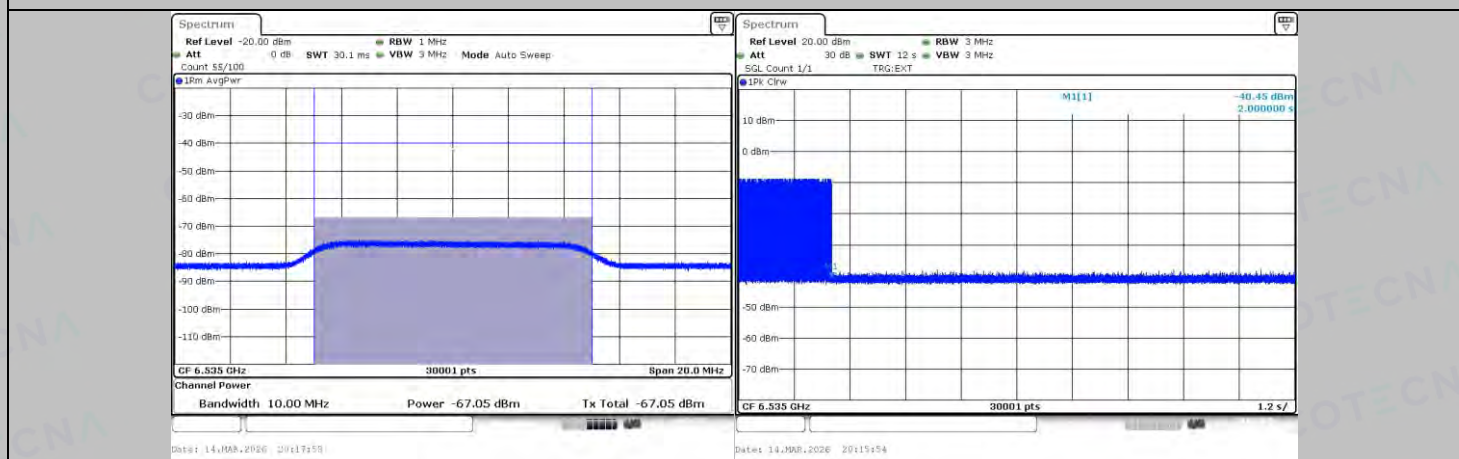
Test Graphs



11AX20SISO-Ant1-5955-Center-5955-OFF-PASS

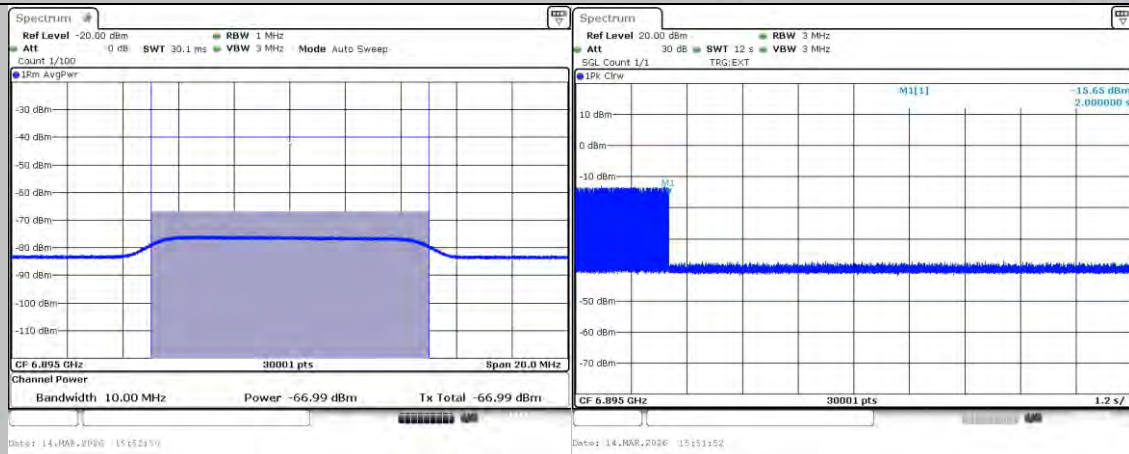


11AX20SISO-Ant1-6435-Center-6435-OFF-PASS

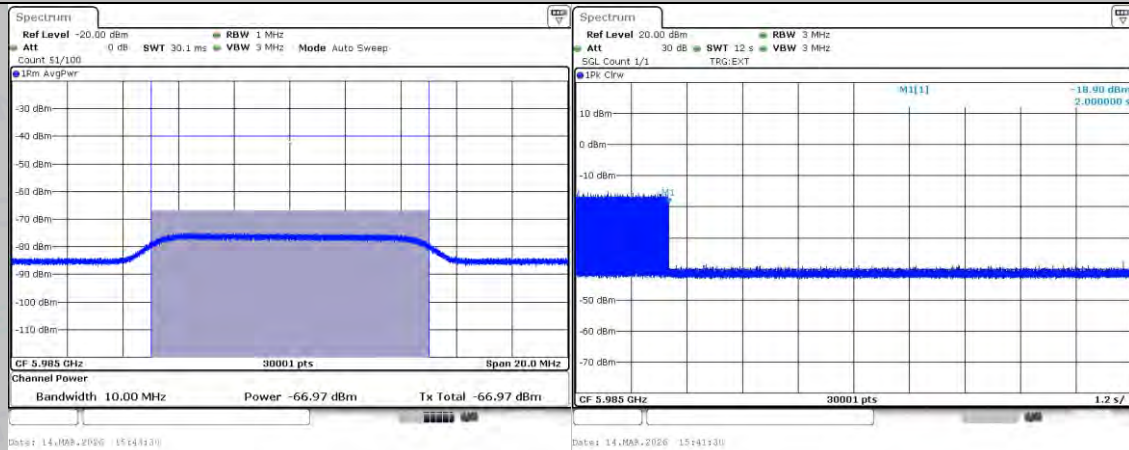


11AX20SISO-Ant1-6535-Center-6535-OFF-PASS

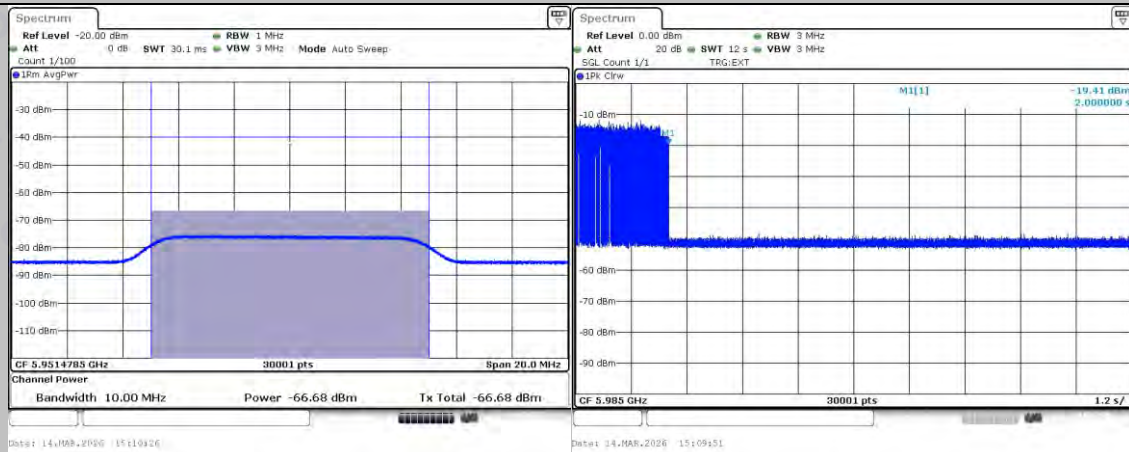




11AX20SISO-Ant1-6895-Center-6895-OFF-PASS

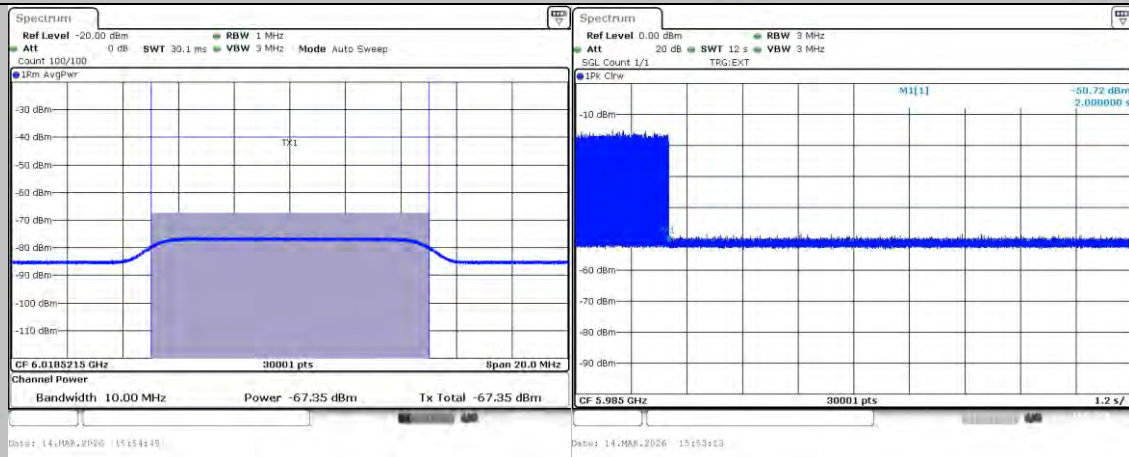


11AX80SISO-Ant1-5985-Center-5985-OFF-PASS

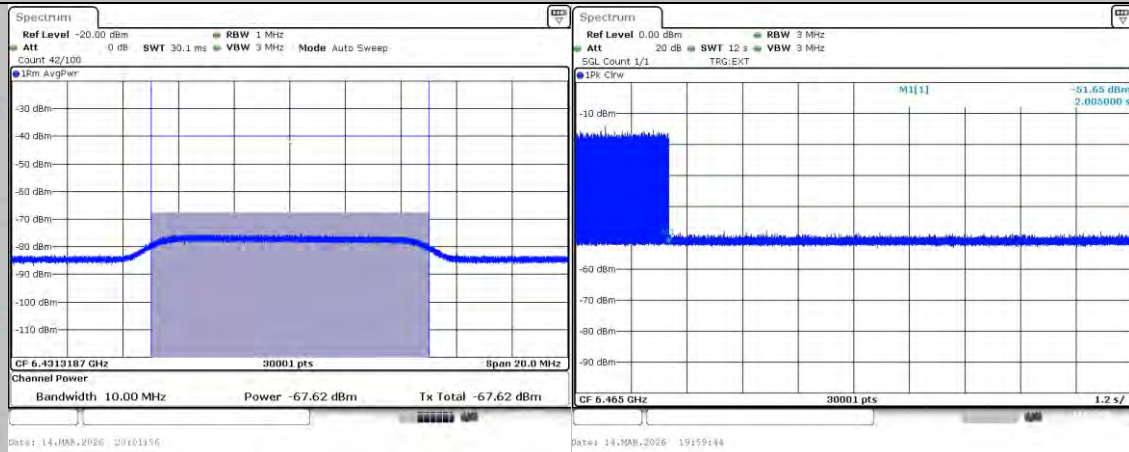


11AX80SISO-Ant1-5985-Low-5951.4785-OFF-PASS

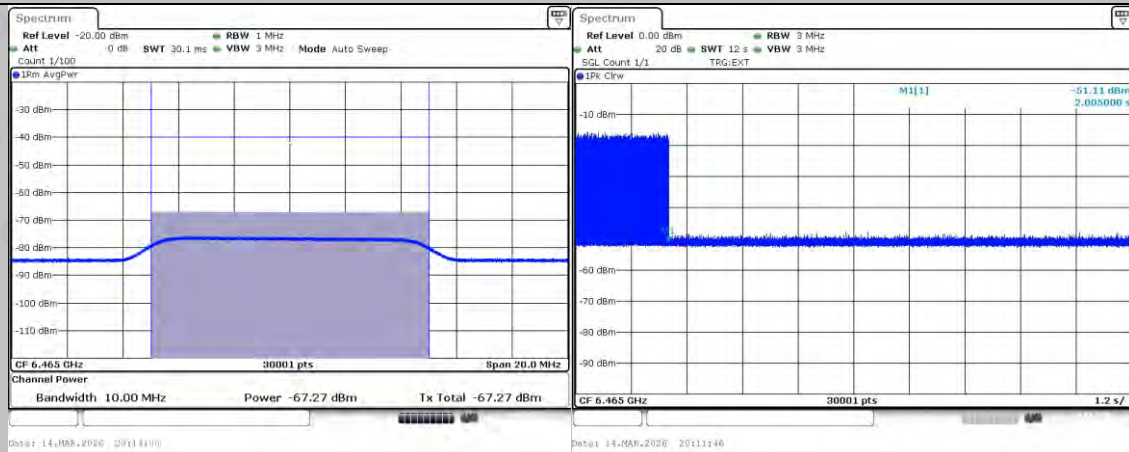




11AX80SISO-Ant1-5985-High-6018.5215-OFF-PASS

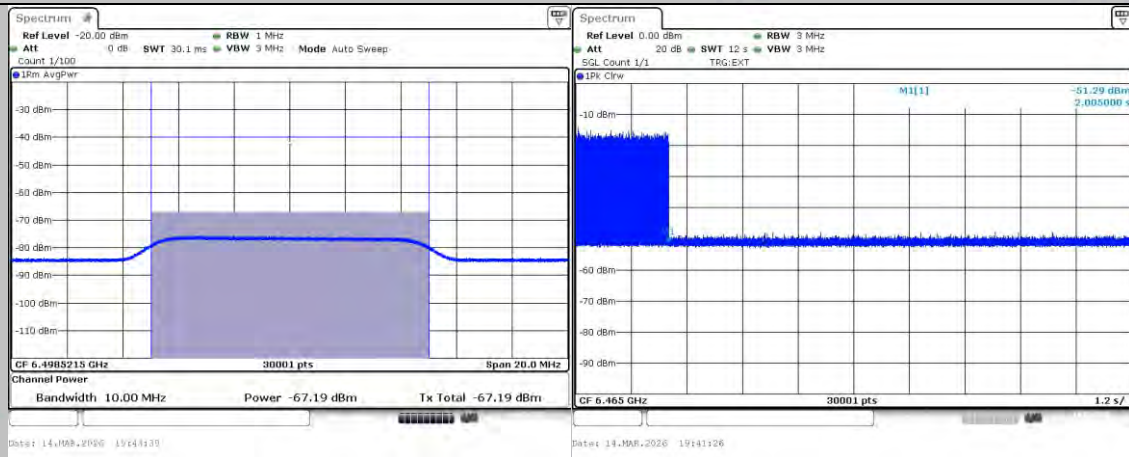


11AX80SISO-Ant1-6465-Low-6431.3187-OFF-PASS

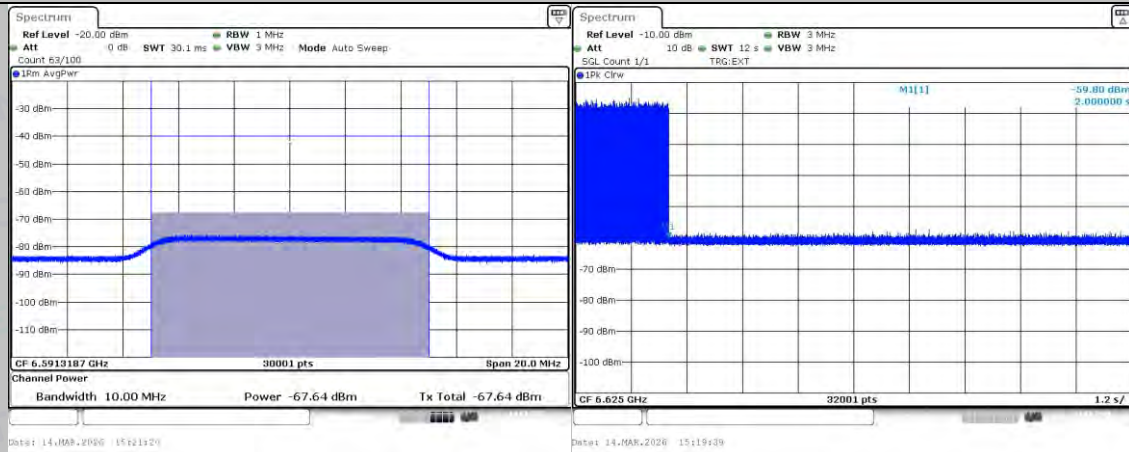


11AX80SISO-Ant1-6465-Center-6465-OFF-PASS

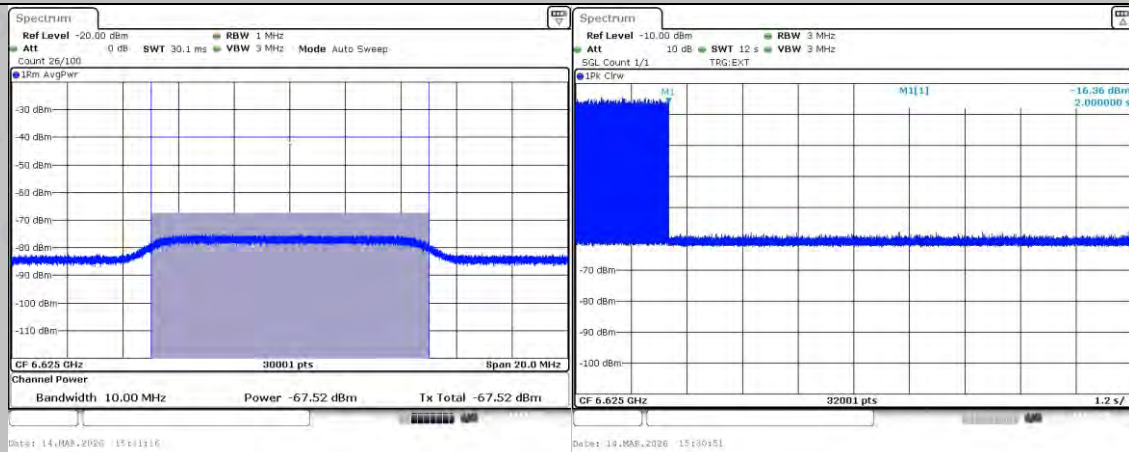




11AX80SISO-Ant1-6465-High-6498.5215-OFF-PASS

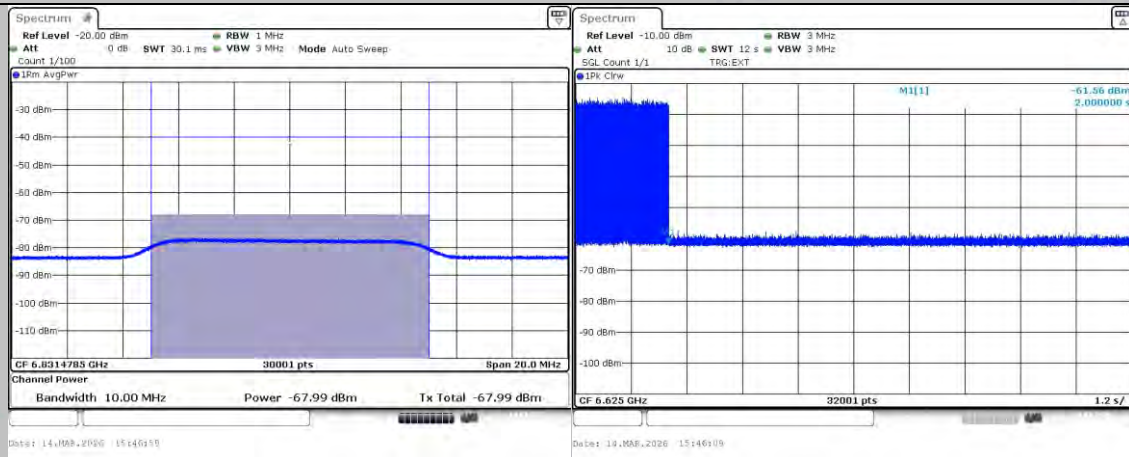


11AX80SISO-Ant1-6625-Low-6591.3187-OFF-PASS

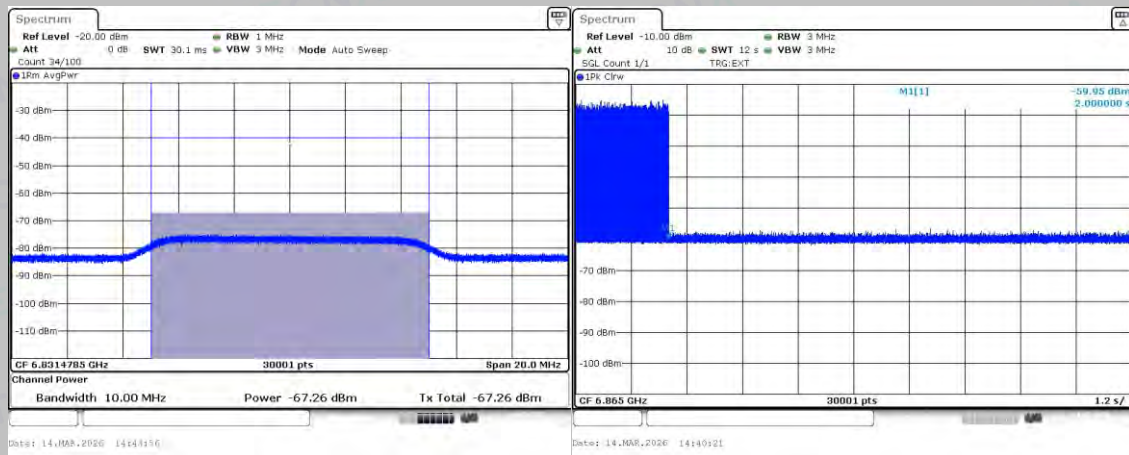


11AX80SISO-Ant1-6625-Center-6625-OFF-PASS

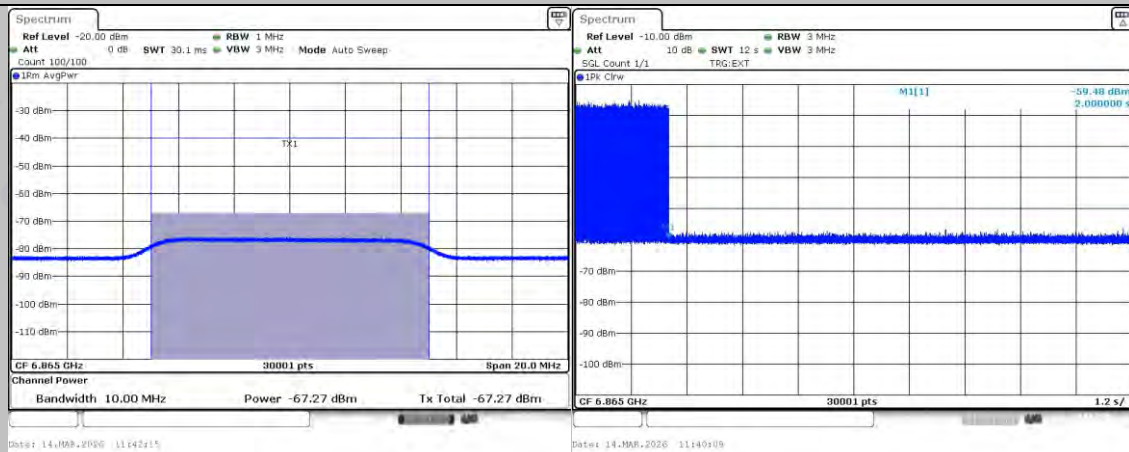




11AX80SISO-Ant1-6625-High-6658.6813-OFF-PASS

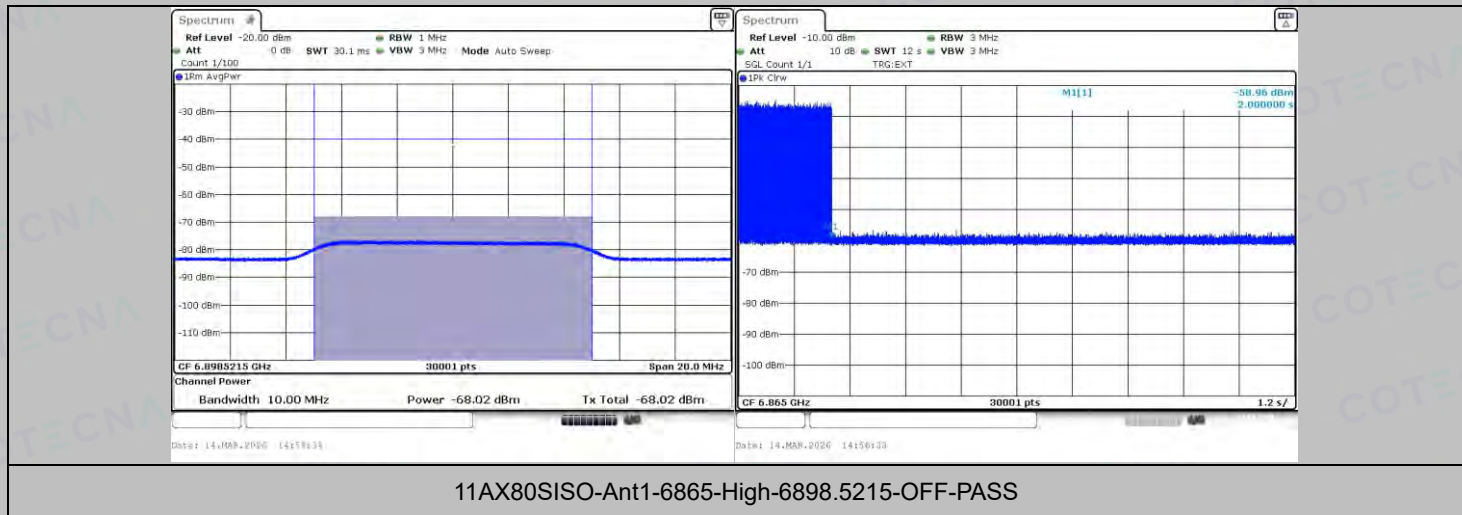


11AX80SISO-Ant1-6865-Low-6831.4785-OFF-PASS



11AX80SISO-Ant1-6865-Center-6865-OFF-PASS





--- END OF THE REPORT ---

