

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



Applicant: ATEN INTERNATIONAL CO., LTD.
3F, No.125, Sec. 2, Datung Road, Sijhih District, New Taipei
City 22183, Taiwan (R.O.C.)

Manufacturer: ATEN INTERNATIONAL CO., LTD.
3F, No.125, Sec. 2, Datung Road, Sijhih District, New Taipei
City 22183, Taiwan (R.O.C.)

Product Name: 4K Wireless Presentation Switch

Brand Name: ATEN

Model No.: Main: VP2021
Variant: VP2020/VP2030/VP2031

Model Difference: Differences in functional and appearance

Report Number: TERF2303000790ER

FCC ID JYX-VP2021

Date of EUT Received: March 31, 2023

Date of Test: April 06, 2023~April 27, 2023

Issue Date: June 15, 2023

Approved By

Blue Yang

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10:2013 and the energy emitted by the sample EUT comply with FCC rule part §15.407.

The results of this report relate only to the sample identified in this report.

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TERF2303000790ER	00	Original	June 15, 2023	Celery Wei	

Note:

- 1、The remark "*" indicates modification of the report upon requests from certification body.
- 2、Variant information of model numbers is provided by the applicant, test results of this report are applicable to the sample EUT(s) received.
And are assessed as electrically identical in RF characteristics, therefore, no further assessment required for the variant(s).

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1 GENERAL INFORMATION

1.1 Product Description

Product Name:	4K Wireless Presentation Switch
Brand Name:	ATEN
Model No.:	Main: VP2021 Variant: VP2020/VP2030/VP2031
Model Difference:	Differences in functional and appearance
Hardware Version:	MP
Firmware Version:	N/A
EUT Series No.:	47A101124540065
Power Supply:	12V from AC/DC Adapter
Test Software (Name/Version)	Windows 10

1.2 Modulation & Data Rate

Modulation type:	64QAM, 16QAM, QPSK, BPSK for OFDM
	256QAM for OFDM in 802.11ac
Transition Rate:	802.11 a: 6 - 54 Mbps
	802.11 n_20MHz: up to 144.4 Mbps
	802.11 n_40MHz: up to 300 Mbps
	802.11 ac_20MHz: up to 173.4 Mbps
	802.11 ac_40MHz: up to 400 Mbps
	802.11 ac_80MHz: up to 866.6 Mbps

1.3 Antenna Designation

Antenna Type	Freq. (MHz)	Peak Antenna Gain (dBi)	Directional Gain (dBi)
Dipole	5150~5250	2.20	5.21
	5725~5825	2.31	5.32

Note:

1. Pre-scanned was done on the above antennas, measurements were demonstrated by using the antenna with the highest gain as the worst case scenarios.
2. Antenna information is provided by the applicant.

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1.4 FCC

Wi-Fi	Frequency Range	Channels	Rated Power(Avg) (dBm) (Worst Case)	Modulation Technology
a/ n_HT/ ac_VHT	5180~5240	4	15.99 dBm	OFDM
	5745-5825	5	15.99 dBm	OFDM
n_HT/ ac_VHT 40M	5190~5230	2	15.98 dBm	OFDM
	5755-5795	2	15.93 dBm	OFDM
ac_VHT 80M	5210	1	13.98 dBm	OFDM
	5775	1	13.98 dBm	OFDM

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1.5 Test Methodology of Applied Standards

FCC Part 15, Subpart E §15.407

FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

FCC KDB 291074 D02 EMC Measurement v01

ANSI C63.10:2013

1.6 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designation number	IC CAB identifier
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan.	SAC 1	TW0027	TW3702
		SAC 2		
		SAC 3		
		Conduction 1		
		Conducted 1		
		Conducted 2		
		Conducted 3		
		Conducted 4		
		Conducted 5		
		Conducted 6		
	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	Conduction C	TW0028	
		SAC C		
		SAC D		
		SAC G		
		Conducted A		
		Conducted B		
		Conducted C		
		Conducted D		
		Conducted E		
		Conducted F		
Conducted G				

Note: Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address.

1.7 Special Accessories

There are no special accessories used while test was conducted.

1.8 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

An engineering test mode (software/firmware) that applicant provided was utilized to manipulate the EUT into transmit, selection of the test channel, and modulation scheme.

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is placed on a table which is 0.8 m above ground plane. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz. The CISPR Quasi-Peak and Average detector mode is employed. The two LISNs provide 50uH/50 ohm of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

2.3.2 Conducted Test (RF)

The active antenna port of the unlicensed wireless device is connected to the spectrum analyzer with attenuator to protect the instrumentation. If a second antenna port is available, it is tested at one operating frequency, with other port(s) appropriately terminated, to verify it has similar output characteristics as the fully tested port.

2.3.3 Radiated Emissions

The EUT is placed on a turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

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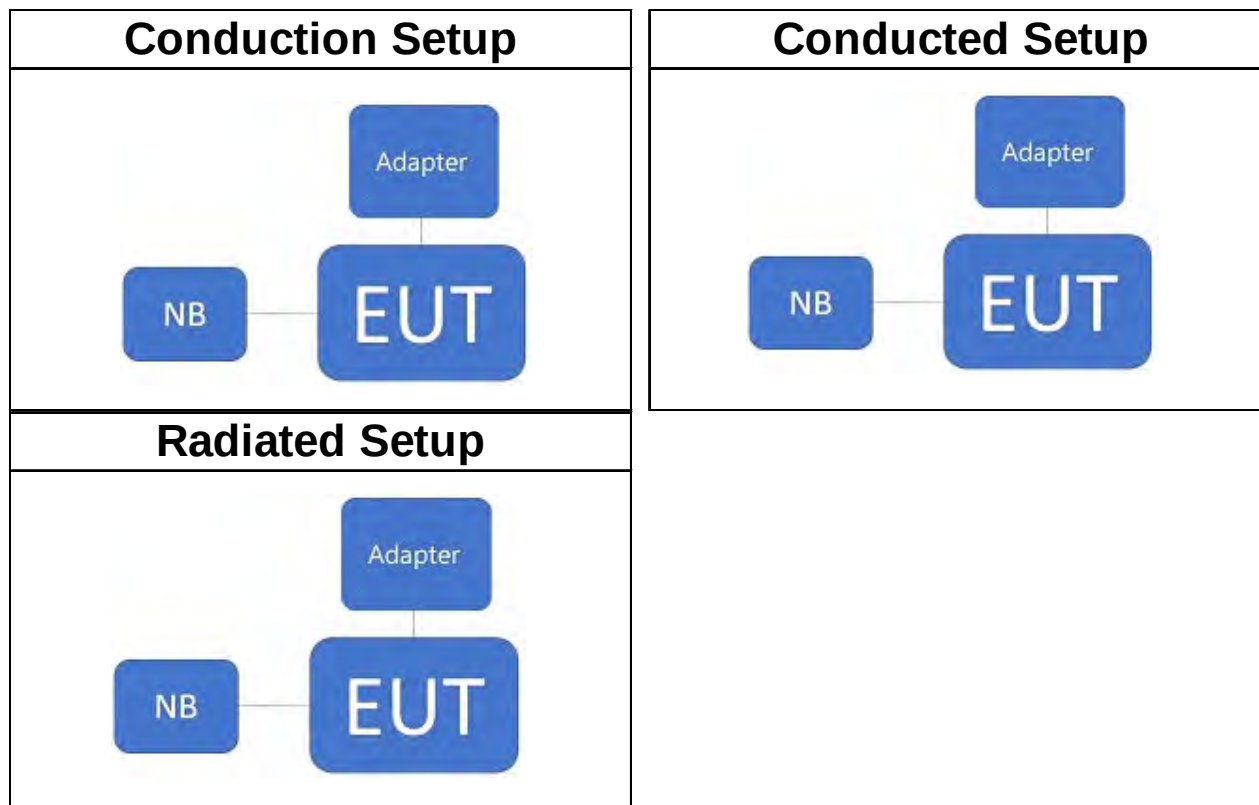
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2.4 Measurement Results Explanation Example

2.4.1 For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

2.5 Test Configuration



2.6 Control Unit(s)

AC Power-Line Conducted Emission Test Site: Conduction 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
AC/DC Adapter	DELTA	DPS-40AB-11	JABD2243017436	N/A	N/A
Notebook	HP	HSN-Q35C-4	5CD238GDV5	N/A	N/A
Conducted Emission Test Site: Conducted 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Notebook	HP	HSN-Q35C-4	5CD238GDV5	N/A	N/A
Radiated Emission Test Site: SAC 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
AC/DC Adapter	DELTA	DPS-40AB-11	JABD2243017436	N/A	N/A
Notebook	HP	HSN-Q35C-4	5CD238GDV5	N/A	N/A

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3 SUMMARY OF TEST RESULT

FCC Rules	Description Of Test	Result
§15.207	AC Power Line Conducted Emission	Compliant
§15.407(e)	Emission Bandwidth	Compliant
§15.407(a)	Maximum Conducted Output Power	Compliant
§15.407(a)	Power Spectral Density	Compliant
§15.205 §15.209 §15.407(b)	Undesirable Radiated Emissions	Compliant
§15.407(c)	Transmission in case of Absence of Information	Compliant
§15.203	Antenna Requirement	Compliant

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4 DESCRIPTION OF TEST MODES

4.1 Operating Frequencies

perated band in 5150 MHz ~5250 MHz:

20 M		40 M		80 M	
CH	Freq (MHz)	CH	Freq (MHz)	CH	Freq (MHz)
36	5180	38	5190	42	5210
40	5200	46	5230		
44	5220				
48	5240				

Operated band in 5725 MHz ~5850 MHz:

20 M		40 M		80 M	
CH	Freq (MHz)	CH	Freq (MHz)	CH	Freq (MHz)
149	5745	151	5755	155	5775
153	5765	159	5795		
157	5785				
161	5805				
165	5825				

4.2 The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. Test program used to control the EUT for staying in continuous transmitting mode is programmed.
3. Investigation has been done on all the possible configurations for searching the worst case. The given UE is pre-scanned among below modes.

Modulation		Transmission Chain								Single Transmission Spatial	Multiple Transmission Spatial
v	802.11 a	v	Ch0	v	Ch1		Ch2		Ch3	1TX	v 2TX
v	802.11 n	v	Ch0	v	Ch1		Ch2		Ch3	1TX	v 2TX
v	802.11 ac	v	Ch0	v	Ch1		Ch2		Ch3	1TX	v 2TX
	802.11 ax		Ch0		Ch1		Ch2		Ch3	1TX	2TX

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4. Therefore, below summary is the modes of test configuration that yield the highest reading and generate the highest emission chosen to carry out the relevantly mandatory test items.

CONDUCTED TEST						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATARATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	2TX
	5745~5825	149 to 165	149,157,165			
802.11n_HT20	5180~5240	36 to 48	36,44,48	OFDM	MCS0	2TX
	5745~5825	149 to 165	149,157,165			
802.11n_HT40	5190~5230	38 to 46	38,46	OFDM	MCS0	2TX
	5755~5795	151 to 159	151,159			
802.11ac_VHT80	5210	42	42	OFDM	MCS0	2TX
	5775	155	155			
RADIATED EMISSION TEST (BELOW 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DAT A RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	44	OFDM	6	2TX
	5745~5825	149 to 165	157			
RADIATED EMISSION TEST (ABOVE 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DAT A RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	2TX
	5745~5825	149 to 165	149,157,165			
802.11n_HT20	5180~5240	36 to 48	36,44,48	OFDM	MCS0	2TX
	5745~5825	149 to 165	149,157,165			
802.11n_HT40	5190~5230	38 to 46	38,46	OFDM	MCS0	2TX
	5755~5795	151 to 159	151,159			
802.11ac_VHT80	5210	42	42	OFDM	MCS0	2TX
	5775	155	155			

Note:

The field strength of radiated emission was measured as the EUT positioned in different orthogonal planes (E1/E2/H) based on actual usage of the EUT to pre-scan the emissions for determining the worst case scenario.

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5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 2.32 dB
Output Power measurement	+/- 1 dB
Emission Bandwidth	+/- 1.53 Hz
Undesignable radiated emission measurement	+/- 1.68 dB
Peak Power Density	+/- 2.16 dB
Temperature	+/- 0.7 °C
Humidity	+/- 3 %
DC / AC Power Source	+/- 1 %

Radiated Spurious Emission Measurement Uncertainty			
Polarization: Vertical	+/-	2.8 dB	9kHz~30MHz
	+/-	4.82 dB	30MHz - 1000MHz
	+/-	4.37 dB	1GHz - 18GHz
	+/-	4.21 dB	18GHz - 40GHz
Polarization: Horizontal	+/-	2.8 dB	9kHz~30MHz
	+/-	4.54 dB	30MHz - 1000MHz
	+/-	4.37 dB	1GHz - 18GHz
	+/-	4.21 dB	18GHz - 40GHz

Note:

1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
2. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

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6 MEASUREMENT EQUIPMENT USED

6.1 Emission from AC power line

AC Power-Line Conducted Emission Test Site: Conduction 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Test Software	Audix	e3	Ver. 9.210322	N.C.R	N.C.R
LISN	SCHWARZBECK	NSLK 8127	1040	08/23/2022	08/22/2023
Coaxial Cables	EMC Instruments Corp.	EMCCFD300-BM-BM-3000	161207	06/22/2022	06/21/2023
EMI Test Receiver	R&S	ESCI 7	100759	08/22/2022	08/21/2023

6.2 Conducted Measurement

Conducted Emission Test Site: Conducted 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY59071571	05/19/2022	05/18/2023
Test Software	SGS	Radio Test Software	Ver. 21	N.C.R	N.C.R
Power Meter	Anritsu	ML2496A	1242004	10/26/2022	10/25/2023
Power Sensor	Anritsu	MA2411B	1207365	10/26/2022	10/25/2023
Power Sensor	Anritsu	MA2411B	1207368	10/26/2022	10/25/2023
Attenuator	Mini-Circuit	BW-S10W2+	2	12/13/2022	12/12/2023
DC Block	Mini-Circuits	BLK-18-S+	1	12/13/2022	12/12/2023

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6.3 Radiated Measurement

Radiated Emission Test Site: SAC 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Horn Antenna	SCHWARZBECK	BBHA9120D	D803	12/30/2022	12/29/2023
Bi-log Antenna	TESEO	CBL 6112D	35242 & AT-N0555	12/27/2022	12/26/2023
Loop Antenna	ETS.LINDGREN	6502	148045	10/05/2022	10/04/2023
Horn Antenna	SCHWARZBECK	BBHA9170	184	12/30/2022	12/29/2023
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY60242081	10/06/2022	10/05/2023
Test Software	Audix	e3	Ver. 9.210322	N.C.R	N.C.R
EMI Test Receiver	R&S	ESCI 7	100759	08/22/2022	08/21/2023
Site Cal	SGS	SAC 1	N/A	01/01/2023	12/31/2023
Pre-Amplifier	HP	8447D	2944A09469	12/13/2022	12/12/2023
Pre-Amplifier	HP	8449B	3008A01973	12/13/2022	12/12/2023
Pre-Amplifier	EMCI	EMC184045B	980135	10/27/2022	10/26/2023
Bandreject Filter 5150-5350	Micro-Tronics	BRM50703	1	12/13/2022	12/12/2023
Bandreject Filter 5725-5875	Micro-Tronics	BRM50705	1	12/13/2022	12/12/2023
8.6GHz High Pass Filter	Titan	T04H86002600060S01	210619-2-7	12/13/2022	12/12/2023
Coaxial Cable	Huber Suhner	succoflex 102	MY2622/2	12/13/2022	12/12/2023
Coaxial Cable	Huber Suhner	succoflex 104A	800086/4a	12/13/2022	12/12/2023
Coaxial Cable	Huber Suhner	EMC 104-SM-SM-2000	160123	12/13/2022	12/12/2023
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY2630/2	12/13/2022	12/12/2023
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY22962/2	12/13/2022	12/12/2023

NOTE: N.C.R refers to Not Calibrated Required.

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7 CONDUCTED EMISSION TEST

7.1 Standard Applicable

Frequency range within 150 kHz to 30 MHz shall not exceed the Limit table as below.

Frequency range MHz	Limits (dBuV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

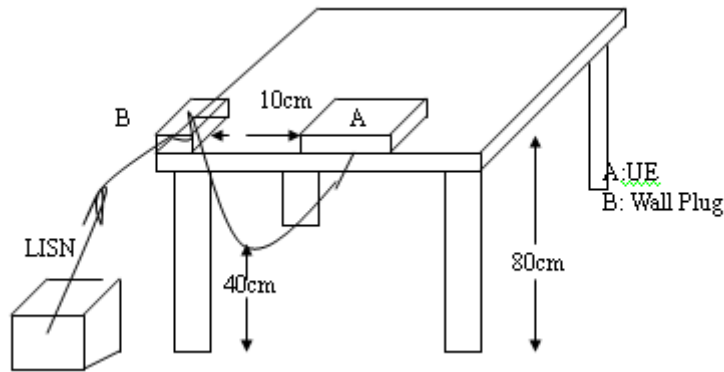
Note

- 1.The lower limit shall apply at the transition frequencies
- 2.The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

7.2 EUT Setup

1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2013.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The rear of the EUT and peripherals were placed flushed with the rear of the tabletop.
3. The LISN was connected with 120Vac/60Hz power source.

7.3 Test SET-UP



7.4 Measurement Procedure

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all phases of power being supplied by given UE are completed.

7.5 Measurement Result

Note: Refer to next page for measurement data and plots.

Note2: The * reveals the worst-case results that closest to the limit.

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Report Number :TERF2303000790ER

Test Site :Conduction 1

Test Mode :WLAN_5G

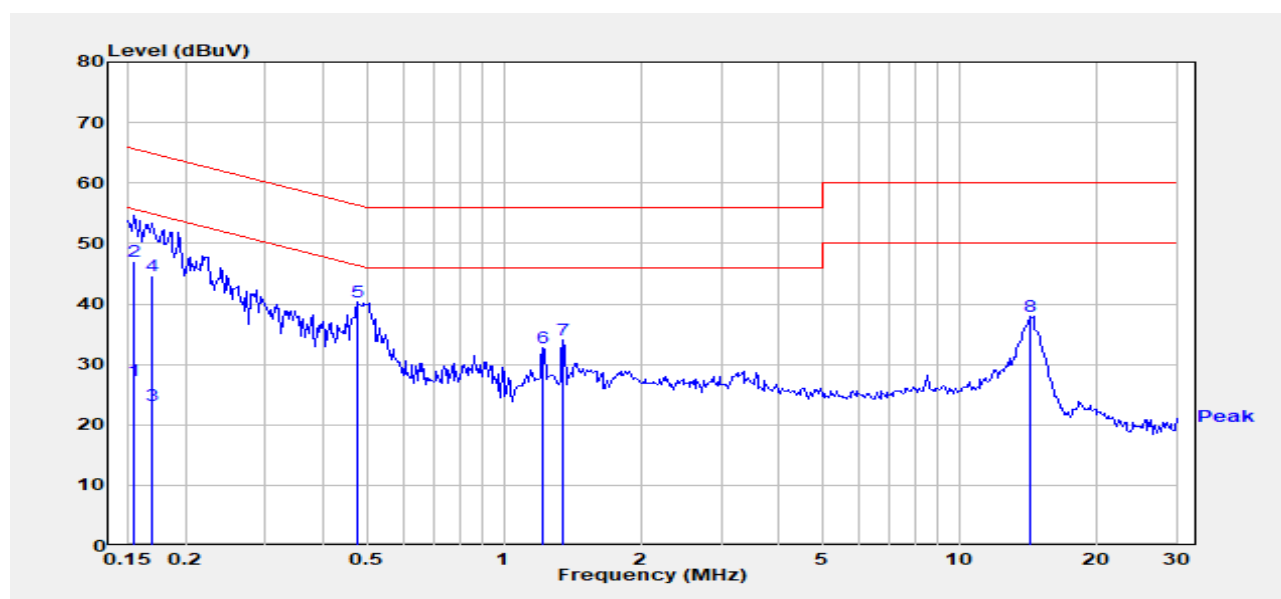
Test Date :2023-04-27

Power :120V/60Hz

Temp./Humi. :24.9/51

Probe :L

Engineer :WJ Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.155	Average	17.14	10.25	27.39	55.74	-28.35
0.155	QP	36.74	10.25	46.99	65.74	-18.75
0.170	Average	12.87	10.25	23.12	54.98	-31.86
0.170	QP	34.34	10.25	44.59	64.98	-20.39
0.478	Peak	30.02	10.25	40.27	56.37	-16.10
1.220	Peak	22.13	10.57	32.69	56.00	-23.31
1.349	Peak	23.33	10.67	34.00	56.00	-22.00
14.354	Peak	27.14	10.79	37.94	60.00	-22.06

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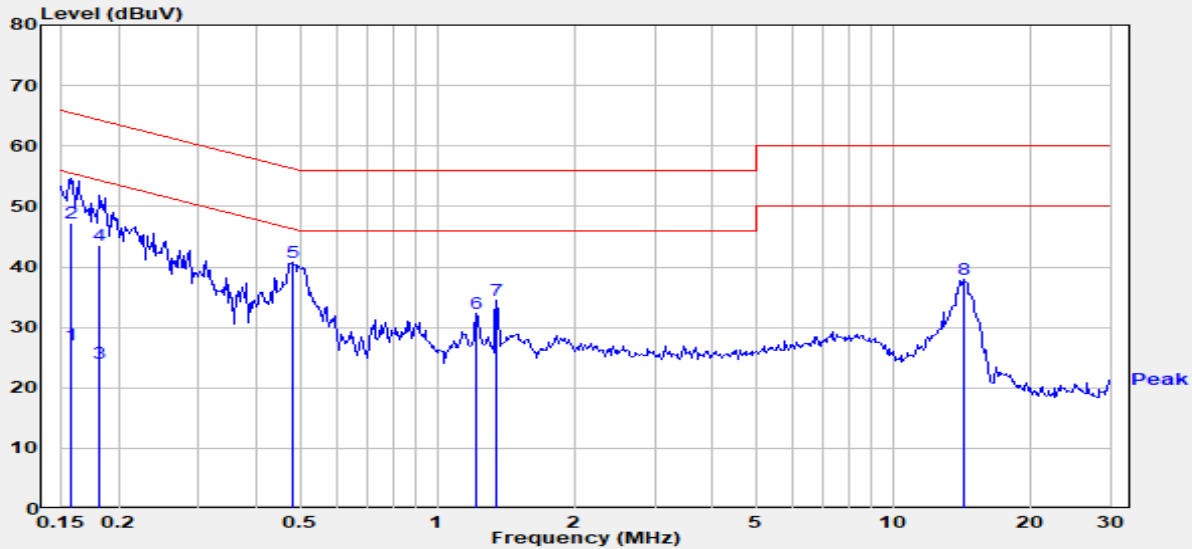
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Report Number :TERF2303000790ER
 Test Mode :WLAN_5G
 Power :120V/60Hz
 Probe :N

Test Site :Conduction 1
 Test Date :2023-04-27
 Temp./Humi. :24.9/51
 Engineer :WJ Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.157	Average	16.91	10.25	27.16	55.62	-28.46
0.157	QP	36.94	10.25	47.19	65.62	-18.43
0.182	Average	13.81	10.25	24.06	54.41	-30.35
0.182	QP	33.38	10.25	43.63	64.41	-20.78
0.482	Peak	30.55	10.25	40.80	56.31	-15.50
1.220	Peak	21.78	10.57	32.35	56.00	-23.65
1.349	Peak	23.85	10.67	34.52	56.00	-21.48
14.354	Peak	27.25	10.73	37.98	60.00	-22.02

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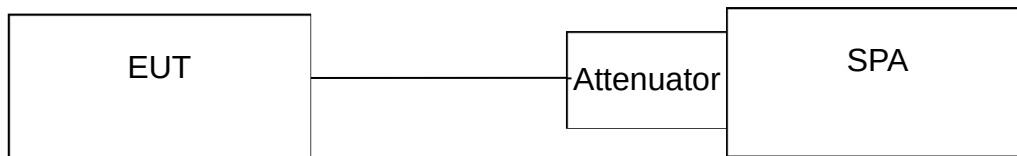
8 EMISSION BANDWIDTH MEASUREMENT

8.1 Standard Applicable

There is no limit bandwidth for U-NII-1, U-NII-2-A and U-NII-2-C.

The minimum of 6dB Bandwidth measurement is 0.5 MHz for U-NII-3.

8.2 Test Setup



8.3 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the Antenna port to the spectrum analyzer.
 - 3.a. 26dB Band width Measurement: Set the spectrum analyzer as 1% of emission BW Sweep=auto,
Detector = Peak,
Trace Mode = Max Hold,
Manually readjust RBW until the RBW/EBW ratio is 1% based on EBW as observed on the result of pre-sequence measurement.
 - 3.b. Mark the peak frequency and -26dB (upper and lower) frequency.
4. Repeat the procedures as list above until all test default channels (low, middle, and high) are completed.
5. Minimum Emission Bandwidth for the band 5.725-5.850GHz.
 - a. Set the spectrum analyzer as
RBW = 100 kHz,
VBW = 3*RBW,
Span = large enough to capture all products of the modulation process,
Detector=Peak,
Sweep=auto
 - b. Mark the peak frequency and -6dB (upper and lower) frequency.
6. Repeat above procedures until all frequency of interest measured was complete.

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8.4 Measurement Result

8.4.1 FCC Occupied Bandwidth

802.11a_Ch0

Freq. (MHz)	26dB BW (MHz)	Offset	10 Log (B) (dB)
5180	18.46	12.73	12.660
5220	18.34	12.73	12.630
5240	18.44	12.73	12.660

802.11a_Ch0

Freq. (MHz)	6dB BW (MHz)	Offset	10 Log (B) (dB)
5745	16.33	12.73	12.130
5785	16.33	12.73	12.130
5825	16.34	12.73	12.130

802.11a_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.18	< 5250
5745	5736.83	> 5725

802.11a_Ch1

Freq. (MHz)	26dB BW (MHz)	Offset	10 Log (B) (dB)
5180	18.37	12.73	12.640
5220	18.36	12.73	12.640
5240	18.39	12.73	12.650

802.11a_Ch1

Freq. (MHz)	6dB BW (MHz)	Offset	10 Log (B) (dB)
5745	16.34	12.73	12.130
5785	16.35	12.73	12.140
5825	16.34	12.73	12.130

802.11a_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.19	< 5250
5745	5736.82	> 5725

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802.11n_HT20_Ch0

Freq. (MHz)	26dB BW (MHz)	Offset	10 Log (B) (dB)
5180	19.33	12.73	12.860
5220	19.21	12.73	12.840
5240	19.37	12.73	12.870

802.11n_HT20_Ch0

Freq. (MHz)	6dB BW (MHz)	Offset	10 Log (B) (dB)
5745	17.57	12.73	12.450
5785	17.58	12.73	12.450
5825	17.64	12.73	12.460

802.11n_HT20_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.77	< 5250
5745	5736.23	> 5725

802.11n_HT20_Ch1

Freq. (MHz)	26dB BW (MHz)	Offset	10 Log (B) (dB)
5180	19.29	12.73	12.850
5220	19.33	12.73	12.860
5240	19.27	12.73	12.850

802.11n_HT20_Ch1

Freq. (MHz)	6dB BW (MHz)	Offset	10 Log (B) (dB)
5745	17.53	12.73	12.440
5785	17.57	12.73	12.450
5825	17.61	12.73	12.460

802.11n_HT20_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.77	< 5250
5745	5736.22	> 5725

802.11n_HT40_Ch0

Freq. (MHz)	26dB BW (MHz)	Offset	10 Log (B) (dB)
5190	39.98	12.73	16.020
5230	40.67	12.73	16.090

802.11n_HT40_Ch0

Freq. (MHz)	6dB BW (MHz)	Offset	10 Log (B) (dB)
5755	35.07	12.73	15.450
5795	35.11	12.73	15.450

802.11n_HT40_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5230	5248.05	< 5250
5755	5737.07	> 5725

802.11n_HT40_Ch1

Freq. (MHz)	26dB BW (MHz)	Offset	10 Log (B) (dB)
5190	41.07	12.73	16.140
5230	40.49	12.73	16.070

802.11n_HT40_Ch1

Freq. (MHz)	6dB BW (MHz)	Offset	10 Log (B) (dB)
5755	33.82	12.73	15.290
5795	35.20	12.73	15.470

802.11n_HT40_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5230	5248.02	< 5250
5755	5737.02	> 5725

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802.11ac_VHT80_Ch0

Freq. (MHz)	26dB BW (MHz)	Offset	10 Log (B) (dB)
5210	80.81	12.73	19.070

802.11ac_VHT80_Ch0

Freq. (MHz)	6dB BW (MHz)	Offset	10 Log (B) (dB)
5775	73.85	12.73	18.680

802.11ac_VHT80_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5210	5247.47	< 5250
5775	5737.48	> 5725

802.11ac_VHT80_Ch1

Freq. (MHz)	26dB BW (MHz)	Offset	10 Log (B) (dB)
5210	81.06	12.73	19.090

802.11ac_VHT80_Ch1

Freq. (MHz)	6dB BW (MHz)	Offset	10 Log (B) (dB)
5775	75.07	12.73	18.750

802.11ac_VHT80_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5210	5247.35	< 5250
5775	5737.45	> 5725

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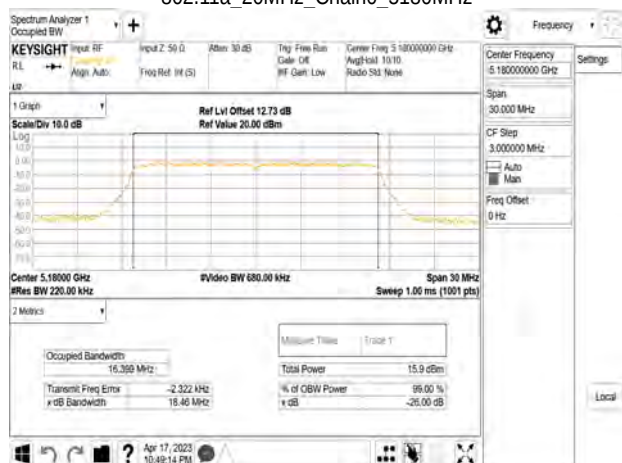
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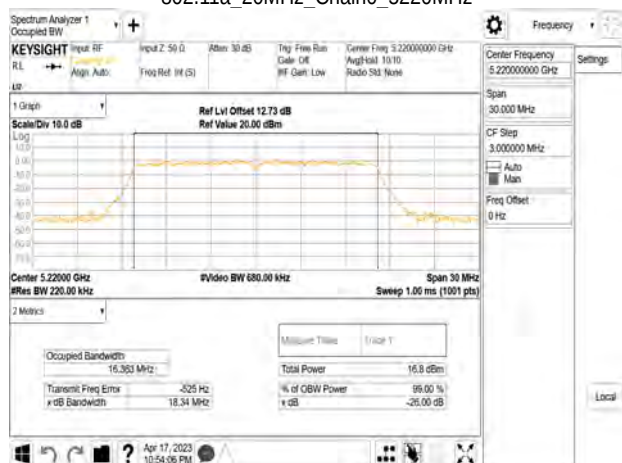
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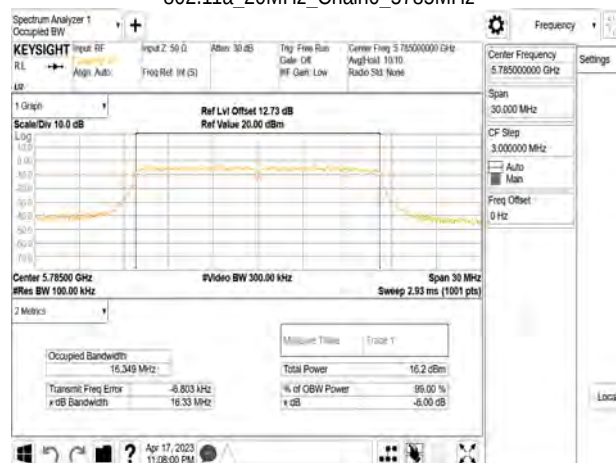
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802.11a_20MHz_Chain0_5220MHz



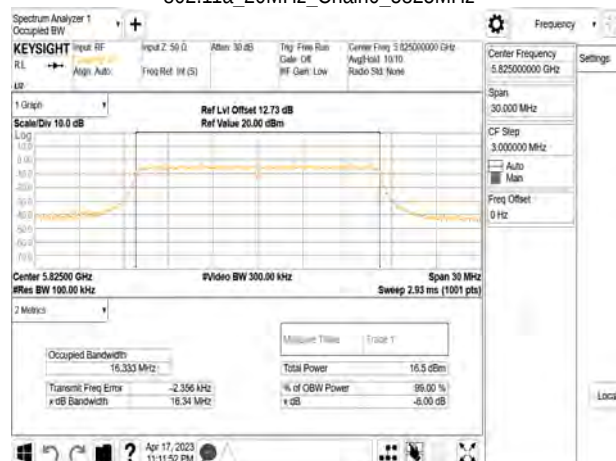
802.11a_20MHz_Chain0_5785MHz



802.11a_20MHz_Chain0_5240MHz



802.11a_20MHz_Chain0_5825MHz



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802.11a_20MHz_Chain1_5180MHz



802.11a_20MHz_Chain1_5745MHz



802.11a_20MHz_Chain1_5220MHz



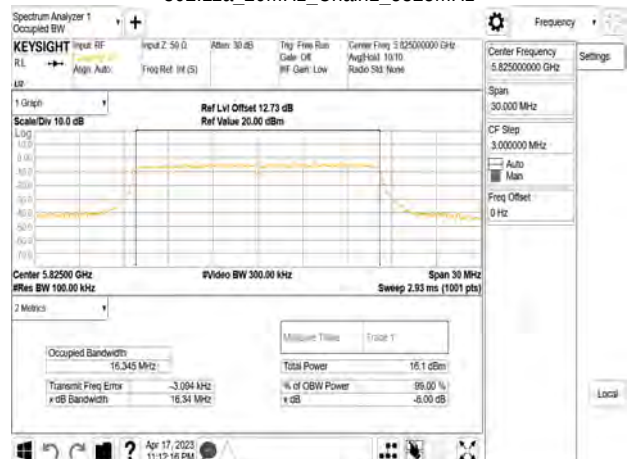
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802.11a_20MHz_Chain1_5240MHz



802.11a_20MHz_Chain1_5825MHz

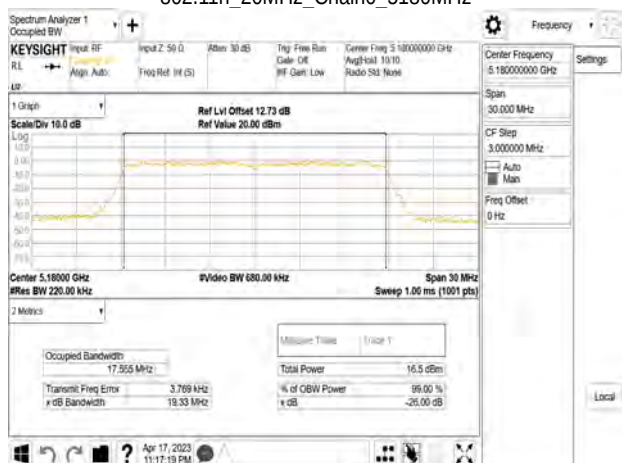


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802.11n_20MHz_Chain0_5180MHz



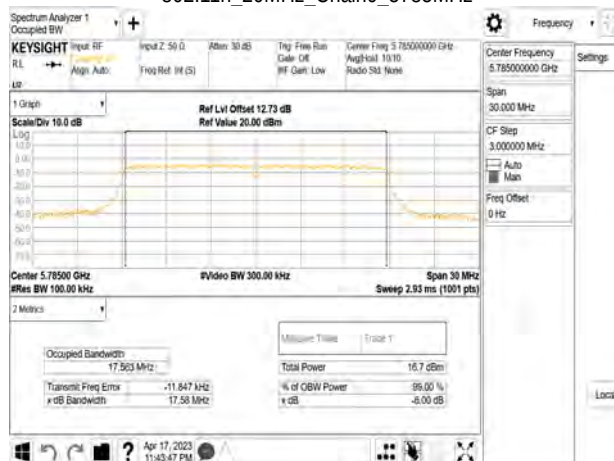
802.11n_20MHz_Chain0_5745MHz



802.11n_20MHz_Chain0_5220MHz



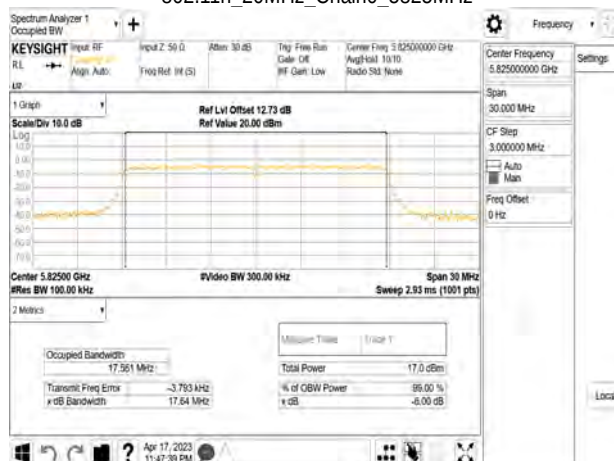
802.11n_20MHz_Chain0_5785MHz



802.11n_20MHz_Chain0_5240MHz



802.11n_20MHz_Chain0_5825MHz



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802.11n_20MHz_Chain1_5180MHz



802.11n_20MHz_Chain1_5745MHz



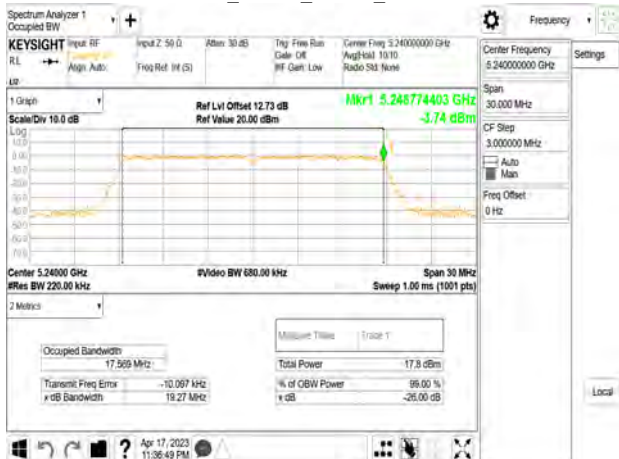
802.11n_20MHz_Chain1_5220MHz



802.11n_20MHz_Chain1_5785MHz



802.11n_20MHz_Chain1_5240MHz



802.11n_20MHz_Chain1_5825MHz

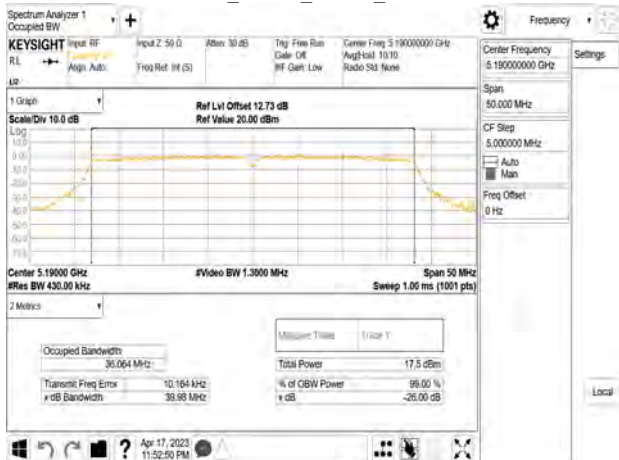


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802.11n_40MHz_Chain0_5190MHz



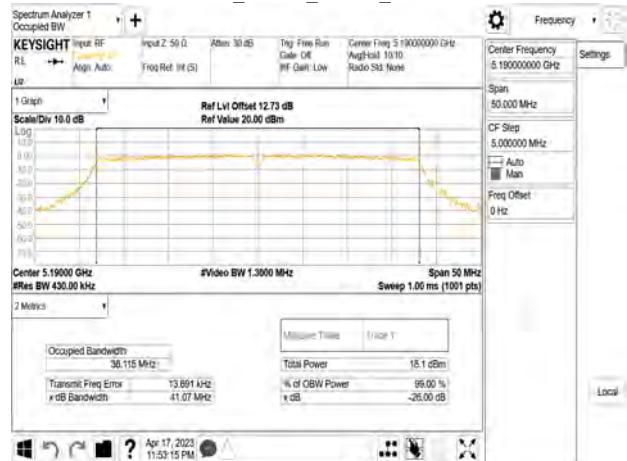
802.11n_40MHz_Chain0_5795MHz



802.11n_40MHz_Chain0_5230MHz



802.11n_40MHz_Chain1_5190MHz



802.11n_40MHz_Chain0_5755MHz



802.11n_40MHz_Chain1_5230MHz



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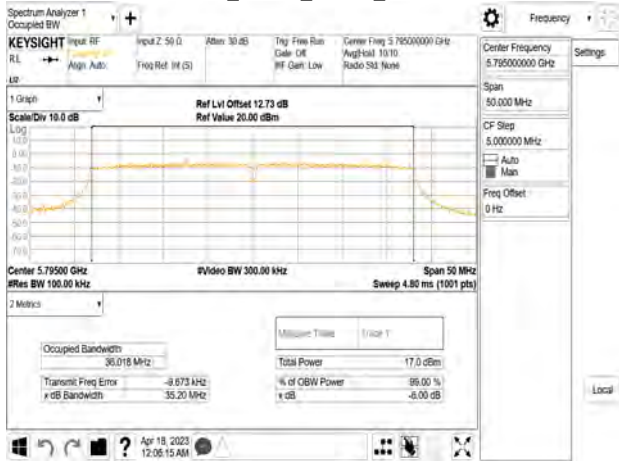
802.11n_40MHz_Chain1_5755MHz



802.11ac_80MHz_Chain0_5775MHz



802.11n_40MHz_Chain1_5795MHz



802.11ac_80MHz_Chain1_5210MHz



802.11ac_80MHz_Chain0_5210MHz



802.11ac_80MHz_Chain1_5775MHz



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9 MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

9.1 Standard Applicable

9.1.1 Duty Cycle

Pre-analysis Check: While conducting average power measurement, duty cycle of each mode shall be checked to ensure its duty cycle in order to compensate for the loss due to insufficient ratio of duty cycle.

All duty cycle is pre-scanned, and result as obtained below shows only the most representative ones where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

9.1.2 Output Power

Band	EUT CATEGORY		e-CRF Title 47 §15.407			
			Conducted Output Power	EIRP	TPC	Antenna Directional Gain Requirements
U-NII-1		Fixed point-to-point	1 Watt(30dBm)	Not required	Not required	23dBi
		Out door AP	1 Watt(30dBm)	Elevation angle above 30 degrees 125mW (21dBm)	Not required	6dBi
		Indoor AP	1 Watt(30dBm)	Not required	Not required	6dBi
	V	Other	250mW(23.98dBm)	Not required	Not required	6dBi
U-NII-2A		Other	250mW(23.98dBm) or 11dBm+10 log B	Not required	When EIRP >500mW At least 6dB below EIRP 1W (30dBm)	6dBi
U-NII-2C		Other	250mW(23.98dBm) or 11dBm+10 log B	Not required		6dBi
U-NII-3	V	Other	1 Watt(30dBm)	Not required	Not required	6dBi
		Fixed point-to-point	1 Watt(30dBm)	Not required	Not required	Not required
U-NII-4		Indoor AP (a channel spans 5725~5850 and 5850~5895MHz)	Not required	36dBm	Not required	Not required
		indoor client (a channel spans 5725~5850 and 5850~5895MHz)	Not required	30dBm	Not required	Not required
		subordinate device	Not required	36dBm	Not required	Not required

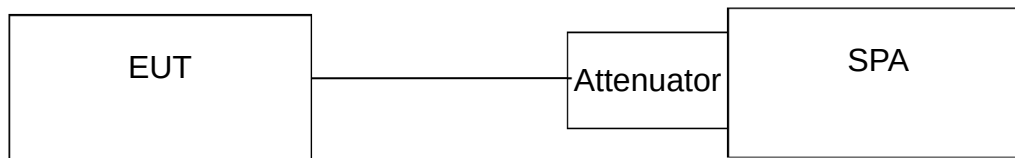
1. If transmitting antennas of directional gain greater than the antenna requirements column, the Maximum transmit power shall be reduced by the amount in dB that the direction-al gain of the antenna.
2. For the 10 log B, B is the 26 dB emission bandwidth.

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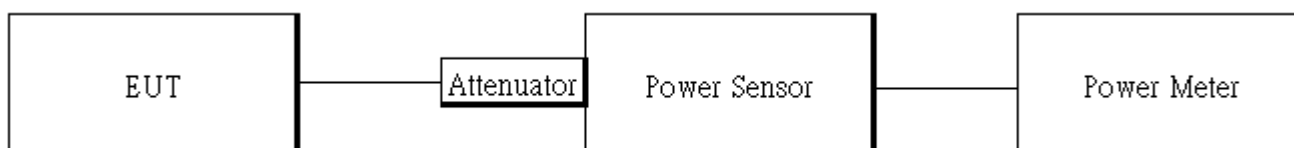
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9.2 Test Setup

9.2.1 Duty Cycle



9.2.2 Output Power



9.3 Measurement Procedure

9.3.1 Duty Cycle Measurements

1. Set span = Zero
2. RBW = 8MHz
3. VBW = 8MHz,
4. Detector = Peak

9.3.2 Output Power Measurements

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter
4. Power Meter is used as the auxiliary test equipment to conduct the output power measurement.
5. Record the max. reading and add $10 \log(1/\text{duty cycle})$.
6. Repeat above procedures until all frequency (low, middle, and high channel) measured were complete.
7. MIMO mode: offset is set with "measure and add $10 \log(N)$ " to measurement for MIMO mode. Offset = cable loss + $10 \log(N)$, where N is number of transmitting antenna, cable loss is specified below.

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Note:

As per section F. 2). e). (ii) of FCC KDB 662911 D01

If antenna gains are not equal and each transmit antenna is driven by only one spatial stream, directional gain may be calculated by either of the following formulas.

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

NSS = the number of independent spatial streams of data;

NANT = the total number of antennas

$g_{j,k}$ = / 20 10Gk if the kth antenna is being fed by spatial stream j, or zero if it is not;

G_k is the gain in dBi of the kth antenna.

The antenna gain is not greater than 6 dBi. Therefore, reduction of power is not required.

9.4 Duty Cycle Measurement Result

Mode	Duty Cycle (%) =Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
802.11a	92.14	0.36	0.48	1.00
802.11n_20	93.57	0.29	0.52	1.00
802.11ac_20	93.33	0.30	0.52	1.00
802.11n_40	87.08	0.60	1.06	2.00
802.11ac_40	88.15	0.55	1.05	2.00
802.11ac_80	72.87	1.37	2.16	3.00

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802.11ac_20MHz_Chain0_5180MHz



802.11n_20MHz_Chain0_5180MHz



802.11ac_40MHz_Chain0_5190MHz



802.11n_40MHz_Chain0_5190MHz



802.11ac_80MHz_Chain0_5210MHz



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9.5 Output Power Measurement Result

9.5.1 Output power

802.11a_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	6	60	12.94	19.659	23.98	PASS
44	5220	6	60	12.91	19.523	23.98	PASS
48	5240	6	60	12.93	19.613	23.98	PASS
149	5745	6	65	12.92	19.568	30	PASS
157	5785	6	65	12.95	19.704	30	PASS
165	5825	6	66	12.97	19.795	30	PASS

802.11a_Ch1

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	6	60	12.84	19.211	23.98	PASS
44	5220	6	60	12.79	18.991	23.98	PASS
48	5240	6	60	12.86	19.300	23.98	PASS
149	5745	6	65	12.89	19.434	30	PASS
157	5785	6	65	12.87	19.344	30	PASS
165	5825	6	66	12.80	19.035	30	PASS

802.11a_2TX

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
36	5180	6	66	12.66	12.56	15.98	39.628	23.98	PASS
44	5220	6	66	12.63	12.57	15.97	39.537	23.98	PASS
48	5240	6	66	12.59	12.66	15.99	39.719	23.98	PASS
149	5745	6	72	12.66	12.58	15.99	39.719	30	PASS
157	5785	6	72	12.61	12.53	15.94	39.264	30	PASS
165	5825	6	73	12.68	12.55	15.98	39.628	30	PASS

802.11n_HT20_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	60	12.87	19.358	23.98	PASS
44	5220	MCS0	60	12.84	19.225	23.98	PASS
48	5240	MCS0	60	12.90	19.492	23.98	PASS
149	5745	MCS0	66	12.89	19.447	30	PASS
157	5785	MCS0	66	12.76	18.874	30	PASS
165	5825	MCS0	67	12.68	18.529	30	PASS

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802.11n_HT20_Ch1

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	60	12.80	19.049	23.98	PASS
44	5220	MCS0	60	12.78	18.961	23.98	PASS
48	5240	MCS0	60	12.66	18.444	23.98	PASS
149	5745	MCS0	66	12.62	18.275	30	PASS
157	5785	MCS0	66	12.72	18.701	30	PASS
165	5825	MCS0	67	12.61	18.233	30	PASS

802.11n_HT20_2TX

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
36	5180	MCS0	68	12.68	12.61	15.94	39.264	23.98	PASS
44	5220	MCS0	68	12.58	12.54	15.86	38.548	23.98	PASS
48	5240	MCS0	68	12.69	12.66	15.97	39.537	23.98	PASS
149	5745	MCS0	73	12.73	12.63	15.98	39.628	30	PASS
157	5785	MCS0	73	12.77	12.58	15.97	39.537	30	PASS
165	5825	MCS0	74	12.84	12.54	15.99	39.719	30	PASS

802.11n_HT40_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	62	12.95	19.728	23.98	PASS
46	5230	MCS0	62	12.91	19.547	23.98	PASS
151	5755	MCS0	67	12.93	19.637	30	PASS
159	5795	MCS0	68	12.87	19.368	30	PASS

802.11n_HT40_Ch1

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	62	12.89	19.457	23.98	PASS
46	5230	MCS0	62	12.82	19.146	23.98	PASS
151	5755	MCS0	67	12.71	18.667	30	PASS
159	5795	MCS0	68	12.68	18.539	30	PASS

802.11n_HT40_2TX

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
38	5190	MCS0	70	12.43	12.31	15.98	39.628	23.98	PASS
46	5230	MCS0	70	12.39	12.32	15.97	39.537	23.98	PASS
151	5755	MCS0	75	12.41	12.22	15.93	39.174	30	PASS
159	5795	MCS0	76	12.43	12.15	15.90	38.905	30	PASS

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802.11ac_VHT20_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	60	12.85	19.274	23.98	PASS
44	5220	MCS0	60	12.73	18.749	23.98	PASS
48	5240	MCS0	60	12.80	19.054	23.98	PASS
149	5745	MCS0	66	12.77	18.923	30	PASS
157	5785	MCS0	66	12.74	18.792	30	PASS
165	5825	MCS0	67	12.67	18.492	30	PASS

802.11ac_VHT20_Ch1

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	60	12.79	19.010	23.98	PASS
44	5220	MCS0	60	12.70	18.620	23.98	PASS
48	5240	MCS0	60	12.63	18.322	23.98	PASS
149	5745	MCS0	66	12.60	18.196	30	PASS
157	5785	MCS0	66	12.67	18.492	30	PASS
165	5825	MCS0	67	12.61	18.238	30	PASS

802.11ac_VHT20_2TX

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
36	5180	MCS0	68	12.65	12.59	15.93	39.174	23.98	PASS
44	5220	MCS0	68	12.54	12.5	15.83	38.282	23.98	PASS
48	5240	MCS0	68	12.67	12.63	15.96	39.446	23.98	PASS
149	5745	MCS0	73	12.71	12.57	15.95	39.355	30	PASS
157	5785	MCS0	73	12.73	12.57	15.96	39.446	30	PASS
165	5825	MCS0	74	12.8	12.5	15.96	39.446	30	PASS

802.11ac_VHT40_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	62	12.92	19.578	23.98	PASS
46	5230	MCS0	62	12.84	19.221	23.98	PASS
151	5755	MCS0	67	12.85	19.265	30	PASS
159	5795	MCS0	68	12.79	19.001	30	PASS

802.11ac_VHT40_Ch1

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	62	12.66	18.441	23.98	PASS
46	5230	MCS0	62	12.69	18.569	23.98	PASS
151	5755	MCS0	67	12.60	18.188	30	PASS
159	5795	MCS0	68	12.59	18.146	30	PASS

802.11ac_VHT40_2TX

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
38	5190	MCS0	70	12.44	12.28	15.92	39.084	23.98	PASS
46	5230	MCS0	70	12.36	12.39	15.93	39.174	23.98	PASS
151	5755	MCS0	75	12.46	12.28	15.93	39.174	30	PASS
159	5795	MCS0	76	12.39	12.17	15.84	38.371	30	PASS

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802.11ac_VHT80_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	52	10.73	11.843	23.98	PASS
155	5775	MCS0	57	10.95	12.458	30	PASS

802.11ac_VHT80_Ch1

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	52	10.69	11.734	23.98	PASS
155	5775	MCS0	59	10.80	12.035	30	PASS

802.11ac_VHT80_2TX

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
42	5210	MCS0	58	9.67	9.51	13.98	25.003	23.98	PASS
155	5775	MCS0	63	9.66	9.52	13.98	25.003	30	PASS

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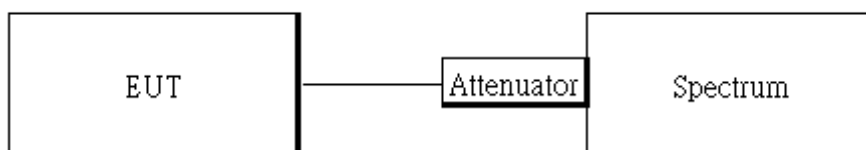
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10 MAXIMUM POWER SPECTRAL DENSITY

10.1 Standard Applicable

Operation Bands	EUT CATEGORY		e-CRF Title 47 §15.407 Power Spectral Density	Antenna Directional Gain Requirements
U-NII-1		Outdoor Access Point (Master)	1. 17dBm/ MHz 2. EIRP<=125mW(21dBm) at any elevation angle > 30°	6dBi
		Indoor Access Point (Master)	17dBm / MHz	6dBi
		Fixed point-to-point Access Point	17dBm / MHz	23dBi
	V	Client device	11dBm / MHz	6dBi
U-NII-2A		All	11dBm / MHz	6dBi
U-NII-2C		All	11dBm / MHz	6dBi
U-NII-3	V	All	30dBm / 500kHz	6dBi
U-NII-4		Indoor AP	20dBm / MHz e.i.r.p.	Not required
		indoor client	14dBm / MHz e.i.r.p.	Not required
		subordinate device	20dBm / MHz e.i.r.p.	Not required
If transmitting antennas of directional gain greater than the antenna requirements column, the Maximum transmit power shall be reduced by the amount in dB that the direction-al gain of the antenna.				

10.2 Test Setup



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10.3 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to Spectrum.
4. **For U-NII1, U-NII-2A, U-NII-2C Band:**
Set RBW=1MHz, VBW=3MHz, where span is enough to capture the entire bandwidth, Sweep time = Auto (1001 pts), Detector = power averaging (rms), if available. Otherwise, use sample detector mode, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)
For U-NII-3 Band:
Set RBW=300kHz, VBW=1MHz, where span is enough to capture the entire bandwidth, Sweep time = Auto, detector = RMS or sample, traces 100 sweeps of video averaging.
In addition, measurement bandwidth of Maximum PSD is specified in 500 kHz, add 10 log (500 kHz/RBW) to the measured result.
5. Use the cursor on spectrum to peak search the highest level of trace
6. Record the max. reading and add 10 log(1/duty cycle).
7. Repeat above procedures until all default test channel (low, middle, and high) was complete.

Note: For the test of PSD at MIMO mode, the highest emission of worst case employing Measure and add 10 log (N) technical is reported after the comparison between Main Antenna at single transmitting mode and Aux that yields the higher value. The MIMO transmitting mode produces higher value of outcome.

Note:

As per section F. 2). e). (ii) of FCC KDB 662911 D01

If antenna gains are not equal and each transmit antenna is driven by only one spatial stream, directional gain may be calculated by either of the following formulas.

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

NSS = the number of independent spatial streams of data;

NANT = the total number of antennas

$g_{j,k}$ = / 20 10Gk if the kth antenna is being fed by spatial stream j, or zero if it is not;

G_k is the gain in dBi of the kth antenna.

The antenna gain is not greater than 6 dBi. Therefore, reduction of power is not required.

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10.4 Measurement Result

POWER DENSITY 802.11a MODE							
Frequency (MHz)	Ch0 meas PSD (dBm/MHz)	Ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5180	-0.032	0.838	0.36	3.80		11.00 dBm/MHz	-7.20
5220	0.791	1.478	0.36	4.52		11.00 dBm/MHz	-6.48
5240	0.853	1.110	0.36	4.35		11.00 dBm/MHz	-6.65
Frequency (MHz)	Ch0 meas PSD (dBm/300kHz)	Ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Total Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5745	-3.194	-3.493	0.36	2.22	2.25	30.00 dBm/500kHz	-27.75
5785	-4.933	-5.045	0.36	2.22	0.60	30.00 dBm/500kHz	-29.40
5825	-5.054	-5.318	0.36	2.22	0.41	30.00 dBm/500kHz	-29.59
POWER DENSITY 802.11n HT20 MODE							
Frequency (MHz)	Ch0 meas PSD (dBm/MHz)	Ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5180	0.029	0.921	0.29	3.80		11.00 dBm/MHz	-7.20
5220	0.356	0.968	0.29	3.97		11.00 dBm/MHz	-7.03
5240	1.162	1.163	0.29	4.46		11.00 dBm/MHz	-6.54
Frequency (MHz)	Ch0 meas PSD (dBm/300kHz)	Ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Total Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5745	-3.568	-3.899	0.29	2.22	1.79	30.00 dBm/500kHz	-28.21
5785	-5.335	-5.522	0.29	2.22	0.09	30.00 dBm/500kHz	-29.91
5825	-5.292	-5.554	0.29	2.22	0.10	30.00 dBm/500kHz	-29.90
POWER DENSITY 802.11n HT40 MODE							
Frequency (MHz)	Ch0 meas PSD (dBm/MHz)	Ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5190	-2.575	-1.696	0.60	1.50		11.00 dBm/MHz	-9.50
5230	-1.804	-1.808	0.60	1.80		11.00 dBm/MHz	-9.20
Frequency (MHz)	Ch0 meas PSD (dBm/300kHz)	Ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Total Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5755	-6.361	-6.796	0.60	2.22	-0.74	30.00 dBm/500kHz	-30.74
5795	-8.316	-8.464	0.60	2.22	-2.56	30.00 dBm/500kHz	-32.56
POWER DENSITY 802.11ac VHT80 MODE							
Frequency (MHz)	Ch0 meas PSD (dBm/MHz)	Ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5210	-8.764	-8.048	1.37	-4.01		11.00 dBm/MHz	-15.01
Frequency (MHz)	Ch0 meas PSD (dBm/300kHz)	Ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Total Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5775	-12.710	-13.887	1.37	2.22	-6.66	30.00 dBm/500kHz	-36.66

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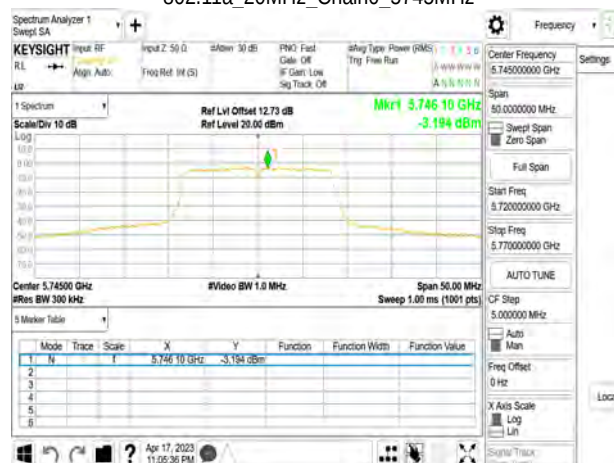
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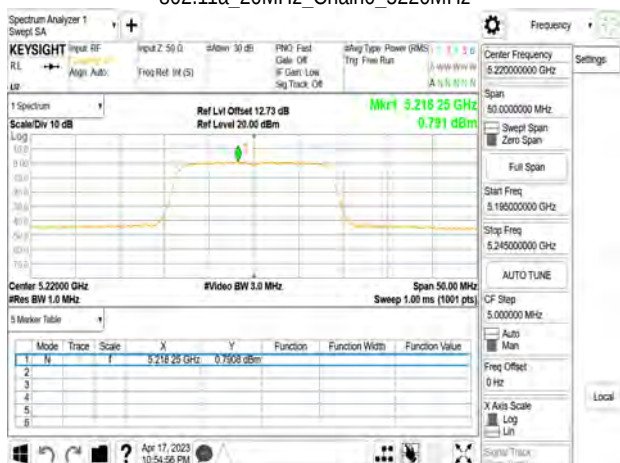
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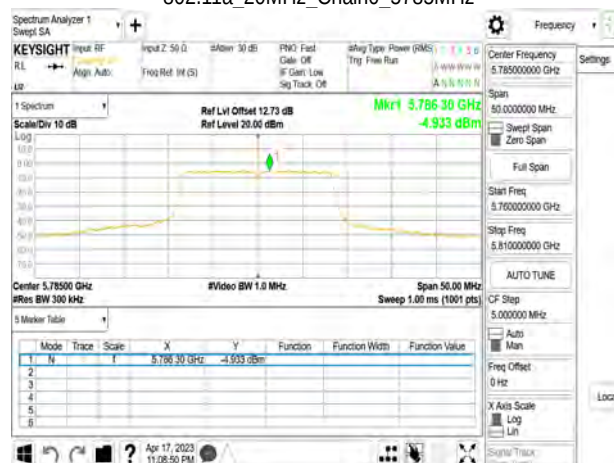
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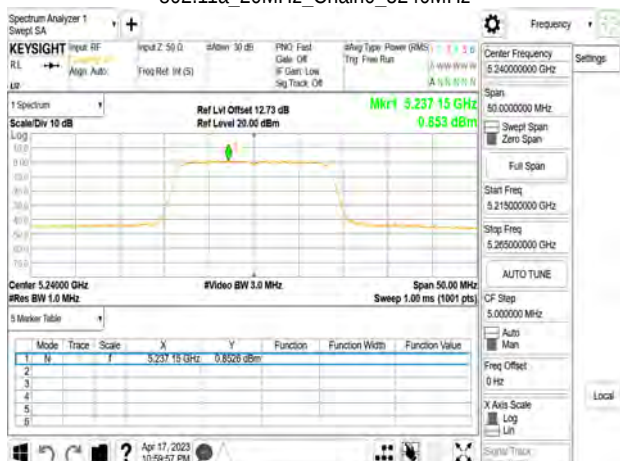
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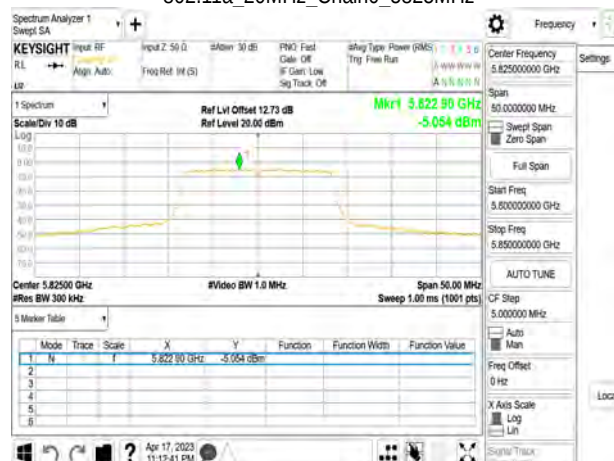
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802.11a_20MHz_Chain0_5240MHz



802.11a_20MHz_Chain0_5825MHz

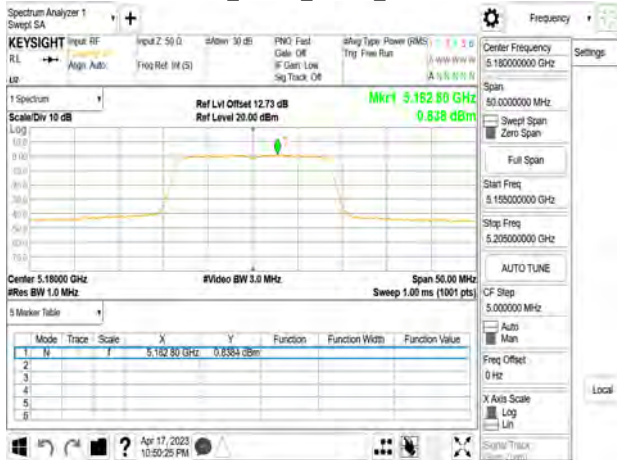


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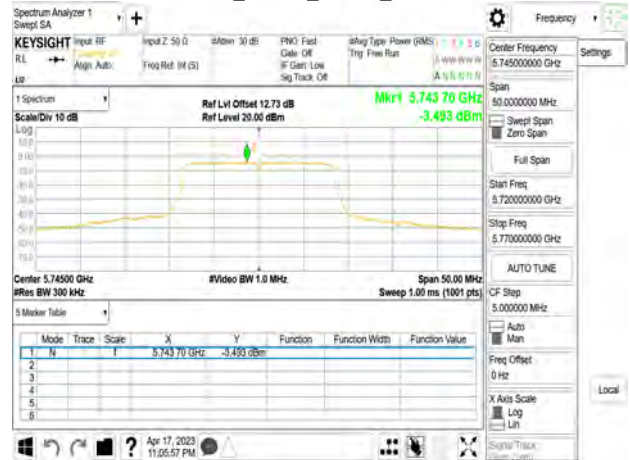
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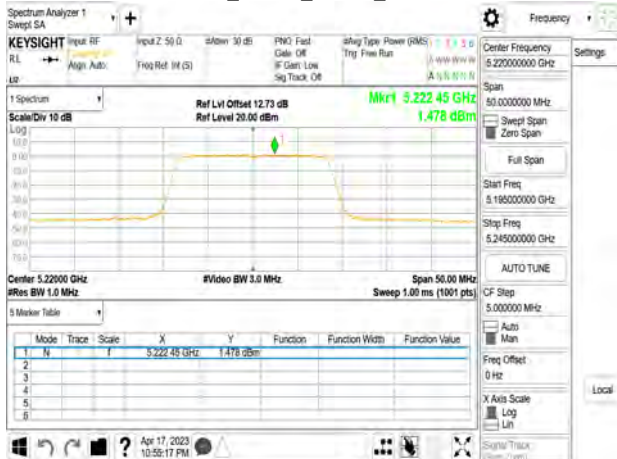
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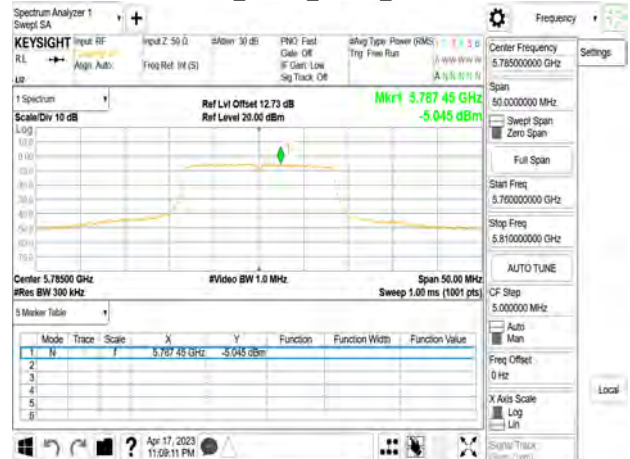
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802.11a_20MHz_Chain1_5220MHz



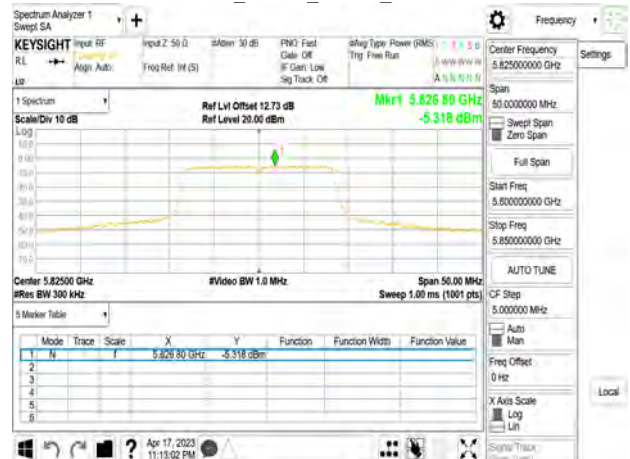
802.11a_20MHz_Chain1_5785MHz



802.11a_20MHz_Chain1_5240MHz



802.11a_20MHz_Chain1_5825MHz



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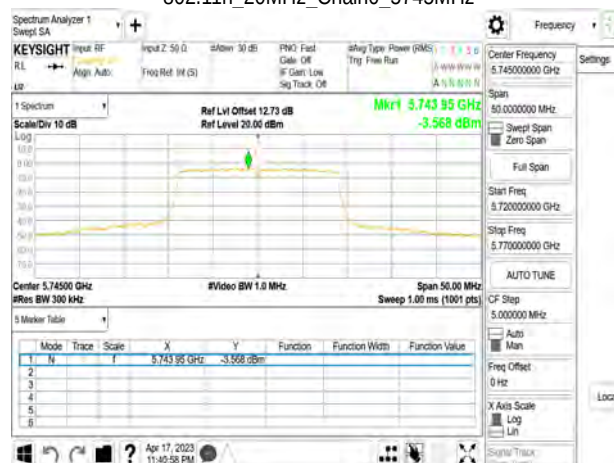
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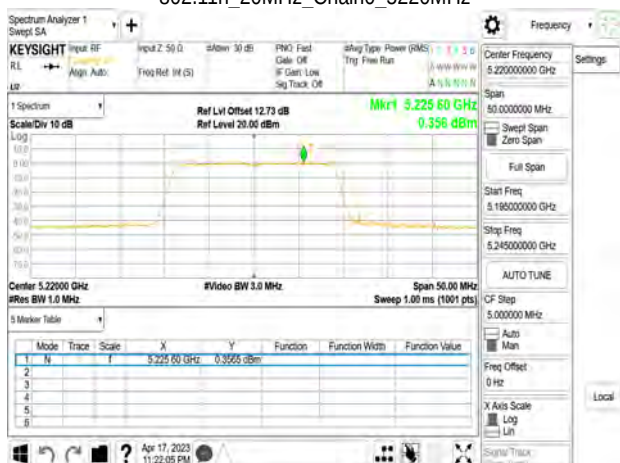
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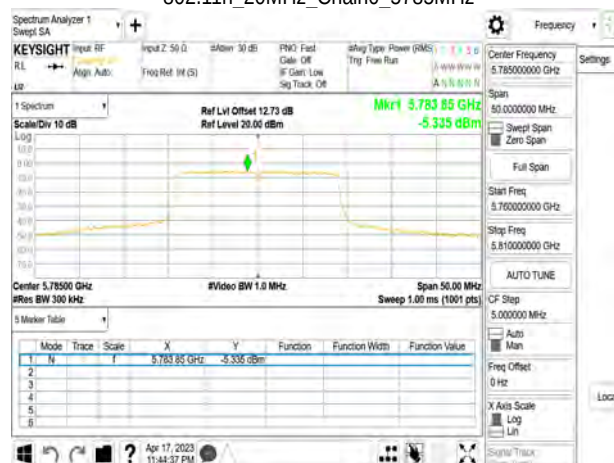
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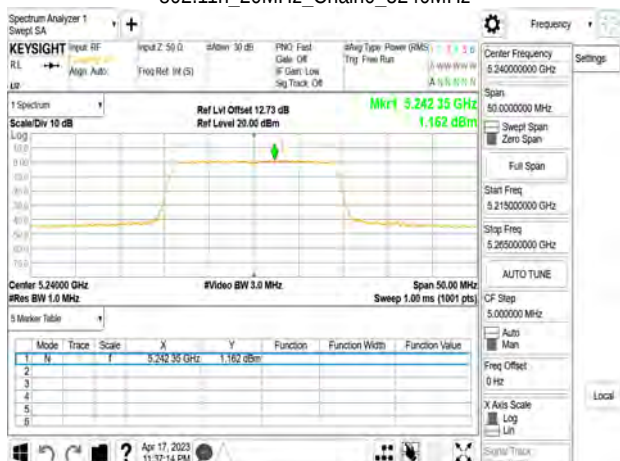
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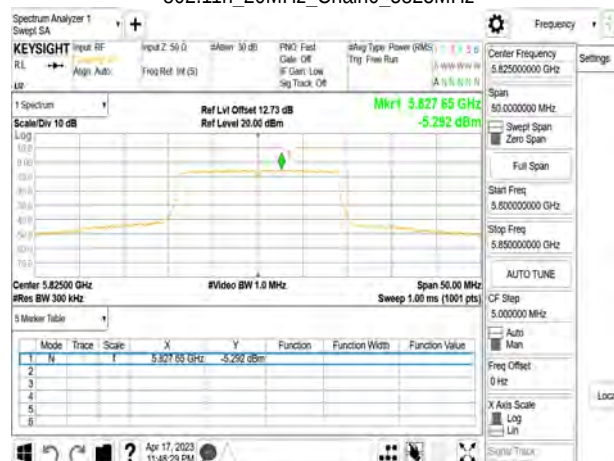
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802.11n_20MHz_Chain0_5240MHz



802.11n_20MHz_Chain0_5825MHz

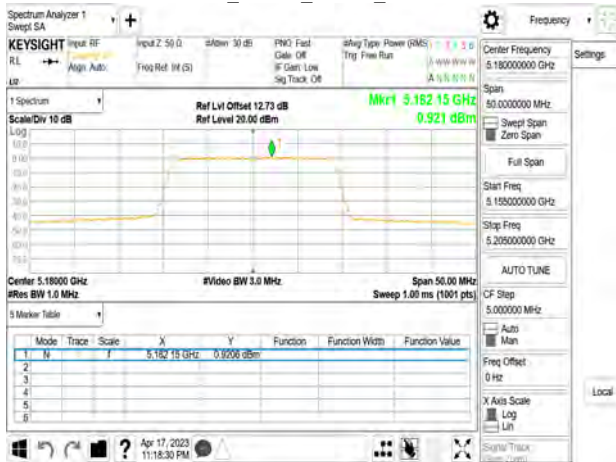


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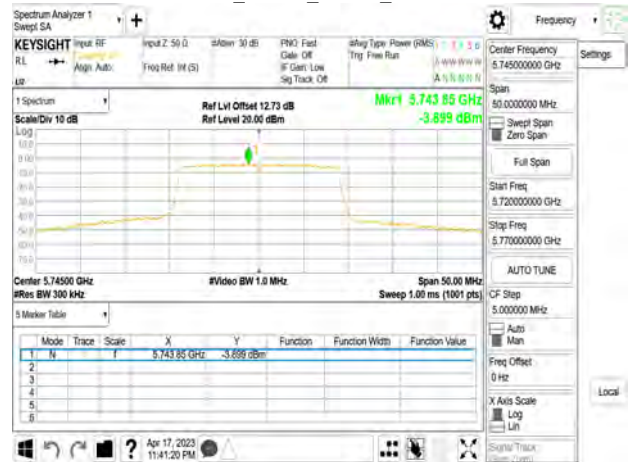
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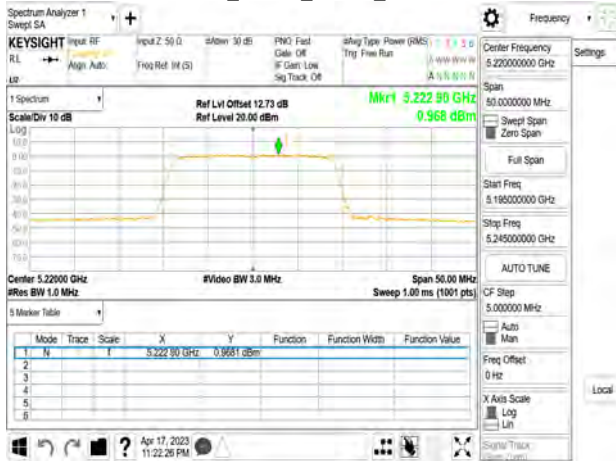
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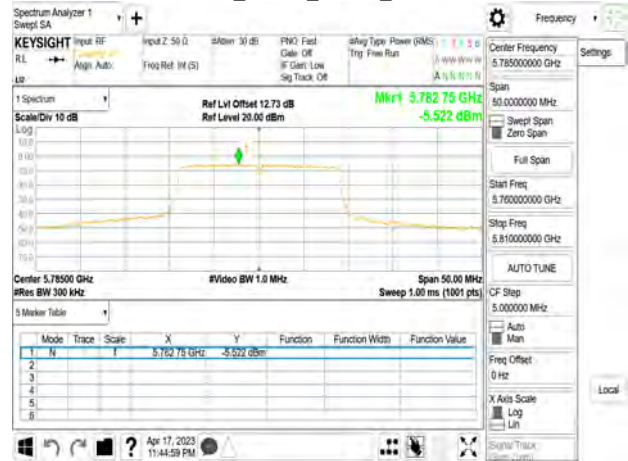
802.11n_20MHz_Chain1_5745MHz



802.11n_20MHz_Chain1_5220MHz



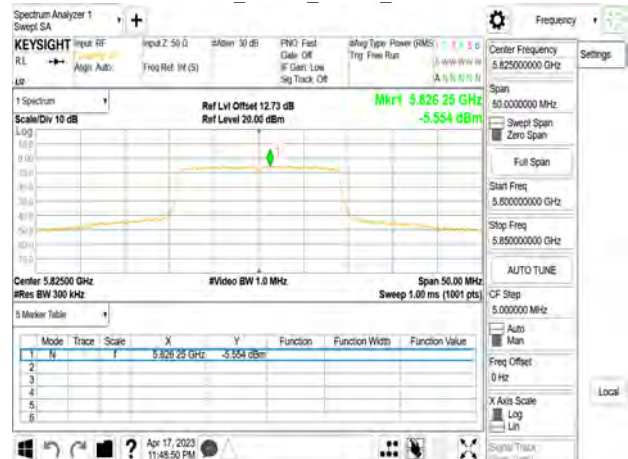
802.11n_20MHz_Chain1_5785MHz



802.11n_20MHz_Chain1_5240MHz



802.11n_20MHz_Chain1_5825MHz

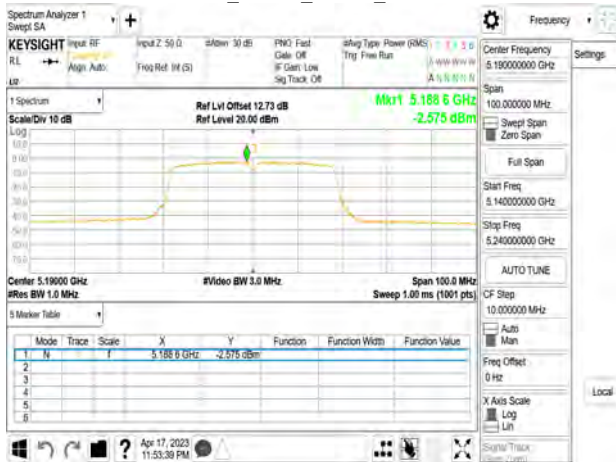


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802.11n_40MHz_Chain0_5190MHz



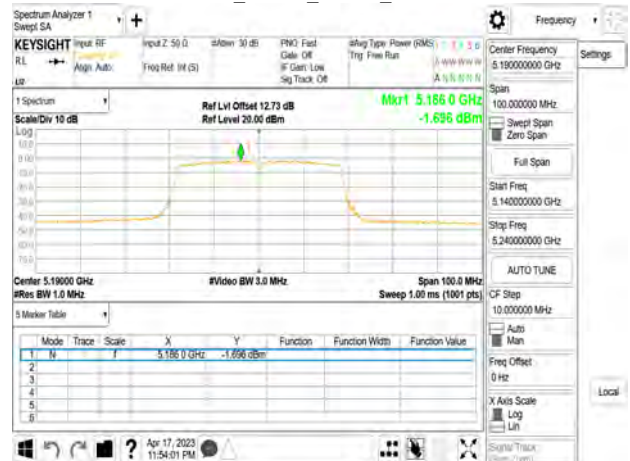
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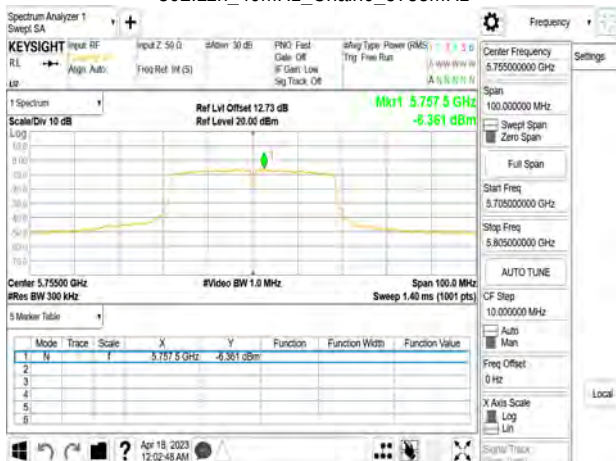
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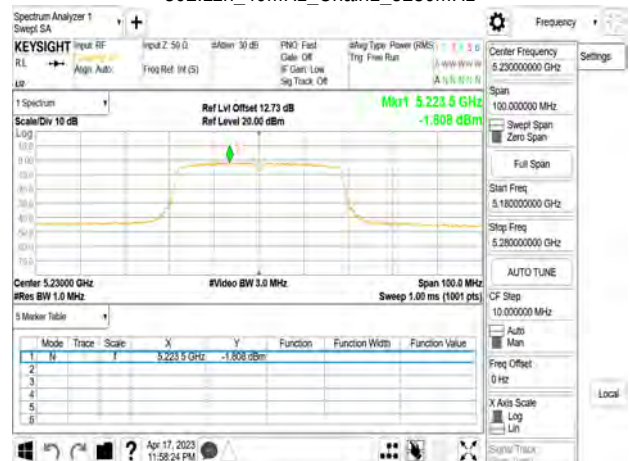
802.11n_40MHz_Chain1_5190MHz



802.11n_40MHz_Chain0_5755MHz



802.11n_40MHz_Chain1_5230MHz

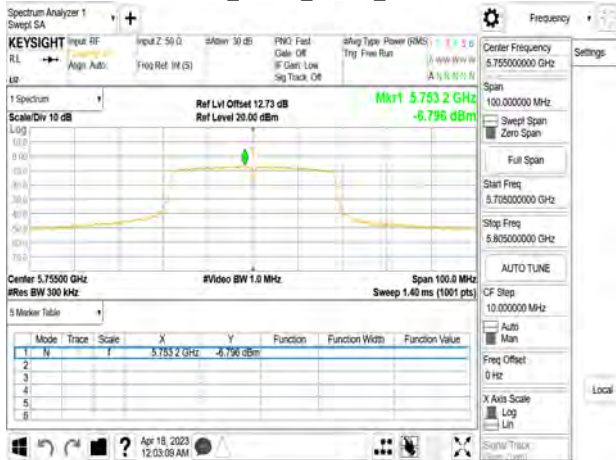


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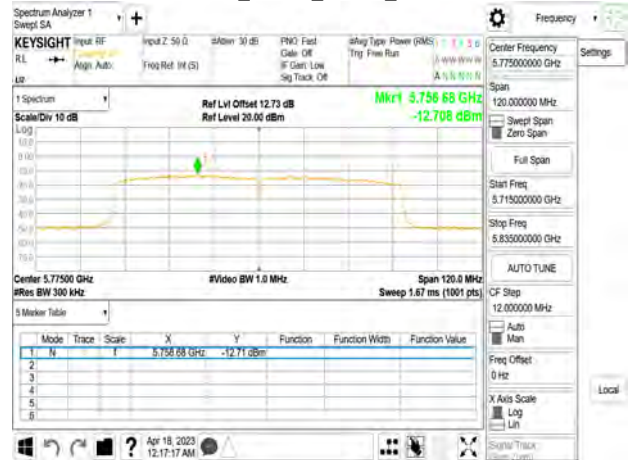
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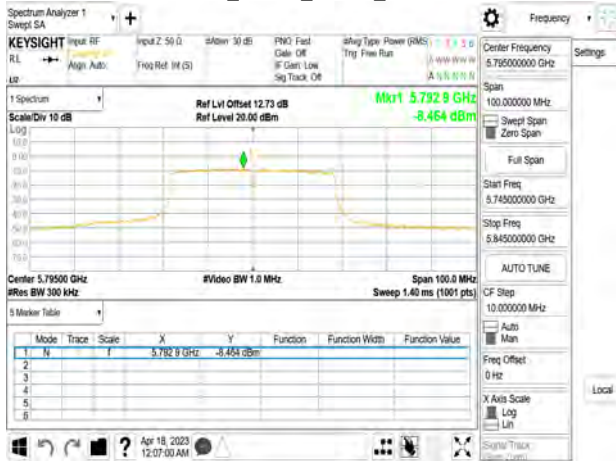
802.11n_40MHz_Chain1_5755MHz



802.11ac_80MHz_Chain0_5775MHz



802.11n_40MHz_Chain1_5795MHz



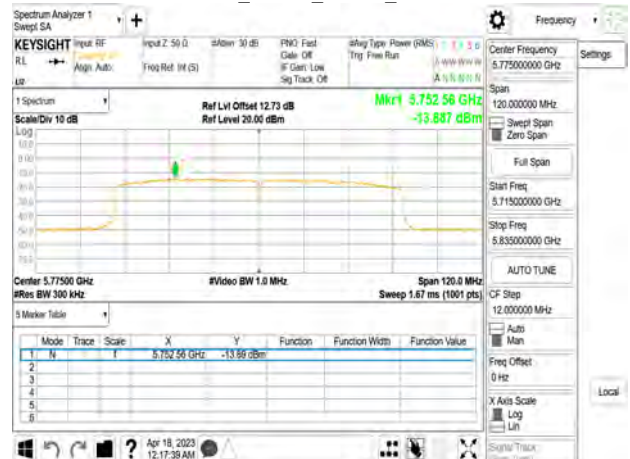
802.11ac_80MHz_Chain1_5210MHz



802.11ac_80MHz_Chain0_5210MHz



802.11ac_80MHz_Chain1_5775MHz



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11 UNDESIRABLE RADIATED EMISSION MEASUREMENT

11.1 Standard Applicable

$EIRP = (E^2 \cdot d^2) / 30$, where E is the field strength in V/m, d is the measurement distance (3m), $EIRP$ is the equivalent isotropically radiated power in Watts.

11.1.1 5150~5850 MHz

Applicable to	Operation Freq. (MHz)	EIRP		Field Strength @ 3m (dBμV/m)
		Freq. (MHz)	Limits (dBm/MHz)	
15.407(b)(1) RSS-247 §6.2.1.2	5150~5250	$f \leq 5150$ $f \geq 5350$	PK: -27	PK: 68.2
15.407(b)(2) RSS-247 §6.2.2.2	5250~5350			
15.407(b)(3) RSS-247 §6.2.3.2	5475~5725	$f \leq 5470$ $f \geq 5725$		
15.407(b)(4)(i) RSS-247 §6.2.4.2	5725~5850	at 75 MHz or more above or below the band edge	PK:-27	PK: 68.2
		increasing linearly from 75~25MHz above or below the band edge	PK:-27~10	PK: 68.2~105.2
		increasing linearly from 25~5MHz above or below the band edge	PK:10~15.6	PK: 105.2~110.8
		increasing linearly from 5~0 MHz above or below the band edge	PK: 15.6~27	PK:110.8~122.2

11.1.2 Spurious Emission

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

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

Note:

- The lower limit shall apply at the transition frequencies.

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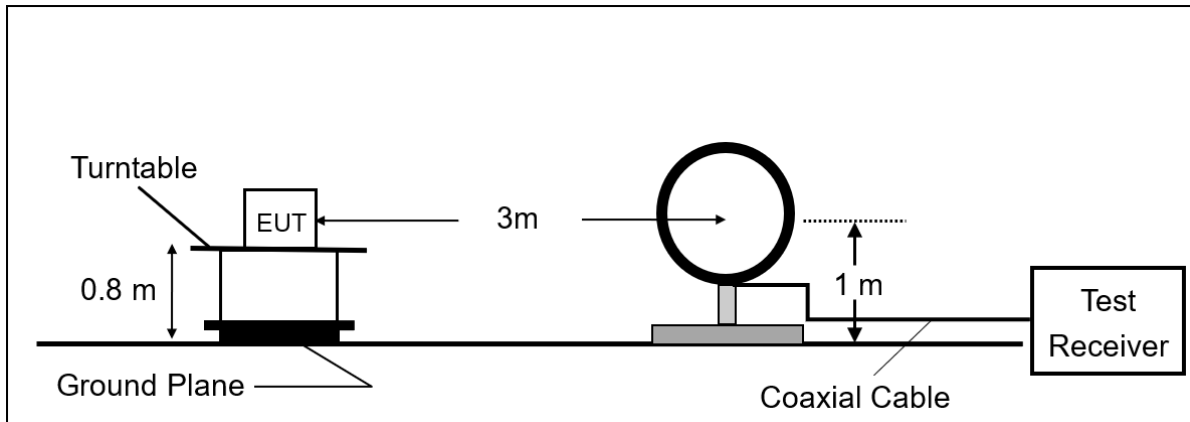
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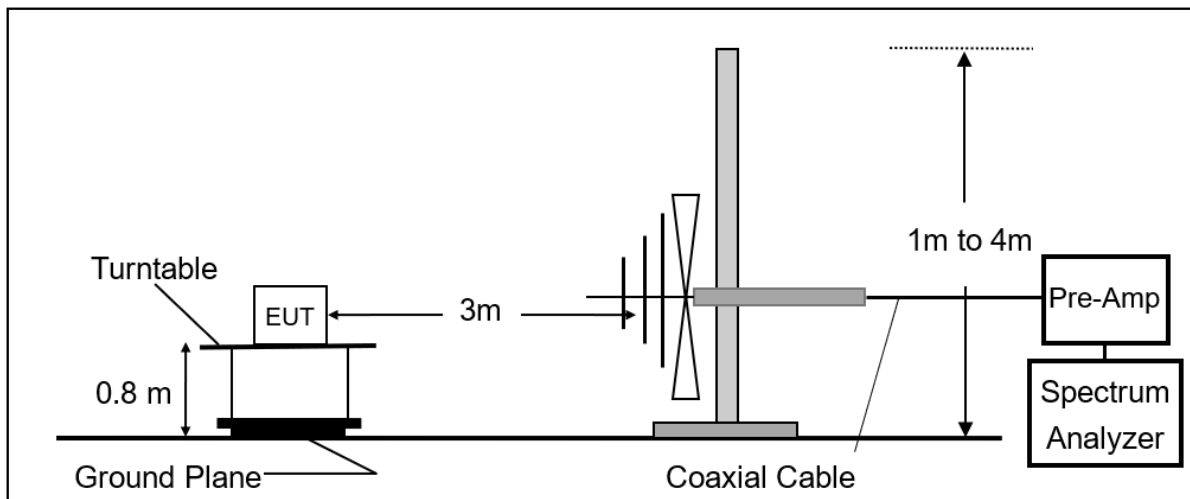
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11.2 Test Setup

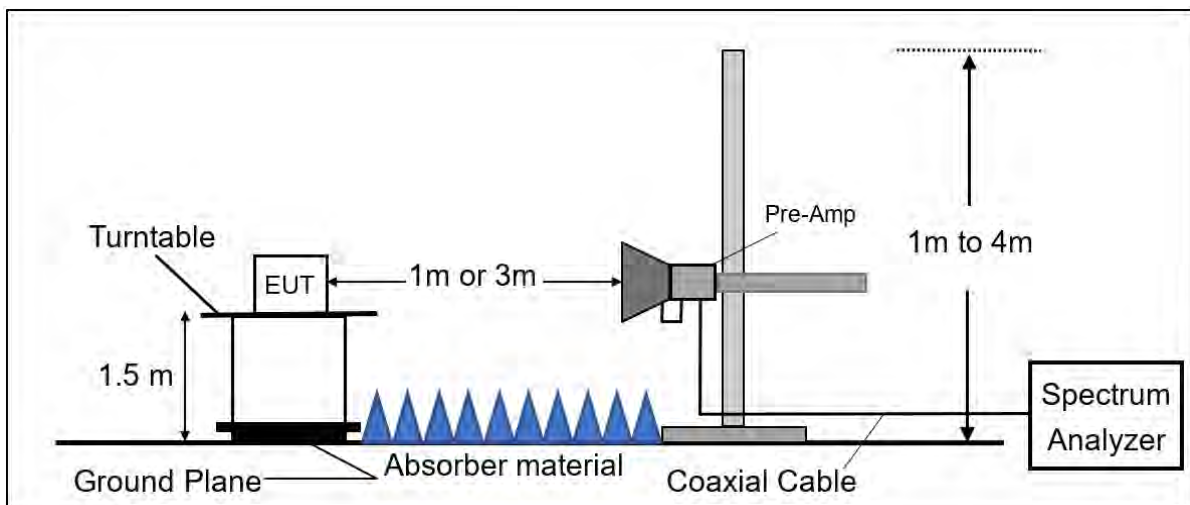
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



(B) Radiated Emission Test Set-Up, Frequency From 30MHz to 1000MHz



(C) Radiated Emission Test Set-Up, Frequency Above 1GHz



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11.3 Measurement Procedure

1. The testing follows FCC KDB 789033 D02.
2. The EUT was placed on a turn table with 0.8m for frequency < 1GHz and 1.5m for frequency > 1GHz above ground plane.
3. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
4. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
5. Set the spectrum analyzer as RBW=100 kHz and VBW=300 kHz for Peak Detector (PK) at frequency between 30MHz and 1 GHz
6. Use receiver mode as RBW=120 kHz for Quasi-peak (QP) at frequency between 30MHz and 1 GHz.
7. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Maximum Emission Measurements at frequency above 1 GHz.
8. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW $\geq 1/T$ (Duty cycle < 98%) for Average Emission Measurements at frequency above 1 GHz.
9. When measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.
10. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
11. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
12. Repeat above procedures until all frequency measured were complete.

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11.4 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where *FS* = Field Strength

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

The limit of the emission level is expressed in dBuV/m, which converts $20 \cdot \log(uV/m)$

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

11.5 Test Results of Radiated Spurious Emissions from 9 kHz to 30 MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit per 15.31(o) was not reported.

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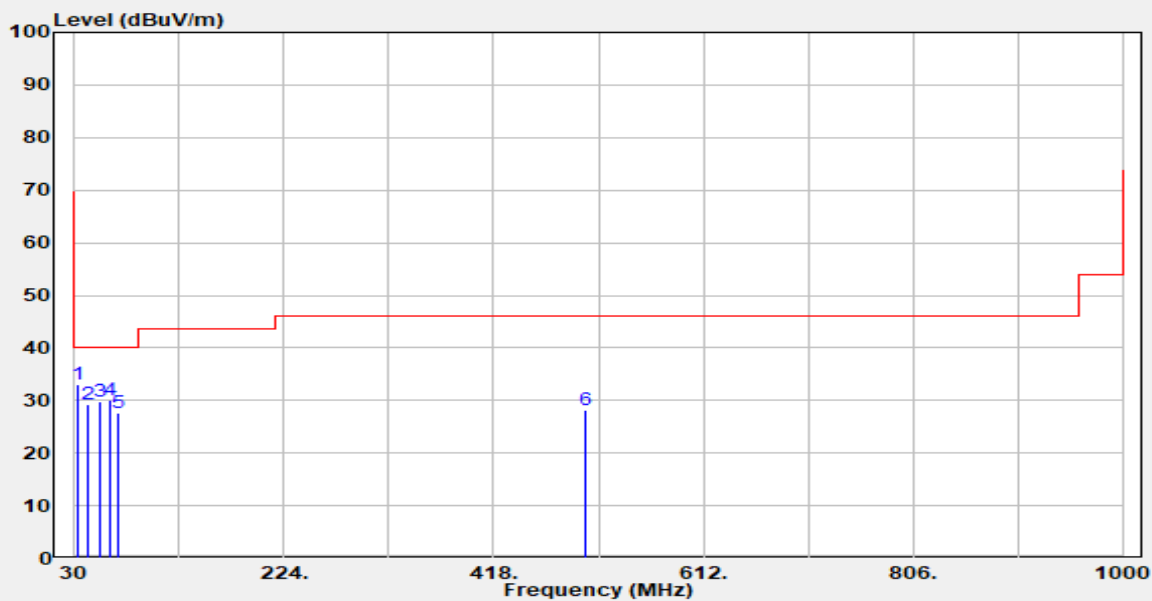
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11.6 Radiated Spurious Emission Measurement Result

11.6.1 Spurious Emission

Report Number :TERF2303000790ER
 Operation Mode :802.11a
 Test Frequency :5220 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-04-21
 Temp./Humi. :23.6/62
 Antenna Pol. :VERTICAL
 Engineer :WJ Lin



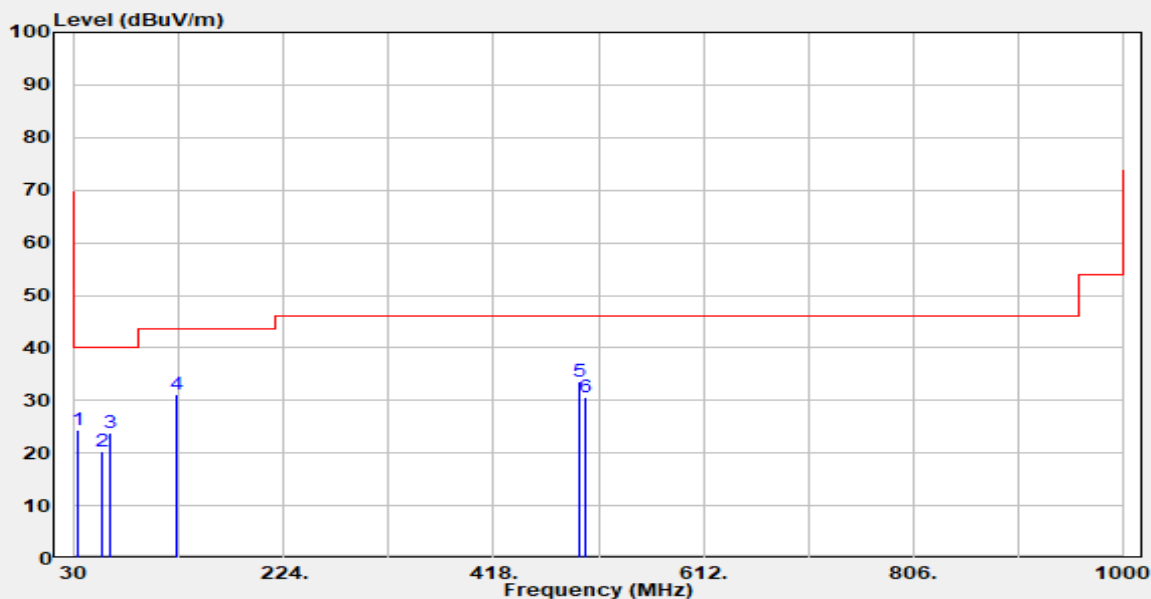
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
32.910	QP	40.24	-7.24	33.00	40.00	-7.00
42.610	Peak	41.57	-12.31	29.26	40.00	-10.74
53.280	Peak	46.73	-16.99	29.74	40.00	-10.26
62.980	Peak	48.36	-18.35	30.01	40.00	-9.99
70.740	Peak	45.77	-18.08	27.68	40.00	-12.32
503.360	Peak	33.45	-5.16	28.29	46.00	-17.71

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Report Number :TERF2303000790ER
 Operation Mode :802.11a
 Test Frequency :5220 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-04-21
 Temp./Humi. :23.6/62
 Antenna Pol. :HORIZONTAL
 Engineer :WJ Lin



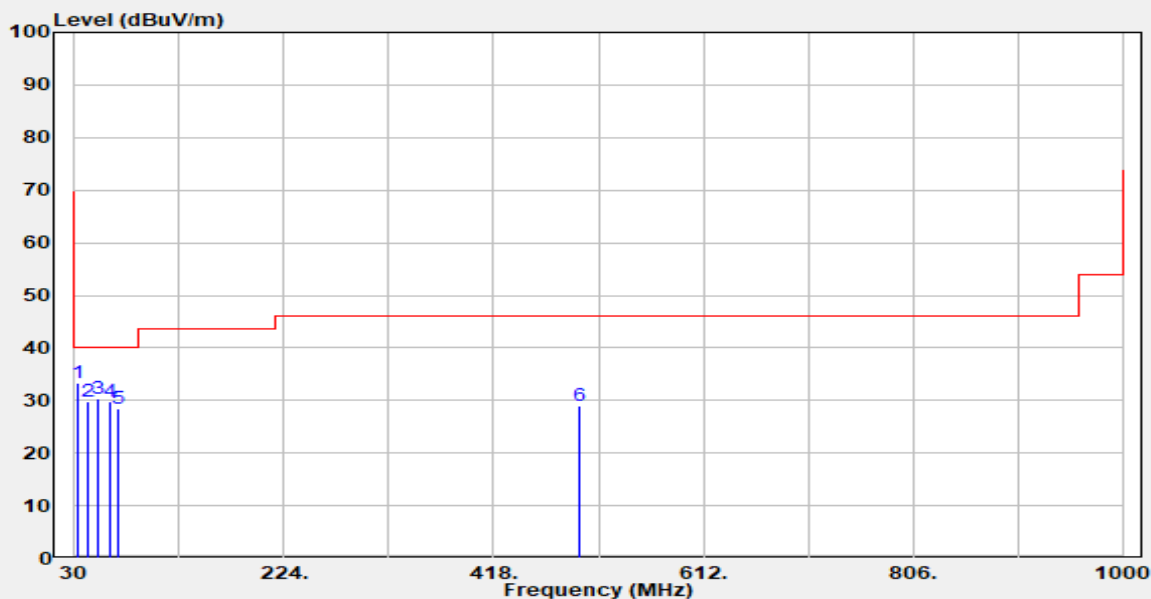
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
33.880	Peak	32.16	-7.65	24.51	40.00	-15.49
56.190	Peak	37.90	-17.62	20.28	40.00	-19.72
62.980	Peak	42.16	-18.35	23.81	40.00	-16.19
124.090	Peak	42.85	-11.76	31.09	43.50	-12.41
496.570	Peak	38.71	-5.15	33.56	46.00	-12.44
503.360	Peak	35.91	-5.16	30.75	46.00	-15.25

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Report Number :TERF2303000790ER
Operation Mode :802.11a
Test Frequency :5785 MHz
Test Mode :Tx
EUT Pol :H Plane

Test Site :SAC 1
Test Date :2023-04-21
Temp./Humi. :23.6/62
Antenna Pol. :VERTICAL
Engineer :WJ Lin



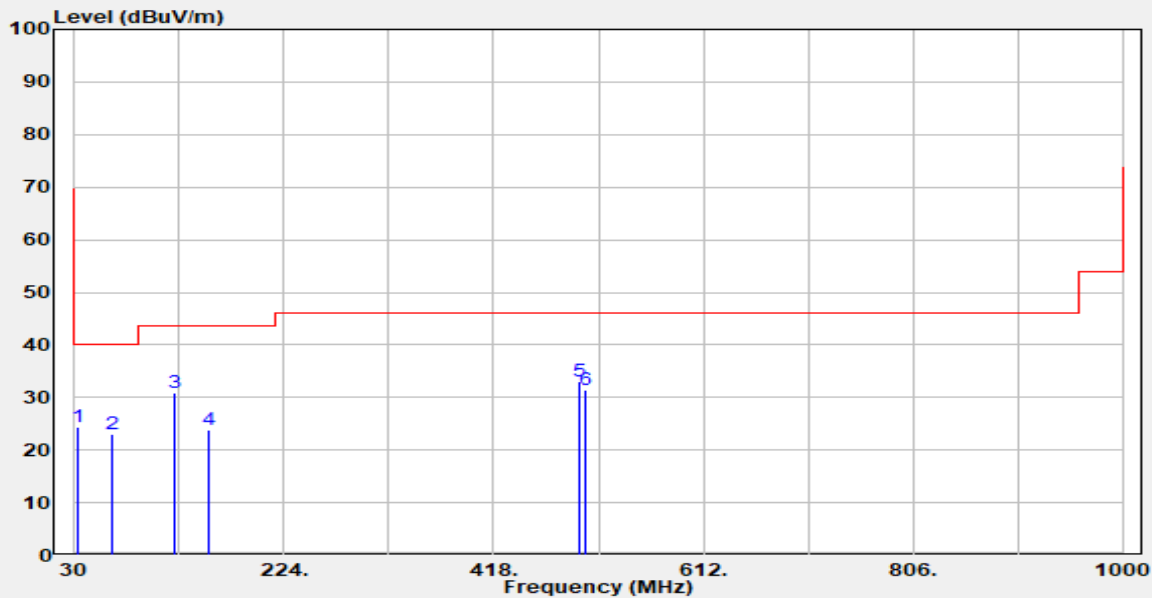
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
32.910	QP	40.45	-7.24	33.21	40.00	-6.79
41.640	Peak	41.75	-11.89	29.86	40.00	-10.14
52.310	Peak	47.17	-16.77	30.40	40.00	-9.60
62.980	Peak	48.27	-18.35	29.92	40.00	-10.08
70.740	Peak	46.50	-18.08	28.42	40.00	-11.58
496.570	Peak	34.02	-5.15	28.87	46.00	-17.13

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Report Number :TERF2303000790ER
 Operation Mode :802.11a
 Test Frequency :5785 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-04-21
 Temp./Humi. :23.6/62
 Antenna Pol. :HORIZONTAL
 Engineer :WJ Lin



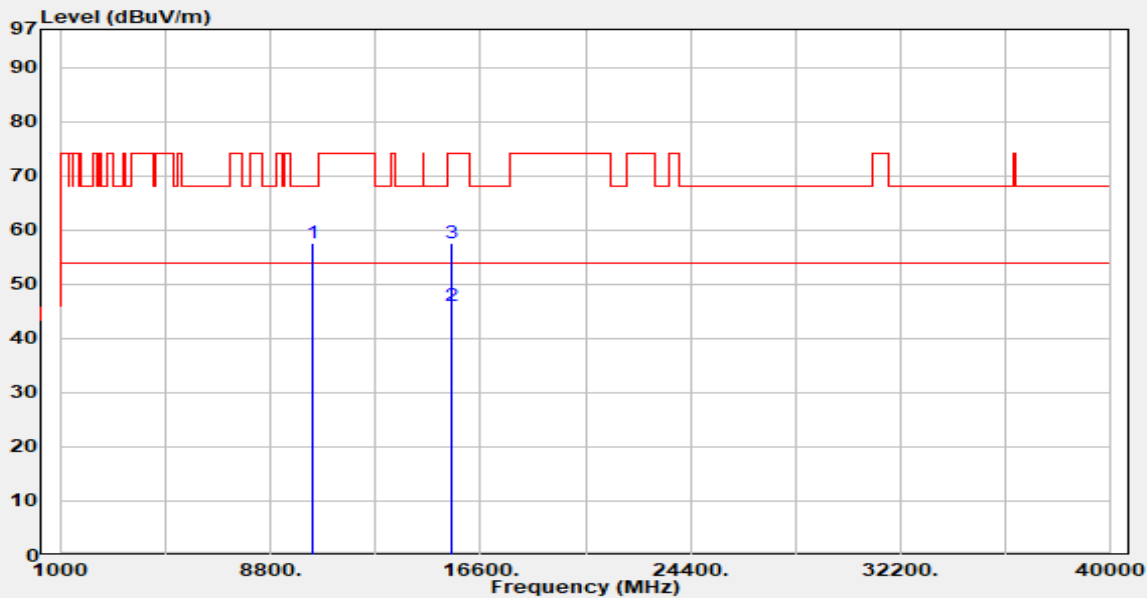
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
33.880	Peak	32.11	-7.65	24.46	40.00	-15.54
63.950	Peak	41.28	-18.17	23.11	40.00	-16.89
123.120	Peak	42.57	-11.70	30.87	43.50	-12.63
154.160	Peak	37.23	-13.26	23.98	43.50	-19.52
496.570	Peak	38.28	-5.15	33.13	46.00	-12.87
503.360	Peak	36.53	-5.16	31.36	46.00	-14.64

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Report Number :TERF2303000790ER
Operation Mode :802.11a
Test Frequency :5180 MHz
Test Mode :Tx
EUT Pol :H Plane

Test Site :SAC 1
Test Date :2023-04-21
Temp./Humi. :23.6/62
Antenna Pol. :Vertical
Engineer :WJ Lin



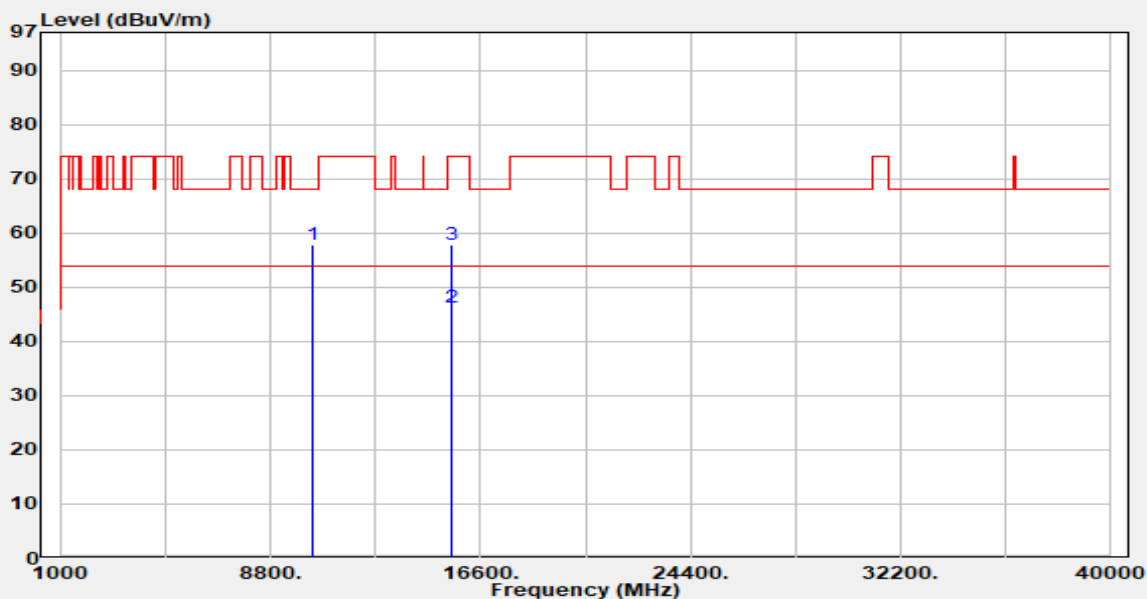
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10360.000	Peak	37.12	20.51	57.63	68.20	-10.57
15540.000	Average	24.14	21.97	46.11	54.00	-7.89
15540.000	Peak	35.67	21.97	57.64	74.00	-16.36

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Report Number :TERF2303000790ER
 Operation Mode :802.11a
 Test Frequency :5180 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-04-21
 Temp./Humi. :23.6/62
 Antenna Pol. :Horizontal
 Engineer :WJ Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10360.000	Peak	37.34	20.51	57.85	68.20	-10.35
15540.000	Average	24.18	21.97	46.15	54.00	-7.85
15540.000	Peak	35.74	21.97	57.71	74.00	-16.29

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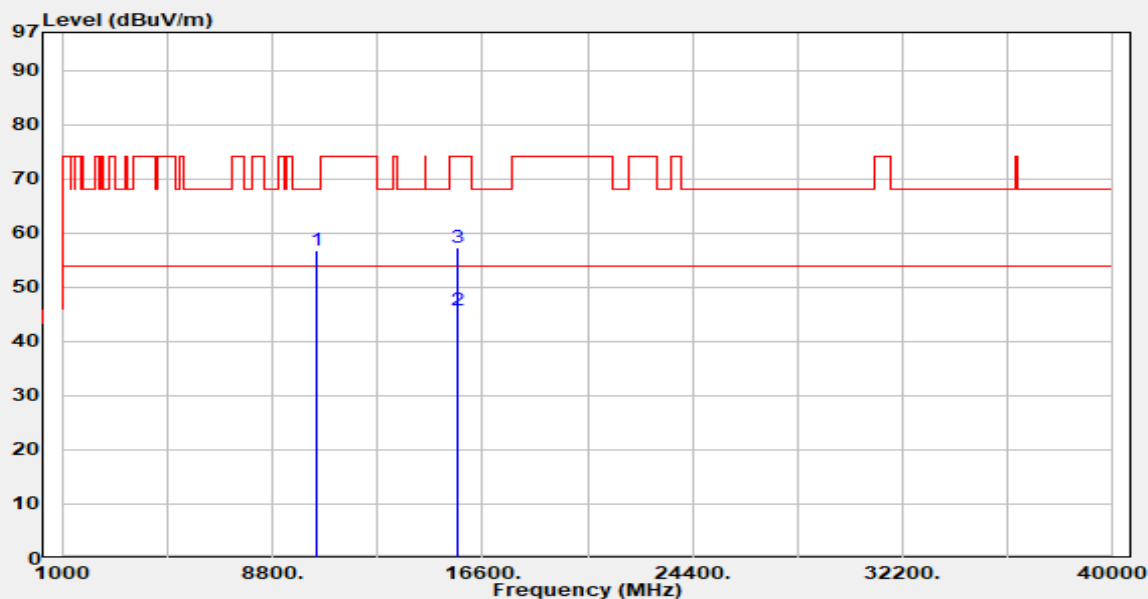
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Report Number :TERF2303000790ER
 Operation Mode :802.11a
 Test Frequency :5220 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-04-21
 Temp./Humi. :23.6/62
 Antenna Pol. :Vertical
 Engineer :WJ Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10440.000	Peak	37.10	19.62	56.72	68.20	-11.48
15660.000	Average	24.46	21.33	45.79	54.00	-8.21
15660.000	Peak	35.89	21.33	57.22	74.00	-16.78

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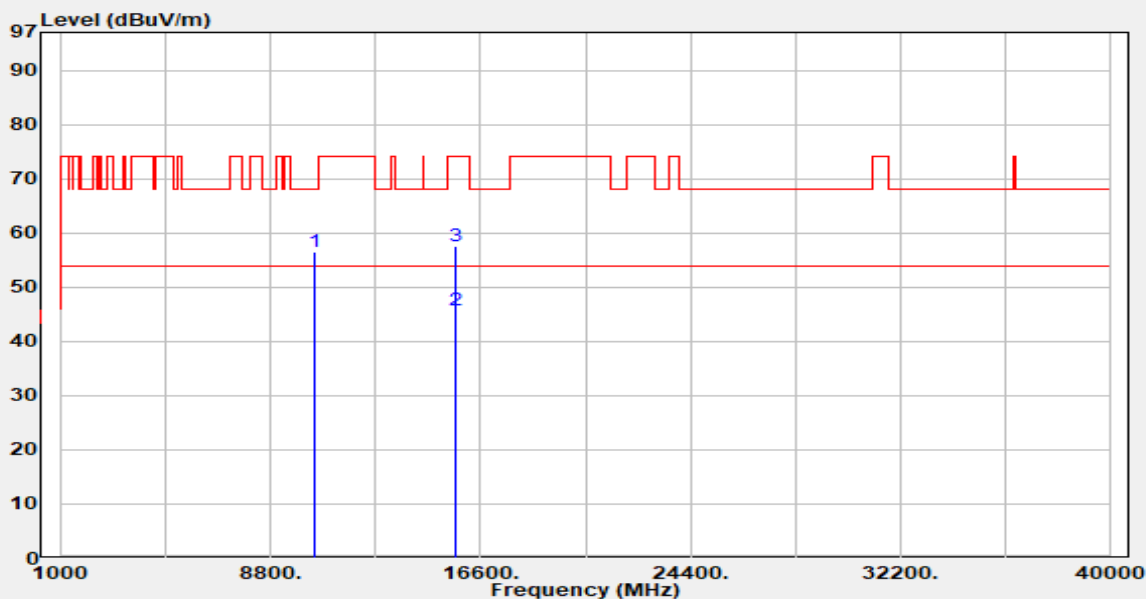
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Report Number :TERF2303000790ER
Operation Mode :802.11a
Test Frequency :5220 MHz
Test Mode :Tx
EUT Pol :H Plane

Test Site :SAC 1
Test Date :2023-04-21
Temp./Humi. :23.6/62
Antenna Pol. :Horizontal
Engineer :WJ Lin



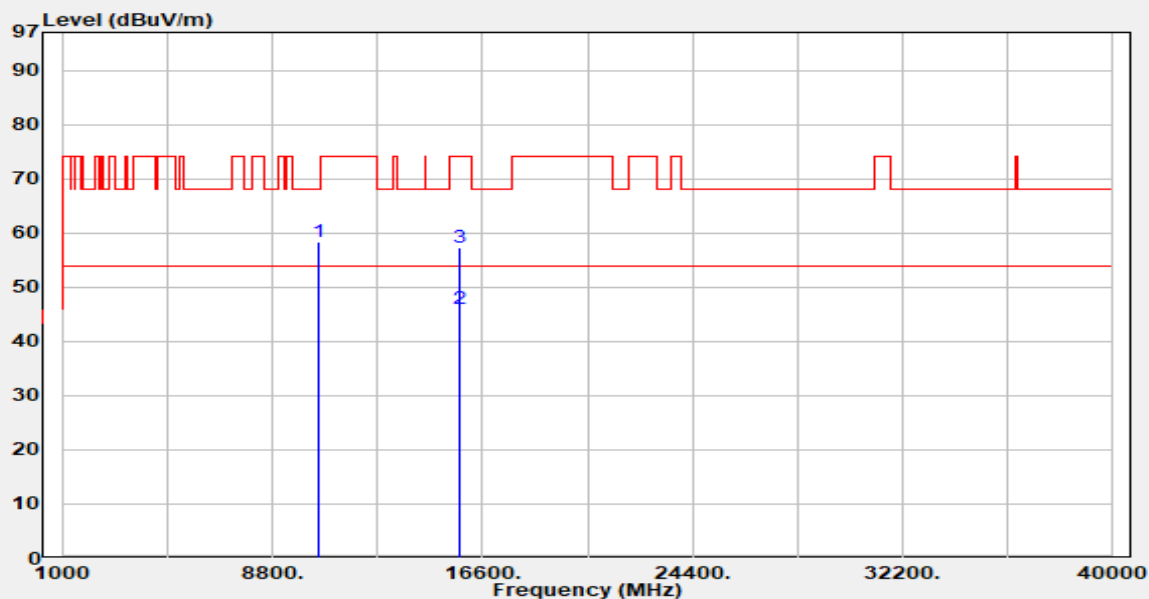
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10440.000	Peak	37.02	19.62	56.64	68.20	-11.56
15660.000	Average	24.42	21.33	45.75	54.00	-8.25
15660.000	Peak	36.30	21.33	57.63	74.00	-16.37

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Report Number :TERF2303000790ER
Operation Mode :802.11a
Test Frequency :5240 MHz
Test Mode :Tx
EUT Pol :H Plane

Test Site :SAC 1
Test Date :2023-04-21
Temp./Humi. :23.6/62
Antenna Pol. :Vertical
Engineer :WJ Lin



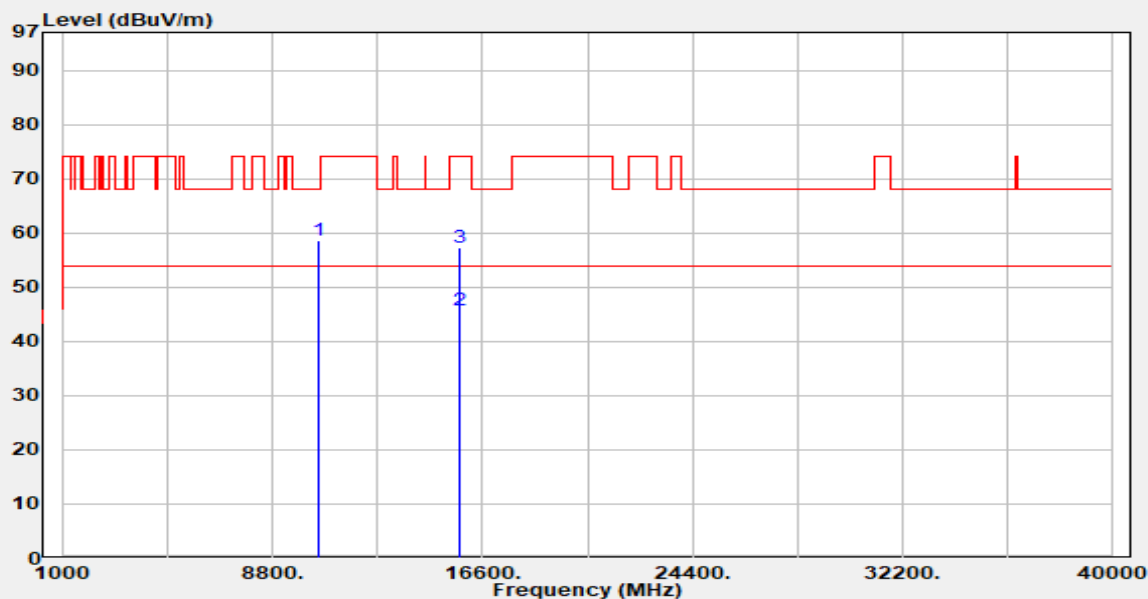
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10480.000	Peak	37.56	20.88	58.44	68.20	-9.76
15720.000	Average	24.58	21.35	45.93	54.00	-8.07
15720.000	Peak	35.87	21.35	57.22	74.00	-16.78

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Report Number :TERF2303000790ER
 Operation Mode :802.11a
 Test Frequency :5240 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-04-21
 Temp./Humi. :23.6/62
 Antenna Pol. :Horizontal
 Engineer :WJ Lin



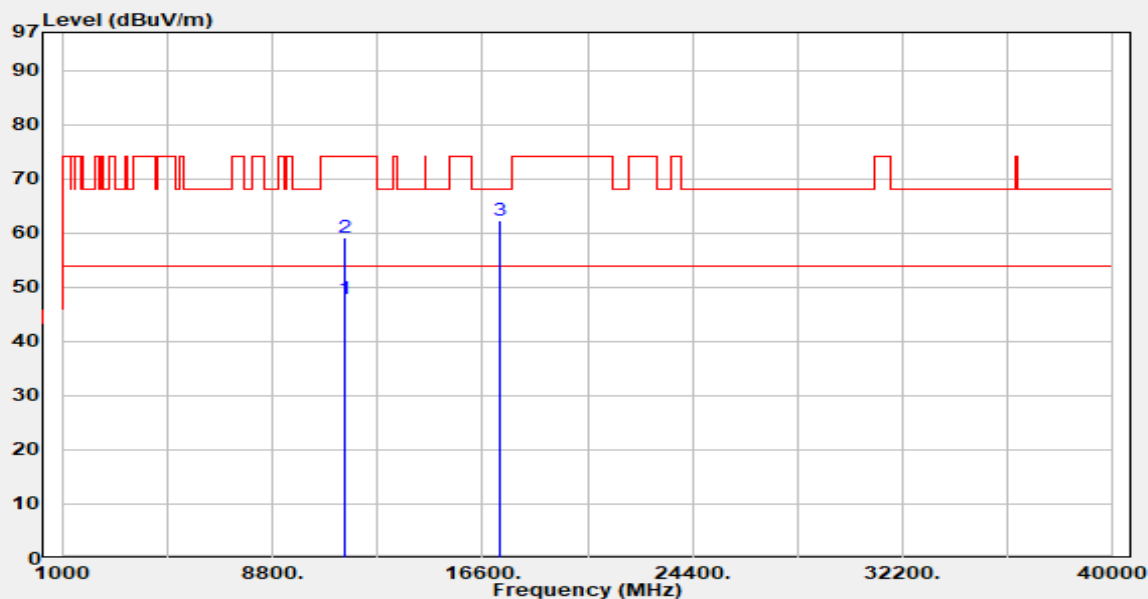
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10480.000	Peak	37.63	20.88	58.51	68.20	-9.69
15720.000	Average	24.40	21.35	45.75	54.00	-8.25
15720.000	Peak	35.91	21.35	57.26	74.00	-16.74

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Report Number :TERF2303000790ER
Operation Mode :802.11a
Test Frequency :5745 MHz
Test Mode :Tx
EUT Pol :H Plane

Test Site :SAC 1
Test Date :2023-04-21
Temp./Humi. :23.6/62
Antenna Pol. :Vertical
Engineer :WJ Lin



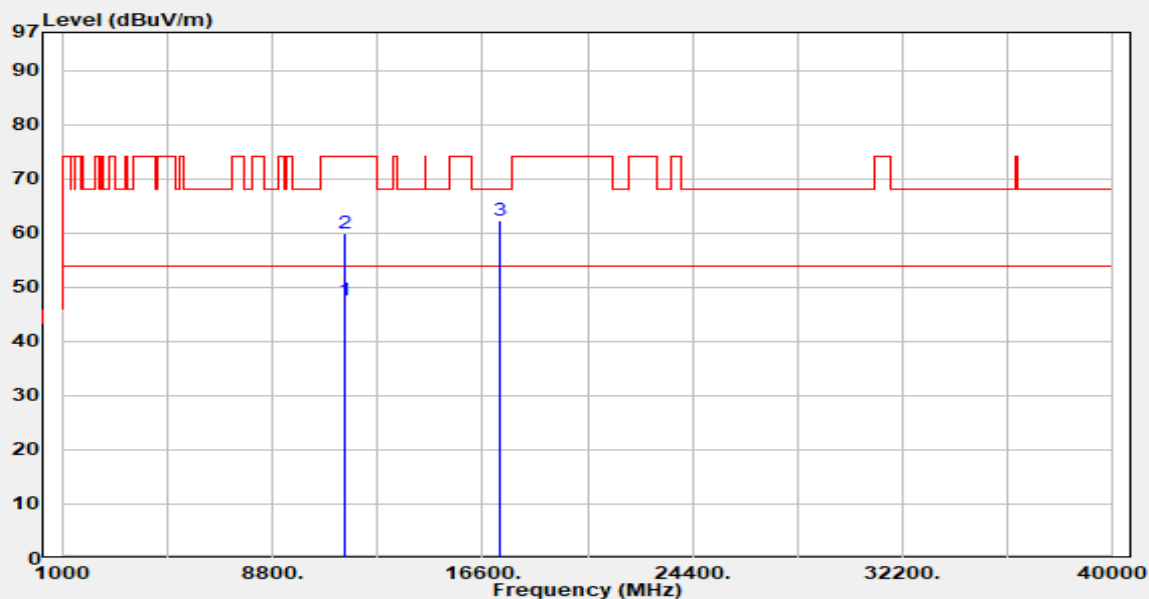
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11490.000	Average	25.05	22.70	47.75	54.00	-6.25
11490.000	Peak	36.48	22.70	59.18	74.00	-14.82
17235.000	Peak	35.35	26.82	62.17	68.20	-6.03

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Report Number :TERF2303000790ER
 Operation Mode :802.11a
 Test Frequency :5745 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-04-21
 Temp./Humi. :23.6/62
 Antenna Pol. :Horizontal
 Engineer :WJ Lin



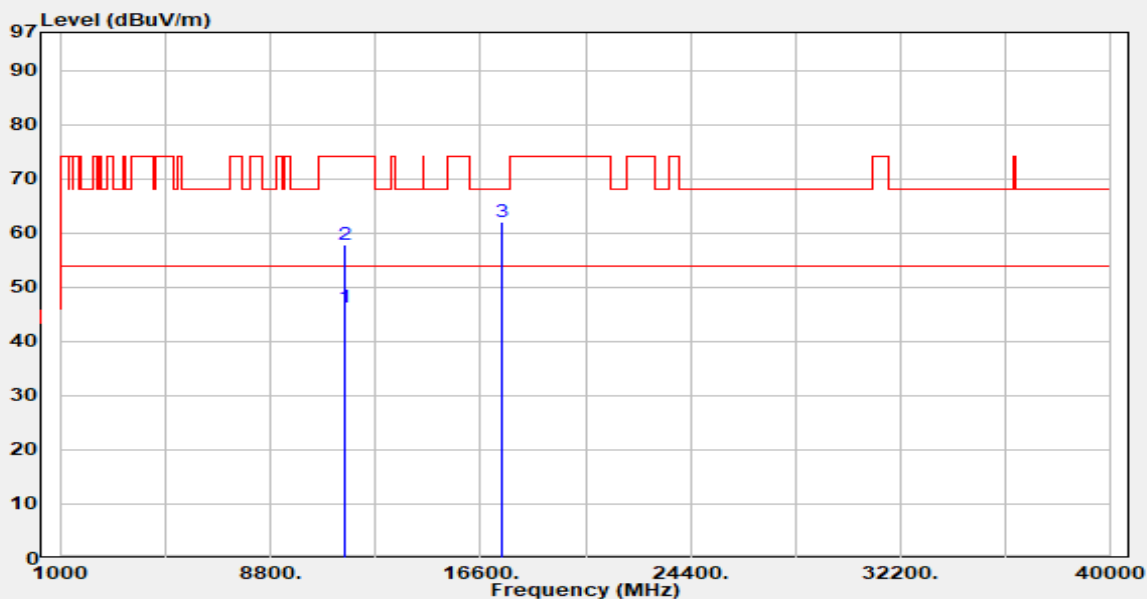
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11490.000	Average	24.94	22.70	47.64	54.00	-6.36
11490.000	Peak	37.16	22.70	59.86	74.00	-14.14
17235.000	Peak	35.40	26.82	62.22	68.20	-5.98

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Report Number :TERF2303000790ER
 Operation Mode :802.11a
 Test Frequency :5785 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-04-21
 Temp./Humi. :23.6/62
 Antenna Pol. :Vertical
 Engineer :WJ Lin



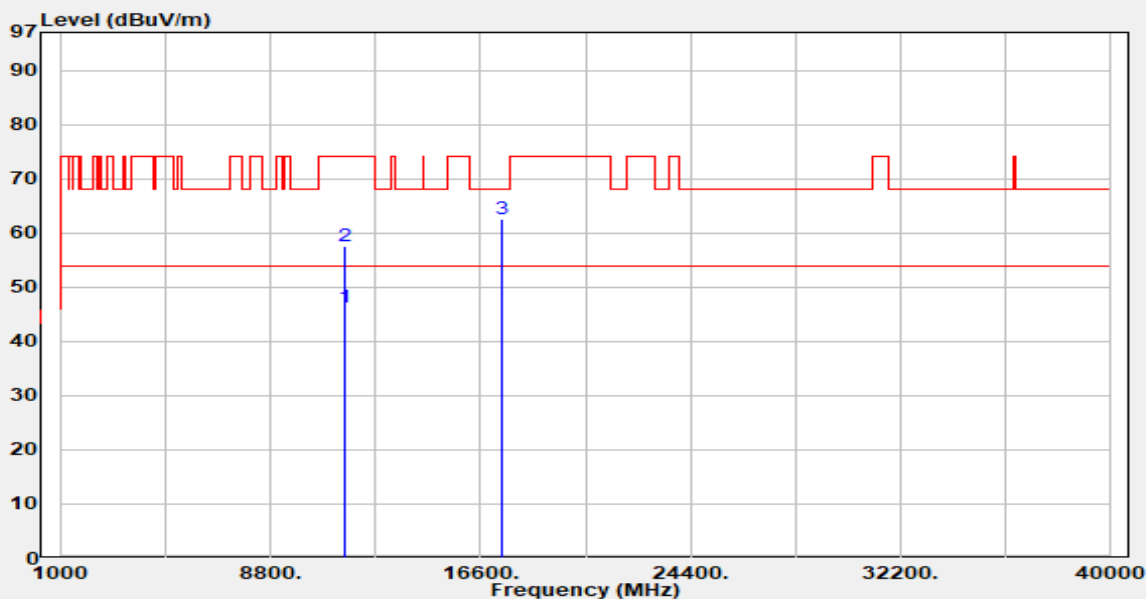
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11570.000	Average	24.89	21.35	46.24	54.00	-7.76
11570.000	Peak	36.58	21.35	57.93	74.00	-16.07
17355.000	Peak	34.95	27.20	62.15	68.20	-6.05

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Report Number :TERF2303000790ER
 Operation Mode :802.11a
 Test Frequency :5785 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-04-21
 Temp./Humi. :23.6/62
 Antenna Pol. :Horizontal
 Engineer :WJ Lin



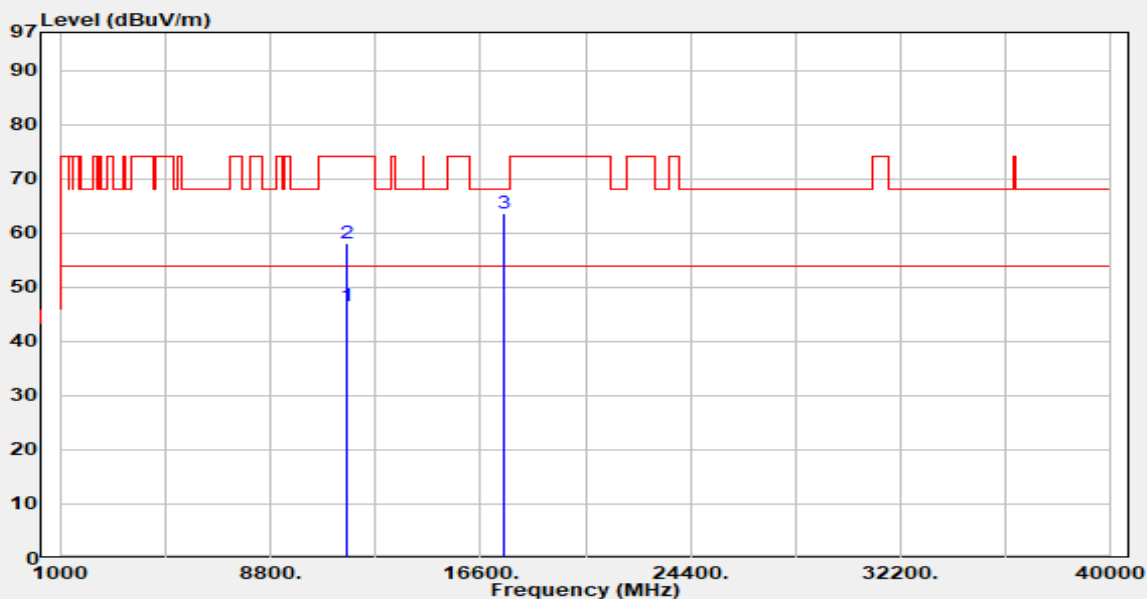
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11570.000	Average	24.79	21.35	46.14	54.00	-7.86
11570.000	Peak	36.25	21.35	57.60	74.00	-16.40
17355.000	Peak	35.37	27.20	62.57	68.20	-5.63

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Report Number :TERF2303000790ER
Operation Mode :802.11a
Test Frequency :5825 MHz
Test Mode :Tx
EUT Pol :H Plane

Test Site :SAC 1
Test Date :2023-04-21
Temp./Humi. :23.6/62
Antenna Pol. :Vertical
Engineer :WJ Lin



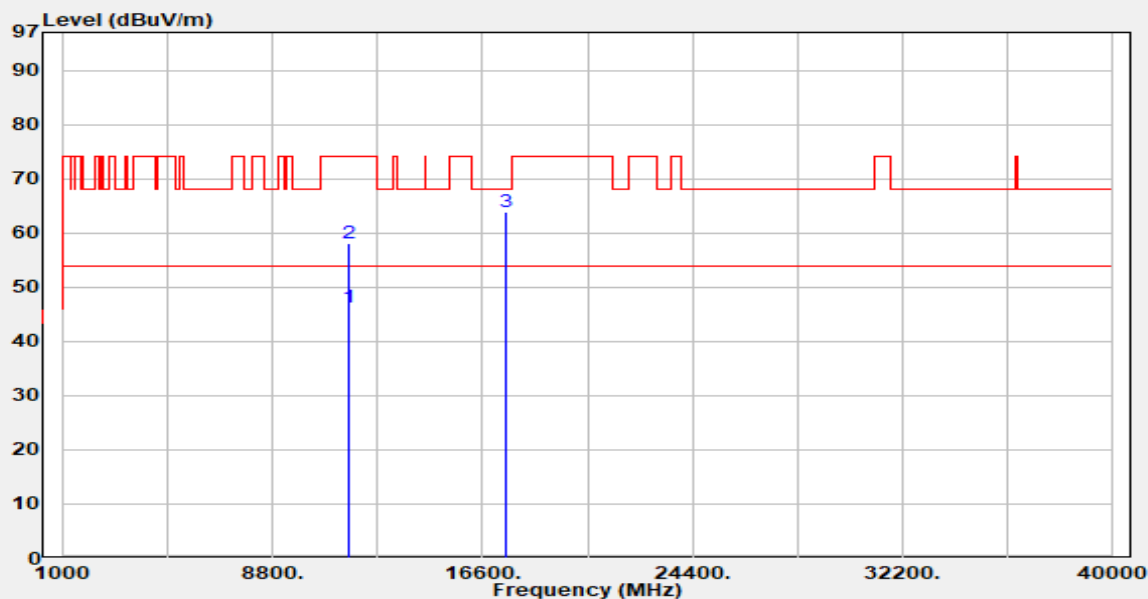
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11650.000	Average	24.79	21.67	46.46	54.00	-7.54
11650.000	Peak	36.47	21.67	58.14	74.00	-15.86
17475.000	Peak	35.22	28.30	63.52	68.20	-4.68

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Report Number :TERF2303000790ER
 Operation Mode :802.11a
 Test Frequency :5825 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-04-21
 Temp./Humi. :23.6/62
 Antenna Pol. :Horizontal
 Engineer :WJ Lin



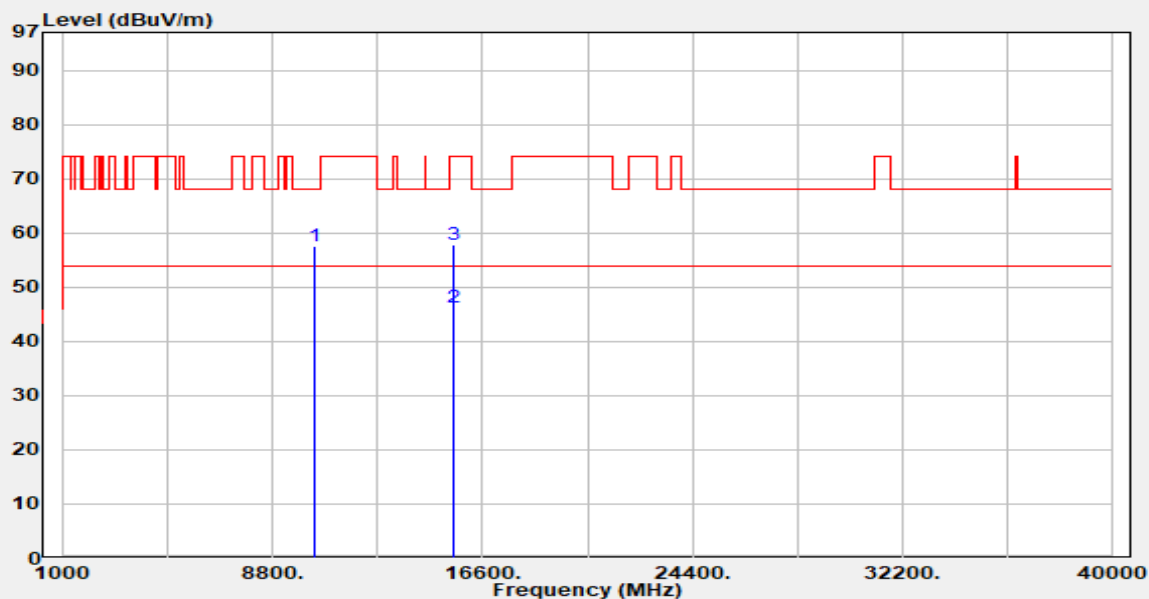
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11650.000	Average	24.65	21.67	46.32	54.00	-7.68
11650.000	Peak	36.31	21.67	57.98	74.00	-16.02
17475.000	Peak	35.63	28.30	63.93	68.20	-4.27

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Report Number :TERF2303000790ER
Operation Mode :802.11n20
Test Frequency :5180 MHz
Test Mode :Tx
EUT Pol :H Plane

Test Site :SAC 1
Test Date :2023-04-21
Temp./Humi. :23.6/62
Antenna Pol. :Vertical
Engineer :WJ Lin



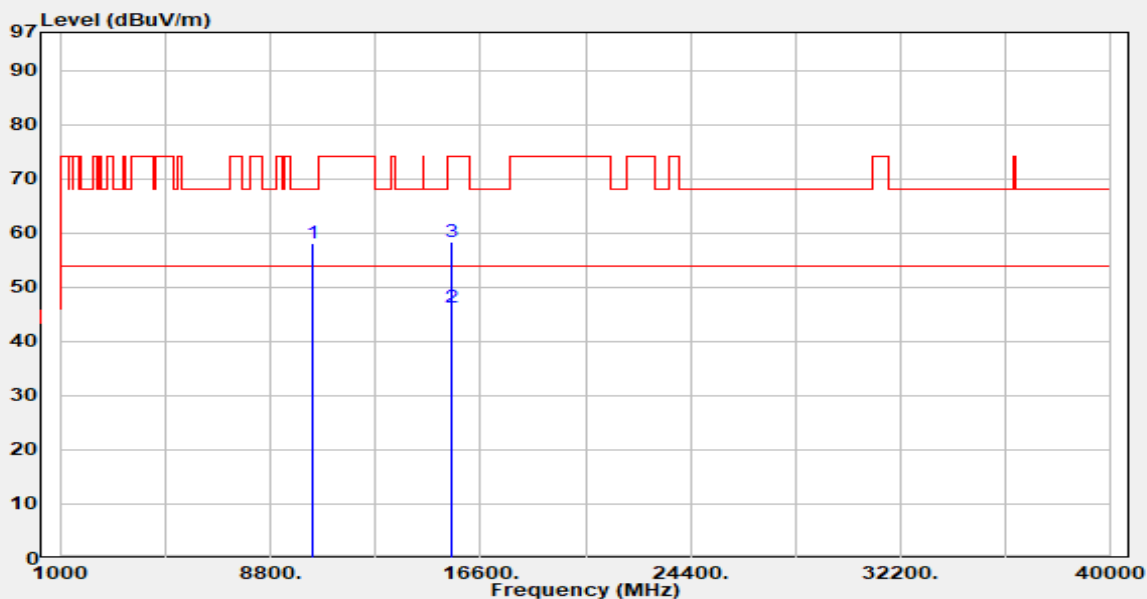
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10360.000	Peak	37.07	20.51	57.58	68.20	-10.62
15540.000	Average	24.18	21.97	46.15	54.00	-7.85
15540.000	Peak	35.85	21.97	57.82	74.00	-16.18

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Report Number :TERF2303000790ER
 Operation Mode :802.11n20
 Test Frequency :5180 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-04-21
 Temp./Humi. :23.6/62
 Antenna Pol. :Horizontal
 Engineer :WJ Lin



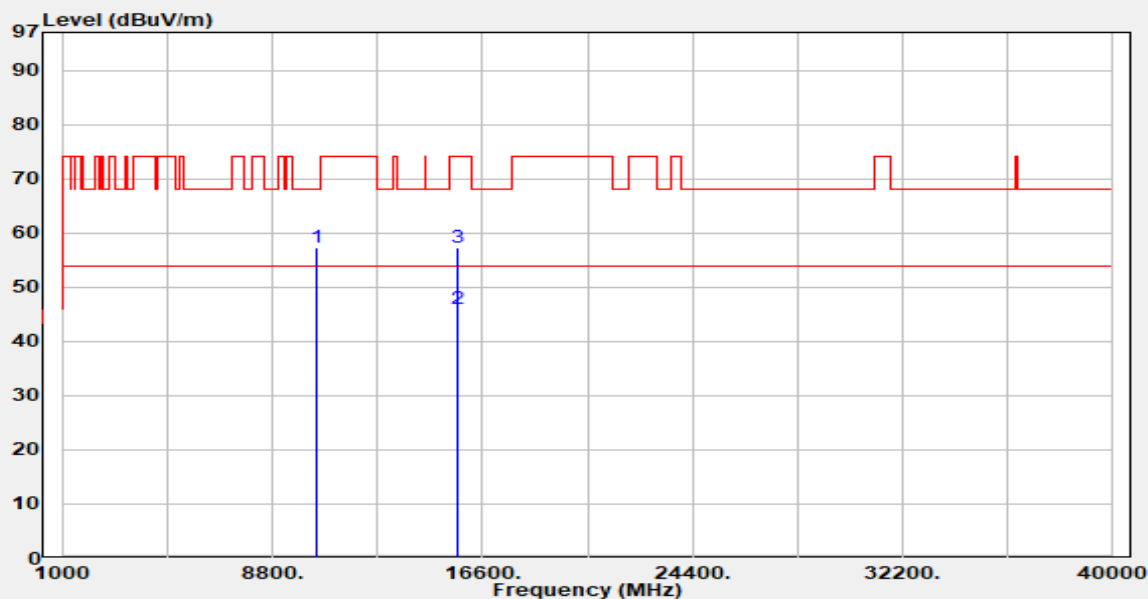
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10360.000	Peak	37.70	20.51	58.21	68.20	-9.99
15540.000	Average	24.26	21.97	46.23	54.00	-7.77
15540.000	Peak	36.47	21.97	58.44	74.00	-15.56

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Report Number :TERF2303000790ER
 Operation Mode :802.11n20
 Test Frequency :5220 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-04-21
 Temp./Humi. :23.6/62
 Antenna Pol. :Vertical
 Engineer :WJ Lin



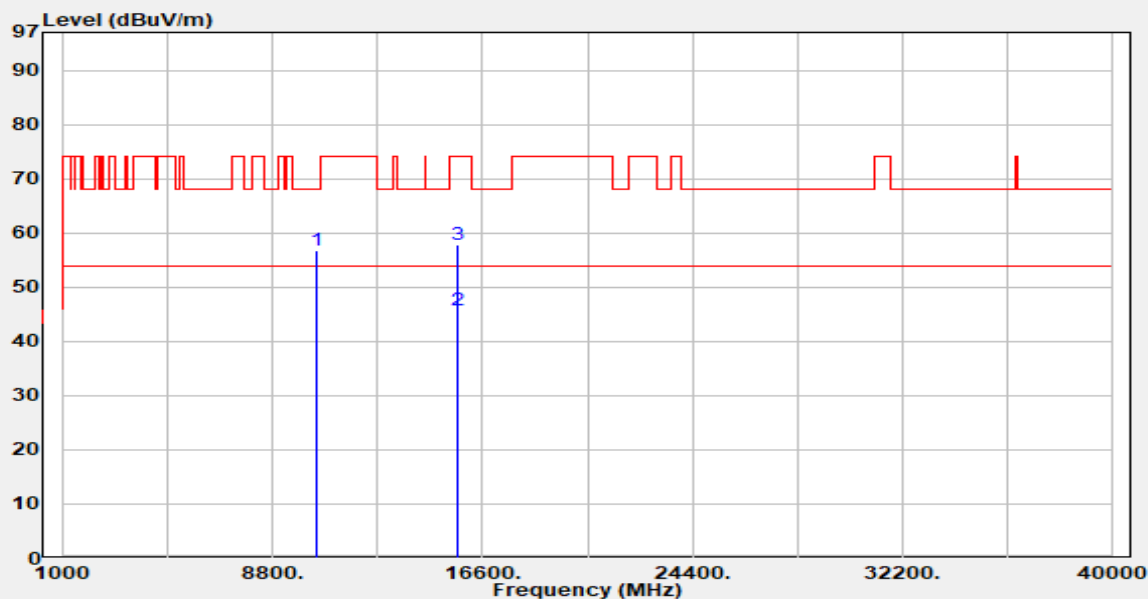
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10440.000	Peak	37.67	19.62	57.29	68.20	-10.91
15660.000	Average	24.54	21.33	45.87	54.00	-8.13
15660.000	Peak	35.89	21.33	57.22	74.00	-16.78

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Report Number :TERF2303000790ER
Operation Mode :802.11n20
Test Frequency :5220 MHz
Test Mode :Tx
EUT Pol :H Plane

Test Site :SAC 1
Test Date :2023-04-21
Temp./Humi. :23.6/62
Antenna Pol. :Horizontal
Engineer :WJ Lin



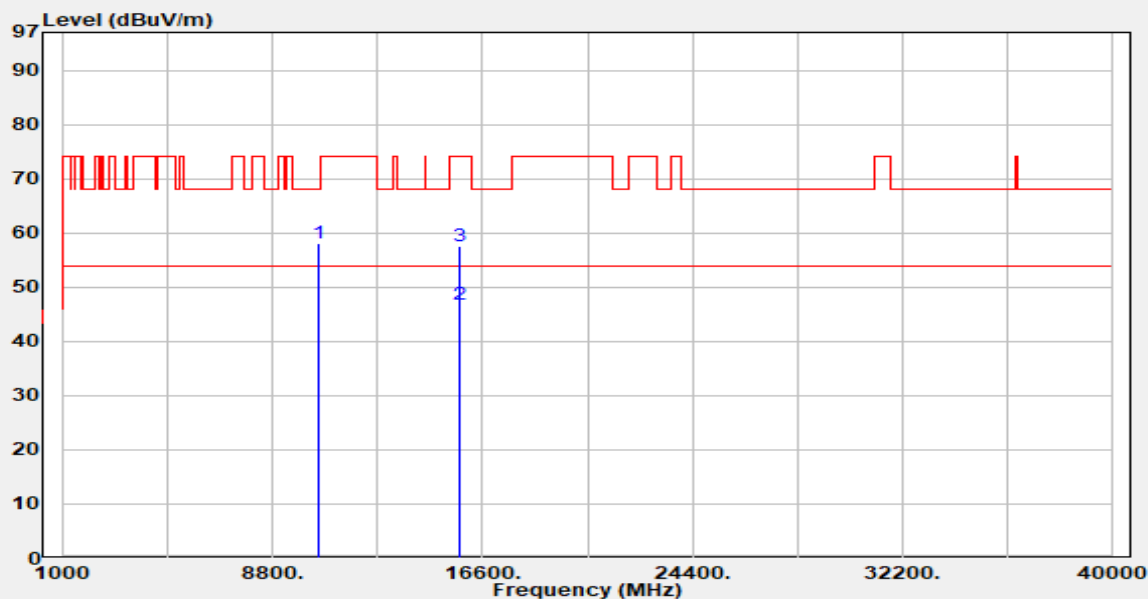
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10440.000	Peak	37.25	19.62	56.87	68.20	-11.33
15660.000	Average	24.47	21.33	45.80	54.00	-8.20
15660.000	Peak	36.52	21.33	57.85	74.00	-16.15

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Report Number :TERF2303000790ER
 Operation Mode :802.11n20
 Test Frequency :5240 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-04-21
 Temp./Humi. :23.6/62
 Antenna Pol. :Vertical
 Engineer :WJ Lin



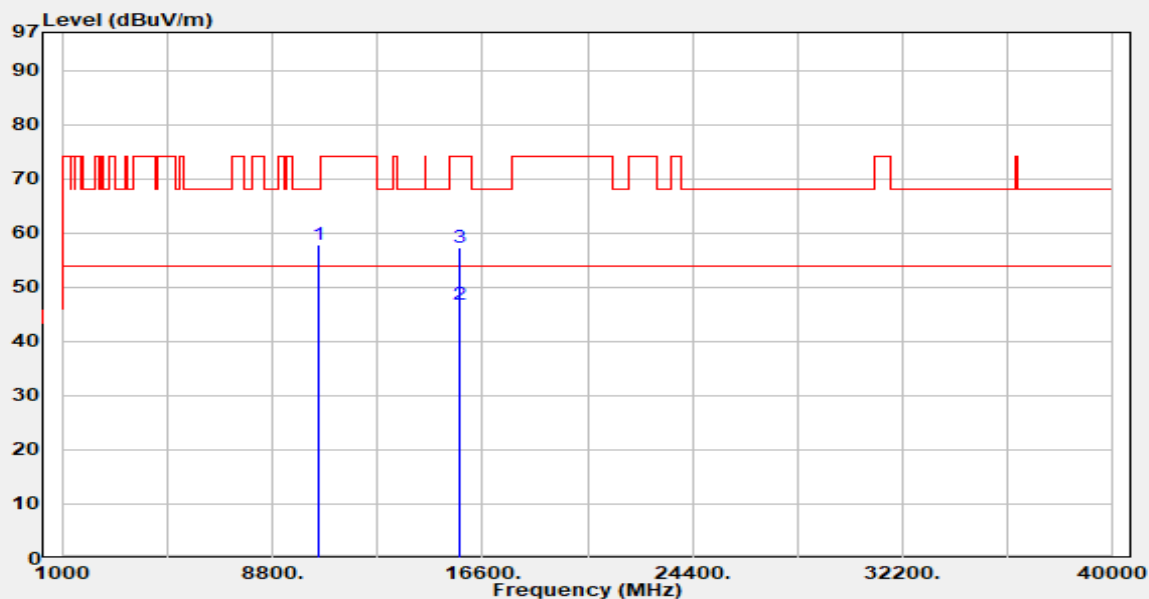
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10480.000	Peak	37.26	20.88	58.14	68.20	-10.06
15720.000	Average	25.40	21.35	46.75	54.00	-7.25
15720.000	Peak	36.32	21.35	57.67	74.00	-16.33

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Report Number :TERF2303000790ER
Operation Mode :802.11n20
Test Frequency :5240 MHz
Test Mode :Tx
EUT Pol :H Plane

Test Site :SAC 1
Test Date :2023-04-21
Temp./Humi. :23.6/62
Antenna Pol. :Horizontal
Engineer :WJ Lin



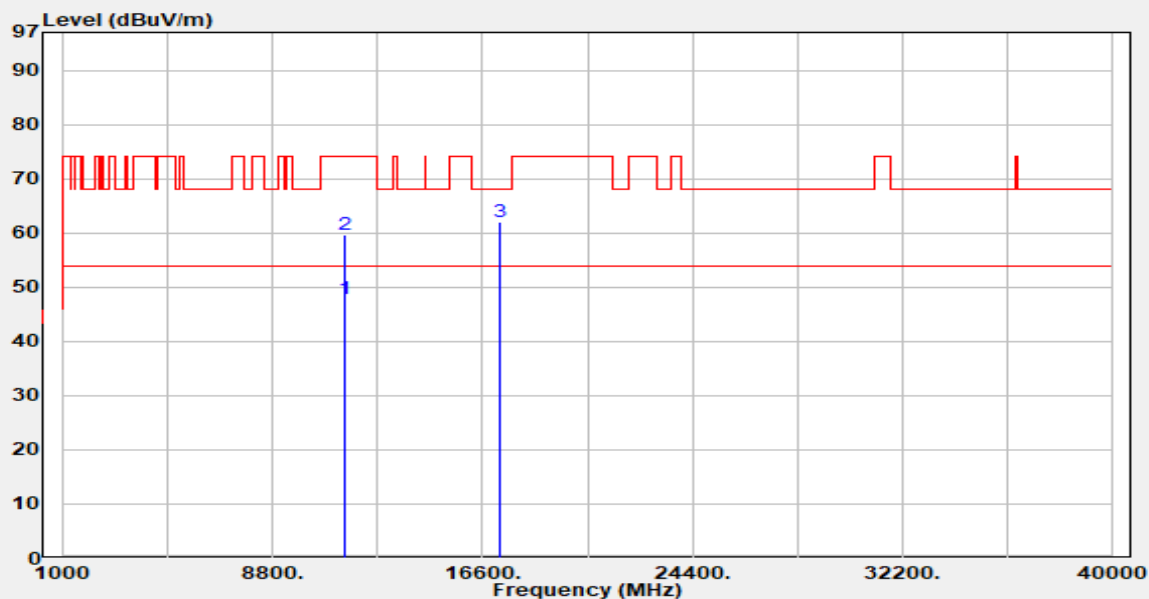
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10480.000	Peak	36.96	20.88	57.84	68.20	-10.36
15720.000	Average	25.48	21.35	46.83	54.00	-7.17
15720.000	Peak	35.96	21.35	57.31	74.00	-16.69

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Report Number :TERF2303000790ER
Operation Mode :802.11n20
Test Frequency :5745 MHz
Test Mode :Tx
EUT Pol :H Plane

Test Site :SAC 1
Test Date :2023-04-21
Temp./Humi. :23.6/62
Antenna Pol. :Vertical
Engineer :WJ Lin



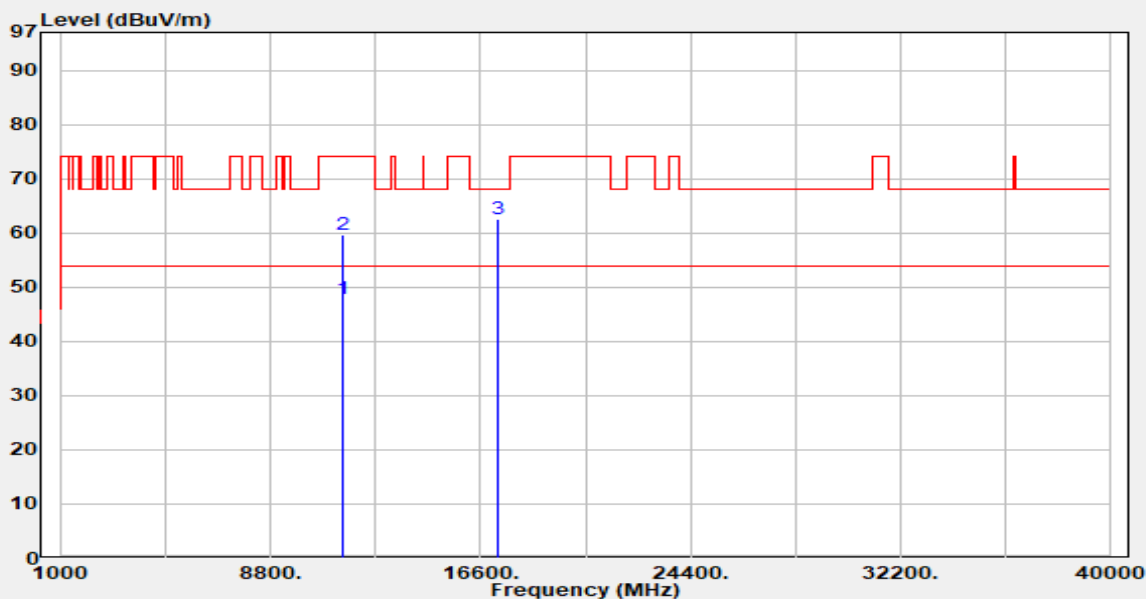
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11490.000	Average	25.04	22.70	47.74	54.00	-6.26
11490.000	Peak	36.89	22.70	59.59	74.00	-14.41
17235.000	Peak	35.20	26.82	62.02	68.20	-6.18

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Report Number :TERF2303000790ER
 Operation Mode :802.11n20
 Test Frequency :5745 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-04-21
 Temp./Humi. :23.6/62
 Antenna Pol. :Horizontal
 Engineer :WJ Lin



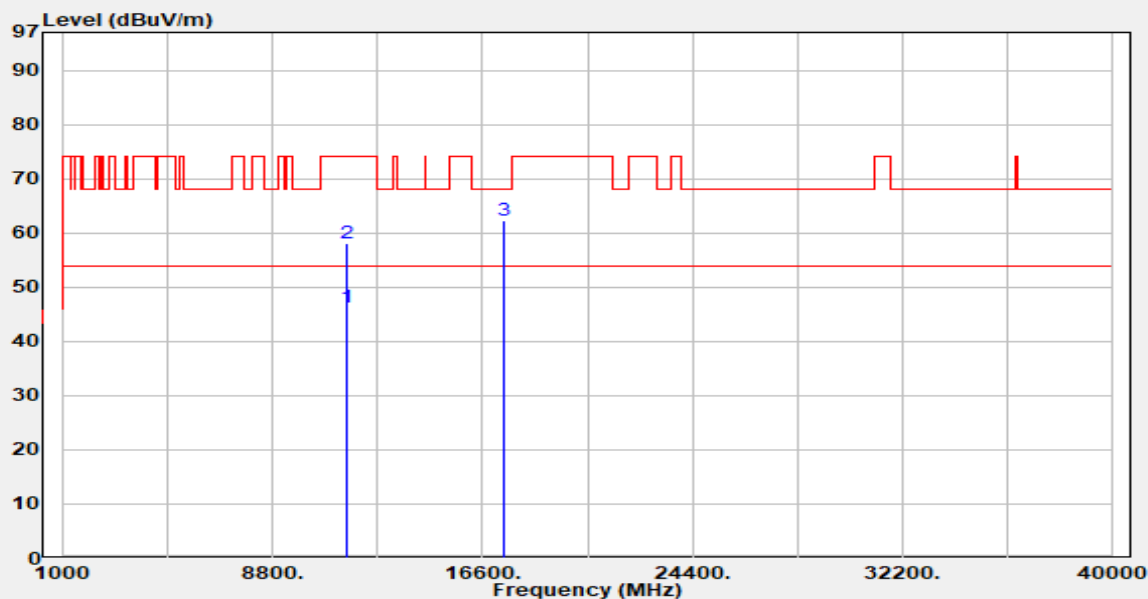
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11490.000	Average	25.02	22.70	47.72	54.00	-6.28
11490.000	Peak	36.97	22.70	59.67	74.00	-14.33
17235.000	Peak	35.77	26.82	62.59	68.20	-5.61

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Report Number :TERF2303000790ER
Operation Mode :802.11n20
Test Frequency :5785 MHz
Test Mode :Tx
EUT Pol :H Plane

Test Site :SAC 1
Test Date :2023-04-21
Temp./Humi. :23.6/62
Antenna Pol. :Vertical
Engineer :WJ Lin



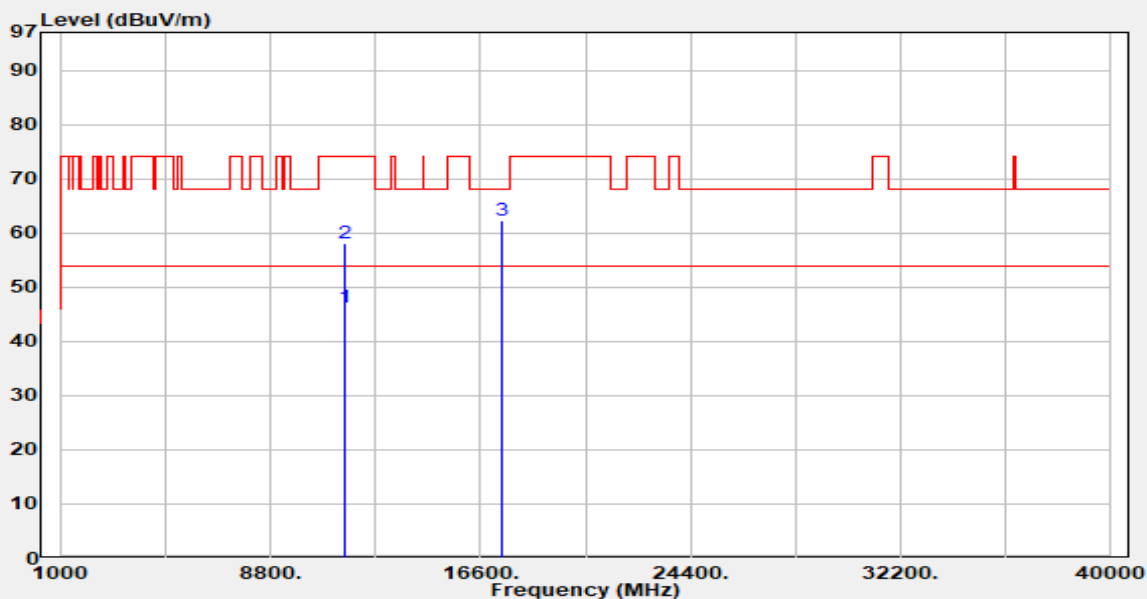
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11570.000	Average	24.82	21.35	46.17	54.00	-7.83
11570.000	Peak	36.80	21.35	58.15	74.00	-15.85
17355.000	Peak	35.15	27.20	62.35	68.20	-5.85

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Report Number :TERF2303000790ER
Operation Mode :802.11n20
Test Frequency :5785 MHz
Test Mode :Tx
EUT Pol :H Plane

Test Site :SAC 1
Test Date :2023-04-21
Temp./Humi. :23.6/62
Antenna Pol. :Horizontal
Engineer :WJ Lin



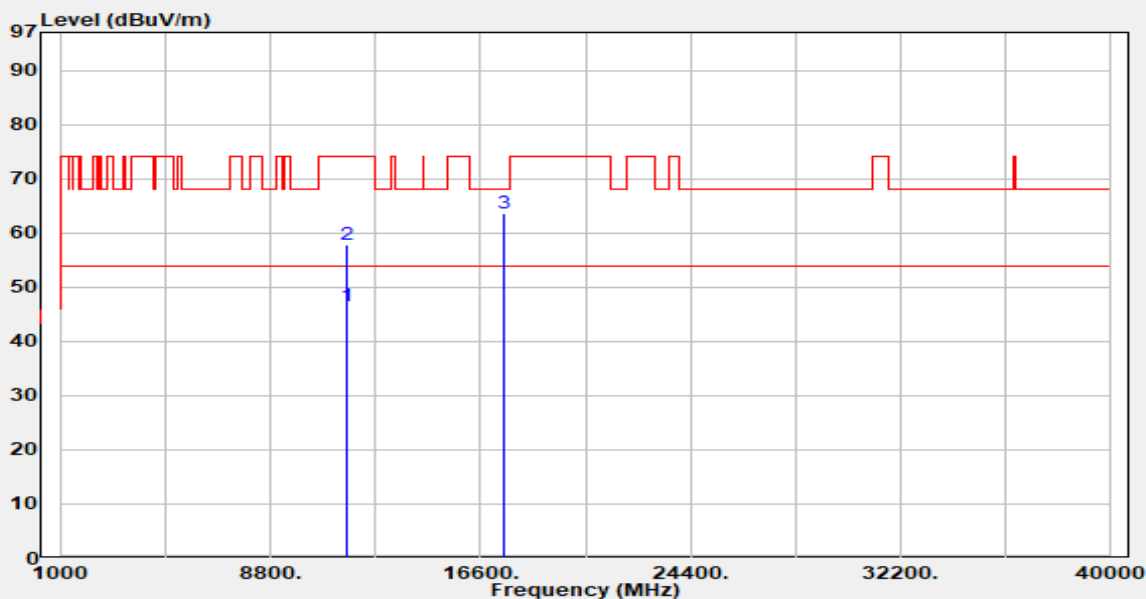
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11570.000	Average	24.81	21.35	46.16	54.00	-7.84
11570.000	Peak	36.63	21.35	57.98	74.00	-16.02
17355.000	Peak	35.22	27.20	62.42	68.20	-5.78

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Report Number :TERF2303000790ER
Operation Mode :802.11n20
Test Frequency :5825 MHz
Test Mode :Tx
EUT Pol :H Plane

Test Site :SAC 1
Test Date :2023-04-21
Temp./Humi. :23.6/62
Antenna Pol. :Vertical
Engineer :WJ Lin



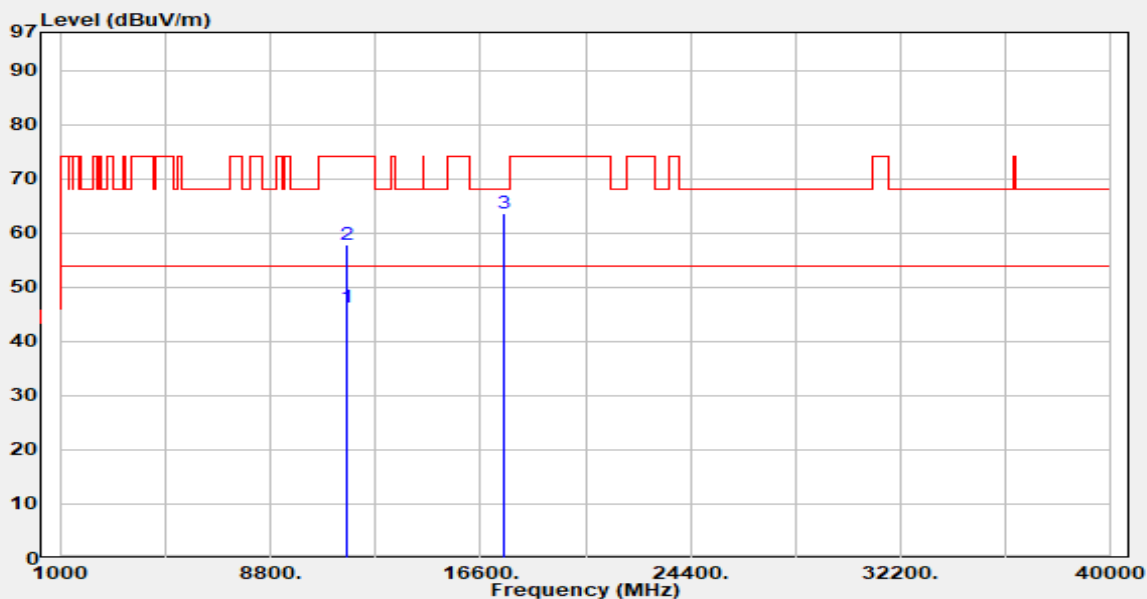
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11650.000	Average	24.83	21.67	46.50	54.00	-7.50
11650.000	Peak	36.20	21.67	57.87	74.00	-16.13
17475.000	Peak	35.41	28.30	63.71	68.20	-4.49

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Report Number :TERF2303000790ER
Operation Mode :802.11n20
Test Frequency :5825 MHz
Test Mode :Tx
EUT Pol :H Plane

Test Site :SAC 1
Test Date :2023-04-21
Temp./Humi. :23.6/62
Antenna Pol. :Horizontal
Engineer :WJ Lin



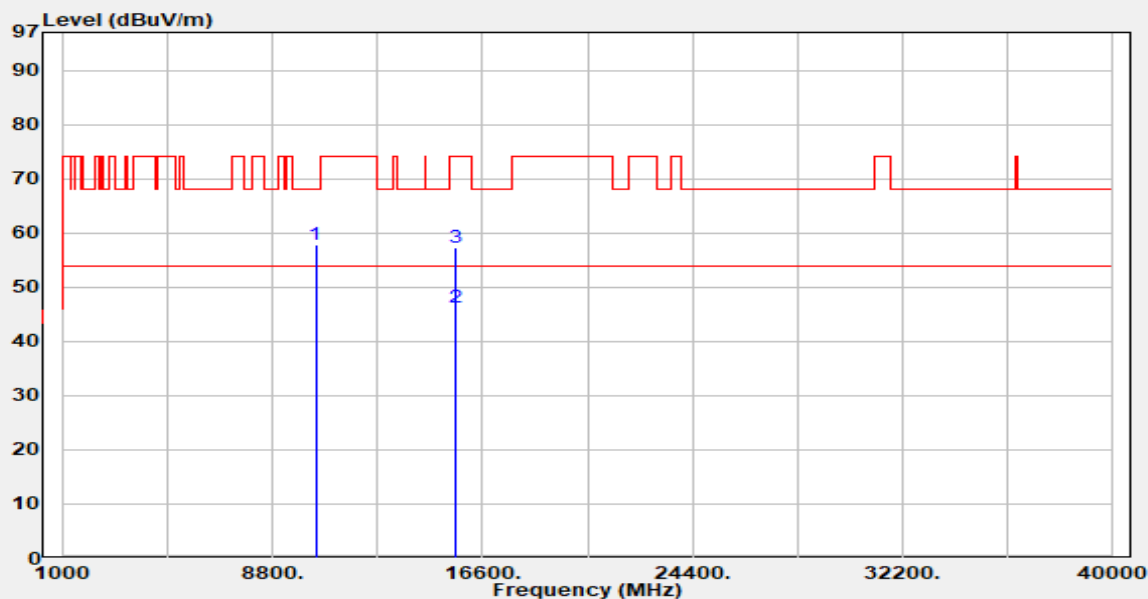
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11650.000	Average	24.66	21.67	46.33	54.00	-7.67
11650.000	Peak	36.19	21.67	57.86	74.00	-16.14
17475.000	Peak	35.22	28.30	63.52	68.20	-4.68

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Report Number :TERF2303000790ER
Operation Mode :802.11n40
Test Frequency :5190 MHz
Test Mode :Tx
EUT Pol :H Plane

Test Site :SAC 1
Test Date :2023-04-21
Temp./Humi. :23.6/62
Antenna Pol. :Vertical
Engineer :WJ Lin



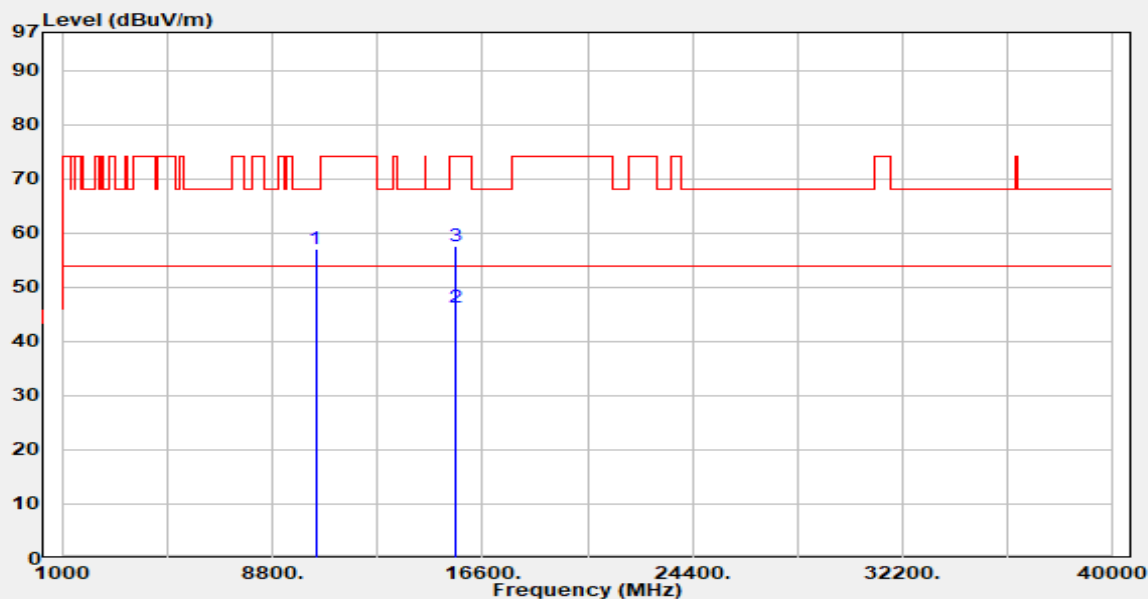
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10380.000	Peak	37.82	19.93	57.75	68.20	-10.45
15570.000	Average	24.40	21.75	46.15	54.00	-7.85
15570.000	Peak	35.65	21.75	57.40	74.00	-16.60

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Report Number :TERF2303000790ER
Operation Mode :802.11n40
Test Frequency :5190 MHz
Test Mode :Tx
EUT Pol :H Plane

Test Site :SAC 1
Test Date :2023-04-21
Temp./Humi. :23.6/62
Antenna Pol. :Horizontal
Engineer :WJ Lin



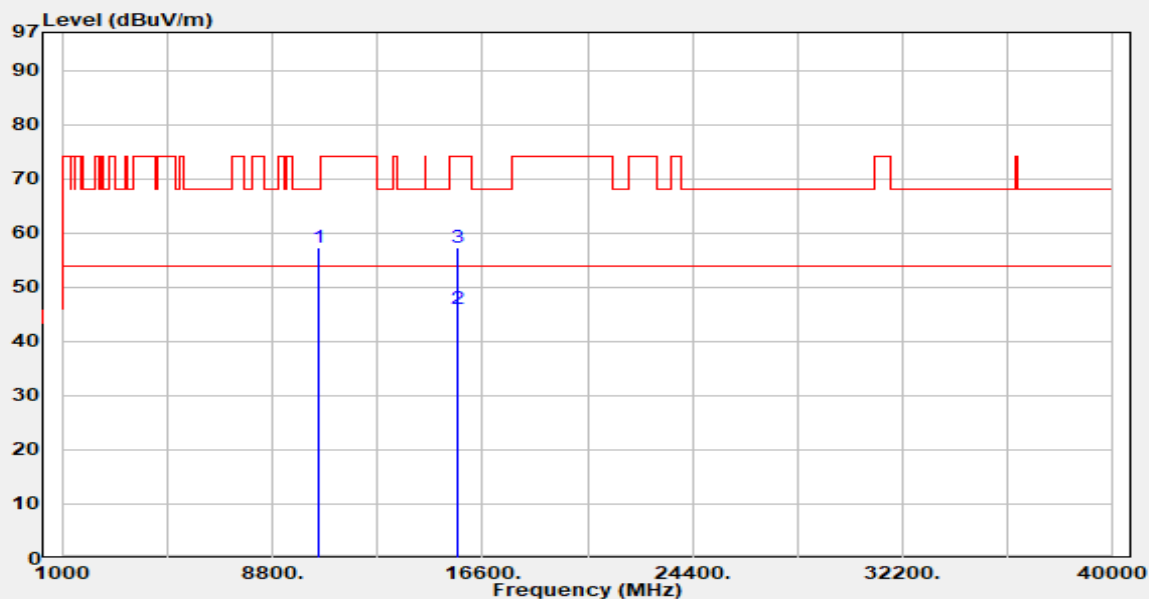
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10380.000	Peak	37.22	19.93	57.15	68.20	-11.05
15570.000	Average	24.48	21.75	46.23	54.00	-7.77
15570.000	Peak	35.75	21.75	57.50	74.00	-16.50

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Report Number :TERF2303000790ER
 Operation Mode :802.11n40
 Test Frequency :5230 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-04-21
 Temp./Humi. :23.6/62
 Antenna Pol. :Vertical
 Engineer :WJ Lin



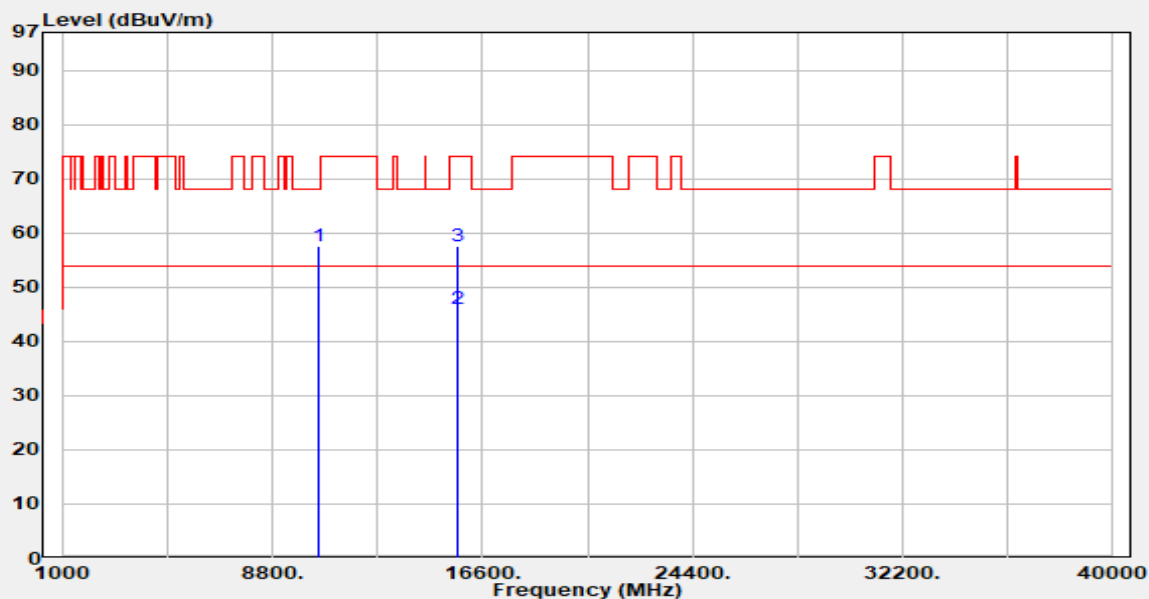
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10460.000	Peak	37.21	20.08	57.29	68.20	-10.91
15690.000	Average	24.69	21.38	46.07	54.00	-7.93
15690.000	Peak	35.97	21.38	57.35	74.00	-16.65

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Report Number :TERF2303000790ER
Operation Mode :802.11n40
Test Frequency :5230 MHz
Test Mode :Tx
EUT Pol :H Plane

Test Site :SAC 1
Test Date :2023-04-21
Temp./Humi. :23.6/62
Antenna Pol. :Horizontal
Engineer :WJ Lin



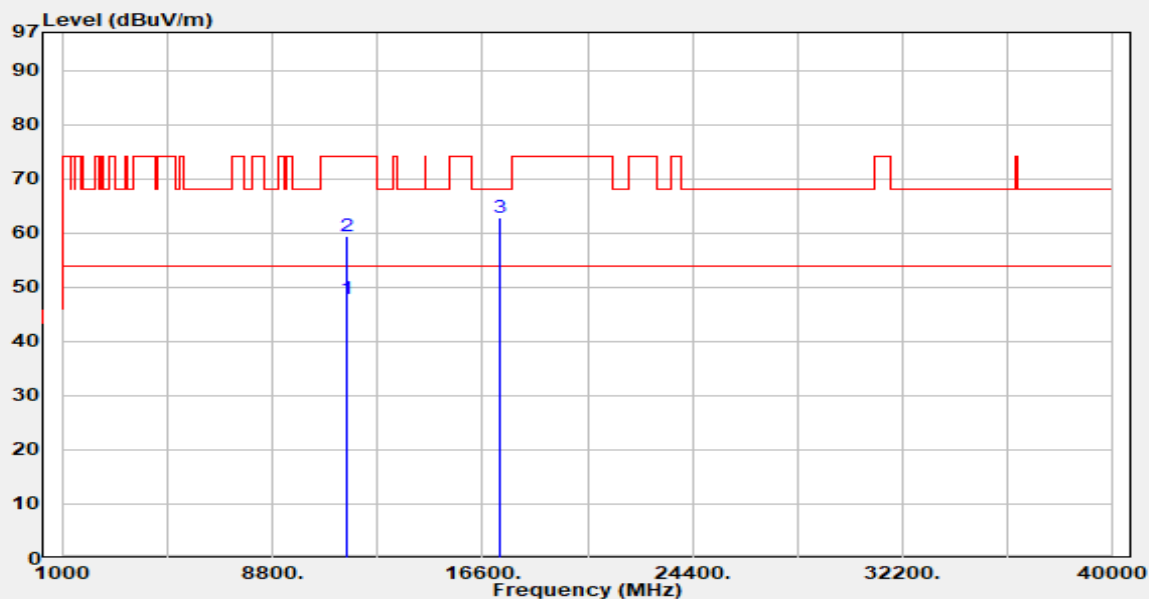
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10460.000	Peak	37.37	20.08	57.45	68.20	-10.75
15690.000	Average	24.64	21.38	46.02	54.00	-7.98
15690.000	Peak	36.08	21.38	57.46	74.00	-16.54

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Report Number :TERF2303000790ER
Operation Mode :802.11n40
Test Frequency :5755 MHz
Test Mode :Tx
EUT Pol :H Plane

Test Site :SAC 1
Test Date :2023-04-21
Temp./Humi. :23.6/62
Antenna Pol. :Vertical
Engineer :WJ Lin



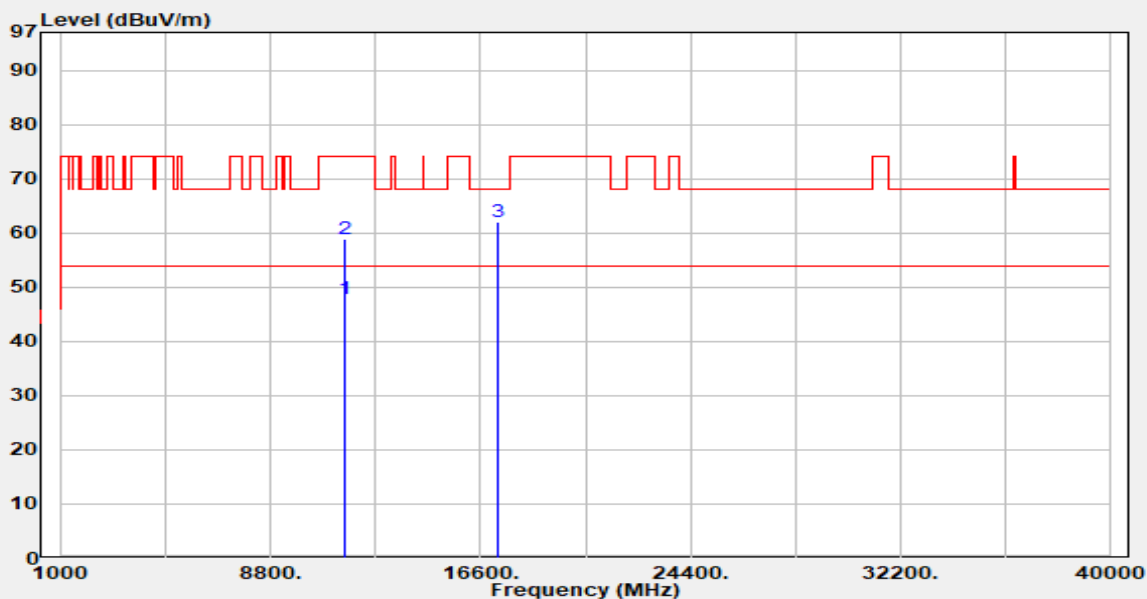
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11510.000	Average	25.25	22.58	47.83	54.00	-6.17
11510.000	Peak	36.93	22.58	59.51	74.00	-14.49
17265.000	Peak	35.85	26.92	62.77	68.20	-5.43

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Report Number :TERF2303000790ER
Operation Mode :802.11n40
Test Frequency :5755 MHz
Test Mode :Tx
EUT Pol :H Plane

Test Site :SAC 1
Test Date :2023-04-21
Temp./Humi. :23.6/62
Antenna Pol. :Horizontal
Engineer :WJ Lin



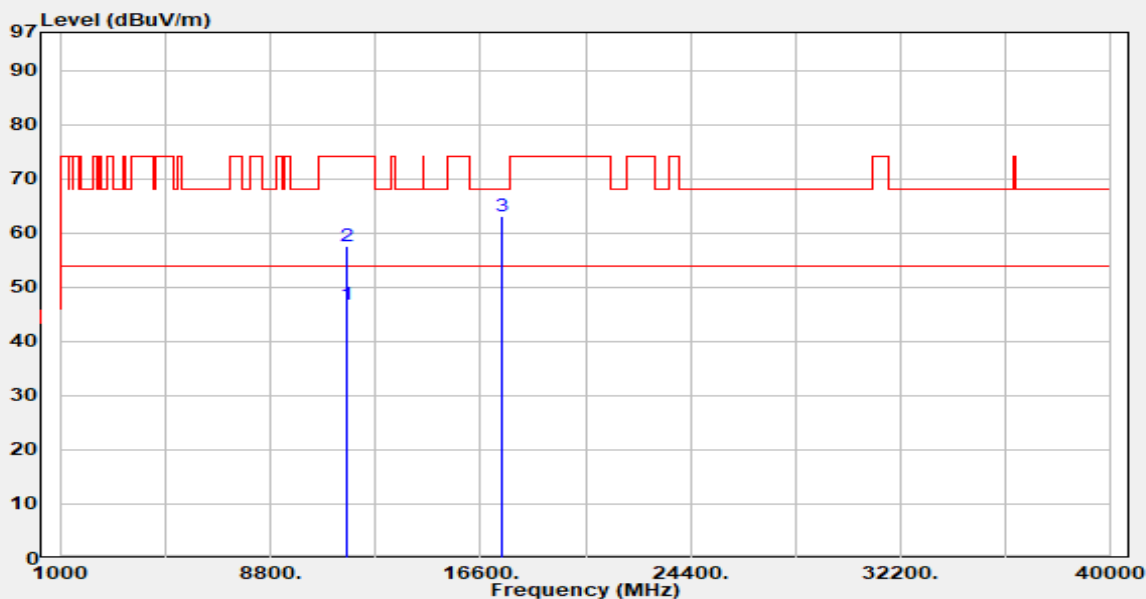
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11510.000	Average	25.20	22.58	47.78	54.00	-6.22
11510.000	Peak	36.27	22.58	58.85	74.00	-15.15
17265.000	Peak	35.07	26.92	61.99	68.20	-6.21

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Report Number :TERF2303000790ER
 Operation Mode :802.11n40
 Test Frequency :5795 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-04-21
 Temp./Humi. :23.6/62
 Antenna Pol. :Vertical
 Engineer :WJ Lin



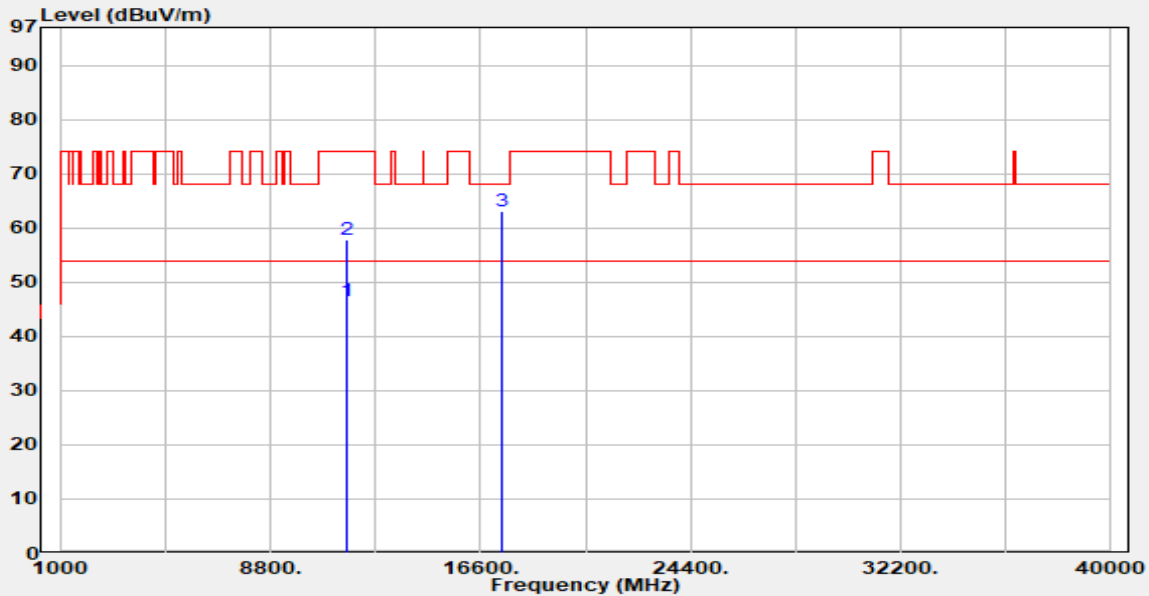
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11590.000	Average	25.07	21.59	46.66	54.00	-7.34
11590.000	Peak	36.04	21.59	57.63	74.00	-16.37
17385.000	Peak	35.47	27.54	63.01	68.20	-5.19

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Report Number :TERF2303000790ER
Operation Mode :802.11n40
Test Frequency :5795 MHz
Test Mode :Tx
EUT Pol :H Plane

Test Site :SAC 1
Test Date :2023-04-21
Temp./Humi. :23.6/62
Antenna Pol. :Horizontal
Engineer :WJ Lin



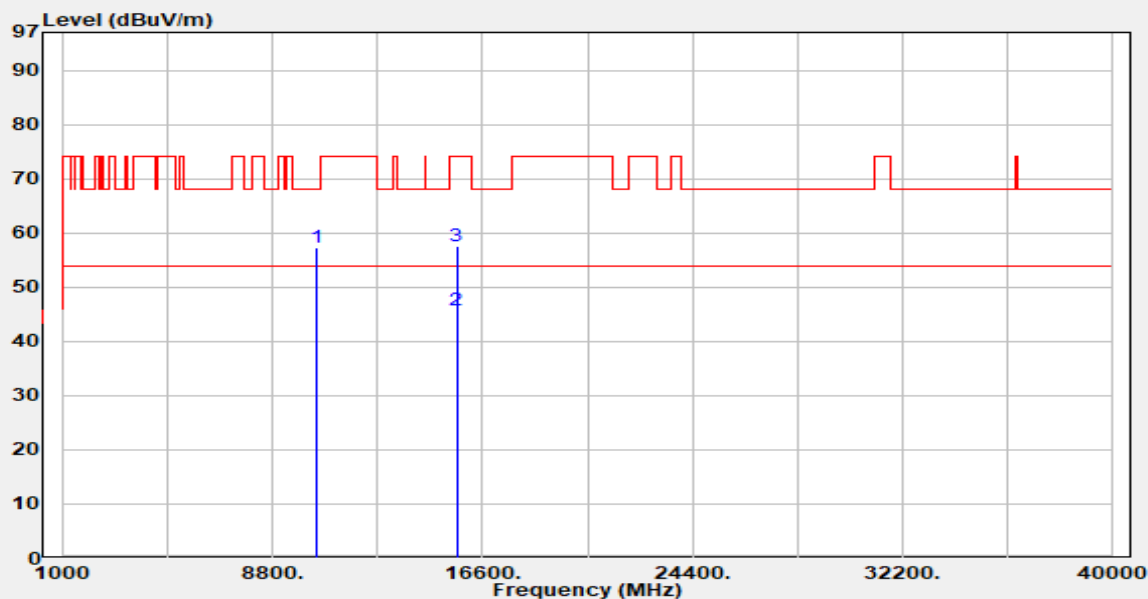
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11590.000	Average	25.04	21.59	46.63	54.00	-7.37
11590.000	Peak	36.34	21.59	57.93	74.00	-16.07
17385.000	Peak	35.55	27.54	63.09	68.20	-5.11

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Report Number :TERF2303000790ER
Operation Mode :802.11ac80
Test Frequency :5210 MHz
Test Mode :Tx
EUT Pol :H Plane

Test Site :SAC 1
Test Date :2023-04-21
Temp./Humi. :23.6/62
Antenna Pol. :Vertical
Engineer :WJ Lin



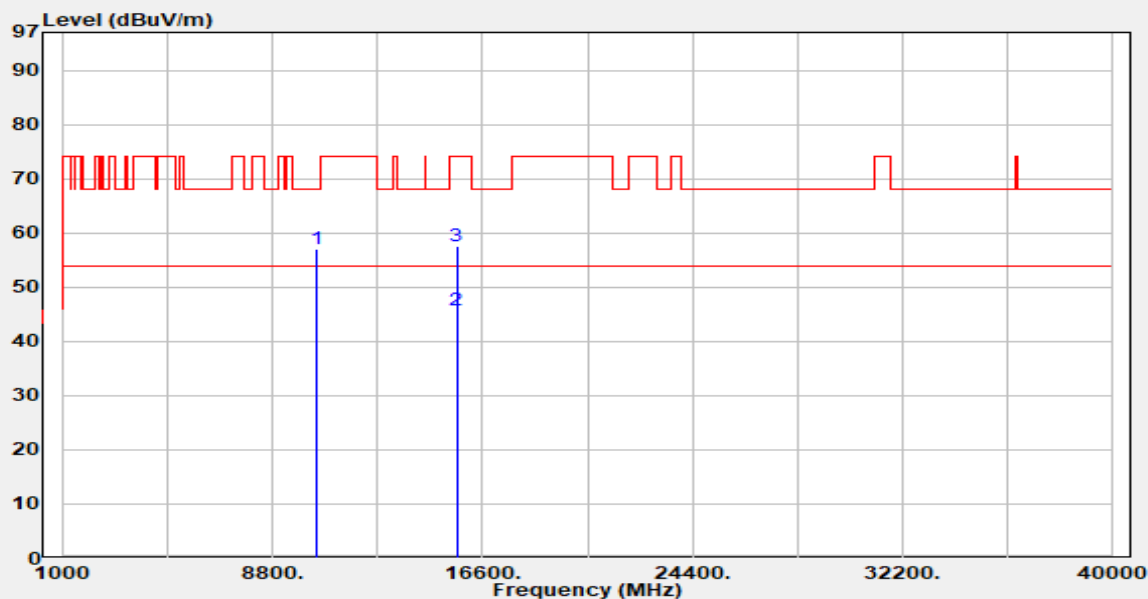
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10420.000	Peak	37.73	19.49	57.22	68.20	-10.98
15630.000	Average	24.27	21.48	45.75	54.00	-8.25
15630.000	Peak	36.10	21.48	57.58	74.00	-16.42

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Report Number :TERF2303000790ER
Operation Mode :802.11ac80
Test Frequency :5210 MHz
Test Mode :Tx
EUT Pol :H Plane

Test Site :SAC 1
Test Date :2023-04-21
Temp./Humi. :23.6/62
Antenna Pol. :Horizontal
Engineer :WJ Lin



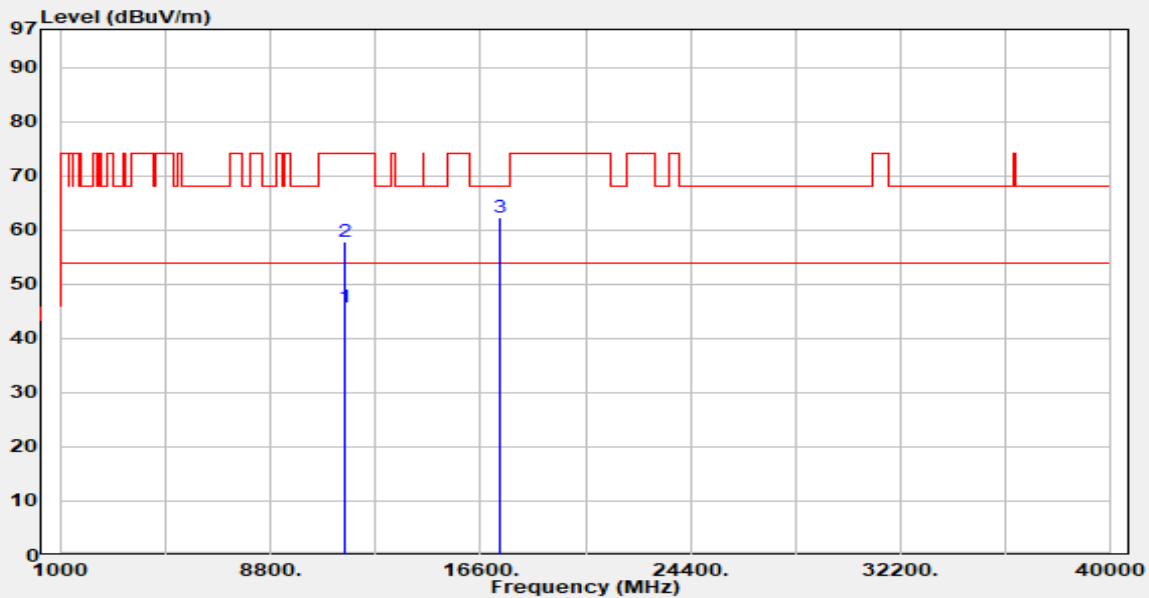
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10420.000	Peak	37.46	19.49	56.95	68.20	-11.25
15630.000	Average	24.33	21.48	45.81	54.00	-8.19
15630.000	Peak	36.14	21.48	57.62	74.00	-16.38

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Report Number :TERF2303000790ER
Operation Mode :802.11ac80
Test Frequency :5775 MHz
Test Mode :Tx
EUT Pol :H Plane

Test Site :SAC 1
Test Date :2023-04-21
Temp./Humi. :23.6/62
Antenna Pol. :Vertical
Engineer :WJ Lin



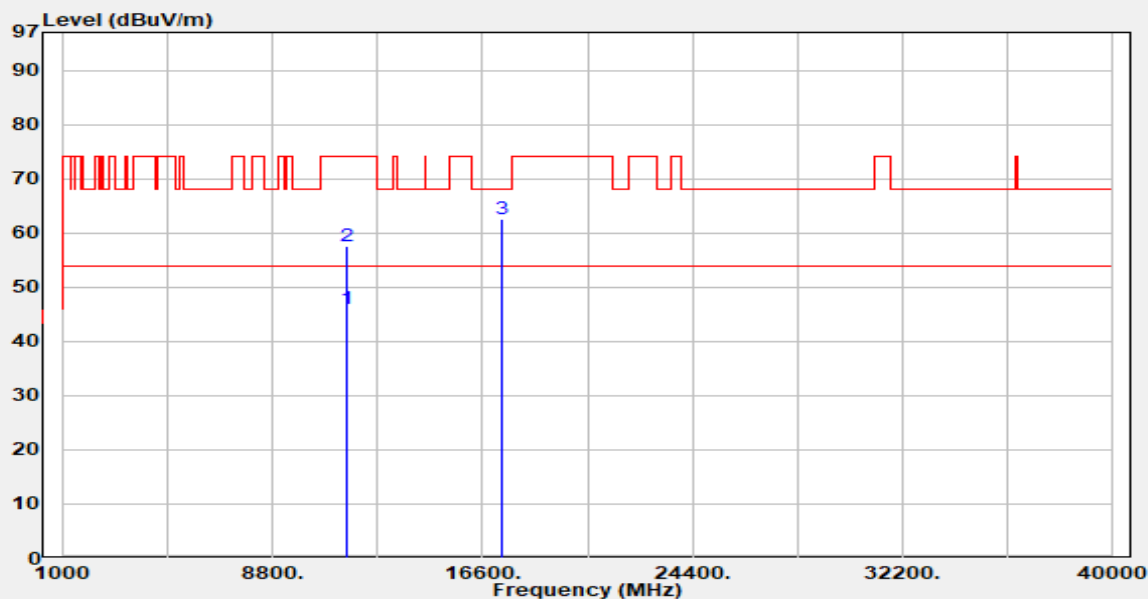
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11550.000	Average	24.74	21.11	45.85	54.00	-8.15
11550.000	Peak	36.65	21.11	57.76	74.00	-16.24
17325.000	Peak	35.20	27.22	62.42	68.20	-5.78

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Report Number :TERF2303000790ER
 Operation Mode :802.11ac80
 Test Frequency :5775 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-04-21
 Temp./Humi. :23.6/62
 Antenna Pol. :Horizontal
 Engineer :WJ Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11550.000	Average	24.81	21.11	45.92	54.00	-8.08
11550.000	Peak	36.36	21.11	57.47	74.00	-16.53
17325.000	Peak	35.24	27.22	62.46	68.20	-5.74

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11.6.2 Band edge falling to restricted band

(Bandedge)

Report Number :TERF2303000790ER

Test Site :SAC 1

Operation Mode :802.11a

Test Date :2023-04-21

Test Frequency :5180 MHz

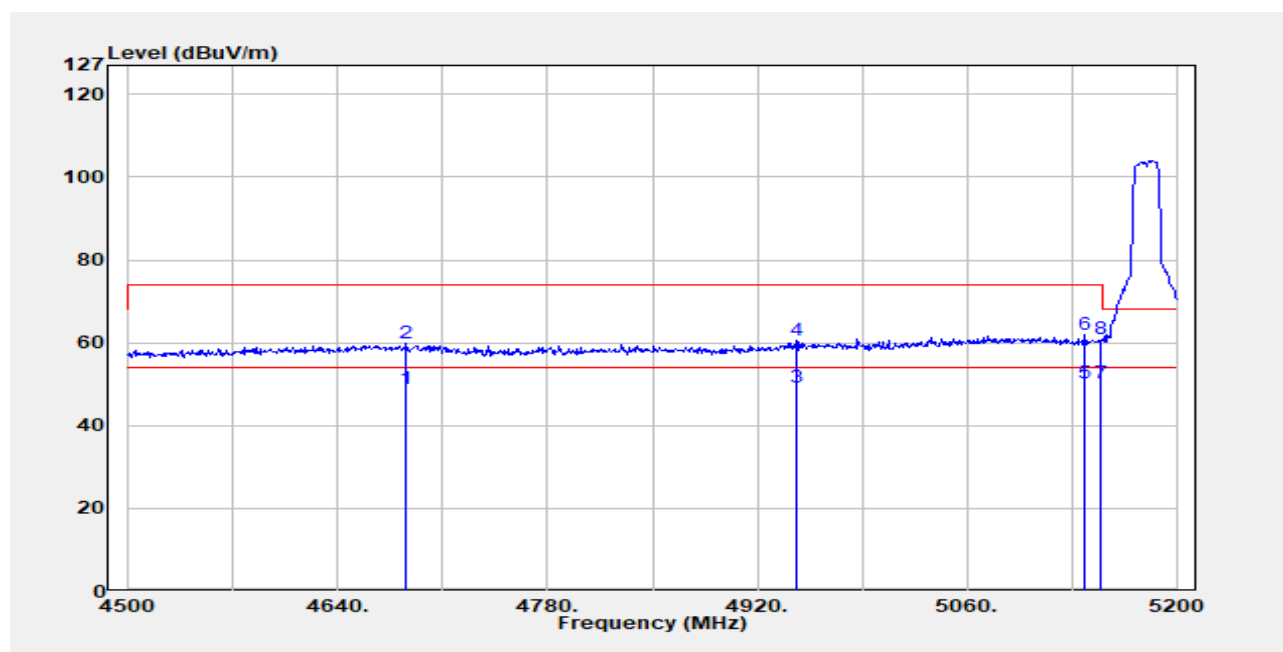
Temp./Humi. :23.6/62

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :WJ Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4685.500	Average	41.72	7.27	48.99	54.00	-5.01
4685.500	Peak	52.60	7.27	59.86	74.00	-14.14
4945.900	Average	41.42	7.94	49.36	54.00	-4.64
4945.900	Peak	52.63	7.94	60.57	74.00	-13.43
5138.400	Average	41.69	8.72	50.41	54.00	-3.59
5138.400	Peak	53.25	8.72	61.97	74.00	-12.03
5150.000	Average	41.65	8.61	50.26	54.00	-3.74
5150.000	Peak	52.22	8.61	60.82	74.00	-13.18

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t (886-2) 2299-3279

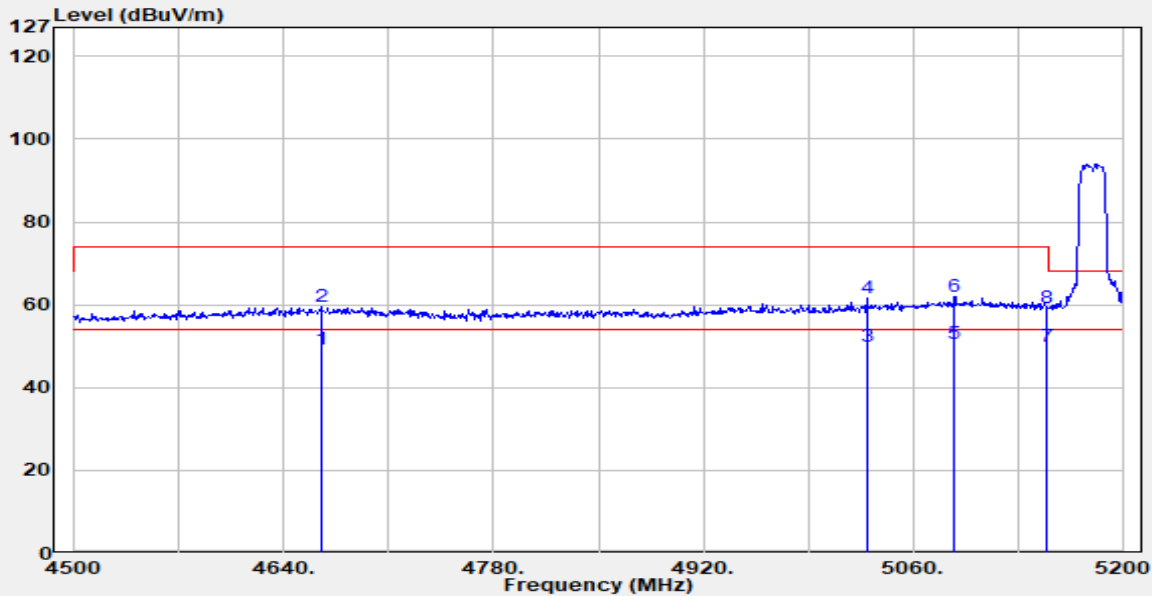
f (886-2) 2298-0488

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Member of SGS Group

Report Number :TERF2303000790ER
Operation Mode :802.11a
Test Frequency :5180 MHz
Test Mode :Bandedge
EUT Pol :H Plane

Test Site :SAC 1
Test Date :2023-04-21
Temp./Humi. :23.6/62
Antenna Pol. :Horizontal
Engineer :WJ Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4664.500	Average	42.25	6.97	49.22	54.00	-4.78
4664.500	Peak	52.65	6.97	59.62	74.00	-14.38
5029.200	Average	41.77	8.08	49.85	54.00	-4.15
5029.200	Peak	53.60	8.08	61.69	74.00	-12.31
5088.000	Average	41.77	8.92	50.69	54.00	-3.31
5088.000	Peak	53.08	8.92	62.00	74.00	-12.00
5150.000	Average	41.38	8.61	49.99	54.00	-4.01
5150.000	Peak	50.51	8.61	59.12	74.00	-14.88

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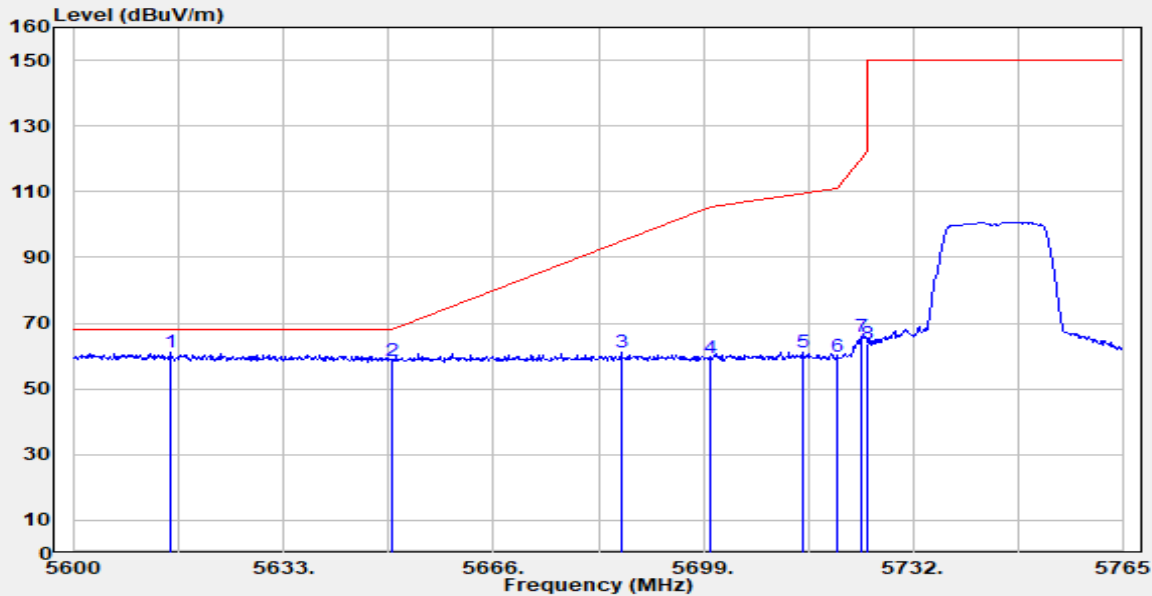
f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

Report Number :TERF2303000790ER
Operation Mode :802.11a
Test Frequency :5745 MHz
Test Mode :Bandedge
EUT Pol :H Plane

Test Site :SAC 1
Test Date :2023-04-21
Temp./Humi. :23.6/62
Antenna Pol. :Vertical
Engineer :WJ Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5615.015	Peak	52.18	9.00	61.18	68.20	-7.02
5650.000	Peak	49.97	8.49	58.45	68.20	-9.75
5686.130	Peak	52.01	8.98	61.00	94.94	-33.94
5700.000	Peak	50.18	9.17	59.35	105.20	-45.85
5714.675	Peak	52.00	9.24	61.23	109.31	-48.07
5720.000	Peak	50.51	9.26	59.76	110.80	-51.04
5723.750	Peak	56.60	9.27	65.88	119.35	-53.47
5725.000	Peak	54.64	9.28	63.92	122.20	-58.28

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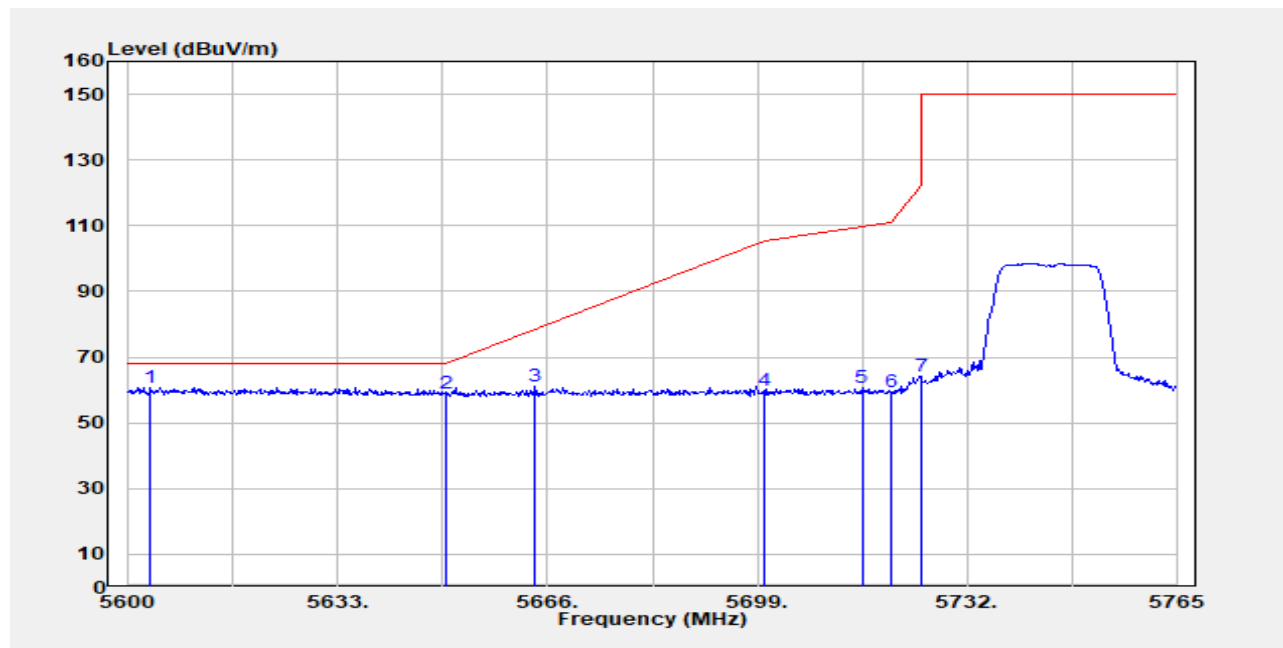
f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

Report Number :TERF2303000790ER
Operation Mode :802.11a
Test Frequency :5745 MHz
Test Mode :Bandedge
EUT Pol :H Plane

Test Site :SAC 1
Test Date :2023-04-21
Temp./Humi. :23.6/62
Antenna Pol. :Horizontal
Engineer :WJ Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5603.465	Peak	51.71	9.17	60.89	68.20	-7.31
5650.000	Peak	50.68	8.49	59.17	68.20	-9.03
5664.020	Peak	52.45	8.68	61.13	78.57	-17.45
5700.000	Peak	50.61	9.17	59.78	105.20	-45.42
5715.500	Peak	51.66	9.24	60.90	109.54	-48.64
5720.000	Peak	50.29	9.26	59.54	110.80	-51.26
5725.000	Peak	54.79	9.28	64.06	122.20	-58.14

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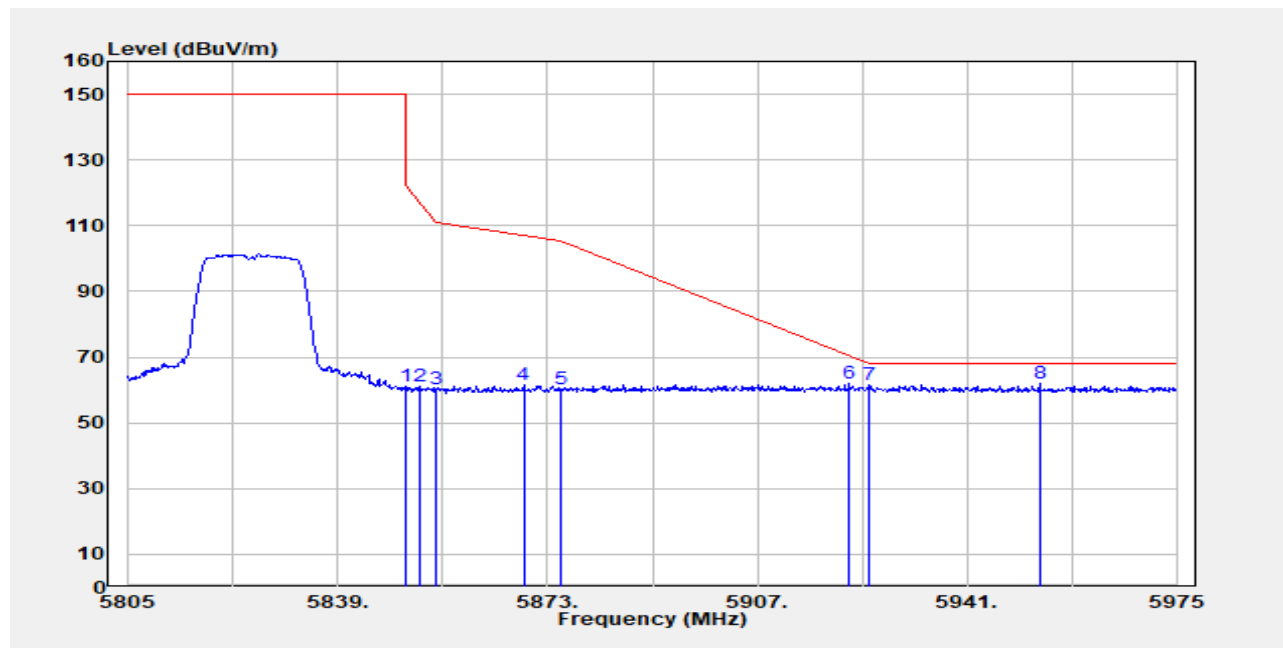
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Member of SGS Group

Report Number :TERF2303000790ER
Operation Mode :802.11a
Test Frequency :5825 MHz
Test Mode :Bandedge
EUT Pol :H Plane

Test Site :SAC 1
Test Date :2023-04-21
Temp./Humi. :23.6/62
Antenna Pol. :Vertical
Engineer :WJ Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.000	Peak	51.14	9.88	61.02	122.20	-61.18
5852.260	Peak	51.16	9.89	61.05	117.05	-56.00
5855.000	Peak	50.35	9.91	60.26	110.80	-50.54
5869.090	Peak	51.60	10.01	61.61	106.85	-45.24
5875.000	Peak	50.40	10.05	60.45	105.20	-44.75
5921.960	Peak	51.72	10.12	61.84	70.45	-8.61
5925.000	Peak	51.38	10.11	61.49	68.20	-6.71
5952.900	Peak	51.88	10.01	61.89	68.20	-6.31

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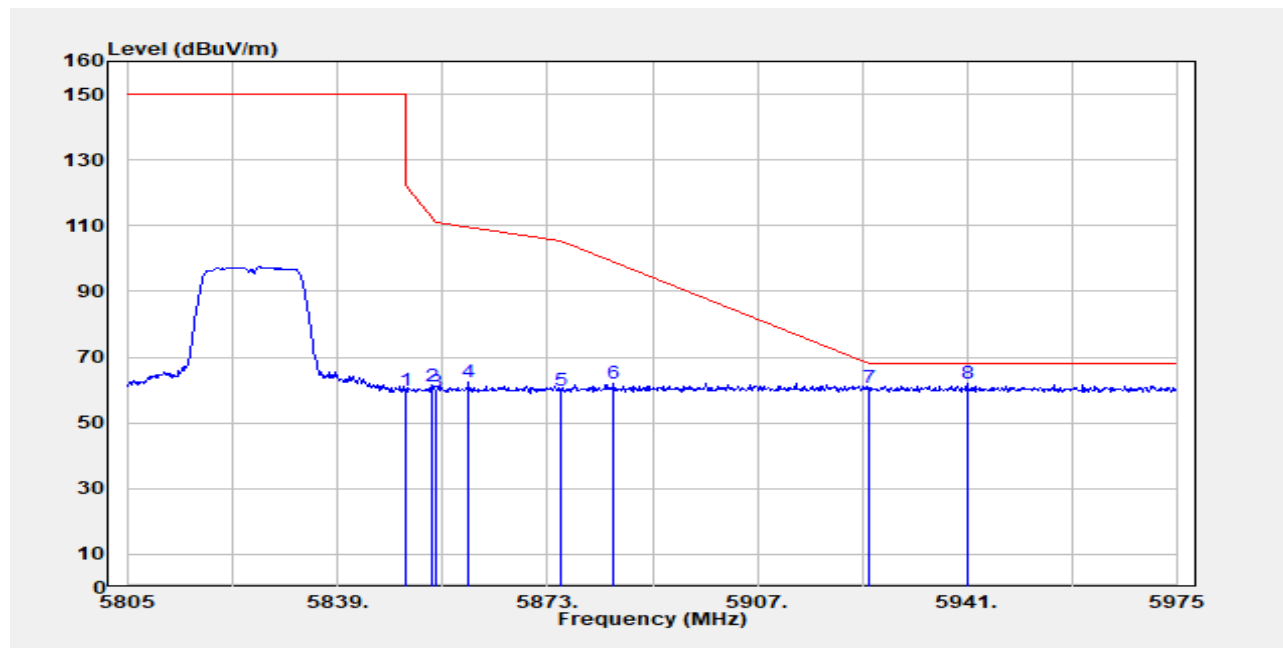
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Report Number :TERF2303000790ER
 Operation Mode :802.11a
 Test Frequency :5825 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-04-21
 Temp./Humi. :23.6/62
 Antenna Pol. :Horizontal
 Engineer :WJ Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5850.000	Peak	50.08	9.88	59.96	122.20	-62.24
5854.130	Peak	51.18	9.91	61.09	112.78	-51.70
5855.000	Peak	49.32	9.91	59.24	110.80	-51.56
5860.250	Peak	52.63	9.95	62.58	109.33	-46.75
5875.000	Peak	49.71	10.05	59.75	105.20	-45.45
5883.710	Peak	51.72	10.11	61.83	98.75	-36.92
5925.000	Peak	50.69	10.11	60.80	68.20	-7.40
5941.000	Peak	51.80	10.04	61.84	68.20	-6.36

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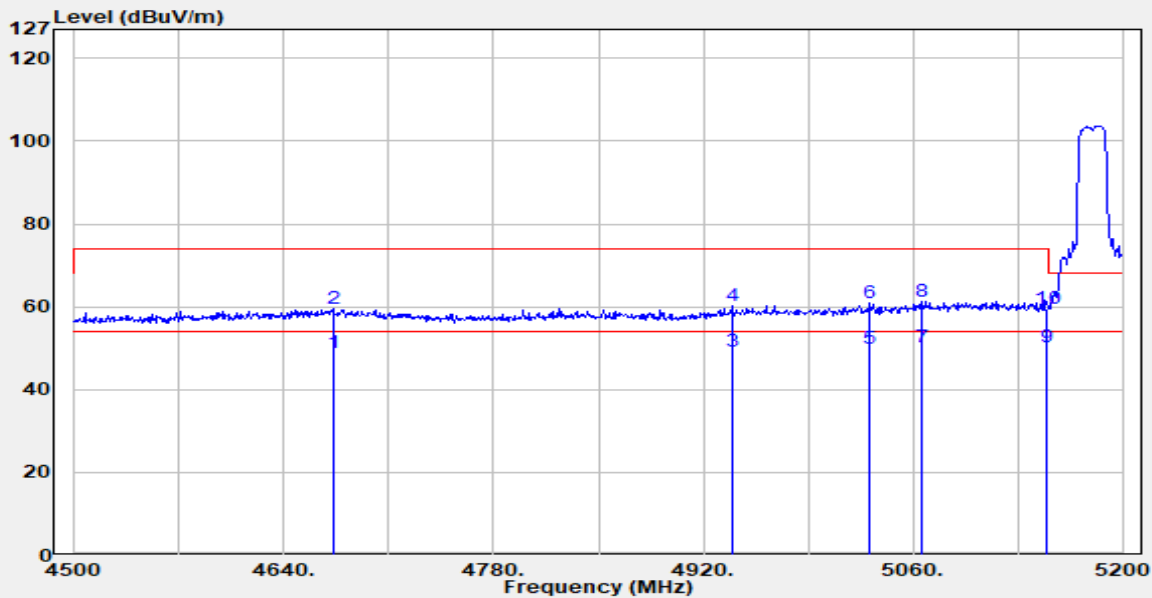
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Report Number :TERF2303000790ER
 Operation Mode :802.11n20
 Test Frequency :5180 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-04-21
 Temp./Humi. :23.6/62
 Antenna Pol. :Vertical
 Engineer :WJ Lin



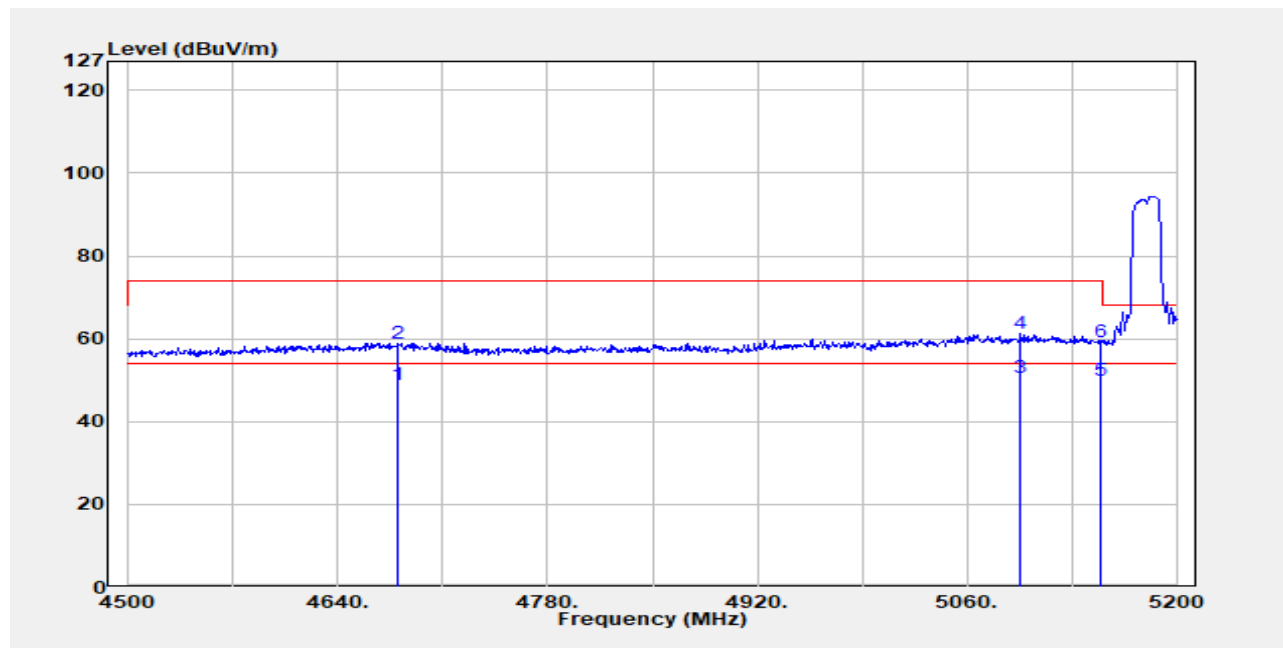
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4672.900	Average	41.88	7.09	48.97	54.00	-5.03
4672.900	Peak	52.46	7.09	59.55	74.00	-14.45
4938.900	Average	41.29	7.81	49.10	54.00	-4.90
4938.900	Peak	52.53	7.81	60.34	74.00	-13.66
5031.300	Average	41.73	8.12	49.85	54.00	-4.15
5031.300	Peak	52.65	8.12	60.77	74.00	-13.23
5065.600	Average	41.69	8.61	50.30	54.00	-3.70
5065.600	Peak	52.54	8.61	61.16	74.00	-12.84
5150.000	Average	41.62	8.61	50.23	54.00	-3.77
5150.000	Peak	50.98	8.61	59.58	74.00	-14.42

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Report Number :TERF2303000790ER
Operation Mode :802.11n20
Test Frequency :5180 MHz
Test Mode :Bandedge
EUT Pol :H Plane

Test Site :SAC 1
Test Date :2023-04-21
Temp./Humi. :23.6/62
Antenna Pol. :Horizontal
Engineer :WJ Lin



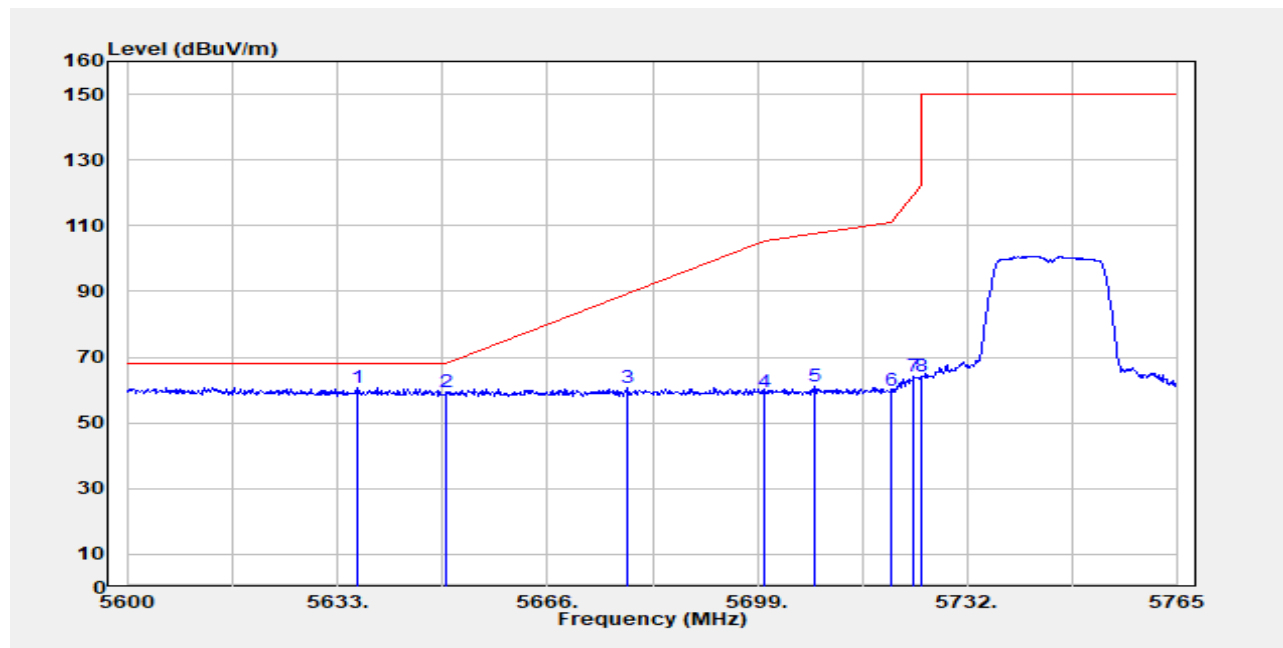
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4679.900	Average	41.59	7.19	48.78	54.00	-5.22
4679.900	Peak	51.83	7.19	59.01	74.00	-14.99
5095.700	Average	41.63	9.03	50.66	54.00	-3.34
5095.700	Peak	52.14	9.03	61.17	74.00	-12.83
5150.000	Average	41.46	8.61	50.07	54.00	-3.93
5150.000	Peak	50.61	8.61	59.22	74.00	-14.78

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Report Number :TERF2303000790ER
Operation Mode :802.11n20
Test Frequency :5745 MHz
Test Mode :Bandedge
EUT Pol :H Plane

Test Site :SAC 1
Test Date :2023-04-21
Temp./Humi. :23.6/62
Antenna Pol. :Vertical
Engineer :WJ Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5635.970	Peak	52.15	8.69	60.84	68.20	-7.36
5650.000	Peak	50.95	8.49	59.43	68.20	-8.77
5678.540	Peak	52.01	8.88	60.89	89.32	-28.43
5700.000	Peak	50.14	9.17	59.31	105.20	-45.89
5707.910	Peak	51.74	9.21	60.95	107.41	-46.46
5720.000	Peak	50.78	9.26	60.04	110.80	-50.76
5723.585	Peak	54.85	9.27	64.12	118.97	-54.85
5725.000	Peak	54.77	9.28	64.05	122.20	-58.15

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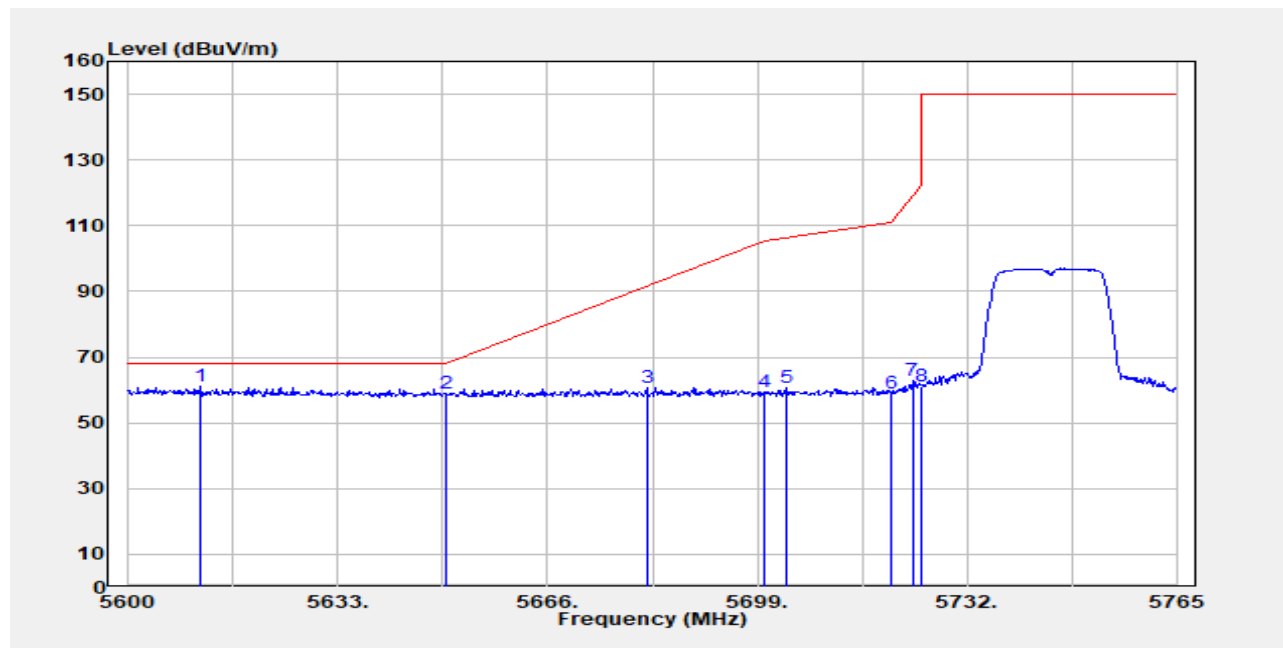
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Report Number :TERF2303000790ER
 Operation Mode :802.11n20
 Test Frequency :5745 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-04-21
 Temp./Humi. :23.6/62
 Antenna Pol. :Horizontal
 Engineer :WJ Lin



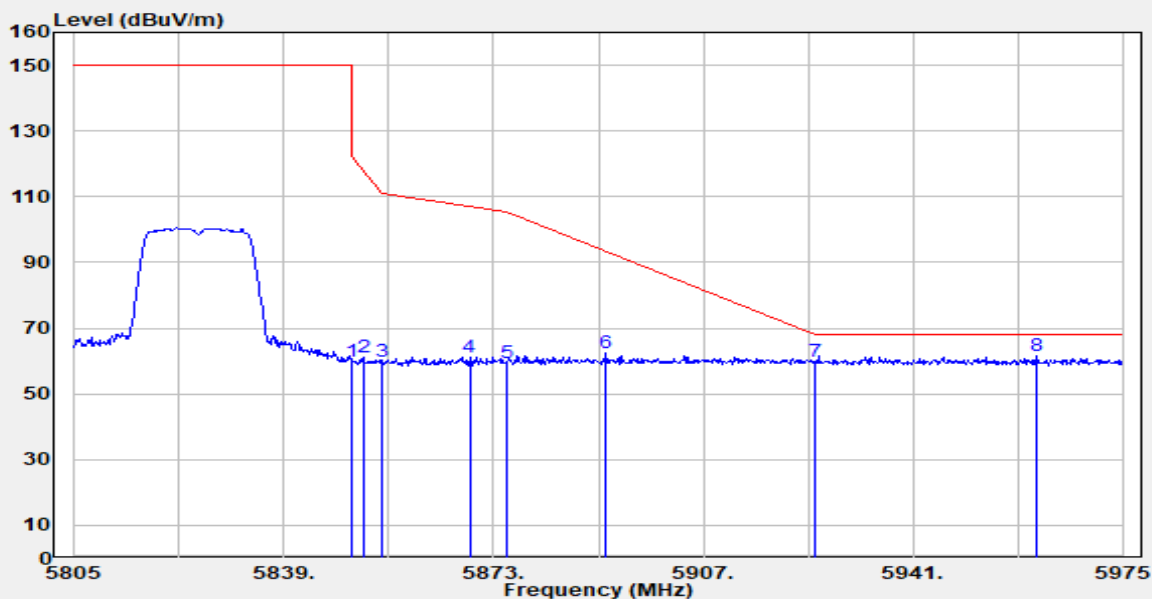
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5611.385	Peak	51.88	9.06	60.93	68.20	-7.27
5650.000	Peak	50.31	8.49	58.80	68.20	-9.40
5681.675	Peak	51.79	8.92	60.71	91.64	-30.93
5700.000	Peak	50.26	9.17	59.43	105.20	-45.77
5703.455	Peak	51.62	9.19	60.81	106.17	-45.36
5720.000	Peak	49.51	9.26	58.76	110.80	-52.04
5723.420	Peak	53.62	9.27	62.90	118.60	-55.70
5725.000	Peak	52.05	9.28	61.33	122.20	-60.87

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Report Number :TERF2303000790ER
 Operation Mode :802.11n20
 Test Frequency :5825 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-04-21
 Temp./Humi. :23.6/62
 Antenna Pol. :Vertical
 Engineer :WJ Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5850.000	Peak	49.76	9.88	59.64	122.20	-62.56
5851.920	Peak	51.30	9.89	61.20	117.82	-56.63
5855.000	Peak	50.03	9.91	59.94	110.80	-50.86
5869.090	Peak	51.28	10.01	61.28	106.85	-45.57
5875.000	Peak	49.57	10.05	59.62	105.20	-45.58
5891.190	Peak	52.27	10.16	62.43	93.22	-30.79
5925.000	Peak	49.52	10.11	59.63	68.20	-8.57
5961.230	Peak	51.69	10.04	61.73	68.20	-6.47

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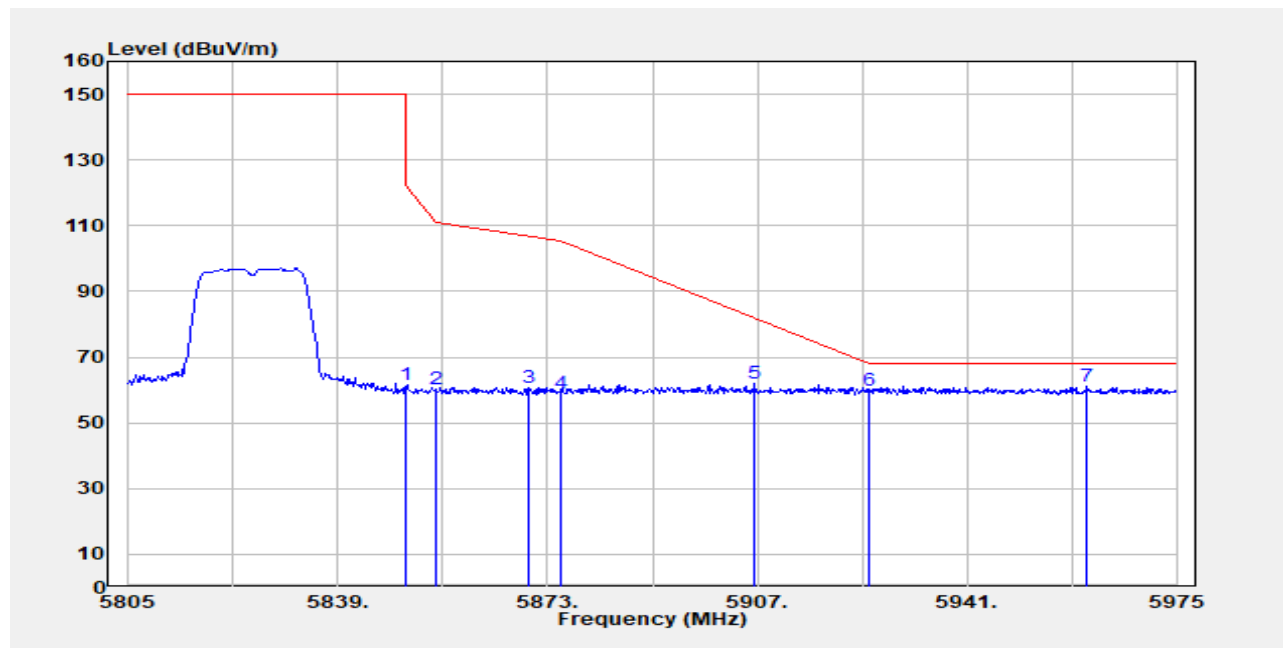
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Report Number :TERF2303000790ER
Operation Mode :802.11n20
Test Frequency :5825 MHz
Test Mode :Bandedge
EUT Pol :H Plane

Test Site :SAC 1
Test Date :2023-04-21
Temp./Humi. :23.6/62
Antenna Pol. :Horizontal
Engineer :WJ Lin



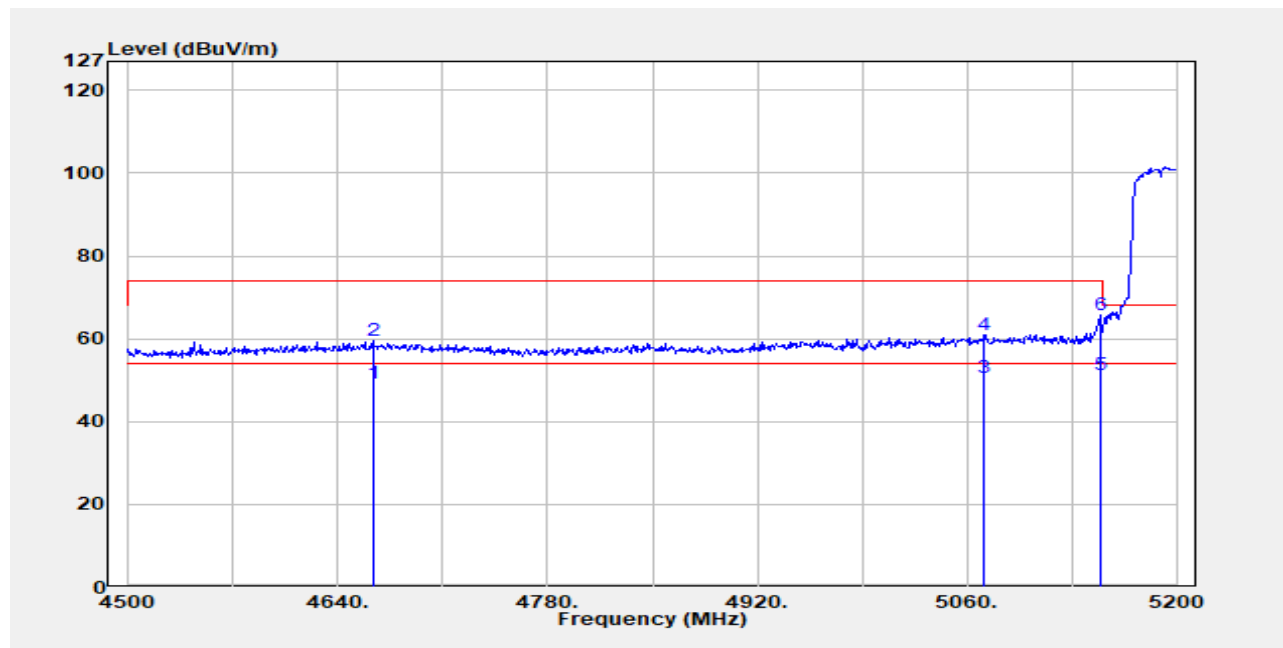
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.000	Peak	51.51	9.88	61.39	122.20	-60.81
5855.000	Peak	50.17	9.91	60.09	110.80	-50.71
5869.940	Peak	50.90	10.01	60.92	106.62	-45.70
5875.000	Peak	48.88	10.05	58.93	105.20	-46.27
5906.660	Peak	51.97	10.19	62.16	81.77	-19.62
5925.000	Peak	49.70	10.11	59.81	68.20	-8.39
5960.550	Peak	51.30	10.04	61.33	68.20	-6.87

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Report Number :TERF2303000790ER
Operation Mode :802.11n40
Test Frequency :5190 MHz
Test Mode :Bandedge
EUT Pol :H Plane

Test Site :SAC 1
Test Date :2023-04-21
Temp./Humi. :23.6/62
Antenna Pol. :Vertical
Engineer :WJ Lin



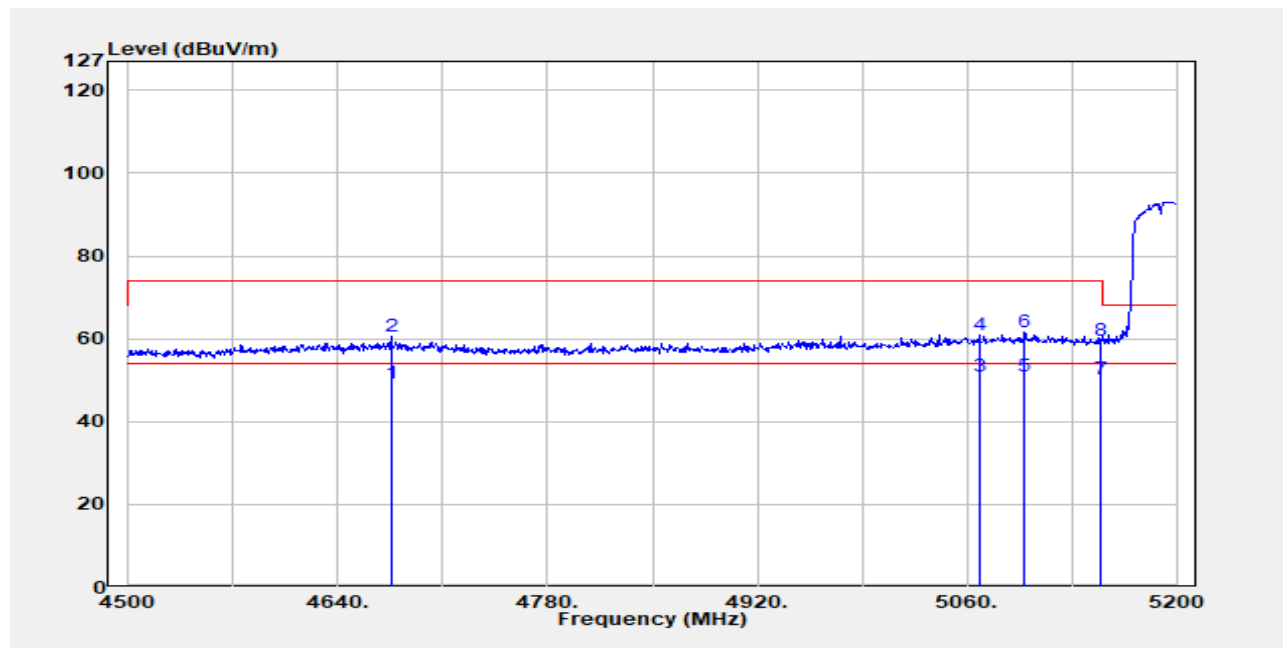
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4663.100	Average	42.38	6.95	49.33	54.00	-4.67
4663.100	Peak	52.47	6.95	59.42	74.00	-14.58
5071.900	Average	42.01	8.70	50.71	54.00	-3.29
5071.900	Peak	52.27	8.70	60.96	74.00	-13.04
5150.000	Average	42.80	8.61	51.41	54.00	-2.59
5150.000	Peak	57.15	8.61	65.76	74.00	-8.24

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Report Number :TERF2303000790ER
Operation Mode :802.11n40
Test Frequency :5190 MHz
Test Mode :Bandedge
EUT Pol :H Plane

Test Site :SAC 1
Test Date :2023-04-21
Temp./Humi. :23.6/62
Antenna Pol. :Horizontal
Engineer :WJ Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4675.700	Average	42.07	7.13	49.20	54.00	-4.80
4675.700	Peak	53.51	7.13	60.64	74.00	-13.36
5068.400	Average	42.21	8.65	50.86	54.00	-3.14
5068.400	Peak	52.21	8.65	60.86	74.00	-13.14
5098.500	Average	41.99	9.07	51.06	54.00	-2.94
5098.500	Peak	52.55	9.07	61.62	74.00	-12.38
5150.000	Average	41.77	8.61	50.38	54.00	-3.62
5150.000	Peak	50.87	8.61	59.48	74.00	-14.52

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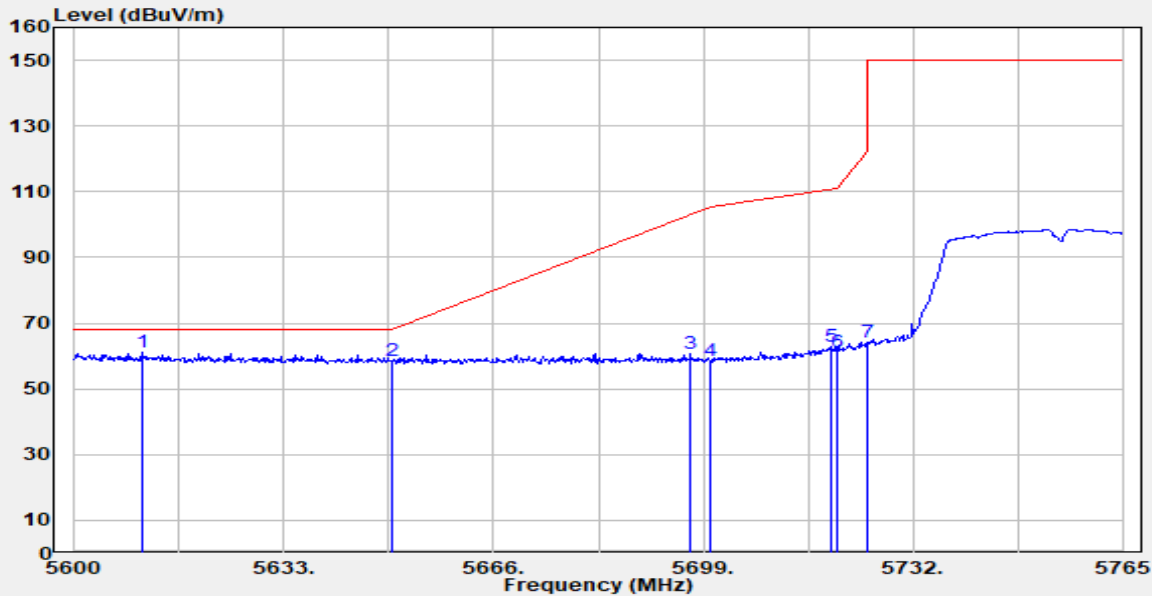
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Report Number :TERF2303000790ER
Operation Mode :802.11n40
Test Frequency :5755 MHz
Test Mode :Bandedge
EUT Pol :H Plane

Test Site :SAC 1
Test Date :2023-04-21
Temp./Humi. :23.6/62
Antenna Pol. :Vertical
Engineer :WJ Lin



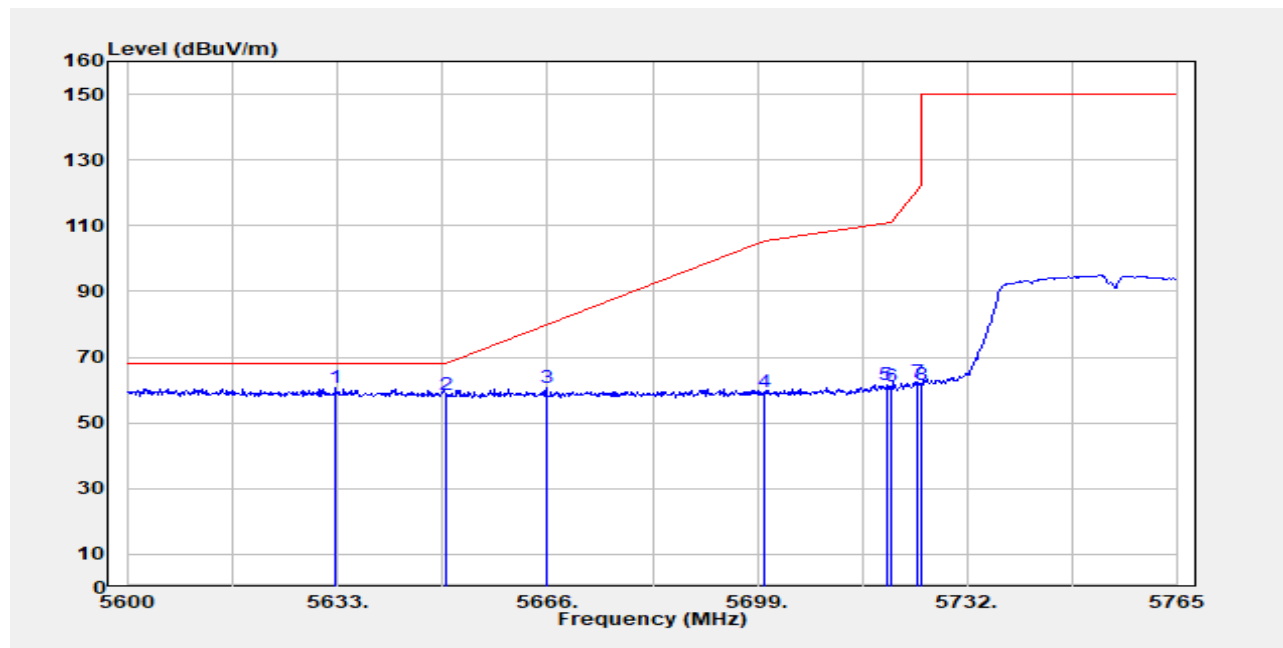
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5610.725	Peak	52.05	9.07	61.12	68.20	-7.08
5650.000	Peak	50.13	8.49	58.61	68.20	-9.59
5697.020	Peak	51.72	9.13	60.86	102.99	-42.14
5700.000	Peak	49.49	9.17	58.66	105.20	-46.54
5719.130	Peak	53.80	9.25	63.05	110.56	-47.50
5720.000	Peak	52.08	9.26	61.34	110.80	-49.46
5725.000	Peak	54.90	9.28	64.17	122.20	-58.03

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Report Number :TERF2303000790ER
Operation Mode :802.11n40
Test Frequency :5755 MHz
Test Mode :Bandedge
EUT Pol :H Plane

Test Site :SAC 1
Test Date :2023-04-21
Temp./Humi. :23.6/62
Antenna Pol. :Horizontal
Engineer :WJ Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5632.670	Peak	51.79	8.74	60.54	68.20	-7.66
5650.000	Peak	50.22	8.49	58.70	68.20	-9.50
5665.835	Peak	51.99	8.70	60.70	79.92	-19.22
5700.000	Peak	50.37	9.17	59.54	105.20	-45.66
5719.295	Peak	52.30	9.25	61.55	110.60	-49.05
5720.000	Peak	51.70	9.26	60.96	110.80	-49.84
5724.080	Peak	53.25	9.27	62.52	120.10	-57.58
5725.000	Peak	52.12	9.28	61.40	122.20	-60.80

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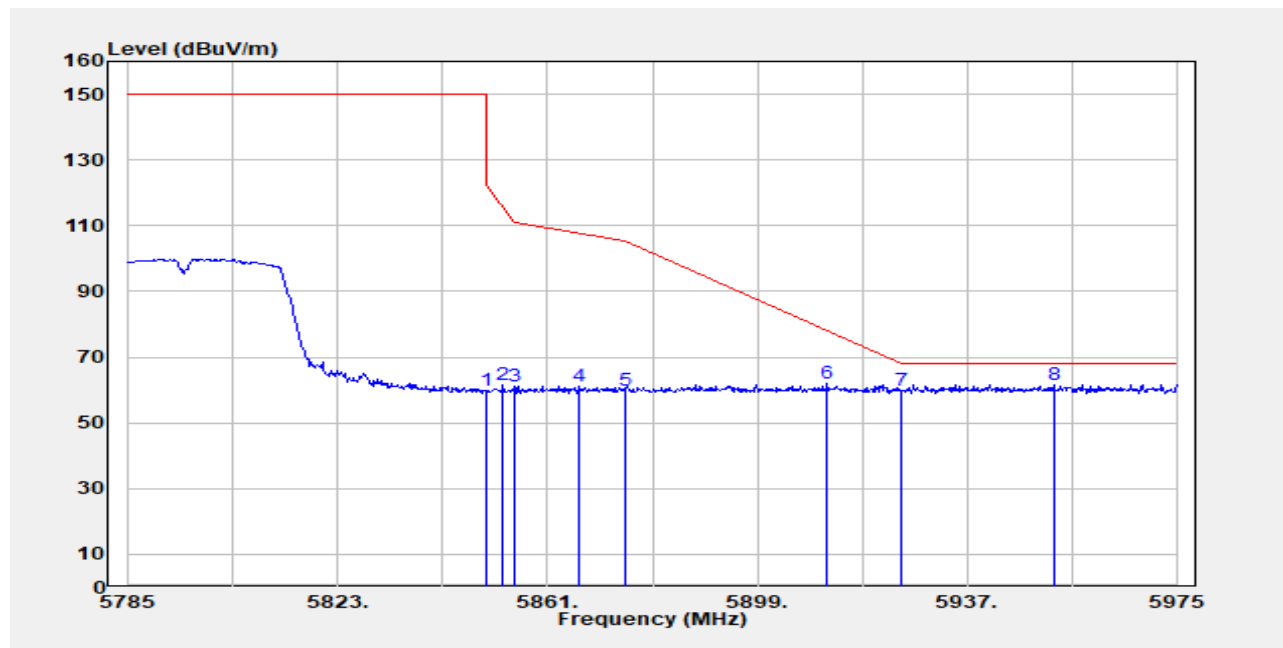
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Report Number :TERF2303000790ER
Operation Mode :802.11n40
Test Frequency :5795 MHz
Test Mode :Bandedge
EUT Pol :H Plane

Test Site :SAC 1
Test Date :2023-04-21
Temp./Humi. :23.6/62
Antenna Pol. :Vertical
Engineer :WJ Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.000	Peak	50.05	9.88	59.93	122.20	-62.27
5852.830	Peak	51.71	9.90	61.61	115.75	-54.14
5855.000	Peak	51.26	9.91	61.18	110.80	-49.62
5866.700	Peak	51.07	9.99	61.06	107.52	-46.47
5875.000	Peak	49.58	10.05	59.63	105.20	-45.57
5911.730	Peak	51.79	10.17	61.95	78.02	-16.07
5925.000	Peak	49.61	10.11	59.72	68.20	-8.48
5952.770	Peak	51.57	10.01	61.58	68.20	-6.62

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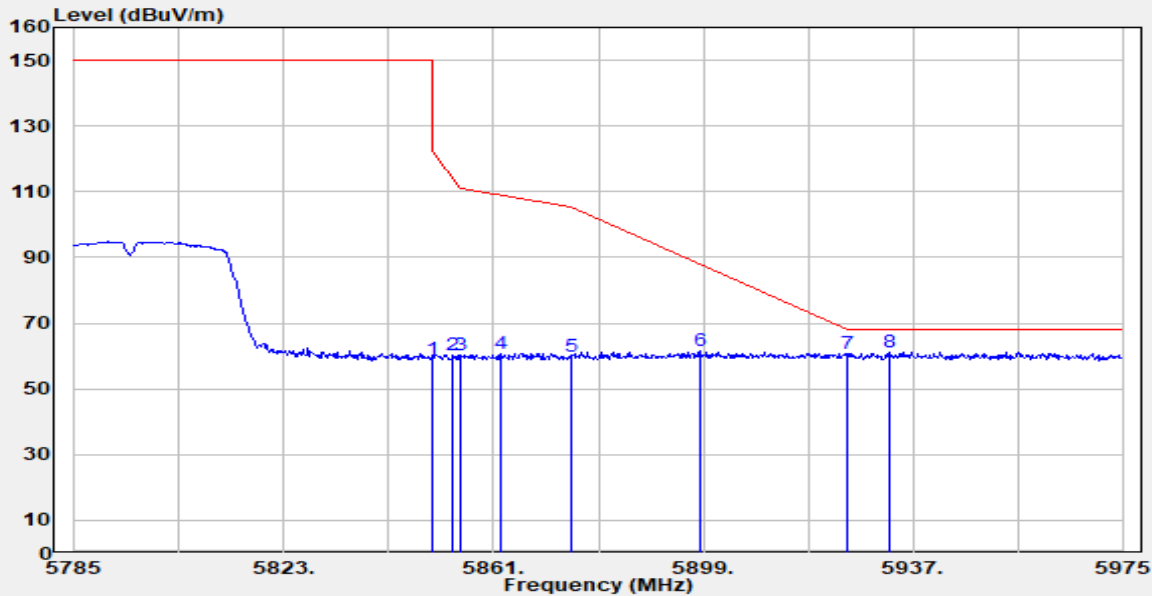
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Report Number :TERF2303000790ER
Operation Mode :802.11n40
Test Frequency :5795 MHz
Test Mode :Bandedge
EUT Pol :H Plane

Test Site :SAC 1
Test Date :2023-04-21
Temp./Humi. :23.6/62
Antenna Pol. :Horizontal
Engineer :WJ Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5850.000	Peak	49.26	9.88	59.14	122.20	-63.06
5853.590	Peak	50.48	9.90	60.38	114.02	-53.63
5855.000	Peak	50.20	9.91	60.12	110.80	-50.68
5862.330	Peak	50.95	9.96	60.91	108.75	-47.84
5875.000	Peak	49.79	10.05	59.84	105.20	-45.36
5898.620	Peak	51.32	10.21	61.52	87.72	-26.20
5925.000	Peak	50.74	10.11	60.84	68.20	-7.36
5932.630	Peak	51.17	10.08	61.25	68.20	-6.95

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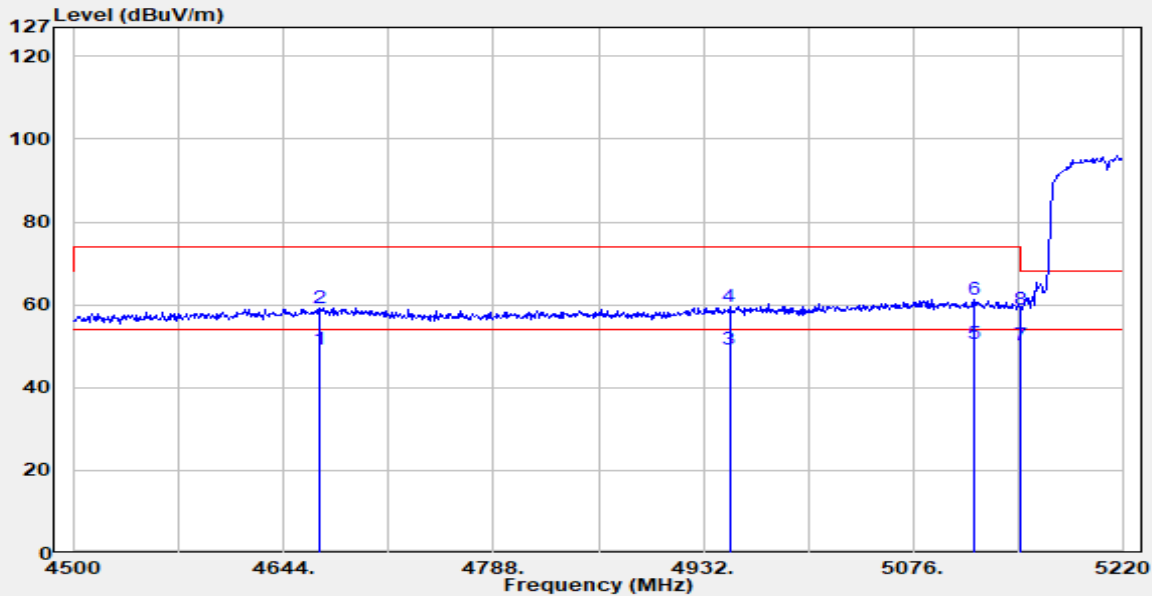
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Report Number :TERF2303000790ER
Operation Mode :802.11ac80
Test Frequency :5210 MHz
Test Mode :Bandedge
EUT Pol :H Plane

Test Site :SAC 1
Test Date :2023-04-21
Temp./Humi. :23.6/62
Antenna Pol. :Vertical
Engineer :WJ Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4668.480	Average	42.04	7.03	49.07	54.00	-4.93
4668.480	Peak	52.33	7.03	59.36	74.00	-14.64
4950.000	Average	41.32	8.02	49.34	54.00	-4.66
4950.000	Peak	51.60	8.02	59.62	74.00	-14.38
5118.480	Average	41.73	8.91	50.64	54.00	-3.36
5118.480	Peak	52.37	8.91	61.27	74.00	-12.73
5150.000	Average	41.50	8.61	50.11	54.00	-3.89
5150.000	Peak	50.41	8.61	59.01	74.00	-14.99

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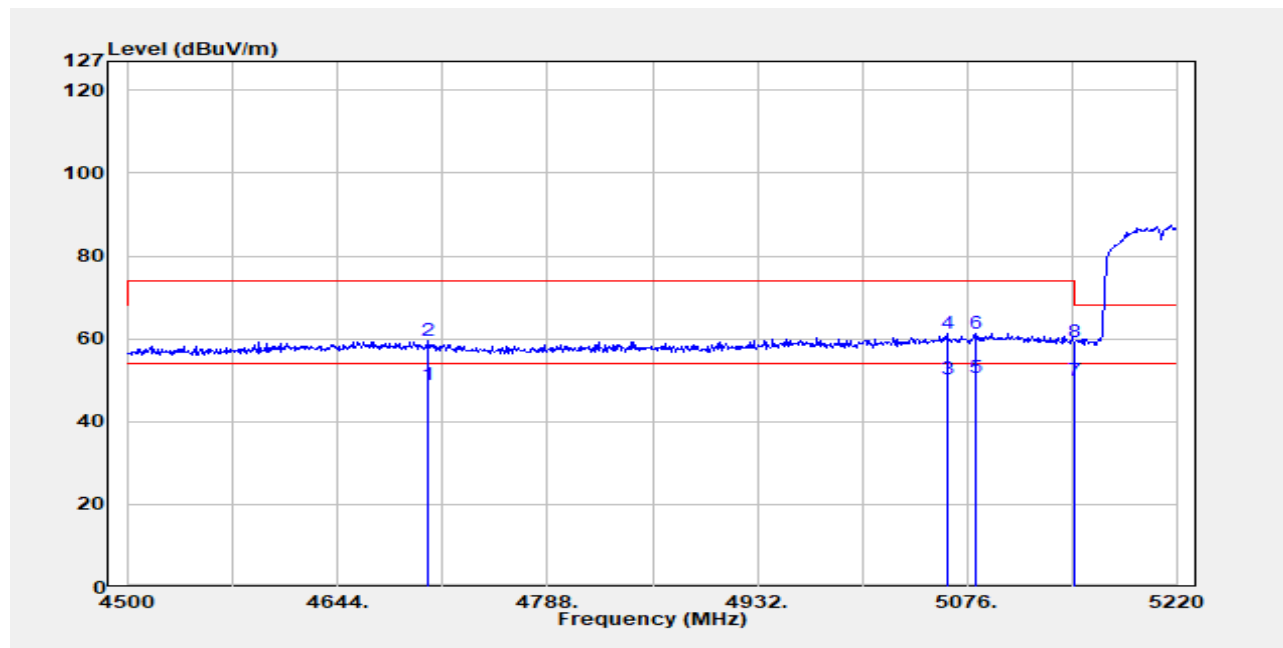
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Report Number :TERF2303000790ER
Operation Mode :802.11ac80
Test Frequency :5210 MHz
Test Mode :Bandedge
EUT Pol :H Plane

Test Site :SAC 1
Test Date :2023-04-21
Temp./Humi. :23.6/62
Antenna Pol. :Horizontal
Engineer :WJ Lin



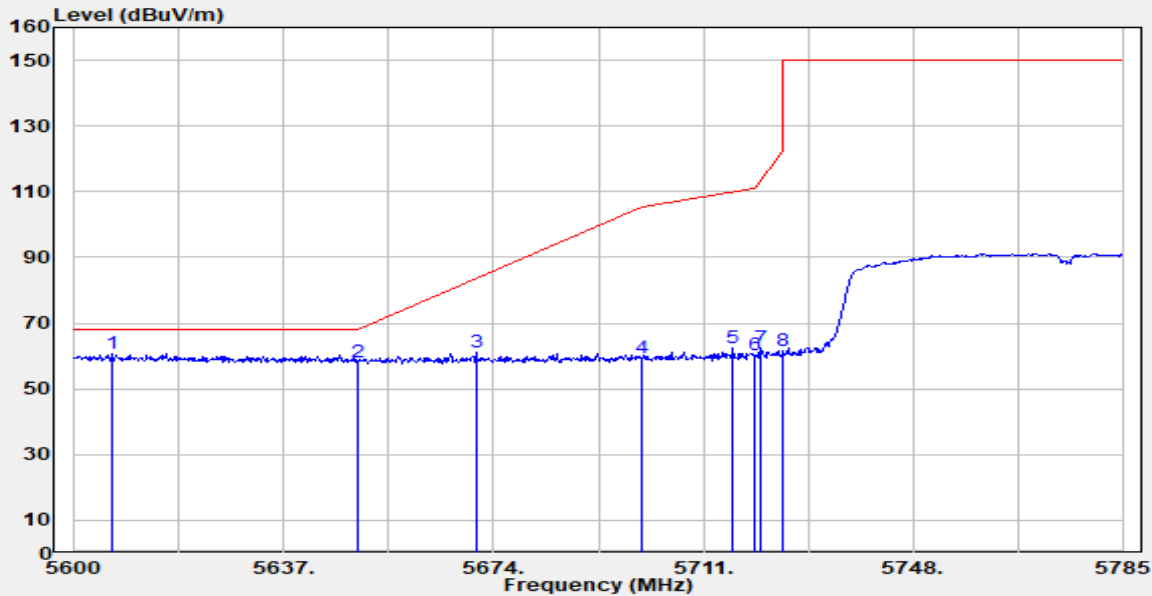
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4705.920	Average	41.39	7.43	48.82	54.00	-5.18
4705.920	Peak	52.25	7.43	59.68	74.00	-14.32
5062.320	Average	41.77	8.57	50.34	54.00	-3.66
5062.320	Peak	52.72	8.57	61.28	74.00	-12.72
5081.760	Average	41.77	8.84	50.61	54.00	-3.39
5081.760	Peak	52.53	8.84	61.36	74.00	-12.64
5150.000	Average	41.33	8.61	49.94	54.00	-4.06
5150.000	Peak	50.43	8.61	59.03	74.00	-14.97

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Report Number :TERF2303000790ER
 Operation Mode :802.11ac80
 Test Frequency :5775 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-04-21
 Temp./Humi. :23.6/62
 Antenna Pol. :Vertical
 Engineer :WJ Lin



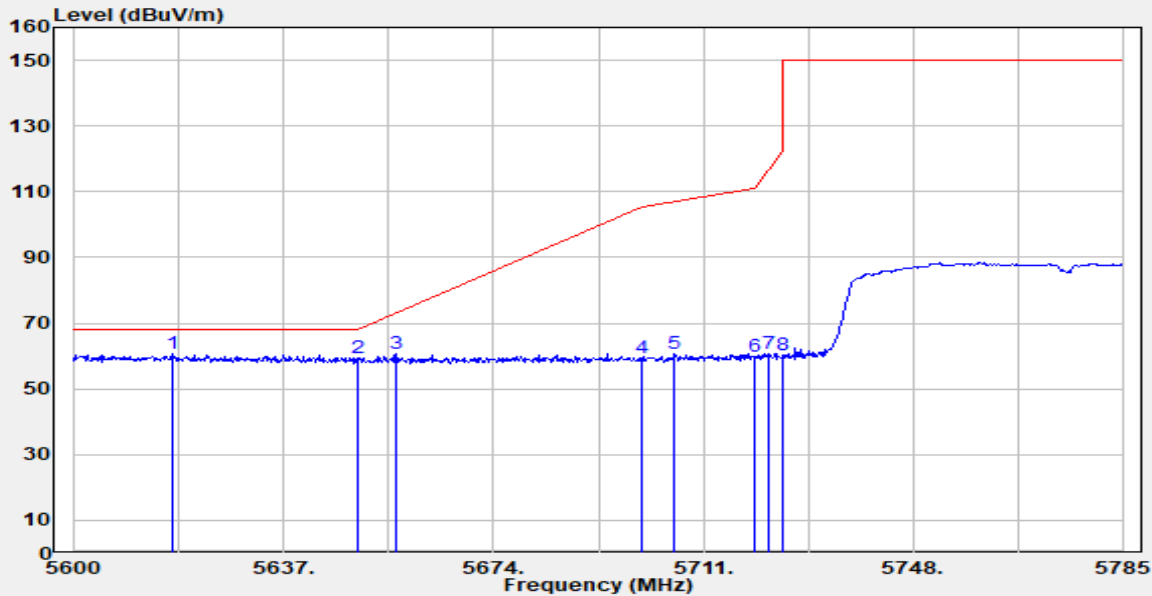
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5606.660	Peak	51.56	9.13	60.69	68.20	-7.51
5650.000	Peak	49.80	8.49	58.28	68.20	-9.92
5670.855	Peak	52.17	8.77	60.94	83.63	-22.69
5700.000	Peak	50.32	9.17	59.49	105.20	-45.71
5716.180	Peak	53.23	9.24	62.47	109.73	-47.26
5720.000	Peak	51.10	9.26	60.36	110.80	-50.44
5721.175	Peak	52.98	9.26	62.25	113.48	-51.23
5725.000	Peak	52.31	9.28	61.59	122.20	-60.61

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Report Number :TERF2303000790ER
 Operation Mode :802.11ac80
 Test Frequency :5775 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-04-21
 Temp./Humi. :23.6/62
 Antenna Pol. :Horizontal
 Engineer :WJ Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5617.205	Peak	51.69	8.97	60.66	68.20	-7.54
5650.000	Peak	50.95	8.49	59.44	68.20	-8.76
5656.795	Peak	51.95	8.58	60.53	73.23	-12.70
5700.000	Peak	50.09	9.17	59.26	105.20	-45.94
5706.005	Peak	51.36	9.20	60.56	106.88	-46.32
5720.000	Peak	50.68	9.26	59.94	110.80	-50.86
5722.655	Peak	51.42	9.27	60.69	116.85	-56.16
5725.000	Peak	51.15	9.28	60.43	122.20	-61.77

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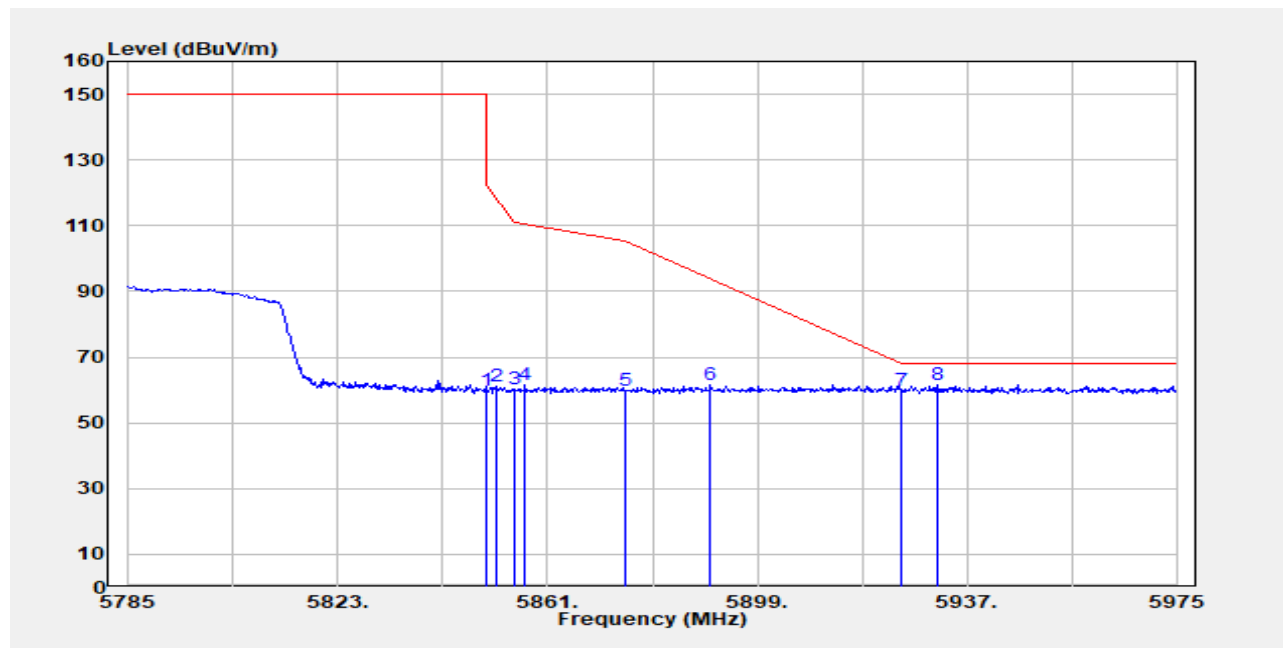
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Report Number :TERF2303000790ER
Operation Mode :802.11ac80
Test Frequency :5775 MHz
Test Mode :Bandedge
EUT Pol :H Plane

Test Site :SAC 1
Test Date :2023-04-21
Temp./Humi. :23.6/62
Antenna Pol. :Vertical
Engineer :WJ Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.000	Peak	49.90	9.88	59.78	122.20	-62.42
5851.690	Peak	51.07	9.89	60.96	118.35	-57.39
5855.000	Peak	50.20	9.91	60.11	110.80	-50.69
5856.820	Peak	51.49	9.93	61.42	110.29	-48.87
5875.000	Peak	49.76	10.05	59.80	105.20	-45.40
5890.450	Peak	51.53	10.15	61.68	93.77	-32.08
5925.000	Peak	49.93	10.11	60.04	68.20	-8.16
5931.680	Peak	51.47	10.08	61.55	68.20	-6.65

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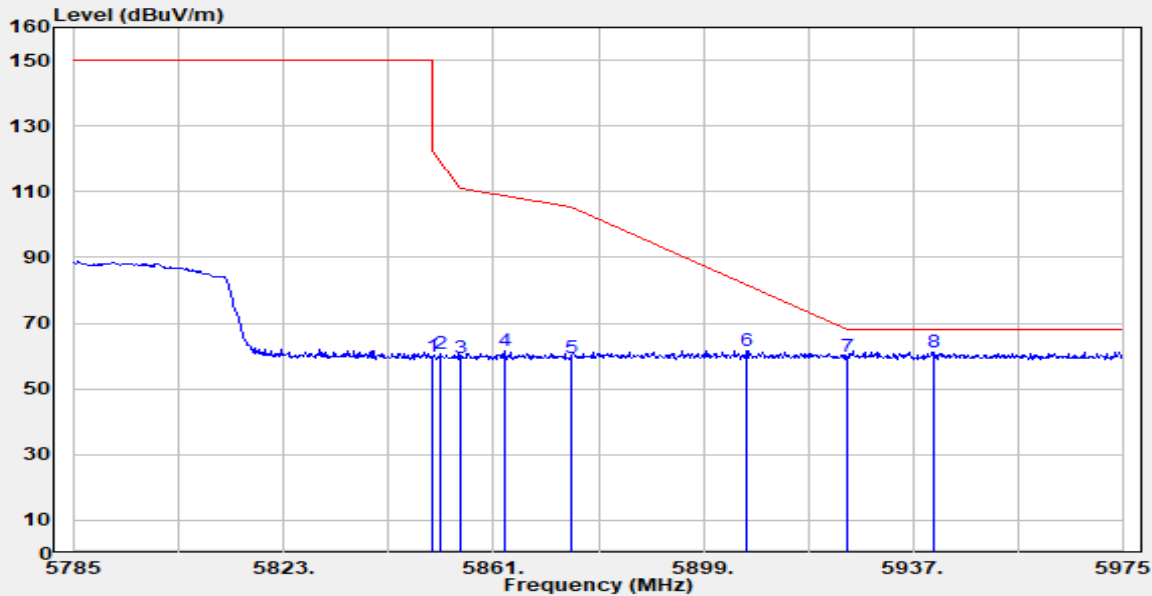
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Report Number :TERF2303000790ER
Operation Mode :802.11ac80
Test Frequency :5775 MHz
Test Mode :Bandedge
EUT Pol :H Plane

Test Site :SAC 1
Test Date :2023-04-21
Temp./Humi. :23.6/62
Antenna Pol. :Horizontal
Engineer :WJ Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.000	Peak	49.99	9.88	59.87	122.20	-62.33
5851.500	Peak	50.70	9.89	60.59	118.78	-58.19
5855.000	Peak	49.50	9.91	59.41	110.80	-51.39
5863.090	Peak	51.67	9.97	61.64	108.53	-46.90
5875.000	Peak	49.43	10.05	59.48	105.20	-45.72
5906.980	Peak	51.57	10.19	61.76	81.53	-19.78
5925.000	Peak	49.63	10.11	59.74	68.20	-8.46
5940.990	Peak	51.27	10.04	61.31	68.20	-6.89

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12 TRANSMISSION IN THE ABSENCE OF DATA

12.1 Standard Applicable

According to §15.407(c)

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization a description of how this requirement is met.

12.2 Result

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling signal of ASK message transmitting from remote device and verify whether it shall resend or discontinue transmission.

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13 ANTENNA REQUIREMENT

13.1 Standard Applicable

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. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§ 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

13.2 Antenna Connected Construction

The antenna complies with this requirement and no consideration of replacement. Please see EUT photo for details.

~ End of Report ~

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