

**ELECTROMAGNETIC EMISSIONS
COMPLIANCE REPORT**

Applicant: Wistron NeWeb Corporation
20 Park Avenue II, Hsinchu Science Park, Hsinchu 308,
Taiwan

Manufacturer: Wistron NeWeb Corporation
20 Park Avenue II, Hsinchu Science Park, Hsinchu 308,
Taiwan

Product Name: WNC WLAN (11a/b/g/n) 1x1 & BLE 5.0 LGA combo module

Brand Name: WNC

Model No.: DHSK-H04

Model Difference: N/A

Report Number: TERF2401000172E2

FCC ID NKR-DHSKH04

IC: 4441A-DHSKH04

Date of EUT Received: January 24, 2024

Date of Test: January 26, 2024 ~ February 23, 2024

Issue Date: March 8, 2024

Approved By _____

Jay Lin

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, ISED RSS-247.

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
TERF2401000172E2	00	Original	March 8, 2024	Yuri Tsai	

Note:

- The remark "*" indicates modification of the report upon requests from certification body.

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1 GENERAL INFORMATION

1.1 Product Description

Product Name:	WNC WLAN (11a/b/g/n) 1x1 & BLE 5.0 LGA combo module
Brand Name:	WNC
Model No.:	DHSK-H04
Model Difference:	N/A
Hardware Version:	G02
Firmware Version:	1
EUT Series No.:	10E8A7EFAE20
Power Supply:	3.3Vdc
Test Software (Name/Version)	AmebaD_mptool_2V2

1.2 Modulation & Data Rate

Modulation type:	64QAM, 16QAM, QPSK, BPSK for OFDM in 802.11a, 11n
Transition Rate:	802.11 a: 6 - 54 Mbps
	802.11 n_HT20: up to 72.2 Mbps
	802.11 n_HT40: up to 150 Mbps

1.3 Antenna Designation

Antenna Type	Supplier	Antenna Part No.	Freq. (MHz)	Peak Antenna Gain (dBi)
Printed coupled-fed	WNC	DHSK-H04	5150~5250	1.8
			5250~5350	1.4
			5470~5725	1.7
			5725~5850	1.2

Note: 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
802.11a/ 802.11n_HT20	5180~5240	4	17.95 dBm	OFDM
	5260~5320	4	17.93 dBm	OFDM
	5500~5720	12	17.97 dBm	OFDM
	5745-5825	5	17.93 dBm	OFDM
802.11n_HT40	5190~5230	2	17.72 dBm	OFDM
	5270~5310	2	17.87 dBm	OFDM
	5510~5710	6	17.93 dBm	OFDM
	5755-5795	2	17.87 dBm	OFDM

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WLAN 5 GHz for ISED (Slave)

Wi-Fi	Frequency Range	Channels	EIRP/Avg	Rated Power(EIRP/Avg) (dBm) (Worst Case)	Modulation Technology
802.11a/ 802.11n_HT20	5180~5240	4	EIRP	19.75 dBm	OFDM
	5260~5320	4	Avg	17.93 dBm	OFDM
	5500~5700	11	Avg	17.97 dBm	OFDM
	5720 (U-NII 2C)	1	Avg	16.41 dBm	OFDM
	5720 (U-NII 3)	1	Avg	12.98 dBm	OFDM
	5745-5825	5	Avg	17.93 dBm	OFDM
802.11n_HT40	5190~5230	2	EIRP	19.52 dBm	OFDM
	5270~5310	2	Avg	17.87 dBm	OFDM
	5510~5670	5	Avg	17.93 dBm	OFDM
	5710 (U-NII 2C)	1	Avg	16.63 dBm	OFDM
	5710 (U-NII 3)	1	Avg	11.59 dBm	OFDM
	5755-5795	2	Avg	17.87 dBm	OFDM

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1.6 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
 RSS-247 issue 3 Aug. 2023
 RSS-Gen, issue 5 April, 2018
 ANSI C63.10:2013

1.7 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.

1.8 Special Accessories

There are no special accessories used while test was conducted.

1.9 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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2.4 Measurement Results Explanation Example

2.4.1 Radiated Emission Test Sites For Measurements From 9 kHz To 30 MHz

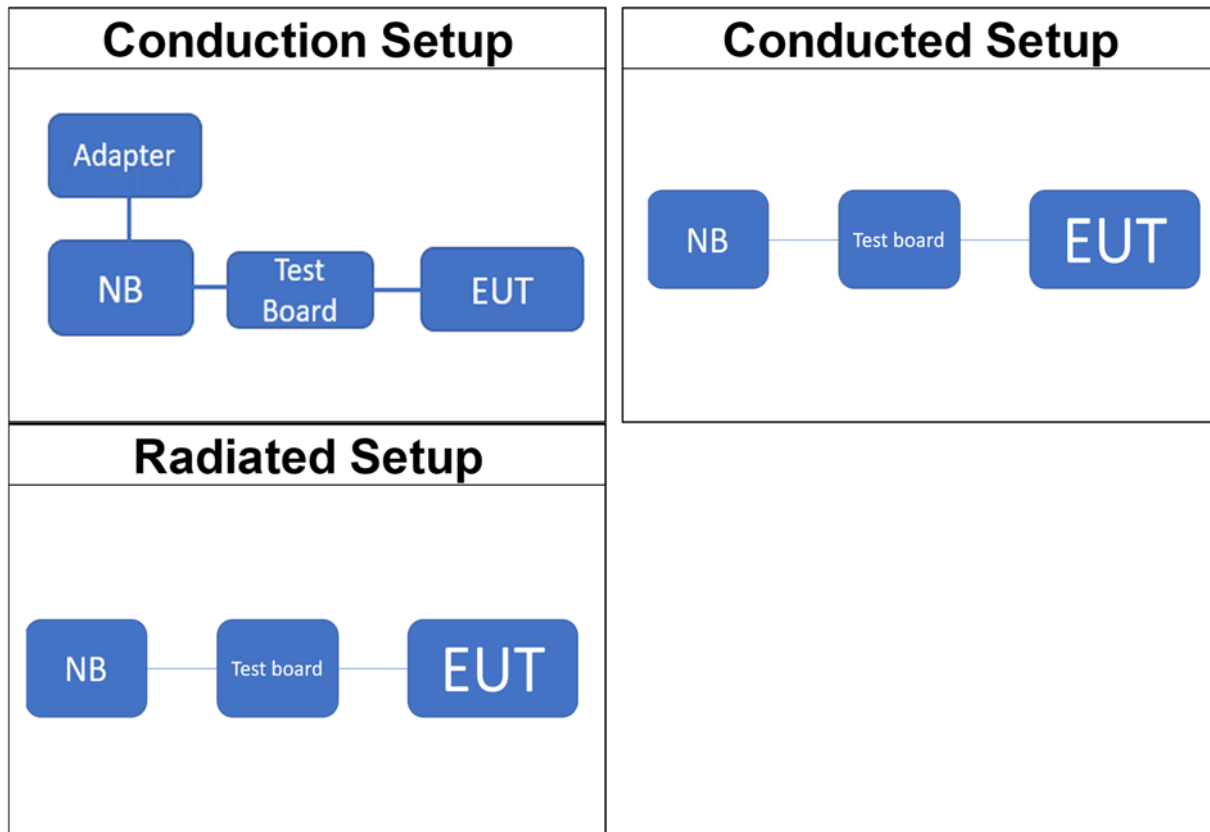
Radiated emission below 30MHz is measured in a 9m*6m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

2.4.2 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



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2.6 Control Unit(s)

AC Power-Line Conducted Emission Test Site: Conduction C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Notebook	Lenovo	L480	P0002332	N/A	N/A
NB Adapter	Lenovo	ADLX65YLC3A	8SSA10M13945L1CZ 88NOF8W	N/A	N/A
Test board	WNC	48DHSK45.SGA	N/A	N/A	N/A
USB Cable	RONEVER	VPC-70	N/A	N/A	N/A
Conducted Emission Test Site: Conducted G					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Notebook	Lenovo	T470	P0001293	N/A	N/A
Test board	WNC	48DHSK45.SGA	N/A	N/A	N/A
USB Cable	RONEVER	VPC-70	N/A	N/A	N/A
Radiated Emission Test Site: SAC D					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Notebook	Lenovo	L480	P0002332	N/A	N/A
Test board	WNC	48DHSK45.SGA	N/A	N/A	N/A
USB Cable	RONEVER	VPC-70	N/A	N/A	N/A

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3 SUMMARY OF TEST RESULT

FCC Rules	ISED Rules	Description Of Test	Result
§15.207	RSS-Gen §8.8	AC Power Line Conducted Emission	Compliant
§15.407(e)	RSS-Gen §6.7	Emission Bandwidth	Compliant
§15.407(a)	RSS-247 §6.2.1~4 (1) RSS-247 §6.2.5 (2)	Maximum Conducted Output Power	Compliant
§15.407(a)	RSS-247 §6.2.1~ 4 (1) RSS-247 §6.2.5 (2)	Power Spectral Density	Compliant
§15.205 §15.209 §15.407(b)	RSS-247 §6.2.1~3 (2) §6.2.4 (3) RSS-247 §6.2.5 (3)	Undesirable Radiated Emissions	Compliant
§15.407(c)	RSS-247 §6.4	Transmission in case of Absence of Information	Compliant
§15.203	N/A	Antenna Requirement	Compliant

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4 DESCRIPTION OF TEST MODES

4.1 Operating Frequencies

UNII-1 5150 MHz ~ 5250MHz

20MHz		40MHz	
CH	Freq. (MHz)	CH	Freq. (MHz)
36	5180	38	5190
40	5200	46	5230
44	5220		
48	5240		

UNII-2A 5250 MHz ~ 5350MHz

20MHz		40MHz	
CH	Freq. (MHz)	CH	Freq. (MHz)
52	5260	54	5270
56	5280	62	5310
60	5300		
64	5320		

UNII-2C 5470 MHz ~ 5725MHz

20MHz		40MHz	
CH	Freq. (MHz)	CH	Freq. (MHz)
100	5500	102	5510
104	5520	110	5550
108	5540	118	5590
112	5560	126	5630
116	5580	134	5670
120	5600	142	5710
124	5620		
128	5640		
132	5660		
136	5680		
140	5700		
144	5720		

UNII-3 5725 MHz ~ 5850MHz

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

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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	Ch1	Ch2	Ch3	v	1TX		1TX	
v	802.11 n	v	Ch0	Ch1	Ch2	Ch3	v	1TX		1TX	
	802.11 ac		Ch0	Ch1	Ch2	Ch3		1TX		1TX	
	802.11 ax		Ch0	Ch1	Ch2	Ch3		1TX		1TX	

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	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	1TX
	5260~5320	52 to 64	52,60,64			
	5500~5720	100 to 144	100,116,140,144			
	5745~5825	149 to 165	149,157,165			
802.11n_HT20	5180~5240	36 to 48	36,44,48	OFDM	MCS0	1TX
	5260~5320	52 to 64	52,60,64			
	5500~5720	100 to 144	100,116,140,144			
	5745~5825	149 to 165	149,157,165			
802.11n_HT40	5190~5230	38 to 46	38,46	OFDM	MCS0	1TX
	5270~5310	54 to 62	54,62			
	5510~5710	102 to 142	102,110,134,142			
	5755~5795	151 to 159	151,159			
TRANSMIT RADIATED EMISSION TEST (BELOW 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	44	OFDM	6	1TX
	5260~5320	52 to 64	60			
	5500~5720	100 to 144	116,144			

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TRANSMIT RADIATED EMISSION TEST (ABOVE 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	1TX
	5260~5320	52 to 64	52,60,64			
	5500~5720	100 to 144	100,116,140,144			
802.11n_HT20	5180~5240	36 to 48	36,44,48	OFDM	MCS0	1TX
	5260~5320	52 to 64	52,60,64			
	5500~5720	100 to 144	100,116,140,144			
802.11n_HT40	5190~5230	38 to 46	38,46	OFDM	MCS0	1TX
	5270~5310	54 to 62	54,62			
	5510~5710	102 to 142	102,110,134,142			

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	+/- 1.54 dB
Output Power measurement	+/- 0.97 dB
Emission Bandwidth	+/- 1.38 Hz
Conducted emission measurement	+/- 0.77 dB
Peak Power Density	+/- 0.61 dB
Temperature	+/- 0.6 °C
Humidity	+/- 3 %
DC / AC Power Source	+/- 1 %

Radiated Spurious Emission Measurement Uncertainty				
Polarization: Vertical	+/-	1.89	dB	9kHz~30MHz
	+/-	4.15	dB	30MHz - 1000MHz
	+/-	3.43	dB	1GHz - 18GHz
	+/-	3.86	dB	18GHz - 40GHz
Polarization: Horizontal	+/-	1.89	dB	9kHz~30MHz
	+/-	4.02	dB	30MHz - 1000MHz
	+/-	3.43	dB	1GHz - 18GHz
	+/-	3.86	dB	18GHz - 40GHz
Radiated Spurious Emission	+/-	2	dB	33GHz-50GHz
	+/-	1.59	dB	50GHz-60GHz
	+/-	1.7	dB	60GHz-90GHz
	+/-	1.64	dB	90GHz-140GHz
	+/-	3.83	dB	140GHz-220GHz

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 C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
LISN	SCHWARZBECK Mess-Elektronik	NSLK8127	974	06/19/2023	06/18/2024
EMI Test Receiver	R&S	ESCI	101342	04/24/2023	04/23/2024
Coaxial Cable	EC Lab	RF-HY-CAB-250	RF-HY-CAB-250-01	03/27/2023	03/26/2024
Pulse Limiter	EC Lab	VTSD 9561F-N	485	03/27/2023	03/26/2024
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R

6.2 Conducted Measurement

Conducted Emission Test Site: Conducted G					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010B	MY60240506	06/20/2023	06/19/2024
Power Meter	Anritsu	ML2496A	1512003	09/08/2023	09/07/2024
Power Sensor	Anritsu	MA2411B	1339378	09/08/2023	09/07/2024
Power Sensor	Anritsu	MA2411B	1339379	09/08/2023	09/07/2024
Test Software	SGS Taiwan	Radio Test Software	Ver.21	N.C.R	N.C.R
Attenuator	Woken	WATT-218FS-10	RF17	11/15/2023	11/14/2024
Attenuator	Woken	WATT-218FS-10	RF18	11/15/2023	11/14/2024
DC Block	MITEQ	W70289-5108	RF159	11/15/2023	11/14/2024

6.3 Radiated Measurement

Radiated Emission Test Site: SAC D					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Broadband Antenna	SCHWARZBECK	VULB 9168	9168-617	12/14/2023	12/13/2024
Horn Antenna	Schwarzbeck	BBHA9120D	1341	05/26/2023	05/25/2024
Loop Antenna	ETS.LINDGREN	6502	143303	05/23/2023	05/22/2024
Horn Antenna	SCHWARZBECK	BBHA9170	185	08/21/2023	08/20/2024
3m Site NSA	SGS	966 chamber D	N/A	04/30/2023	04/29/2024
Spectrum Analyzer	KEYSIGHT	N9010A	MY57120200	03/29/2023	03/28/2024
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R
Pre-Amplifier	EMC Instruments	EMC18405SEE	980881	11/15/2023	11/14/2024
Pre-Amplifier	EMC Instruments	EMC9135	980234	11/15/2023	11/14/2024
Pre-Amplifier	EMC Instruments	EMC12630SE	980273	11/15/2023	11/14/2024
Coaxial Cable	Huber+Suhner	RG 214/U	W21.01	11/15/2023	11/14/2024
Coaxial Cable	Huber+Suhner	EMC106-SM-SM- 7200	150703	11/15/2023	11/14/2024

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

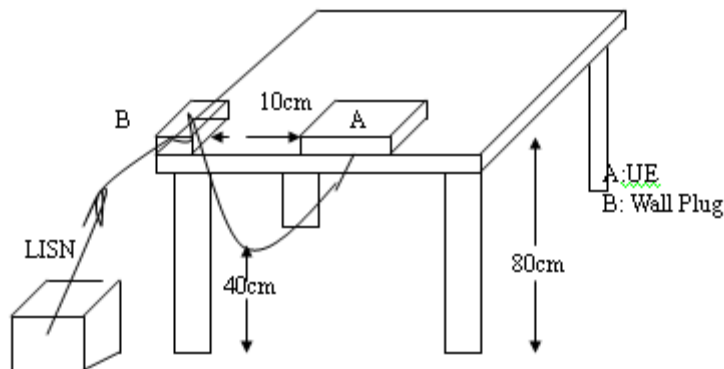
Note

- 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 EUT was placed flushed with the rear of the table.
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.

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7.5 Measurement Result

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

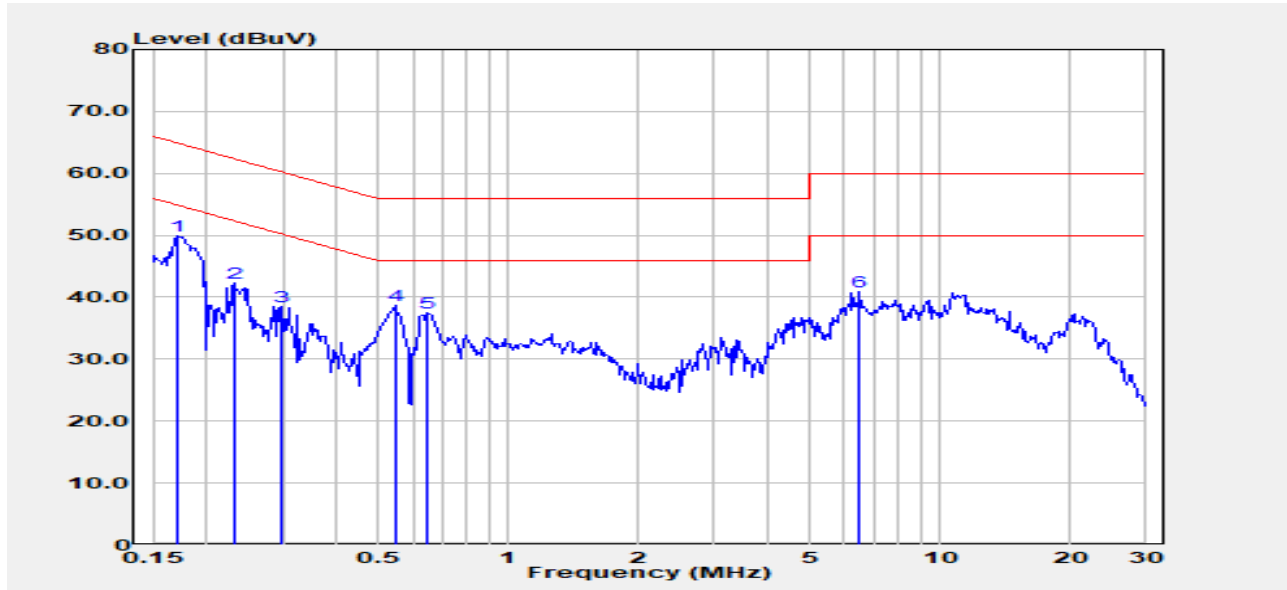
Note2: The * reveals the worst-case results that closest to the limit.

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Report Number	:TERF2401000172E2	Test Site	:Conduction C
Test Mode	:802.11a	Test Date	:2024-02-15
Power	:120V/60Hz	Temp./Humi.	:22.3°C/52%
Probe	:L1	Engineer	:Sam Huang



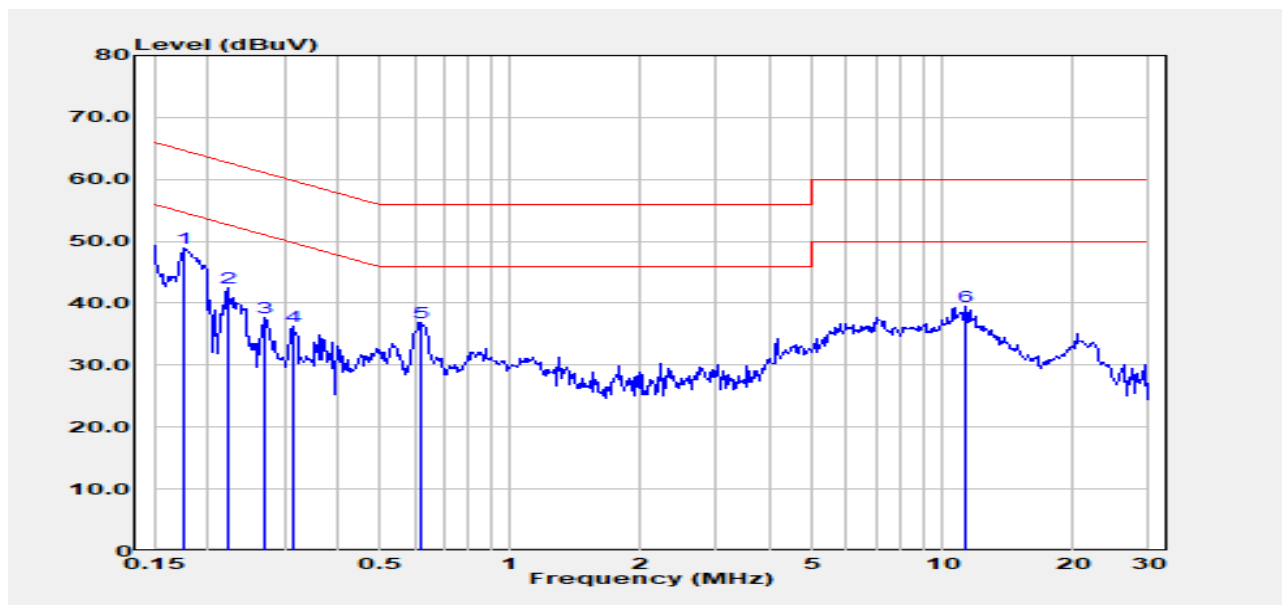
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.170	Peak	39.37	10.65	50.02	64.94	-14.93
0.231	Peak	31.57	10.64	42.21	62.40	-20.19
0.298	Peak	27.93	10.63	38.56	60.29	-21.72
0.545	Peak	28.03	10.62	38.65	56.00	-17.35
0.646	Peak	26.89	10.64	37.53	56.00	-18.47
6.507	Peak	29.90	10.96	40.86	60.00	-19.14

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Report Number	:TERF2401000172E2	Test Site	:Conduction C
Test Mode	:802.11a	Test Date	:2024-02-15
Power	:120V/60Hz	Temp./Humi.	:22.3°C/52%
Probe	:N	Engineer	:Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V	Limit dB μ V	Margin dB
0.175	Peak	38.21	10.65	48.87	64.73	-15.86
0.222	Peak	31.92	10.64	42.57	62.76	-20.19
0.272	Peak	27.01	10.63	37.64	61.06	-23.42
0.314	Peak	25.70	10.63	36.32	59.86	-23.54
0.619	Peak	26.29	10.62	36.92	56.00	-19.08
11.299	Peak	28.54	10.99	39.53	60.00	-20.47

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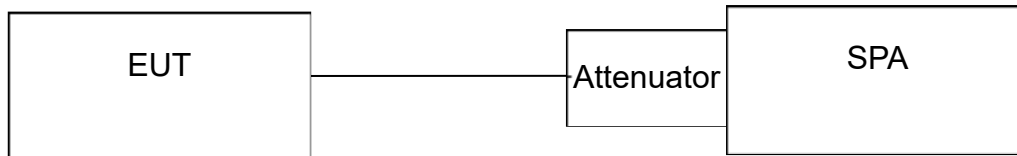
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8 EMISSION BANDWIDTH MEASUREMENT

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. For 99% Bandwidth: Set the spectrum analyzer as
RBW = 1%,
VBW = 3*RBW,
Span = large enough to capture all products of the modulation process,
Detector=Sample,
Sweep=auto.

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7. Turn on the 99% bandwidth function, max reading.
8. Repeat above procedures until all frequency of interest measured was complete.

8.4 Measurement Result

8.4.1 FCC Occupied Bandwidth

802.11a_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	20.68	13.160
5220	22.88	13.590
5240	21.61	13.350
5260	20.98	13.220
5300	21.74	13.370
5320	23.00	13.620
5500	21.46	13.320
5580	22.52	13.530
5700	20.67	13.150
5720(U-NII 2C)	19.36	12.870
5720(U-NII 3)	9.36	9.720

802.11a_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	16.33	12.130
5785	16.34	12.130
5825	16.35	12.140

802.11a_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.310875	< 5250
5745	5736.779282	> 5725

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802.11n_HT20_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	21.61	13.350
5220	22.16	13.460
5240	22.36	13.490
5260	21.08	13.240
5300	21.69	13.360
5320	28.89	14.610
5500	22.91	13.600
5580	22.70	13.560
5700	21.29	13.280
5720(U-NII 2C)	16.89	12.280
5720(U-NII 3)	6.89	8.380

802.11n_HT20_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	16.85	12.270
5785	17.67	12.470
5825	17.31	12.380

802.11n_HT20_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.882254	< 5250
5745	5736.212878	> 5725

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802.11n_HT40_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	38.47	15.850
5230	38.82	15.890
5270	41.41	16.170
5310	38.41	15.840
5510	38.48	15.850
5550	47.31	16.750
5670	43.14	16.350
5710(U-NII 2C)	43.72	16.410
5710(U-NII 3)	13.72	11.370

802.11n_HT40_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	32.99	15.180
5795	35.12	15.460

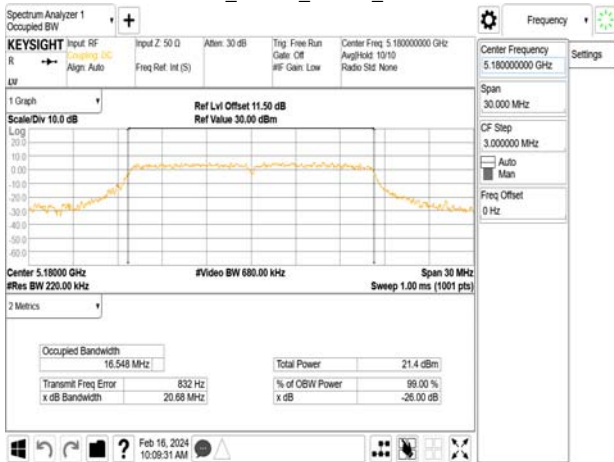
802.11n_HT40_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5230	5247.891970	< 5250
5755	5737.109464	> 5725

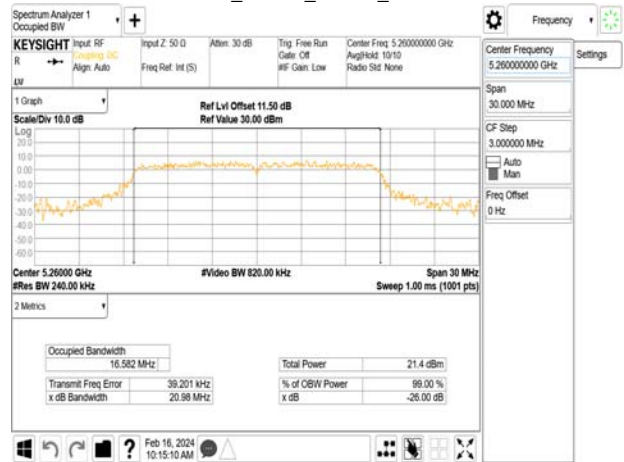
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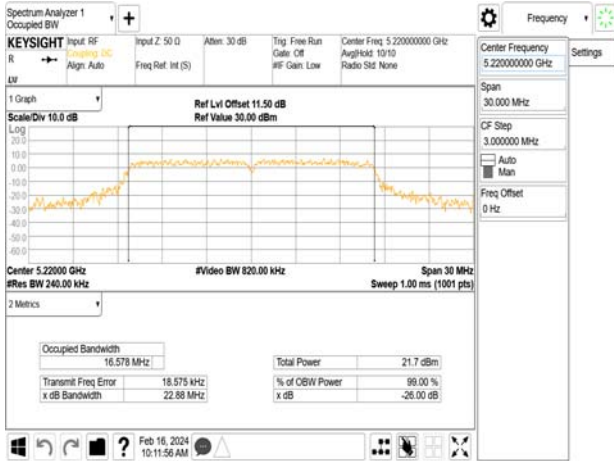
802.11a_20MHz_Chain0_5180MHz



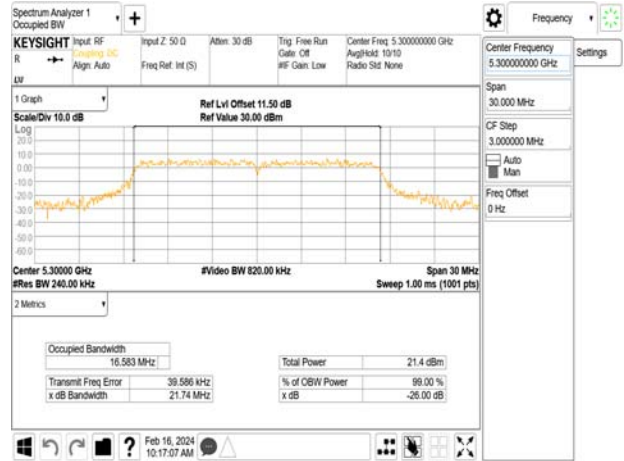
802.11a_20MHz_Chain0_5260MHz



802.11a_20MHz_Chain0_5220MHz



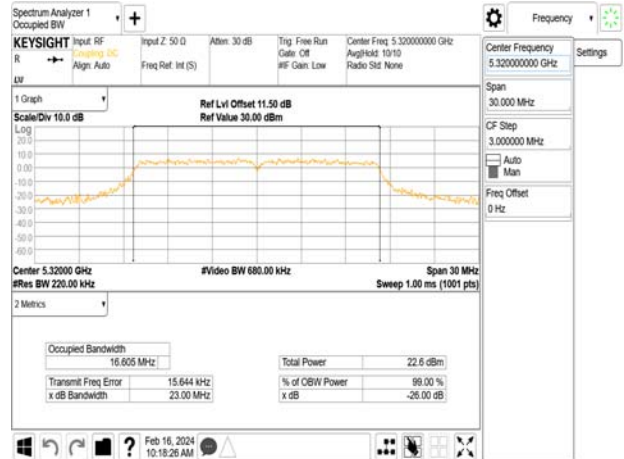
802.11a_20MHz_Chain0_5300MHz



802.11a_20MHz_Chain0_5240MHz



802.11a_20MHz_Chain0_5320MHz

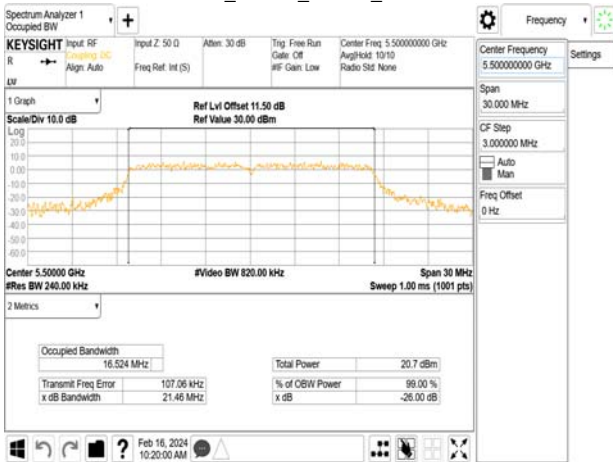


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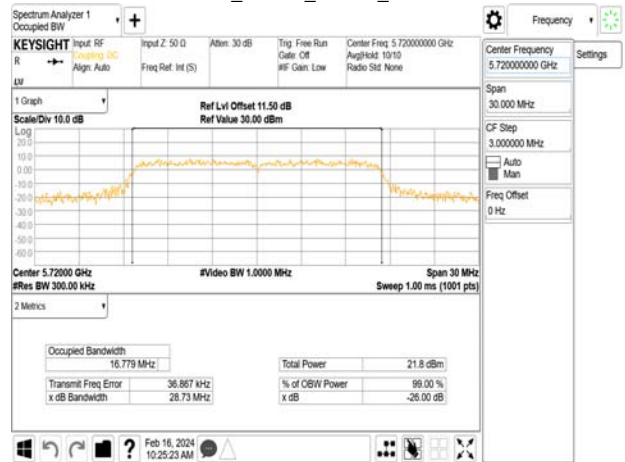
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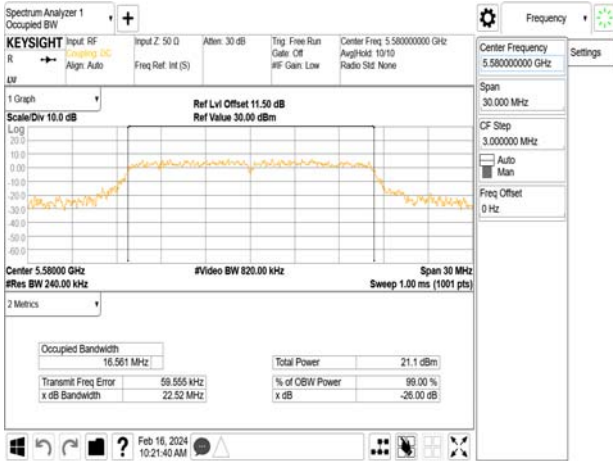
802.11a_20MHz_Chain0_5500MHz



802.11a_20MHz_Chain0_5720MHz



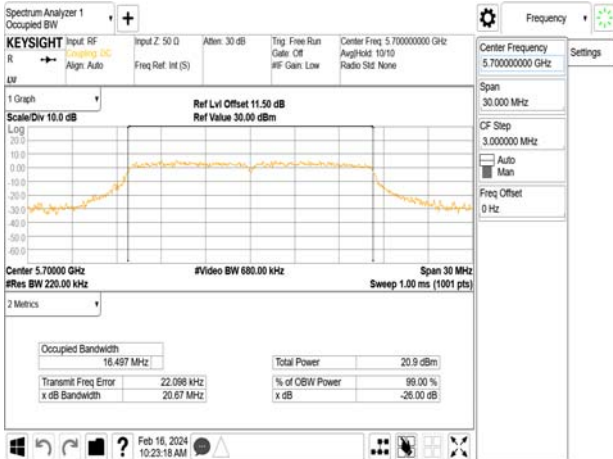
802.11a_20MHz_Chain0_5580MHz



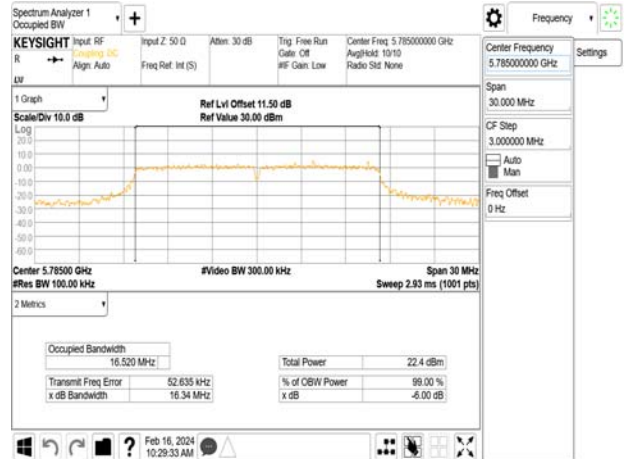
802.11a_20MHz_Chain0_5745MHz



802.11a_20MHz_Chain0_5700MHz



802.11a_20MHz_Chain0_5785MHz

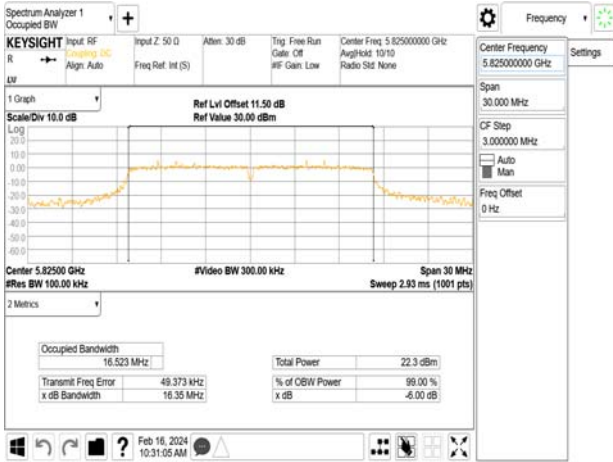


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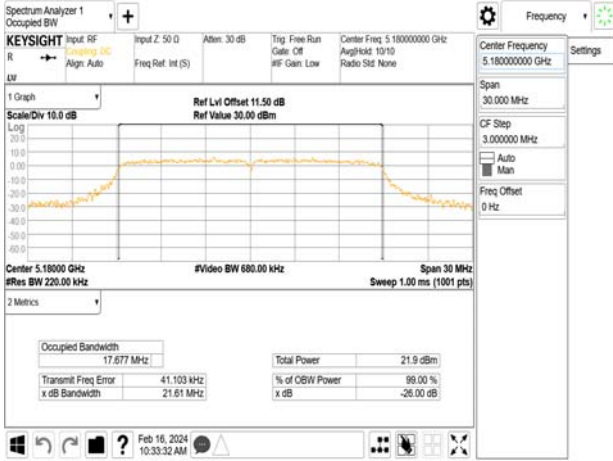
802.11a_20MHz_Chain0_5825MHz



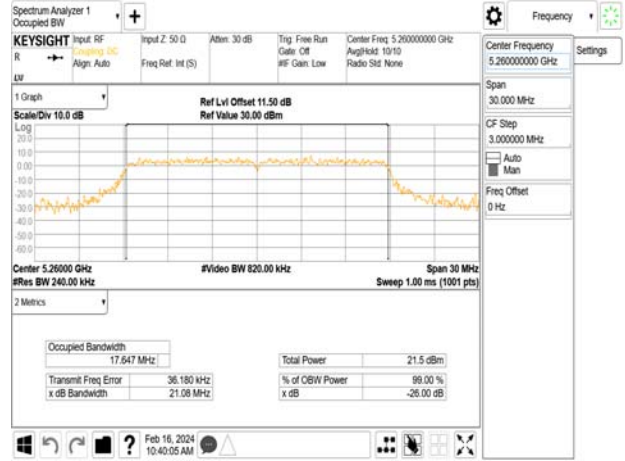
802.11n_20MHz_Chain0_5240MHz



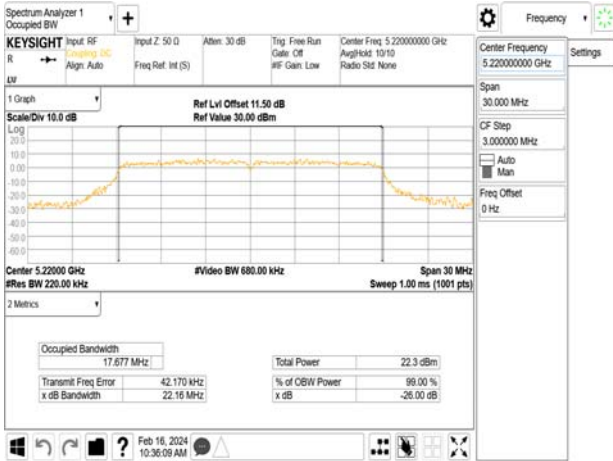
802.11n_20MHz_Chain0_5180MHz



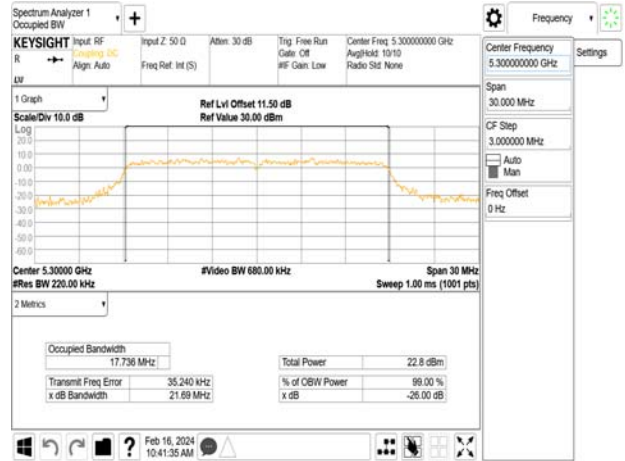
802.11n_20MHz_Chain0_5260MHz



802.11n_20MHz_Chain0_5220MHz



802.11n_20MHz_Chain0_5300MHz

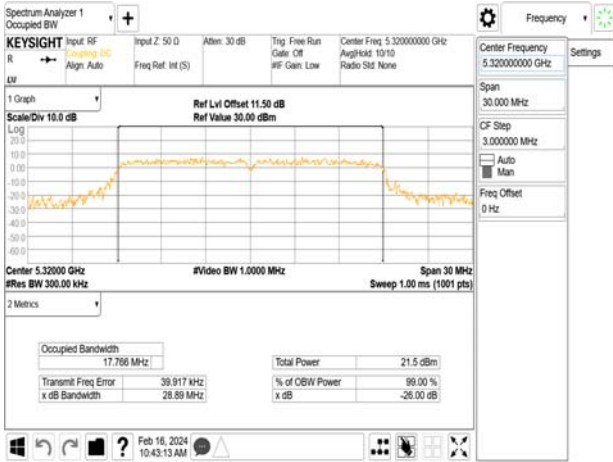


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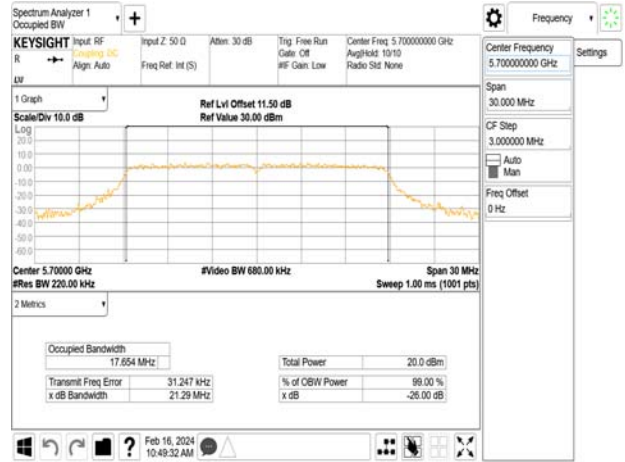
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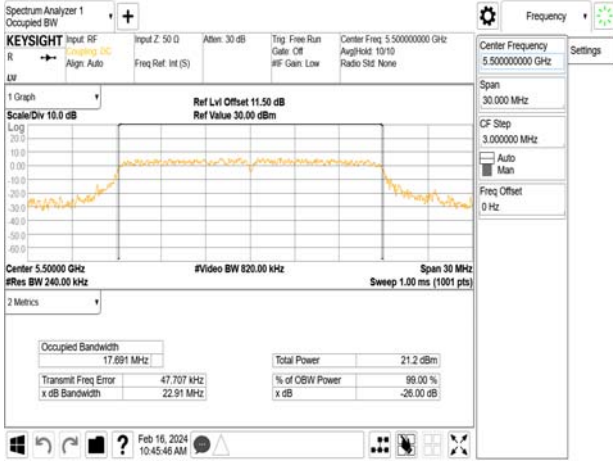
802.11n_20MHz_Chain0_5320MHz



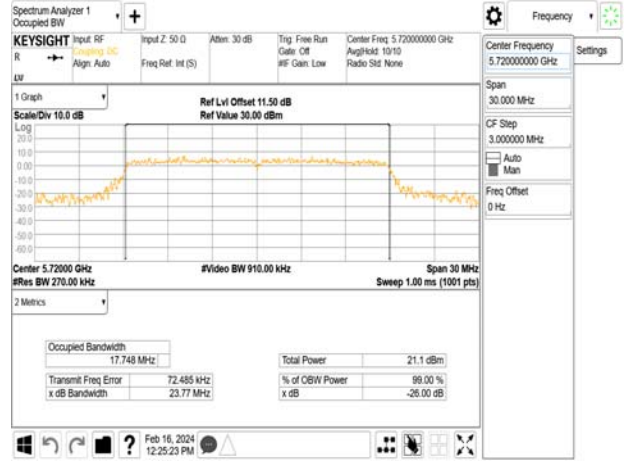
802.11n_20MHz_Chain0_5700MHz



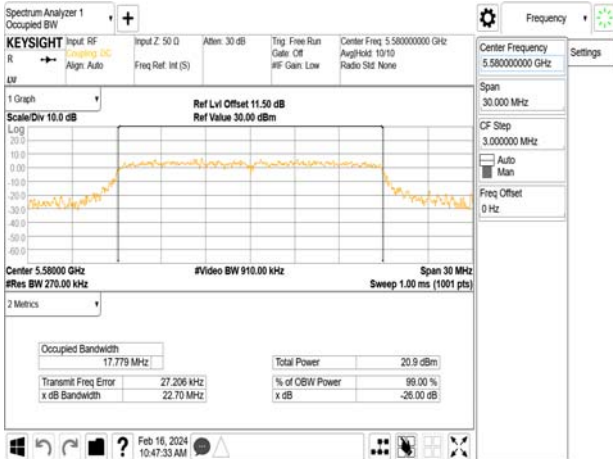
802.11n_20MHz_Chain0_5500MHz



802.11n_20MHz_Chain0_5720MHz



802.11n_20MHz_Chain0_5580MHz



802.11n_20MHz_Chain0_5745MHz

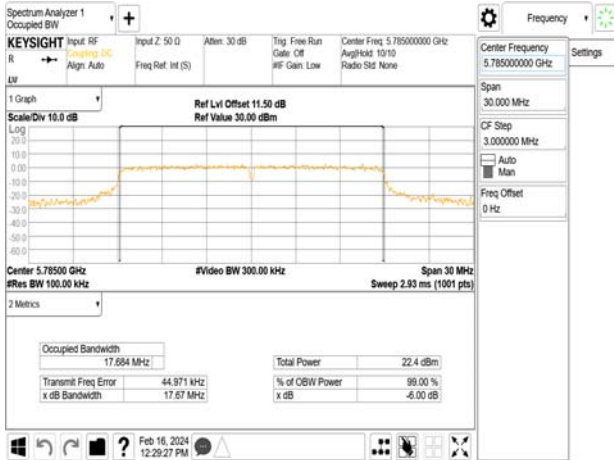


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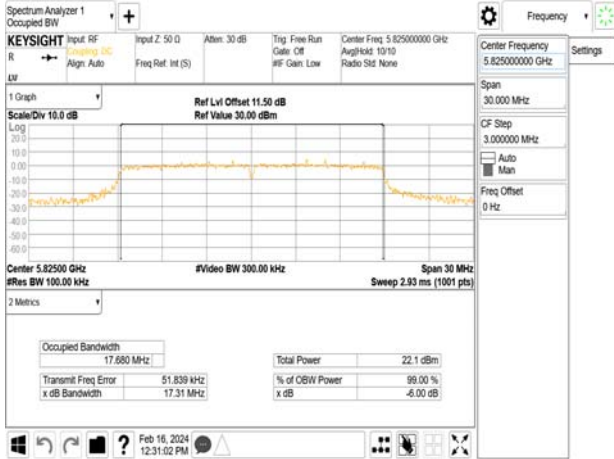
802.11n_20MHz_Chain0_5785MHz



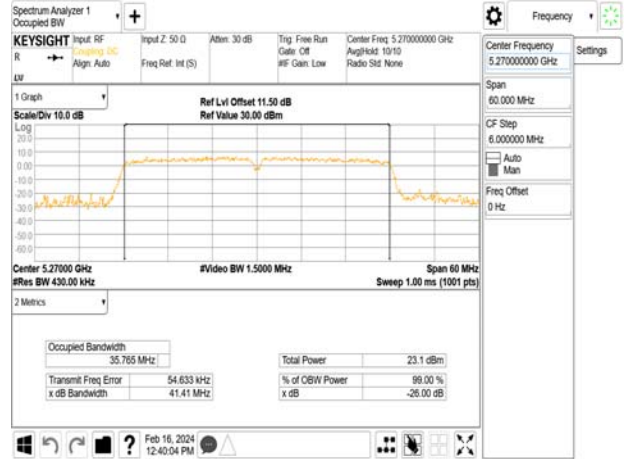
802.11n_40MHz_Chain0_5230MHz



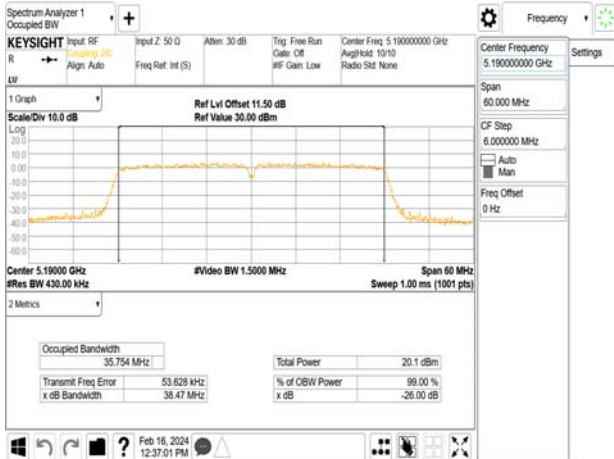
802.11n_20MHz_Chain0_5825MHz



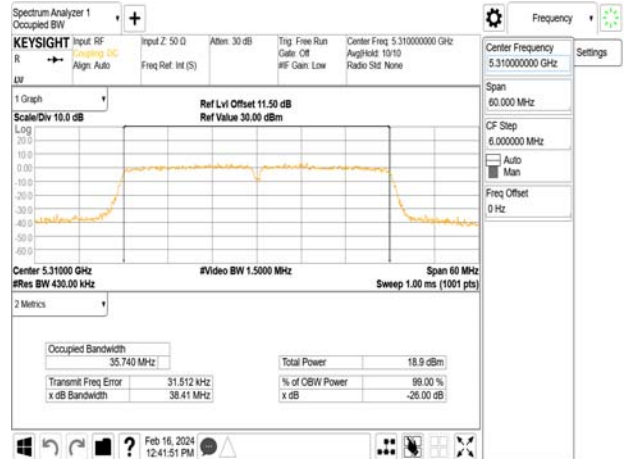
802.11n_40MHz_Chain0_5270MHz



802.11n_40MHz_Chain0_5190MHz



802.11n_40MHz_Chain0_5310MHz

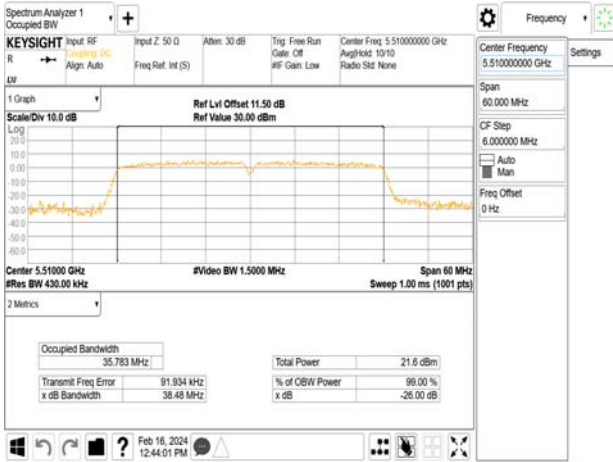


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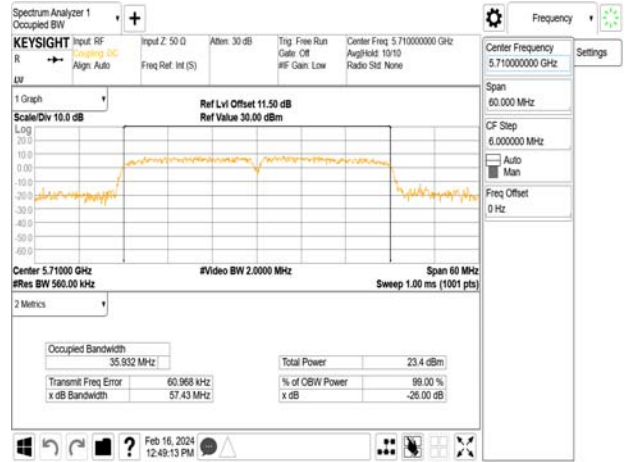
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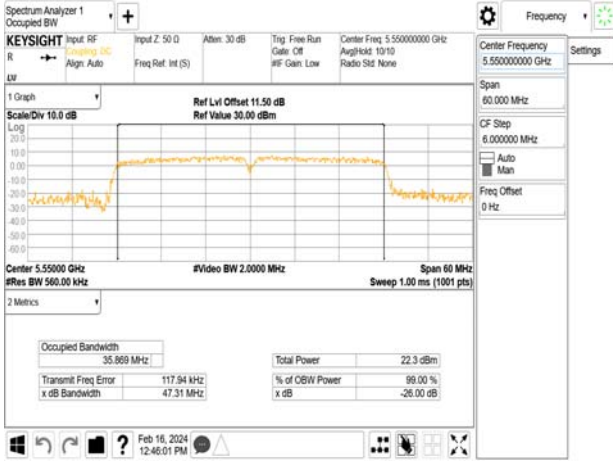
802.11n_40MHz_Chain0_5510MHz



802.11n_40MHz_Chain0_5710MHz



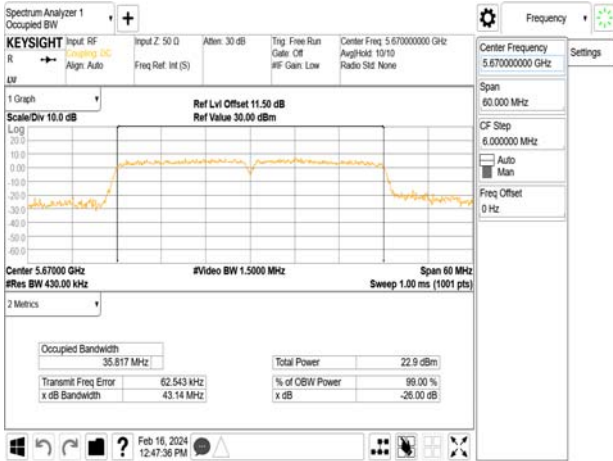
802.11n_40MHz_Chain0_5550MHz



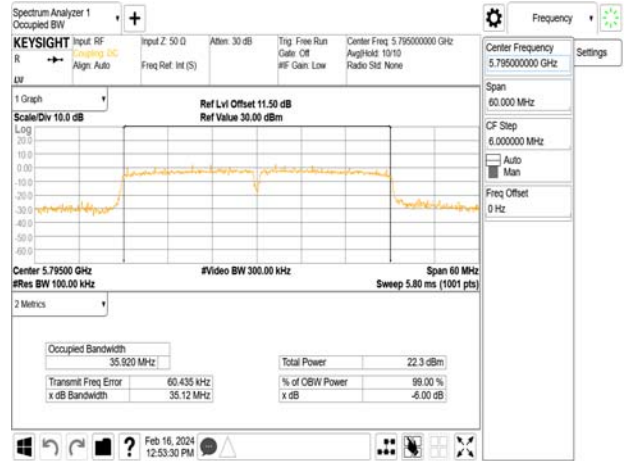
802.11n_40MHz_Chain0_5755MHz



802.11n_40MHz_Chain0_5670MHz



802.11n_40MHz_Chain0_5795MHz



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8.4.2 ISED Occupied Bandwidth

802.11a_Ch0

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5180	16.529	12.180
5220	16.560	12.190
5240	16.533	12.180
5260	16.532	12.180
5300	16.545	12.190
5320	16.612	12.200
5500	16.529	12.180
5580	16.623	12.210
5700	16.520	12.180
5720(U-NII 2C)	13.343	11.250
5720(U-NII 3)	3.343	5.240

802.11a_Ch0

Frequency (MHz)	99% BW (MHz)	6dB BW (MHz)
5745	16.660	16.300
5785	16.683	16.290
5825	16.694	16.350

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802.11n_HT20_Ch0

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5180	17.656	12.470
5220	17.662	12.470
5240	17.684	12.480
5260	17.681	12.480
5300	17.687	12.480
5320	17.712	12.480
5500	17.713	12.480
5580	17.707	12.480
5700	17.653	12.470
5720(U-NII 2C)	13.865	11.420
5720(U-NII 3)	3.865	5.870

802.11n_HT20_Ch0

Frequency (MHz)	99% BW (MHz)	6dB BW (MHz)
5745	17.774	17.520
5785	17.772	17.500
5825	17.798	17.510

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802.11n_HT40_Ch0

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5190	35.754	15.530
5230	35.757	15.530
5270	35.770	15.540
5310	35.729	15.530
5510	35.764	15.530
5550	35.838	15.540
5670	35.794	15.540
5710(U-NII 2C)	32.950	15.180
5710(U-NII 3)	2.950	4.700

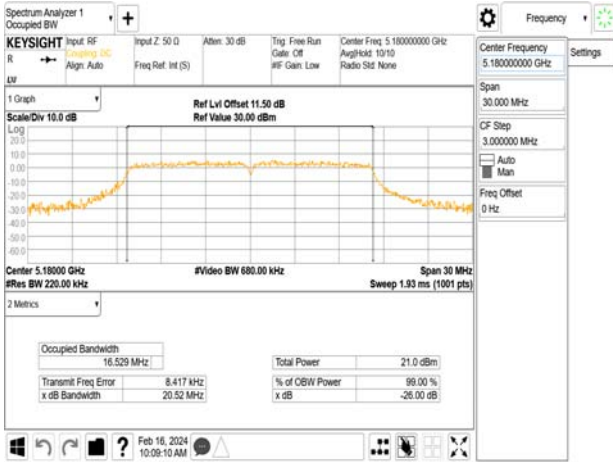
802.11n_HT40_Ch0

Frequency (MHz)	99% BW (MHz)	6dB BW (MHz)
5755	35.874	35.780
5795	35.887	35.730

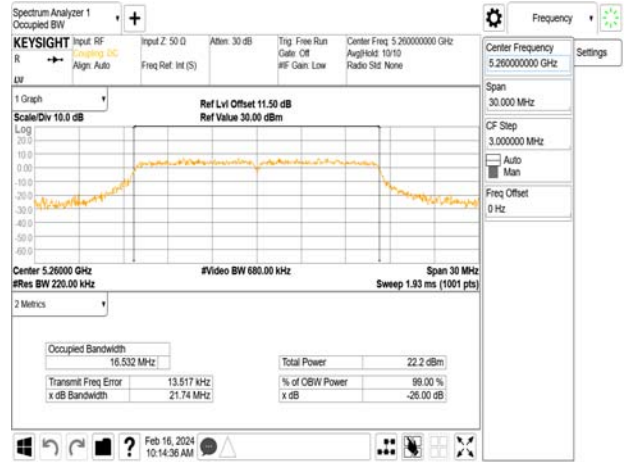
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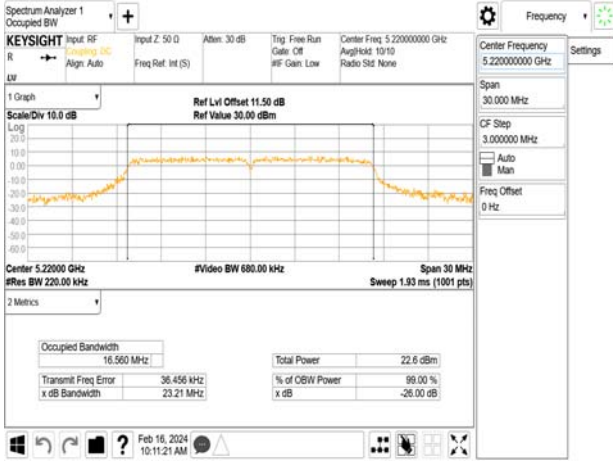
802.11a_20MHz_Chain0_5180MHz



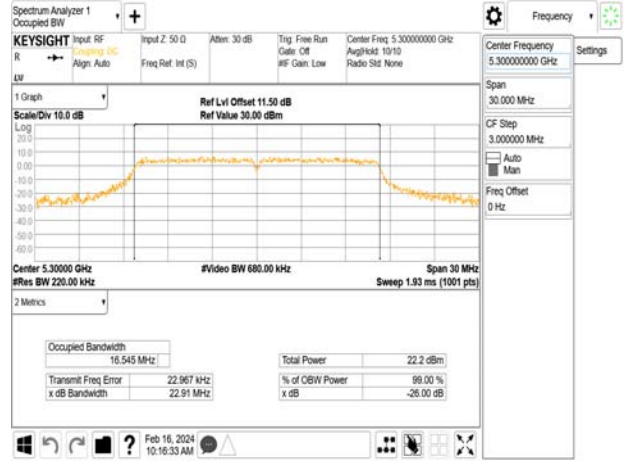
802.11a_20MHz_Chain0_5260MHz



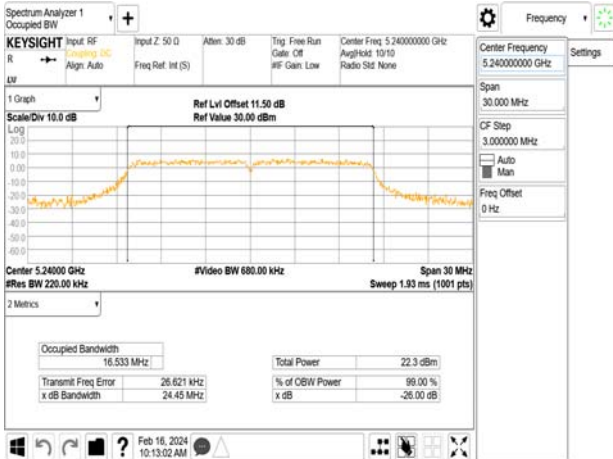
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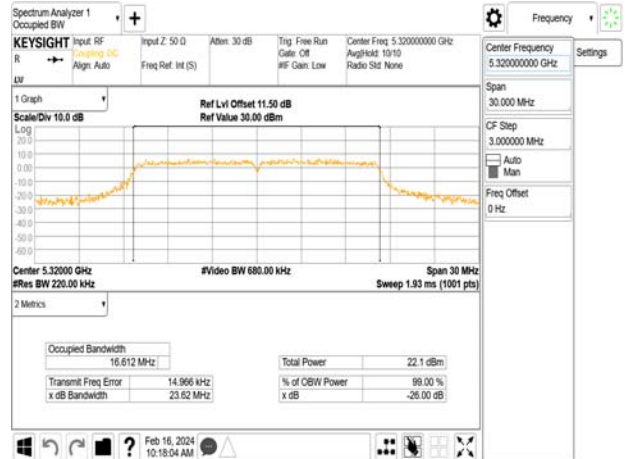
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802.11a_20MHz_Chain0_5240MHz



802.11a_20MHz_Chain0_5320MHz

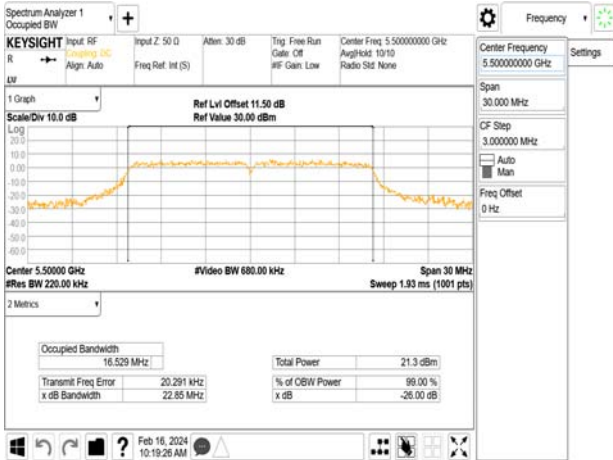


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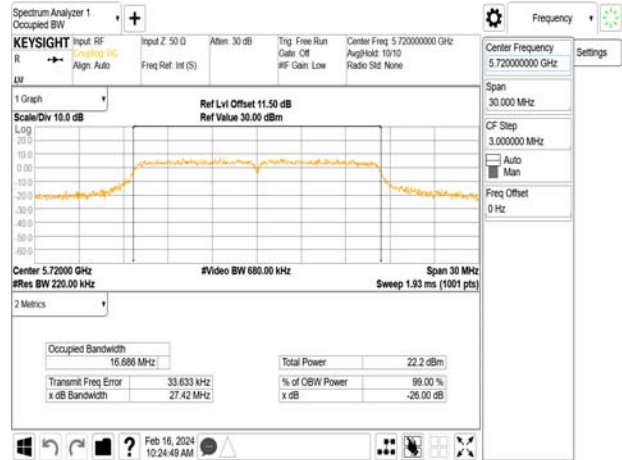
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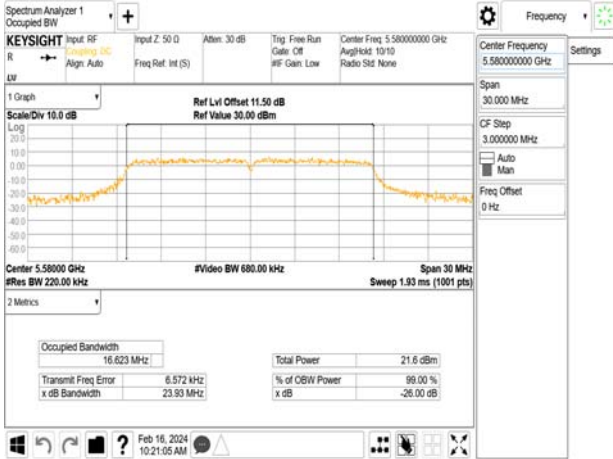
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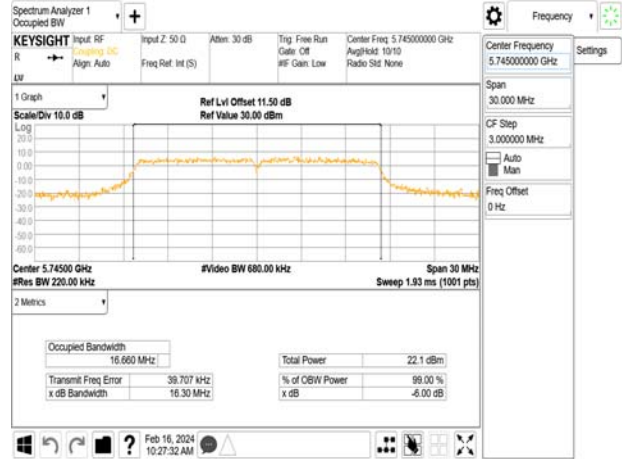
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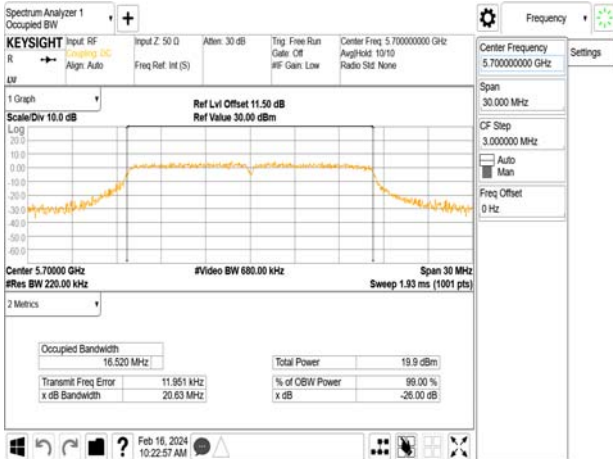
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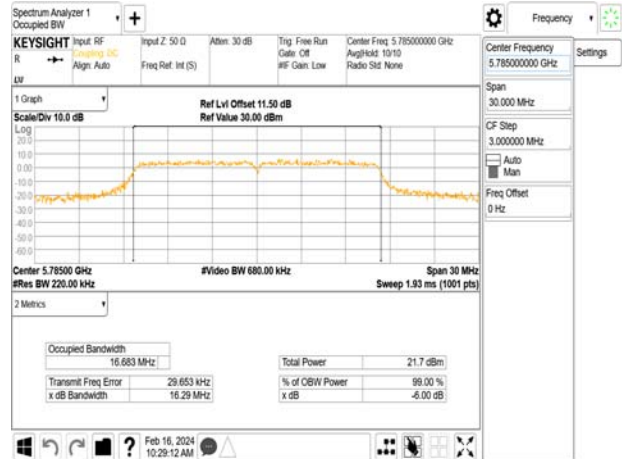
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802.11a_20MHz_Chain0_5700MHz



802.11a_20MHz_Chain0_5785MHz

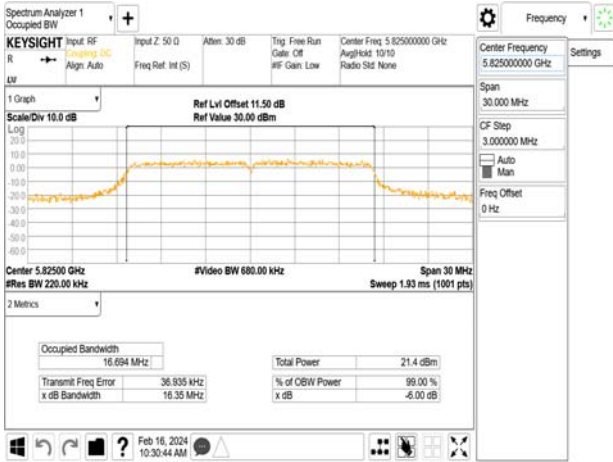


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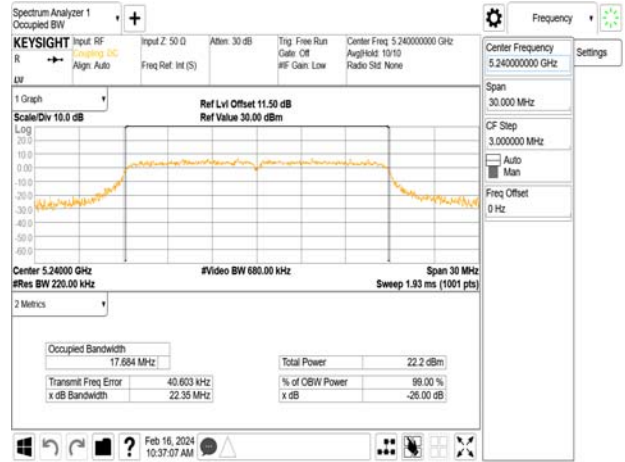
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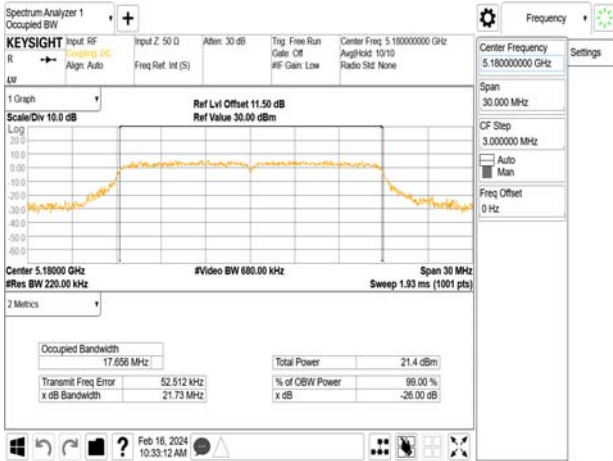
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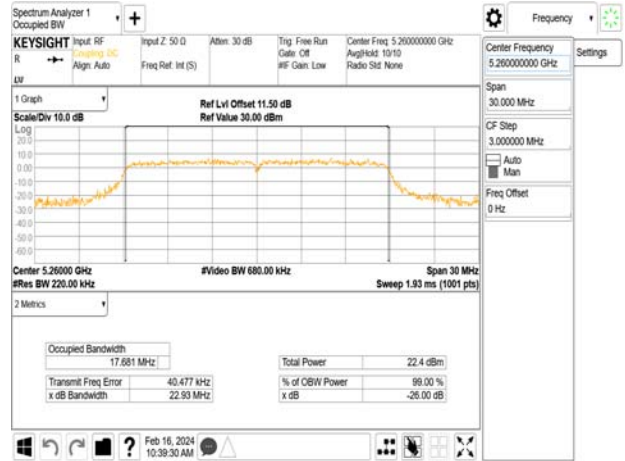
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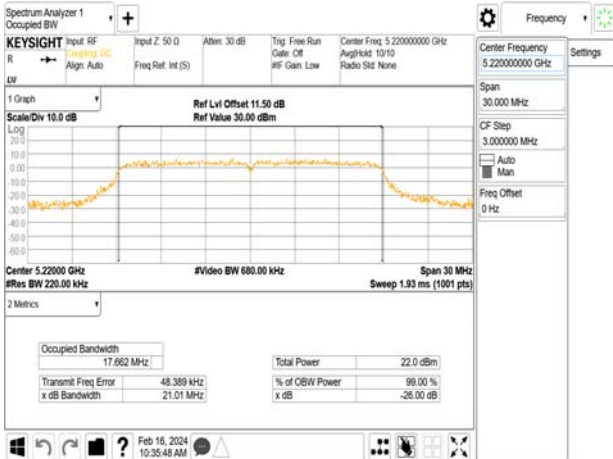
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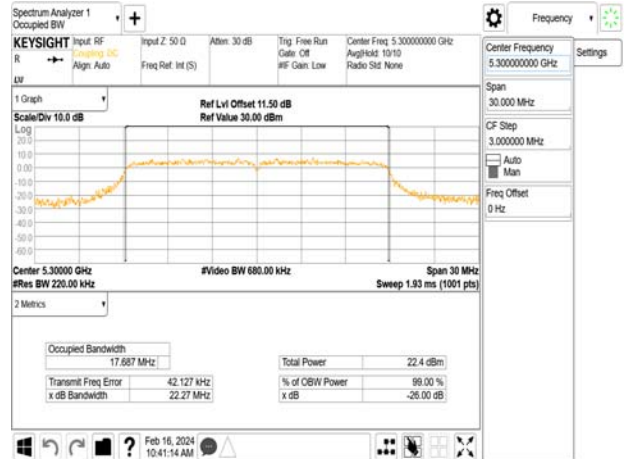
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802.11n_20MHz_Chain0_5220MHz



802.11n_20MHz_Chain0_5300MHz

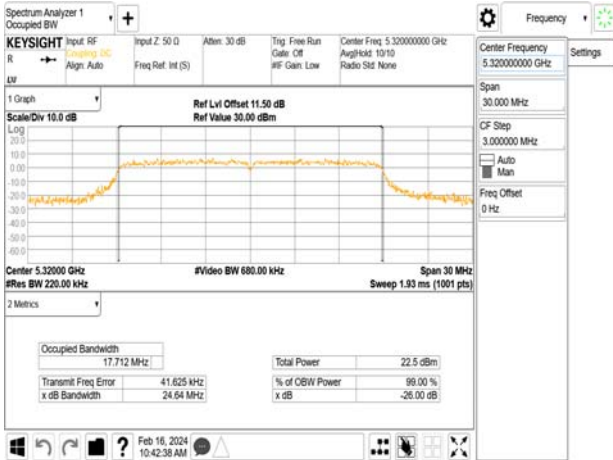


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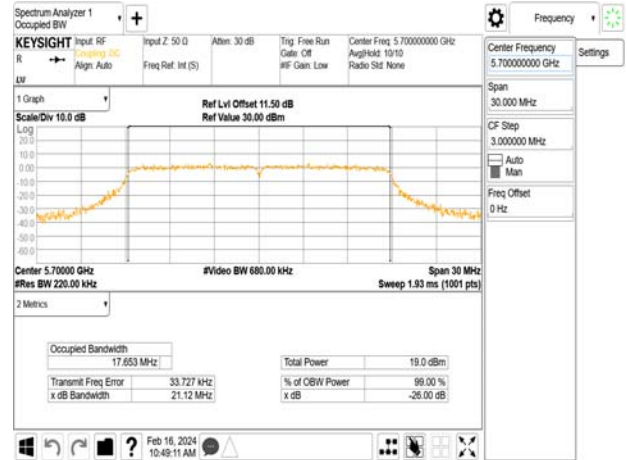
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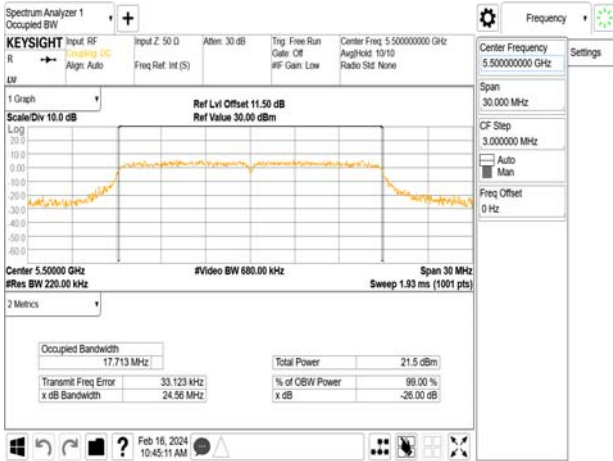
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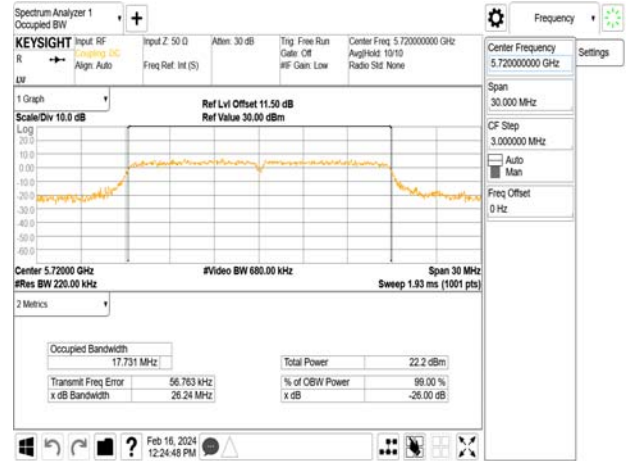
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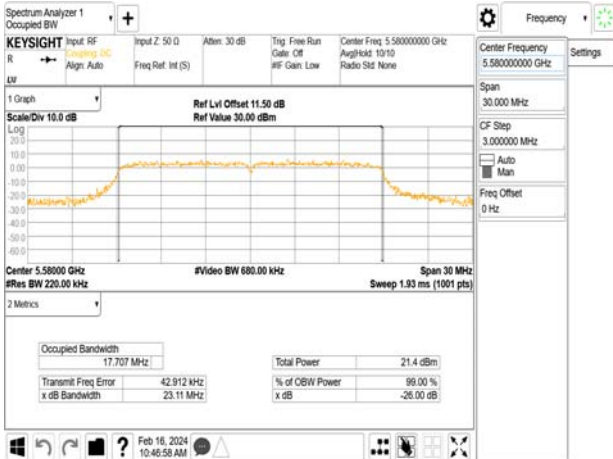
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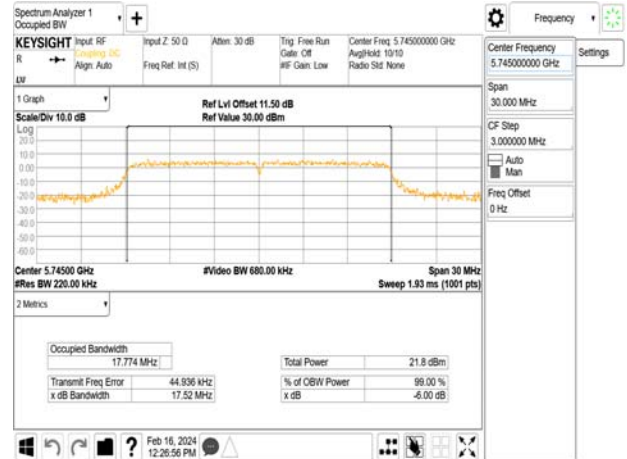
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802.11n_20MHz_Chain0_5580MHz



802.11n_20MHz_Chain0_5745MHz

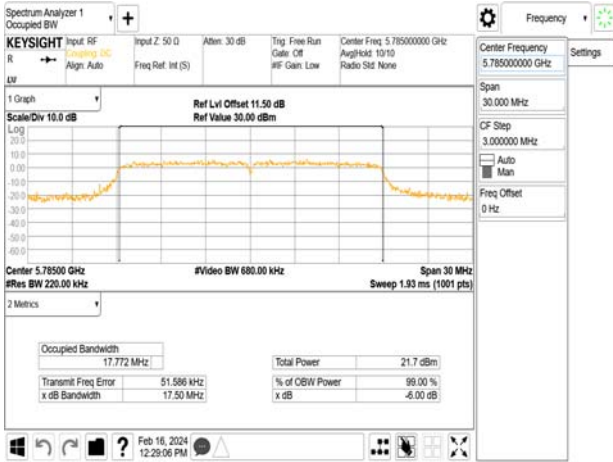


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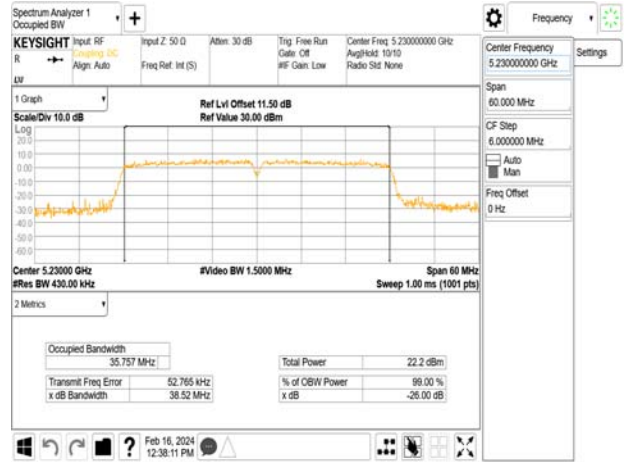
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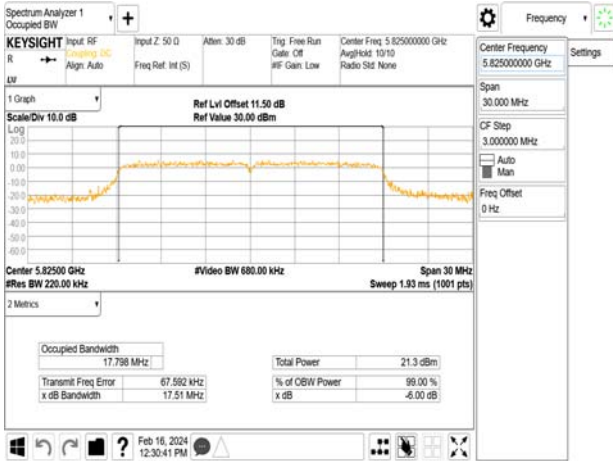
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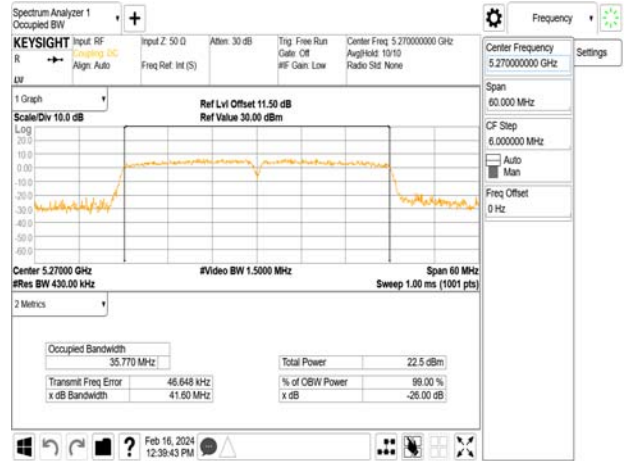
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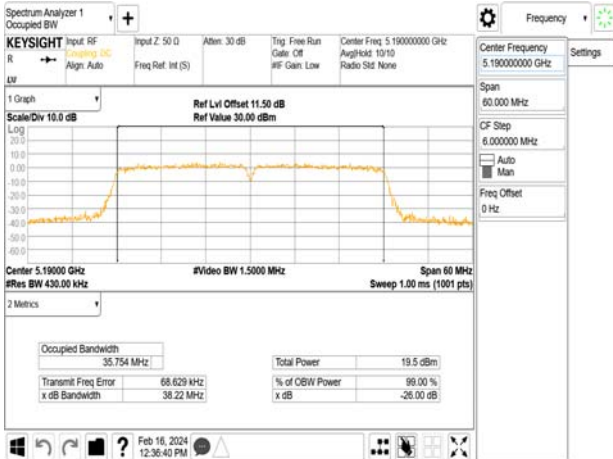
802.11n_20MHz_Chain0_5825MHz



802.11n_40MHz_Chain0_5270MHz



802.11n_40MHz_Chain0_5190MHz



802.11n_40MHz_Chain0_5310MHz

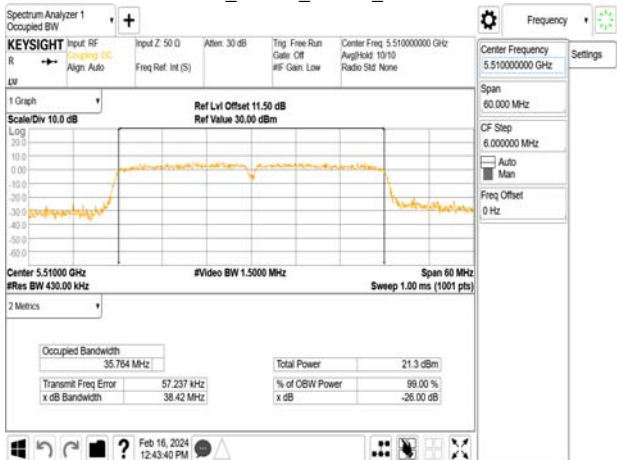


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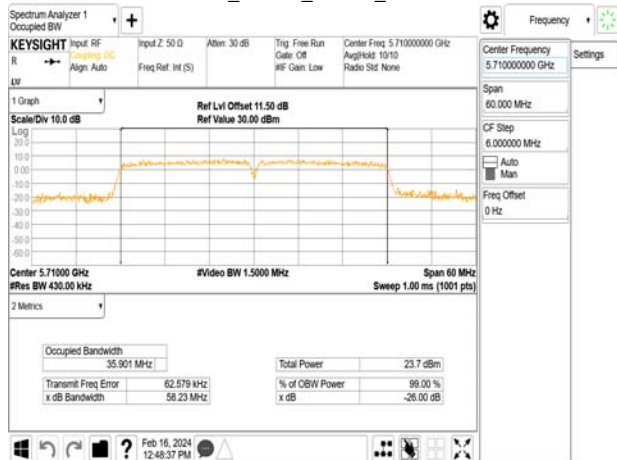
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802.11n_40MHz_Chain0_5510MHz



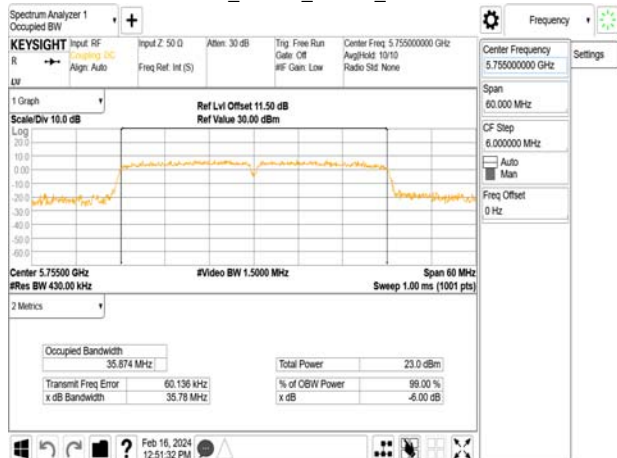
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802.11n_40MHz_Chain0_5550MHz



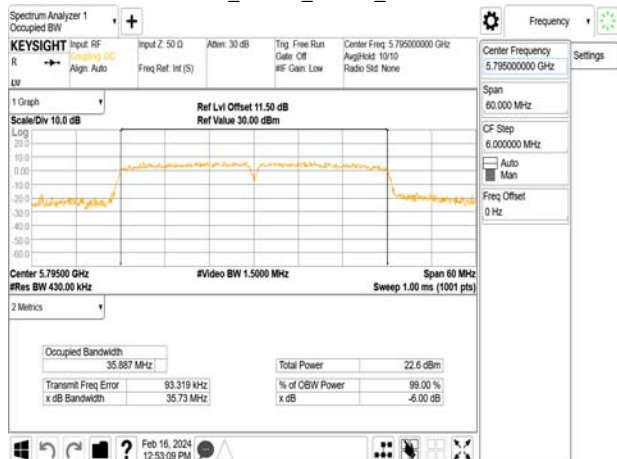
802.11n_40MHz_Chain0_5755MHz



802.11n_40MHz_Chain0_5670MHz



802.11n_40MHz_Chain0_5795MHz



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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.

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9.1.2 FCC

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
		Outdoor 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	V	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	V	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
<p>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.</p> <p>2. For the 10 log B, B is the 26 dB emission bandwidth.</p>						

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9.1.3 ISED

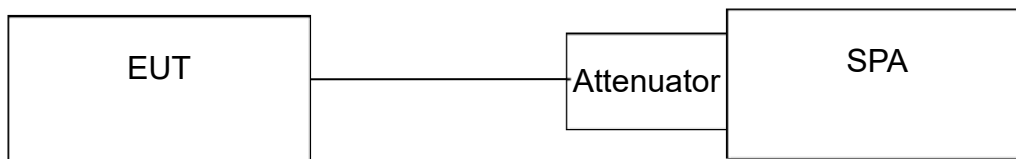
FREQUENCY BAND (MHz)	EUT CATEGORY		RSS-247 §6.2.1~6.2.4		
			EIRP	Conducted Output Power	TPC
5150~5250		OEM devices installed in vehicles	30 mW or 1.76 + 10 log10B	N/A	At least 3dB below 30mW EIRP
	V	Other device	200 mW or 10 + 10 log10B dBm	N/A	N/A
5250~5350		OEM devices installed in vehicles	30 mW or 1.76 + 10 log10B	N/A	At least 3dB below 30mW EIRP
	V	Other device	1.0 W or 17 + 10 log10B dBm	250 mW or 11 +10 log10B	EIRP >500mW, at least 6dB below 1W EIRP
		Outdoor Fixed with EIRP>200mW	-13 dBW/MHz for 0° ≤ θ < 8° -13 -0.716 (θ-8) dBW/MHz for 8° ≤ θ < 40° -35.9 -1.22 (θ-40) dBW/MHz for 40° ≤ θ ≤ 45° -42 dBW/MHz for θ > 45°	N/A	EIRP >500mW, at least 6dB below 1W EIRP
5470-5600 and 5650-5725	V	All	1.0 W or 17 + 10 log10B dBm	250 mW or 11 +10 log10B	EIRP >500mW, at least 6dB below 1W EIRP
5725~5850	V	All	N/A	1 W	N/A

1 For equipment operating in the band 5725-5850 MHz, If transmitting antennas of directional gain greater than 6 dBi are used, the Maximum transmit power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

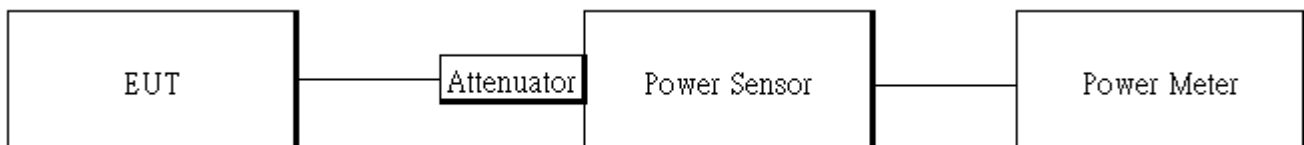
2. For the 10 log B, B is the 99% emission bandwidth.

9.2 Test Setup

9.2.1 Duty Cycle



9.2.2 Output Power



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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/duty cycle).
6. Repeat above procedures until all frequency (low, middle, and high channel) measured were complete.

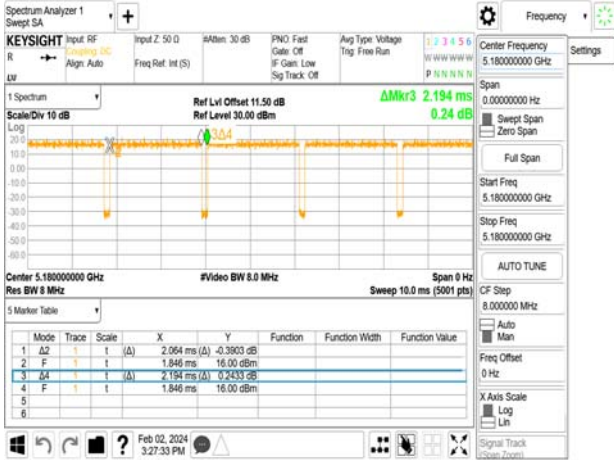
9.4 Duty Cycle Measurement Result

Mode	Duty Cycle (%) =Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
802.11a	94.07	0.27	0.48	1.00
802.11n_20	93.66	0.28	0.52	1.00
802.11n_40	87.90	0.56	1.06	2.00

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802.11a_20MHz_Chain0_5180MHz



802.11n_20MHz_Chain0_5180MHz



802.11n_40MHz_Chain0_5190MHz



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9.5 Output Power Measurement Result

9.5.1 FCC Output power

802.11a_Ch0

CH	Frequency (MHz)	Data Rate	Power Setting	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	6	108	17.23	52.790	23.98	PASS
44	5220	6	111	17.95	62.309	23.98	PASS
48	5240	6	109	17.86	61.031	23.98	PASS
52	5260	6	112	17.84	60.750	23.98	PASS
60	5300	6	112	17.72	59.095	23.98	PASS
64	5320	6	112	17.85	60.890	23.98	PASS
100	5500	6	113	17.79	60.055	23.98	PASS
116	5580	6	118	17.79	60.055	23.98	PASS
140	5700	6	108	15.80	37.979	23.98	PASS
144	5720(U-NII 2C)	6	120	16.13	41.04	23.87	PASS
144	5720 (U-NII 3)	6	120	12.98	19.85	30	PASS
149	5745	6	120	17.88	61.312	30	PASS
157	5785	6	125	17.85	60.890	30	PASS
165	5825	6	125	17.93	62.022	30	PASS

802.11n_HT20_Ch0

CH	Frequency (MHz)	Data Rate	Power Setting	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	107	16.82	48.133	23.98	PASS
44	5220	MCS0	111	17.80	60.318	23.98	PASS
48	5240	MCS0	109	17.79	60.179	23.98	PASS
52	5260	MCS0	112	17.82	60.596	23.98	PASS
60	5300	MCS0	113	17.93	62.151	23.98	PASS
64	5320	MCS0	112	17.90	61.723	23.98	PASS
100	5500	MCS0	114	17.97	62.726	23.98	PASS
116	5580	MCS0	118	17.79	60.179	23.98	PASS
140	5700	MCS0	105	15.15	32.768	23.98	PASS
144	5720(U-NII 2C)	MCS0	120	16.41	43.74	23.98	PASS
144	5720 (U-NII 3)	MCS0	120	12.51	17.84	30	PASS
149	5745	MCS0	120	17.91	61.865	30	PASS
157	5785	MCS0	126	17.80	60.318	30	PASS
165	5825	MCS0	125	17.84	60.876	30	PASS

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802.11n_HT40_Ch0

CH	Frequency (MHz)	Data Rate	Power Setting	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	96	14.39	27.480	23.98	PASS
46	5230	MCS0	111	17.72	59.158	23.98	PASS
54	5270	MCS0	112	17.87	61.237	23.98	PASS
62	5310	MCS0	102	15.51	35.564	23.98	PASS
102	5510	MCS0	104	15.55	35.893	23.98	PASS
110	5550	MCS0	118	17.93	62.088	23.98	PASS
134	5670	MCS0	113	17.02	50.351	23.98	PASS
142	5710(U-NII 2C)	MCS0	120	16.63	45.97	23.98	PASS
142	5710 (U-NII 3)	MCS0	120	11.59	14.42	30	PASS
151	5755	MCS0	120	17.71	59.022	30	PASS
159	5795	MCS0	126	17.87	61.237	30	PASS

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9.5.2 ISED Conducted output power and EIRP

802.11a_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	17.84	60.750	23.18	PASS
60	5300	17.72	59.095	23.19	PASS
64	5320	17.85	60.890	23.20	PASS
100	5500	17.79	60.055	23.18	PASS
116	5580	17.79	60.055	23.21	PASS
140	5700	15.80	37.979	23.18	PASS
144	5720(U-NII 2C)	16.13	41.042	22.25	PASS
144	5720 (U-NII 3)	12.98	19.848	30	PASS
149	5745	17.88	61.312	30	PASS
157	5785	17.85	60.890	30	PASS
165	5825	17.93	62.022	30	PASS

802.11n_HT20_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	17.82	60.596	23.48	PASS
60	5300	17.93	62.151	23.48	PASS
64	5320	17.90	61.723	23.48	PASS
100	5500	17.97	62.726	23.48	PASS
116	5580	17.79	60.179	23.48	PASS
140	5700	15.15	32.768	23.47	PASS
144	5720(U-NII 2C)	16.41	43.744	22.42	PASS
144	5720 (U-NII 3)	12.51	17.837	30	PASS
149	5745	17.91	61.865	30	PASS
157	5785	17.80	60.318	30	PASS
165	5825	17.84	60.876	30	PASS

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802.11n_HT40_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
54	5270	17.87	61.237	23.98	PASS
62	5310	15.51	35.564	23.98	PASS
102	5510	15.55	35.893	23.98	PASS
110	5550	17.93	62.088	23.98	PASS
134	5670	17.02	50.351	23.98	PASS
142	5710(U-NII 2C)	16.63	45.973	23.98	PASS
142	5710 (U-NII 3)	11.59	14.423	30	PASS
151	5755	17.71	59.022	30	PASS
159	5795	17.87	61.237	30	PASS

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802.11a_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	17.23	1.80	19.03	79.983	22.18	PASS
44	5220	17.95	1.80	19.75	94.406	22.19	PASS
48	5240	17.86	1.80	19.66	92.470	22.18	PASS
52	5260	17.84	1.40	19.24	83.946	29.18	PASS
60	5300	17.72	1.40	19.12	81.658	29.19	PASS
64	5320	17.85	1.40	19.25	84.140	29.2	PASS
100	5500	17.79	1.70	19.49	88.920	29.18	PASS
116	5580	17.79	1.70	19.49	88.920	29.21	PASS
140	5700	15.80	1.70	17.50	56.234	29.18	PASS

802.11n_HT20_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	16.82	1.80	18.62	72.778	22.47	PASS
44	5220	17.80	1.80	19.60	91.201	22.47	PASS
48	5240	17.79	1.80	19.59	90.991	22.48	PASS
52	5260	17.82	1.40	19.22	83.560	29.48	PASS
60	5300	17.93	1.40	19.33	85.704	29.48	PASS
64	5320	17.90	1.40	19.30	85.114	29.48	PASS
100	5500	17.97	1.70	19.67	92.683	29.48	PASS
116	5580	17.79	1.70	19.49	88.920	29.48	PASS
140	5700	15.15	1.70	16.85	48.417	29.47	PASS

802.11n_HT40_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	14.39	1.80	16.19	41.591	23.01	PASS
46	5230	17.72	1.80	19.52	89.536	23.01	PASS
54	5270	17.87	1.40	19.27	84.528	30	PASS
62	5310	15.51	1.40	16.91	49.091	30	PASS
102	5510	15.55	1.70	17.25	53.088	30	PASS
110	5550	17.93	1.70	19.63	91.833	30	PASS
134	5670	17.02	1.70	18.72	74.473	30	PASS

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10 MAXIMUM POWER SPECTRAL DENSITY

10.1 FCC Standard

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	V	All	11dBm / MHz	6dBi
U-NII-2C	V	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
<p>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 directional gain of the antenna.</p>				

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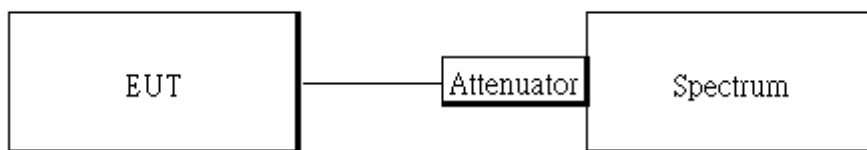
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10.2 ISED Standard

FREQUENCY BAND (MHz)	EUT CATEGORY		RSS-247 §6.2.1~6.2.4	
			EIRP Density	Power Density
5150~5250		OEM devices installed in vehicles	N/A	N/A
	V	Other device	10 dBm/MHz	N/A
5250~5350		OEM devices installed in vehicles	N/A	N/A
	V	Other device	N/A	11 dBm/MHz
5470-5600 and 5650-5725	V	All	N/A	11 dBm/MHz
5725~5850	V	All	N/A	30 dBm/500kHz

For equipment operating in the band 5725-5850 MHz, If transmitting antennas of directional gain greater than 6 dBi are used, the Maximum transmit power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

10.3 Test Setup



10.4 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

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(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. (1)Duty cycle \geq 98% : Record the max. reading.
(2)Duty cycle < 98% : 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.

10.5 Measurement Result

POWER DENSITY 802.11a MODE						
Frequency (MHz)	Ch0 meas PSD (dBm/MHz)	Duty Factor (dB)	Maxmum Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5180	6.319	0.27	6.59		11.00 dBm/MHz	-4.41
5220	7.117	0.27	7.39		11.00 dBm/MHz	-3.61
5240	6.923	0.27	7.19		11.00 dBm/MHz	-3.81
5260	6.751	0.27	7.02		11.00 dBm/MHz	-3.98
5300	6.567	0.27	6.84		11.00 dBm/MHz	-4.16
5320	5.909	0.27	6.18		11.00 dBm/MHz	-4.82
5500	5.641	0.27	5.91		11.00 dBm/MHz	-5.09
5580	6.577	0.27	6.85		11.00 dBm/MHz	-4.15
5700	4.939	0.27	5.21		11.00 dBm/MHz	-5.79
5720 (U-NII 2C)	7.383	0.27	7.65		11.00 dBm/MHz	-3.35
Frequency (MHz)	Ch0 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Maxmum Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5720 (U-NII 3)	1.687	0.27	2.22	4.18	30.00 dBm/500kHz	-25.82
5745	2.269	0.27	2.22	4.76	30.00 dBm/500kHz	-25.24
5785	1.849	0.27	2.22	4.34	30.00 dBm/500kHz	-25.66
5825	1.771	0.27	2.22	4.26	30.00 dBm/500kHz	-25.74

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POWER DENSITY 802.11n HT20 MODE						
Frequency (MHz)	Ch0 meas PSD (dBm/MHz)	Duty Factor (dB)	Maxmum Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5180	5.630	0.28	5.91		11.00 dBm/MHz	-5.09
5220	6.830	0.28	7.11		11.00 dBm/MHz	-3.89
5240	7.076	0.28	7.36		11.00 dBm/MHz	-3.64
5260	6.850	0.28	7.13		11.00 dBm/MHz	-3.87
5300	6.412	0.28	6.69		11.00 dBm/MHz	-4.31
5320	6.353	0.28	6.63		11.00 dBm/MHz	-4.37
5500	5.416	0.28	5.70		11.00 dBm/MHz	-5.30
5580	5.900	0.28	6.18		11.00 dBm/MHz	-4.82
5700	4.175	0.28	4.46		11.00 dBm/MHz	-6.55
5720 (U-NII 2C)	6.483	0.28	6.76		11.00 dBm/MHz	-4.24
Frequency (MHz)	Ch0 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Maxmum Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5720 (U-NII 3)	0.754	0.28	2.22	3.25	30.00 dBm/500kHz	-26.75
5745	2.176	0.28	2.22	4.68	30.00 dBm/500kHz	-25.32
5785	1.916	0.28	2.22	4.42	30.00 dBm/500kHz	-25.58
5825	1.306	0.28	2.22	3.81	30.00 dBm/500kHz	-26.19
POWER DENSITY 802.11n HT40 MODE						
Frequency (MHz)	Ch0 meas PSD (dBm/MHz)	Duty Factor (dB)	Maxmum Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5190	0.085	0.56	0.65		11.00 dBm/MHz	-10.36
5230	2.754	0.56	3.31		11.00 dBm/MHz	-7.69
5270	3.161	0.56	3.72		11.00 dBm/MHz	-7.28
5310	-1.371	0.56	-0.81		11.00 dBm/MHz	-11.81
5510	1.827	0.56	2.39		11.00 dBm/MHz	-8.61
5550	2.950	0.56	3.51		11.00 dBm/MHz	-7.49
5670	2.863	0.56	3.42		11.00 dBm/MHz	-7.58
5710 (U-NII 2C)	4.164	0.56	4.72		11.00 dBm/MHz	-6.28
Frequency (MHz)	Ch0 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Maxmum Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5710 (U-NII 3)	-2.812	0.56	2.22	-0.03	30.00 dBm/500kHz	-30.03
5755	-1.536	0.56	2.22	1.24	30.00 dBm/500kHz	-28.76
5795	-2.071	0.56	2.22	0.71	30.00 dBm/500kHz	-29.29

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EIRP spectral density 802.11a MODE					
Freq. (MHz)	PSD (dBm)	Ant. Gain (dBi)	EIRP PSD (dBm)	Limit (dBm)	Margin (dB)
5180	6.589	1.80	8.39	10	-1.61
5220	7.387	1.80	9.19	10	-0.81
5240	7.193	1.80	8.99	10	-1.01
EIRP spectral density 802.11n HT20 MODE					
Freq. (MHz)	PSD (dBm)	Ant. Gain (dBi)	EIRP PSD (dBm)	Limit (dBm)	Margin (dB)
5180	5.910	1.80	7.71	10	-2.29
5220	7.110	1.80	8.91	10	-1.09
5240	7.356	1.80	9.16	10	-0.84
EIRP spectral density 802.11n HT40 MODE					
Freq. (MHz)	PSD (dBm)	Ant. Gain (dBi)	EIRP PSD (dBm)	Limit (dBm)	Margin (dB)
5190	0.645	1.80	2.45	10	-7.56
5230	3.314	1.80	5.11	10	-4.89

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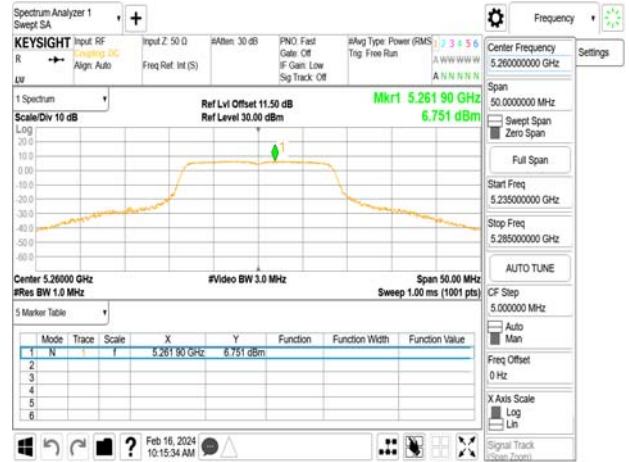
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802.11a_20MHz_Chain0_5180MHz



802.11a_20MHz_Chain0_5260MHz



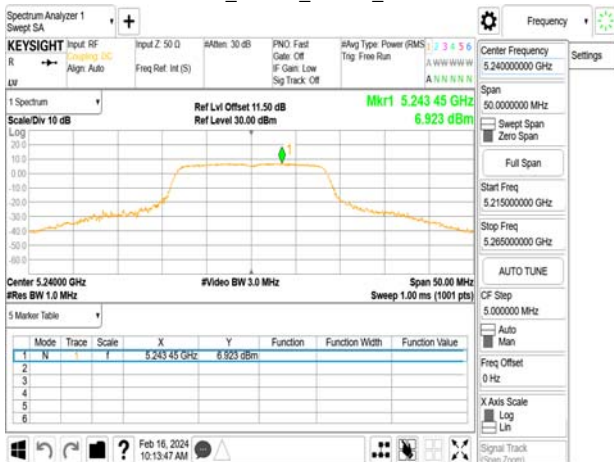
802.11a_20MHz_Chain0_5220MHz



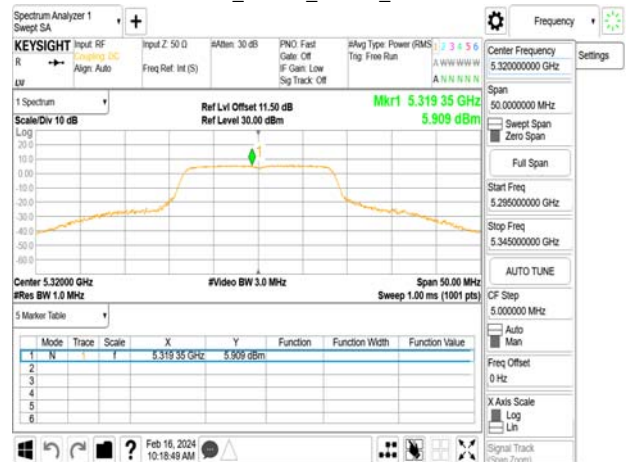
802.11a_20MHz_Chain0_5300MHz



802.11a_20MHz_Chain0_5240MHz



802.11a_20MHz_Chain0_5320MHz

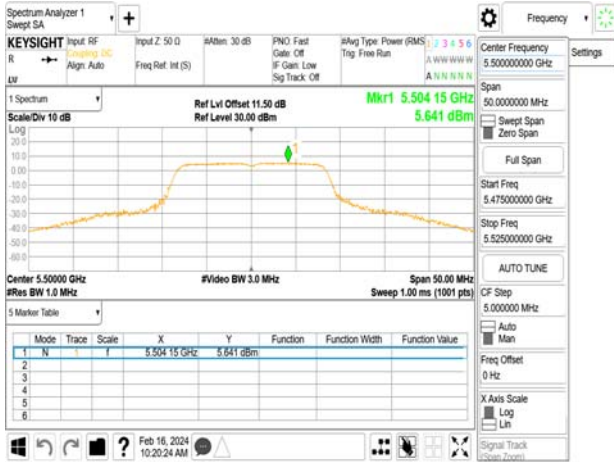


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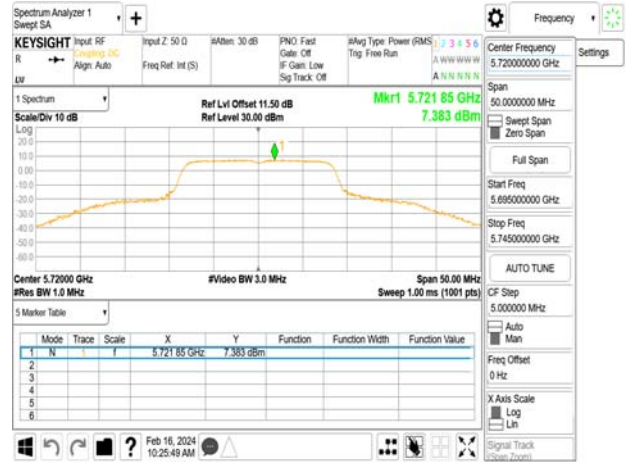
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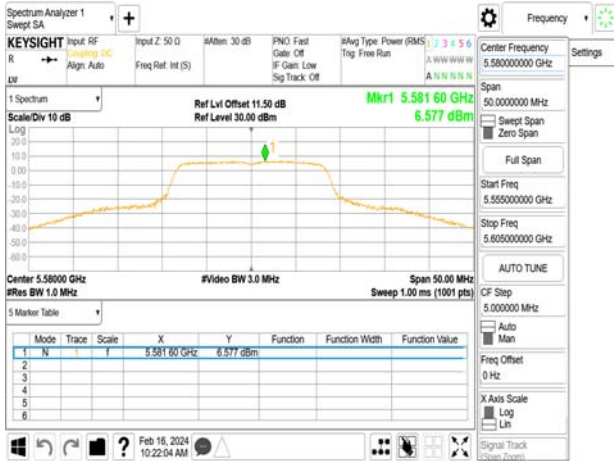
802.11a_20MHz_Chain0_5500MHz



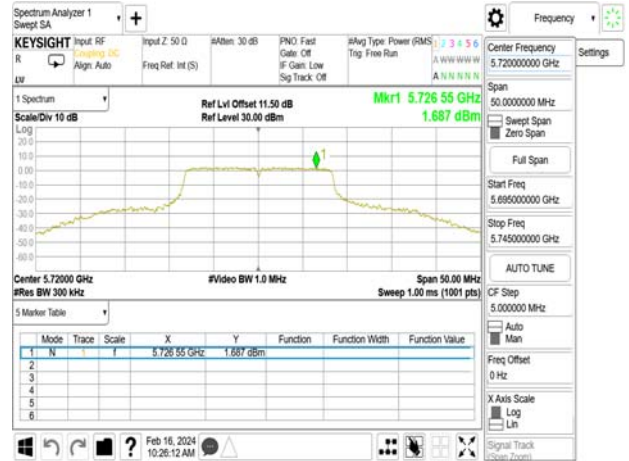
802.11a_20MHz_Chain0_5720MHz_UNII 2C



802.11a_20MHz_Chain0_5580MHz



802.11a_20MHz_Chain0_5720MHz_UNII 3



802.11a_20MHz_Chain0_5700MHz



802.11a_20MHz_Chain0_5745MHz

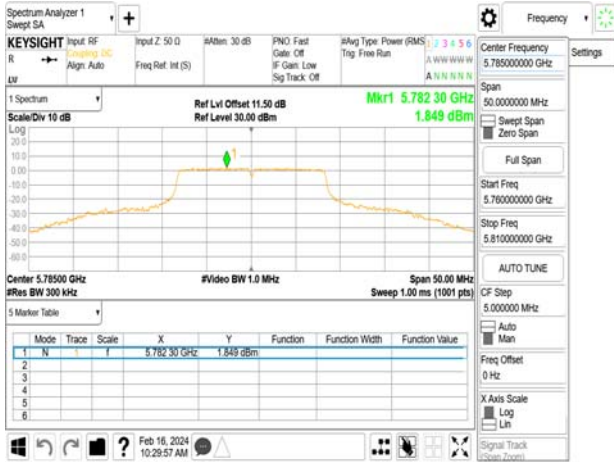


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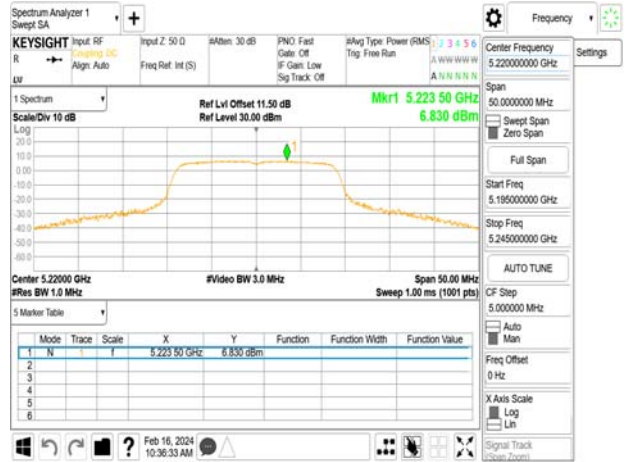
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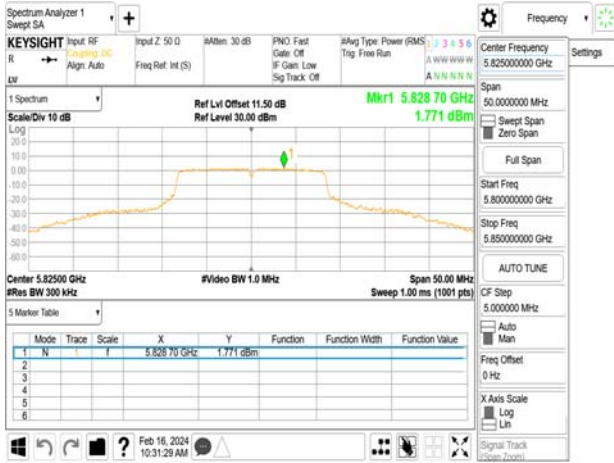
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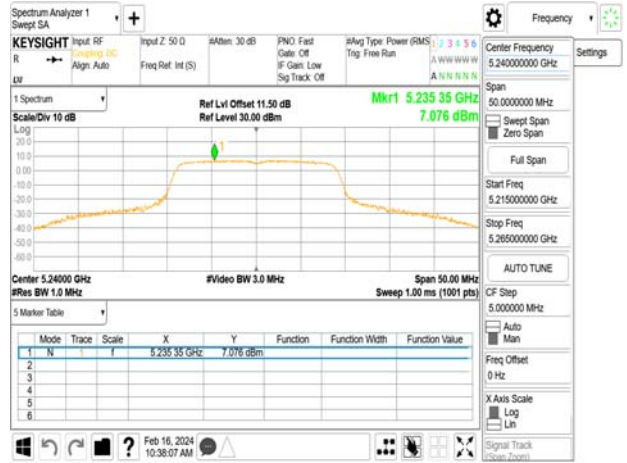
802.11n_20MHz_Chain0_5220MHz



802.11a_20MHz_Chain0_5825MHz



802.11n_20MHz_Chain0_5240MHz



802.11n_20MHz_Chain0_5180MHz



802.11n_20MHz_Chain0_5260MHz

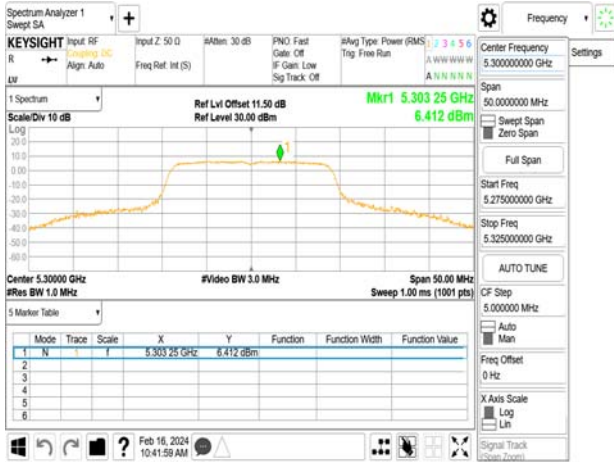


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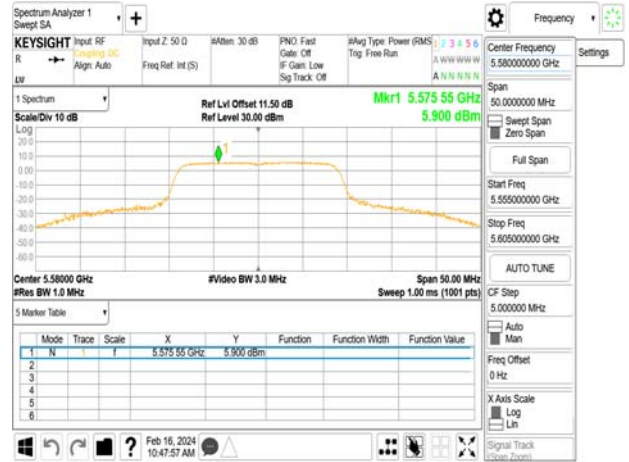
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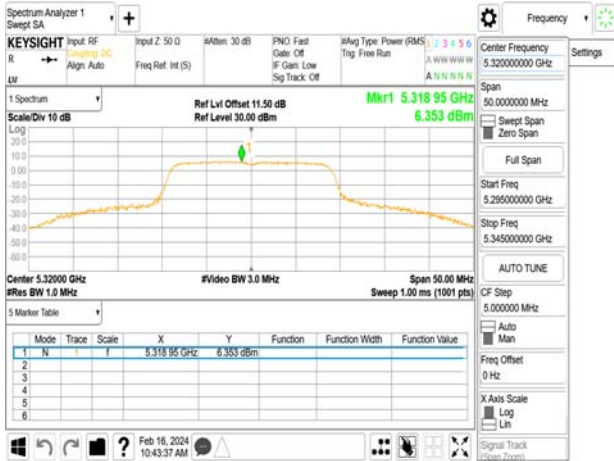
802.11n_20MHz_Chain0_5300MHz



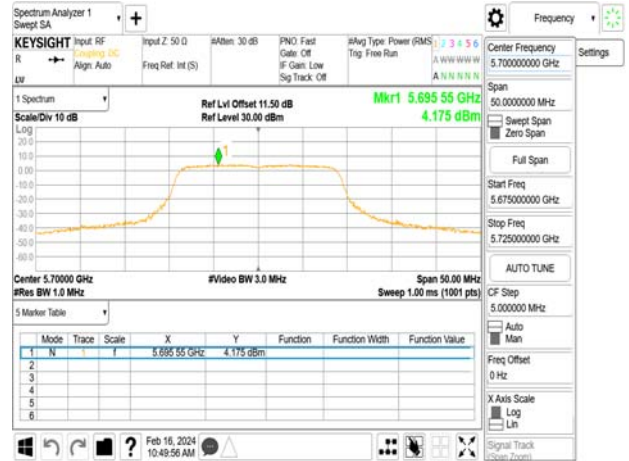
802.11n_20MHz_Chain0_5580MHz



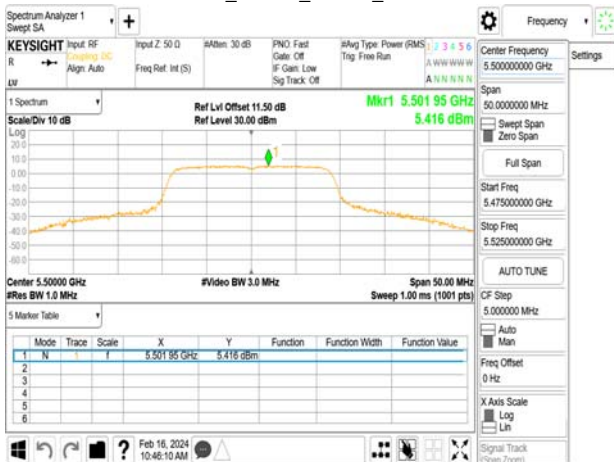
802.11n_20MHz_Chain0_5320MHz



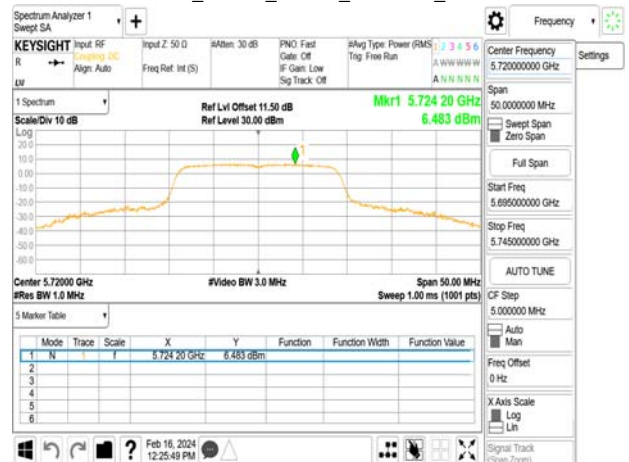
802.11n_20MHz_Chain0_5700MHz



802.11n_20MHz_Chain0_5500MHz



802.11n_20MHz_Chain0_5720MHz_UNII 2C

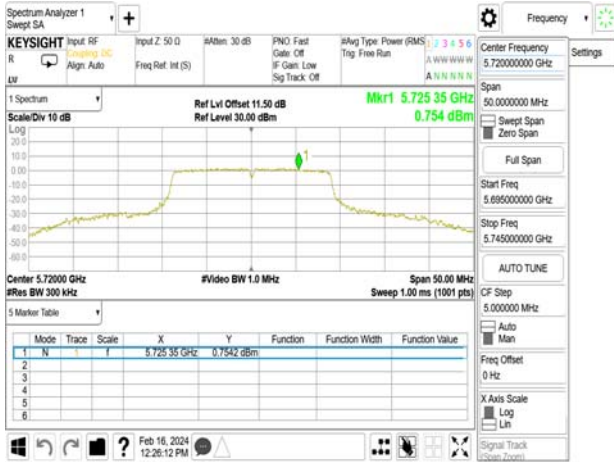


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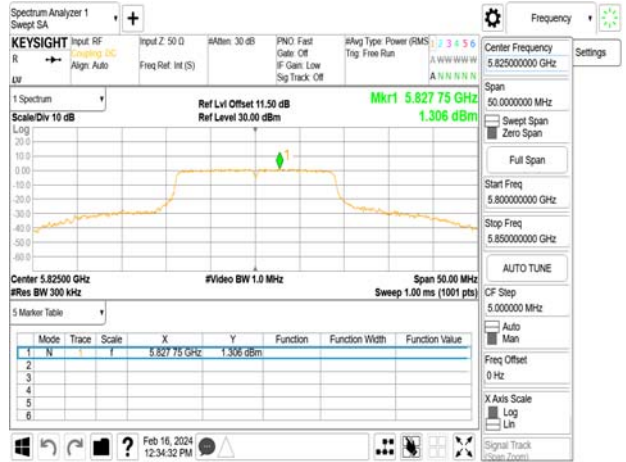
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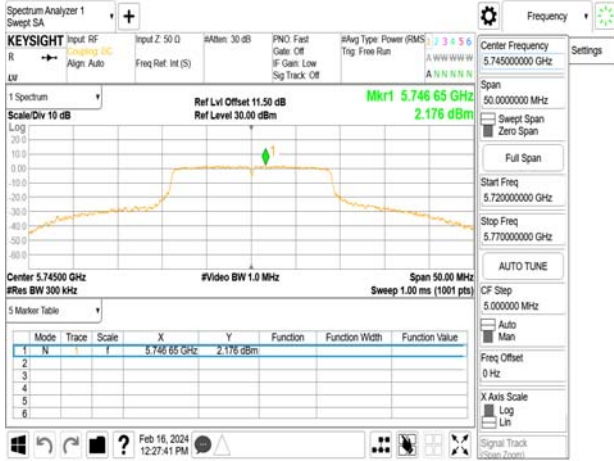
802.11n_20MHz_Chain0_5720MHz_UNII 3



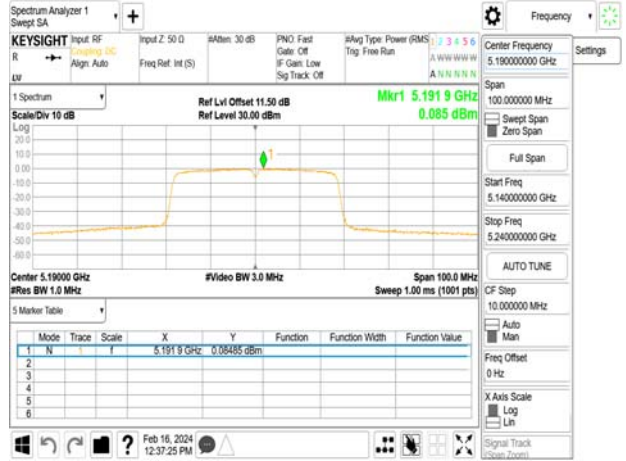
802.11n_20MHz_Chain0_5825MHz



802.11n_20MHz_Chain0_5745MHz



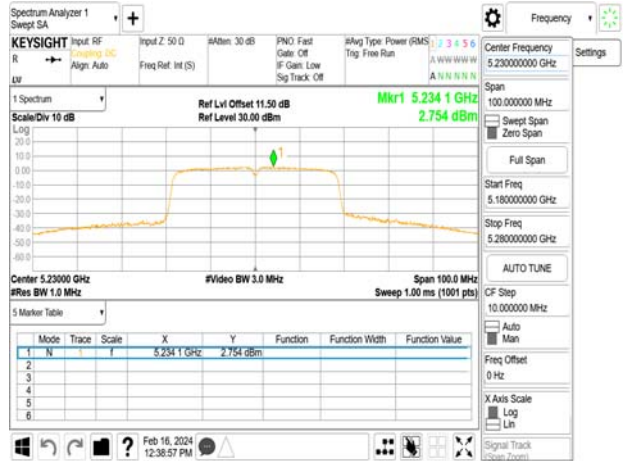
802.11n_40MHz_Chain0_5190MHz



802.11n_20MHz_Chain0_5785MHz



802.11n_40MHz_Chain0_5230MHz

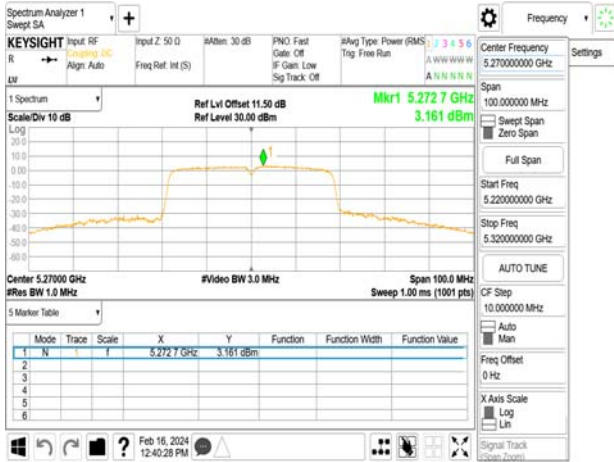


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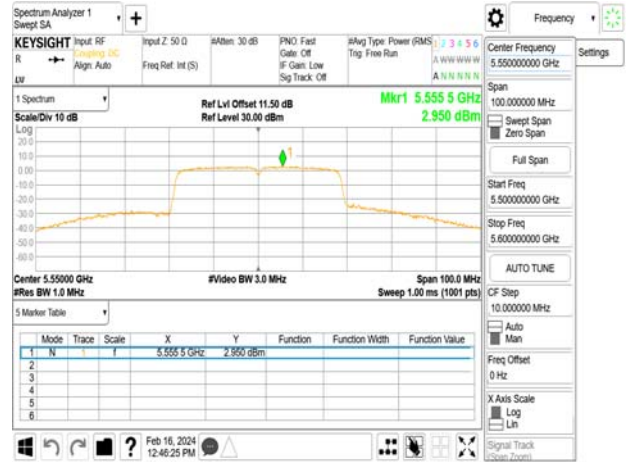
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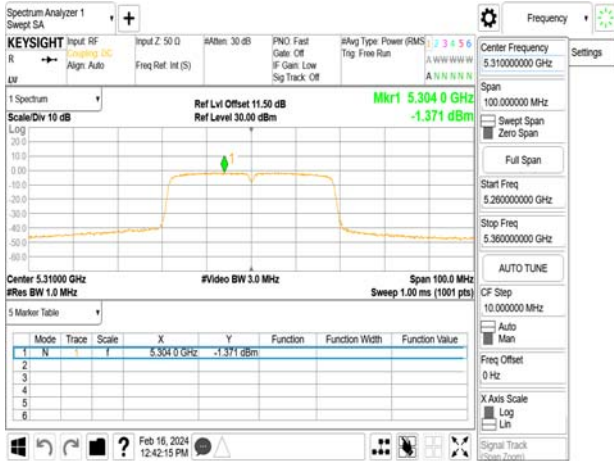
802.11n_40MHz_Chain0_5270MHz



802.11n_40MHz_Chain0_5550MHz



802.11n_40MHz_Chain0_5310MHz



802.11n_40MHz_Chain0_5670MHz



802.11n_40MHz_Chain0_5510MHz



802.11n_40MHz_Chain0_5710MHz_UNII 2C



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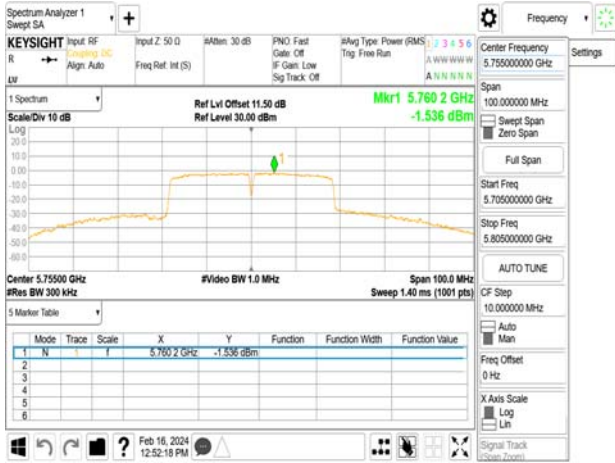
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802.11n_40MHz_Chain0_5710MHz_UNII 3



802.11n_40MHz_Chain0_5755MHz



802.11n_40MHz_Chain0_5795MHz



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11 UNDESIRABLE RADIATED EMISSION MEASUREMENT

11.1 Standard Applicable

$EIRP = (E \cdot d)^2 / 30$, 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 (dB μ V/m)
		Freq. (MHz)	Limits (dBm/MHz)	
15.407(b)(1) RSS-247 §6.2.1.2	5150~5250	f ≤ 5150 f ≥ 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			
15.407(b)(4)(i) RSS-247 §6.2.4.3	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

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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:

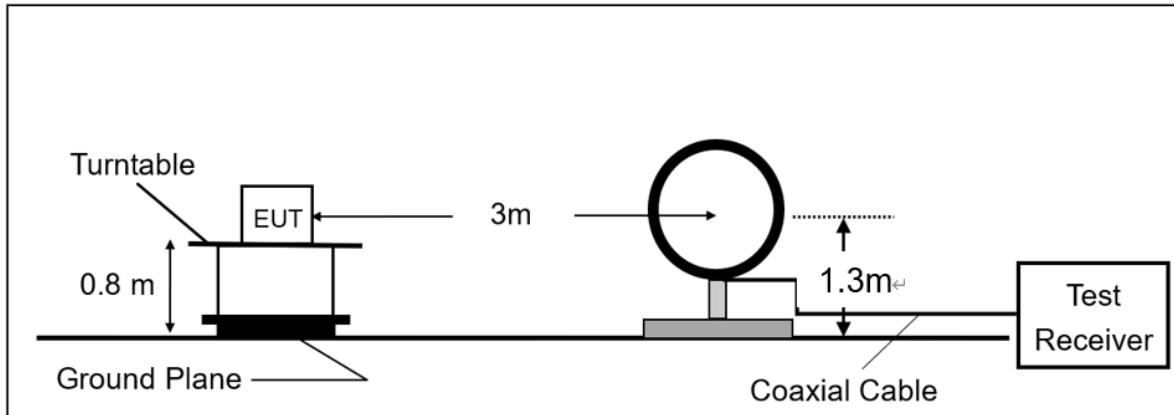
1. The lower limit shall apply at the transition frequencies.

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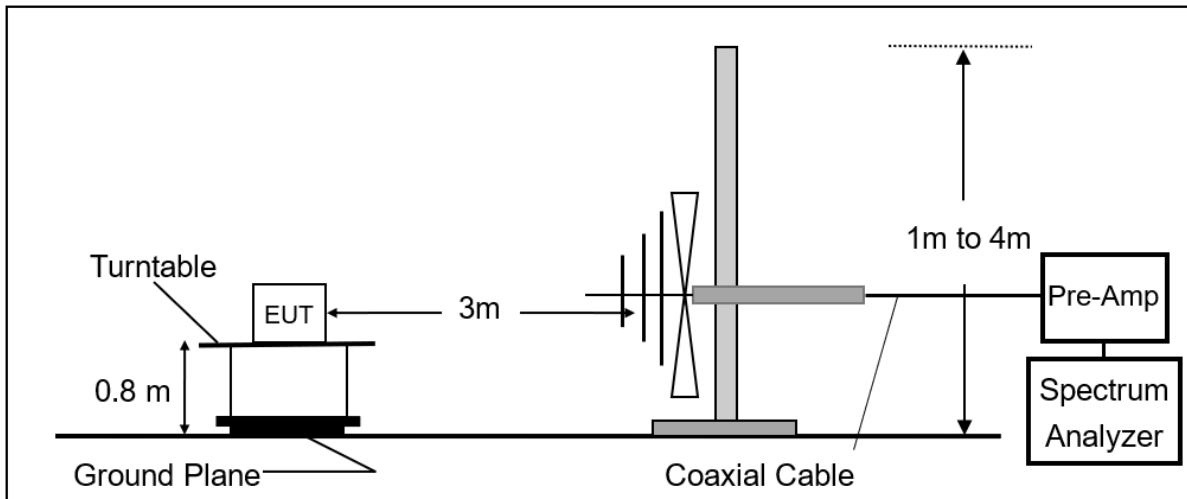
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11.2 Test Setup

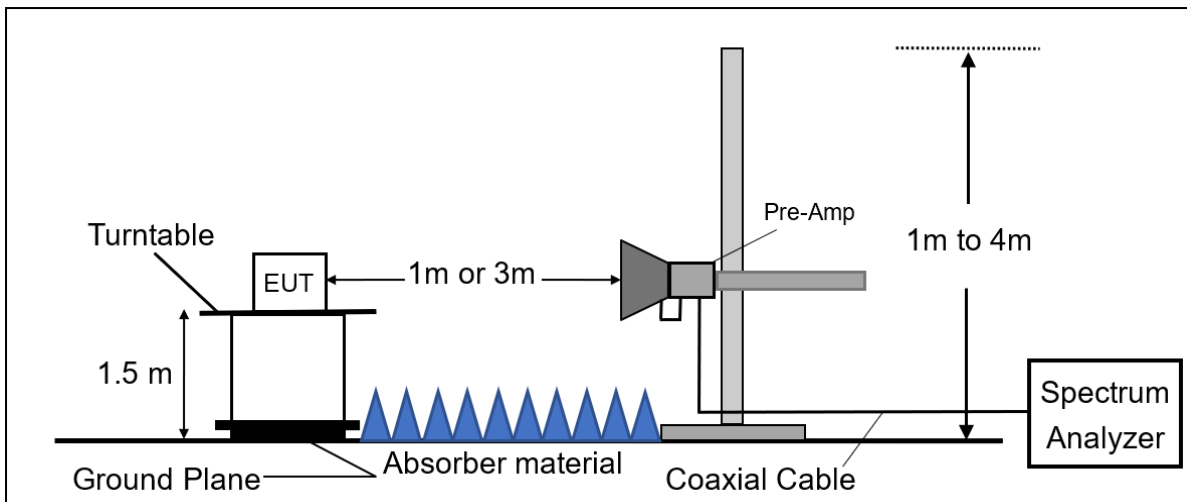
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



(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 ≥ 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.

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*log(uV/m)*

$$Actual\ FS(dBuV/m) = SPA.\ Reading\ level(dBuV) + Factor(dB)$$

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$$\text{Factor(dB)} = \text{Antenna Factor(dB}\mu\text{V/m)} + \text{Cable Loss(dB)} - \text{Pre_Amplifier Gain(dB)}$$

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

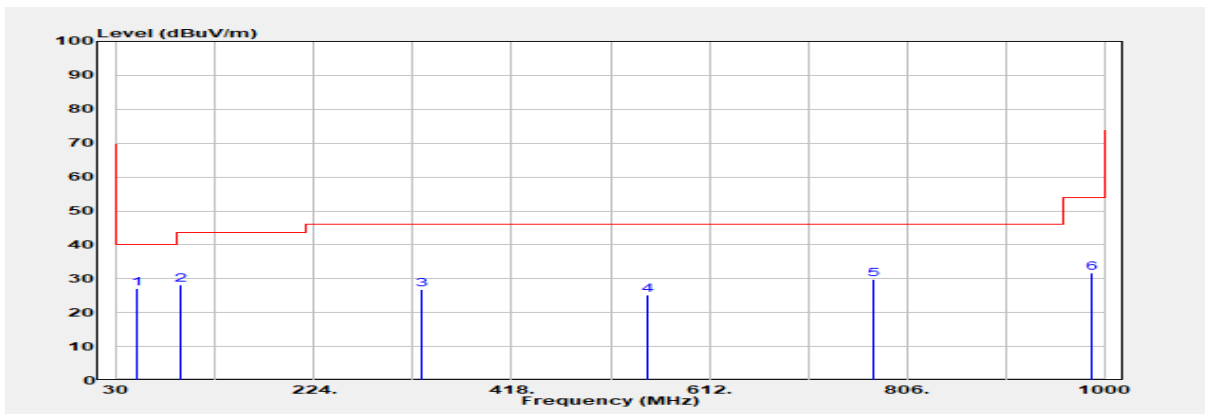
The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit per 15.31(o) & RSS-GEN §6.13.2 was not reported.

Pre-scan was done at frequency 5.47 GHz and 5.85 GHz for bandedge measurement of straddle channels 138, 142 and 144 which was 20dB lower than the limit per 15.31(o) & RSS-GEN §6.13.2 was not reported.

11.6 Radiated Spurious Emission Measurement Result

11.6.1 Spurious Emission

Report Number	:TERF2401000172E2	Test Site	:SAC D
Operation Mode	:802.11a	Test Date	:2024-02-15
Test Frequency	:5220 MHz	Temp./Humi.	:23.1°C/51%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
49.400	Peak	43.87	-16.70	27.18	40.00	-12.82
93.050	Peak	50.75	-22.61	28.15	43.50	-15.35
328.760	Peak	41.64	-14.82	26.83	46.00	-19.17
551.860	Peak	35.80	-10.52	25.28	46.00	-20.72
773.990	Peak	36.37	-6.66	29.71	46.00	-16.29
987.390	Peak	35.99	-4.22	31.77	54.00	-22.23

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Report Number :TERF2401000172E2

Test Site :SAC D

Operation Mode :802.11a

Test Date :2024-02-15

Test Frequency :5220 MHz

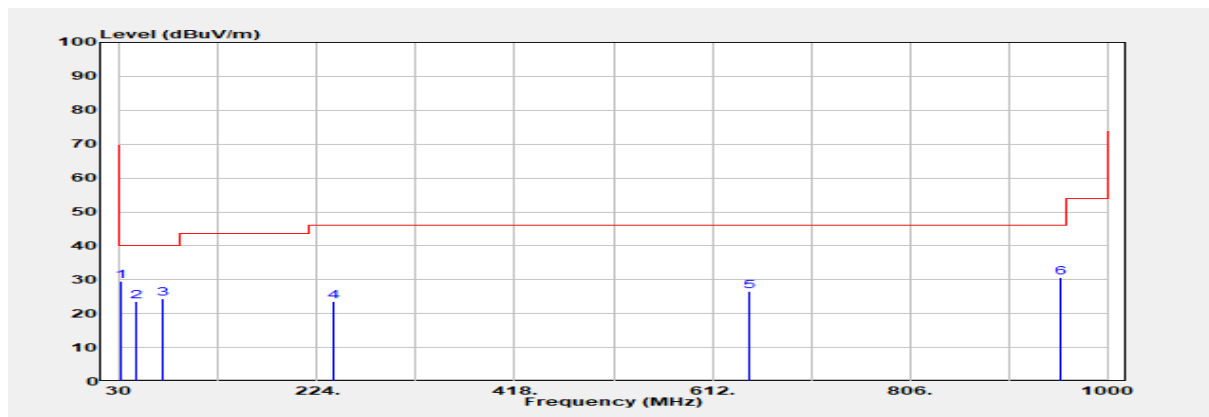
Temp./Humi. :23.1°C/51%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



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
30.970	Peak	48.22	-18.74	29.49	40.00	-10.51
45.520	Peak	40.35	-16.90	23.45	40.00	-16.55
71.710	Peak	44.20	-19.92	24.28	40.00	-15.72
239.520	Peak	41.60	-17.96	23.64	46.00	-22.36
648.860	Peak	34.86	-8.35	26.51	46.00	-19.49
954.410	Peak	34.60	-4.06	30.54	46.00	-15.46

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Report Number :TERF2401000172E2

Test Site :SAC D

Operation Mode :802.11a

Test Date :2024-02-15

Test Frequency :5300 MHz

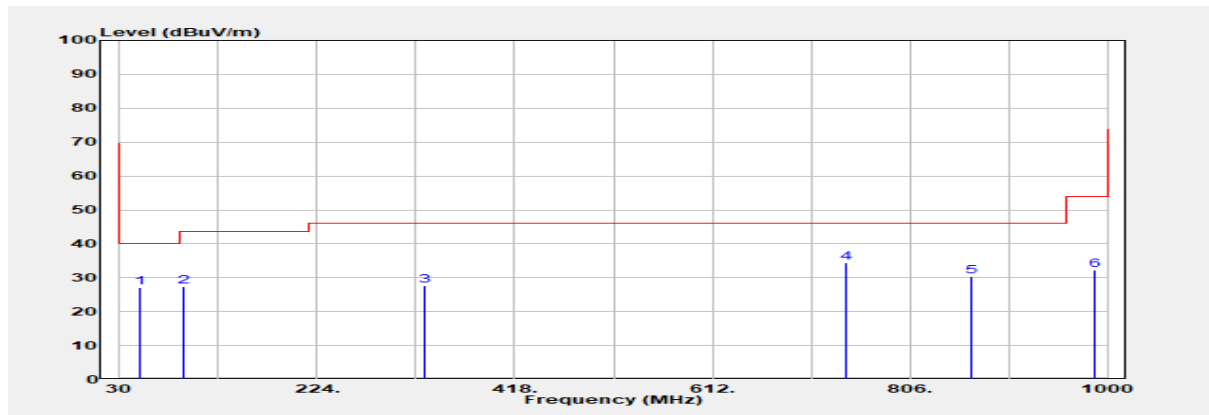
Temp./Humi. :23.1°C/51%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
49.400	Peak	43.89	-16.70	27.19	40.00	-12.81
93.050	Peak	49.94	-22.61	27.34	43.50	-16.16
328.760	Peak	42.37	-14.82	27.56	46.00	-18.44
743.920	Peak	41.08	-6.60	34.47	46.00	-11.53
866.140	Peak	36.24	-5.95	30.30	46.00	-15.70
988.360	Peak	36.38	-4.19	32.19	54.00	-21.81

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Report Number :TERF2401000172E2

Test Site :SAC D

Operation Mode :802.11a

Test Date :2024-02-15

Test Frequency :5300 MHz

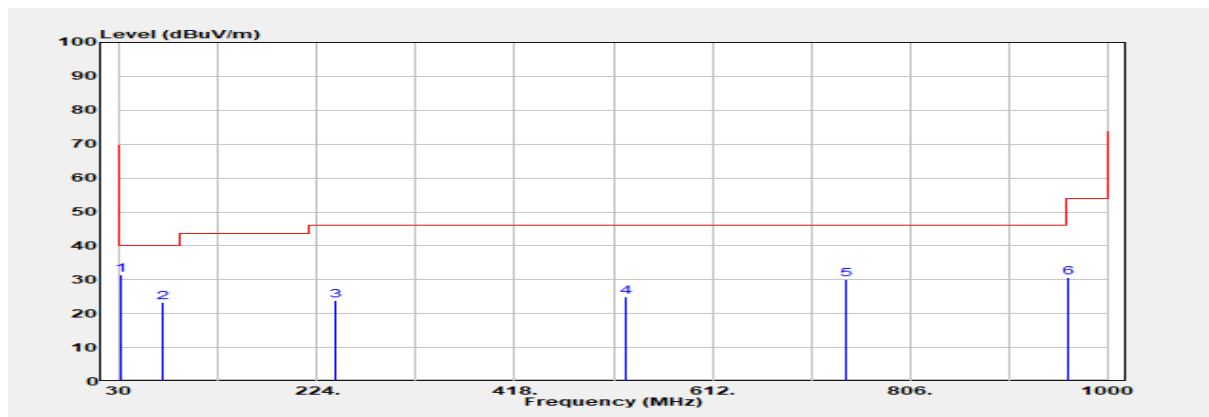
Temp./Humi. :23.1°C/51%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
30.970	Peak	50.12	-18.74	31.38	40.00	-8.62
71.710	Peak	43.15	-19.92	23.23	40.00	-16.77
242.430	Peak	41.46	-17.70	23.75	46.00	-22.25
526.640	Peak	35.58	-10.58	24.99	46.00	-21.01
743.920	Peak	36.59	-6.60	29.99	46.00	-16.01
962.170	Peak	34.55	-4.03	30.52	54.00	-23.48

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Report Number :TERF2401000172E2

Test Site :SAC D

Operation Mode :802.11a

Test Date :2024-02-15

Test Frequency :5580 MHz

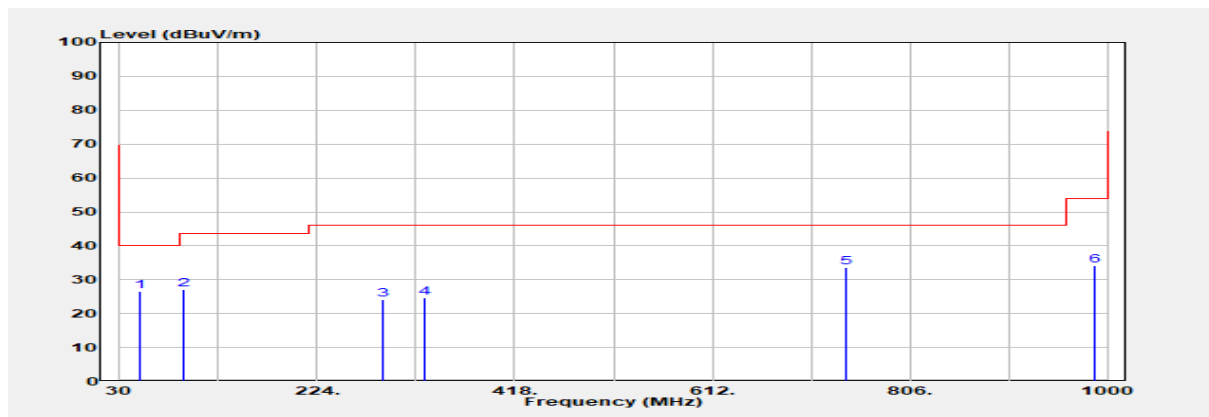
Temp./Humi. :23.1°C/51%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
49.400	Peak	43.13	-16.70	26.44	40.00	-13.56
93.050	Peak	49.80	-22.61	27.20	43.50	-16.30
288.020	Peak	39.97	-15.96	24.00	46.00	-22.00
328.760	Peak	39.60	-14.82	24.78	46.00	-21.22
743.920	Peak	40.15	-6.60	33.55	46.00	-12.45
988.360	Peak	38.21	-4.19	34.01	54.00	-19.99

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Report Number :TERF2401000172E2

Test Site :SAC D

Operation Mode :802.11a

Test Date :2024-02-15

Test Frequency :5580 MHz

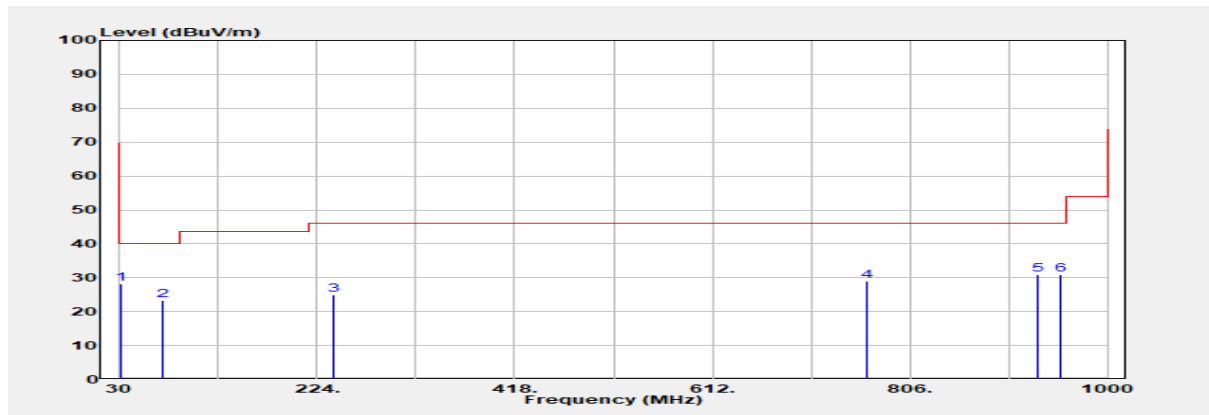
Temp./Humi. :23.1°C/51%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
30.970	Peak	46.79	-18.74	28.05	40.00	-11.95
71.710	Peak	43.19	-19.92	23.27	40.00	-16.73
240.490	Peak	42.82	-17.85	24.96	46.00	-21.04
764.290	Peak	35.58	-6.69	28.89	46.00	-17.11
931.130	Peak	35.01	-4.17	30.84	46.00	-15.16
954.410	Peak	35.00	-4.06	30.94	46.00	-15.06

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Report Number :TERF2401000172E2

Test Site :SAC D

Operation Mode :802.11a

Test Date :2024-02-15

Test Frequency :5720 MHz

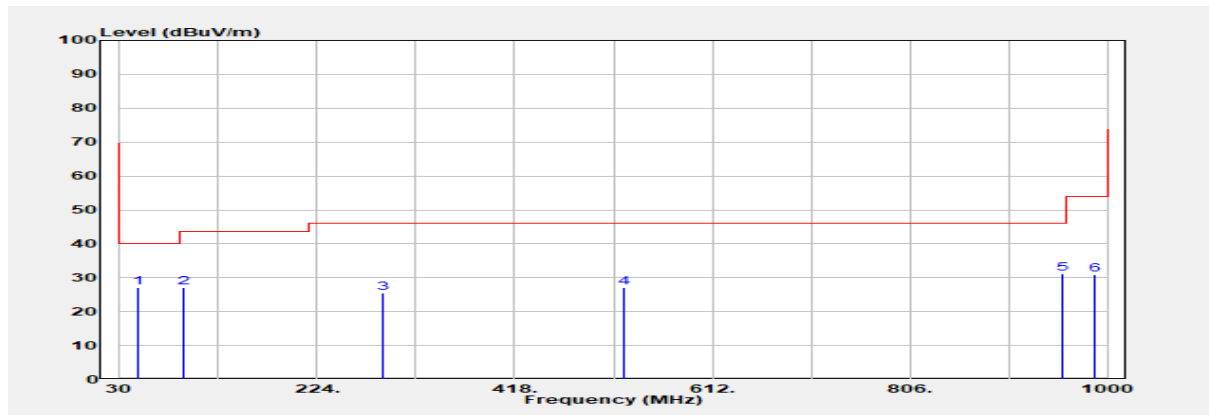
Temp./Humi. :23.1°C/51%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
48.430	Peak	43.83	-16.78	27.05	40.00	-12.95
93.050	Peak	49.63	-22.61	27.02	43.50	-16.48
288.020	Peak	41.48	-15.96	25.52	46.00	-20.48
525.670	Peak	37.71	-10.60	27.11	46.00	-18.89
955.380	Peak	35.26	-4.04	31.22	46.00	-14.78
987.390	Peak	35.16	-4.22	30.94	54.00	-23.06

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Report Number :TERF2401000172E2

Test Site :SAC D

Operation Mode :802.11a

Test Date :2024-02-15

Test Frequency :5720 MHz

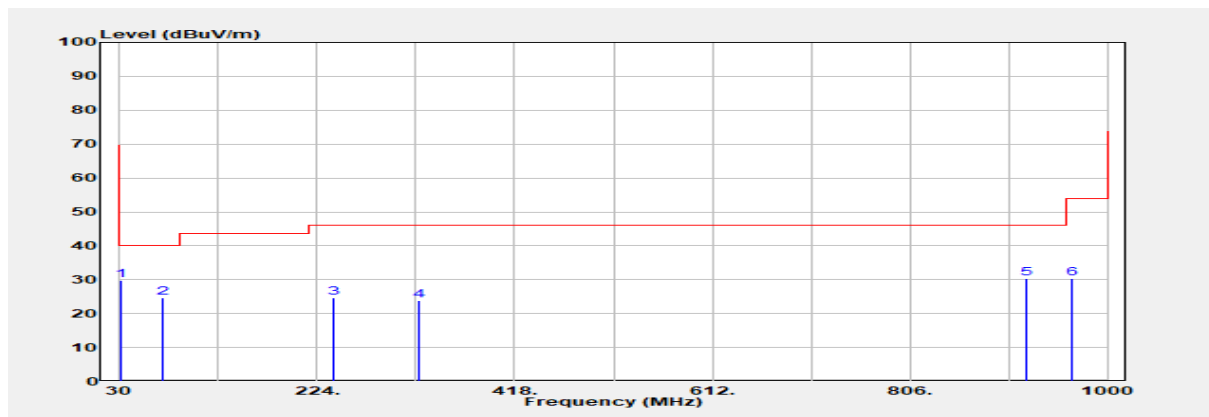
Temp./Humi. :23.1°C/51%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



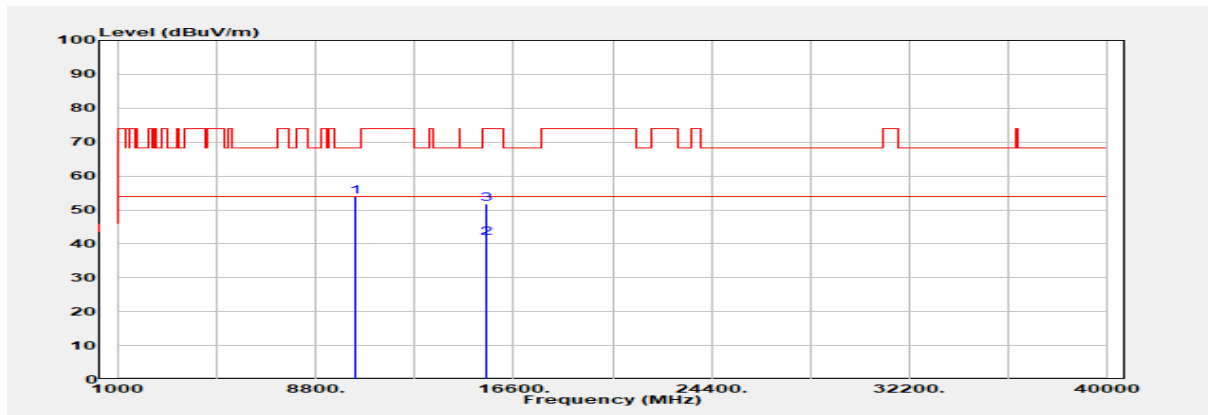
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
30.970	Peak	48.56	-18.74	29.82	40.00	-10.18
71.710	Peak	44.56	-19.92	24.64	40.00	-15.36
240.490	Peak	42.63	-17.85	24.78	46.00	-21.22
323.910	Peak	38.66	-14.86	23.80	46.00	-22.20
920.460	Peak	34.85	-4.39	30.46	46.00	-15.54
965.080	Peak	34.50	-4.16	30.34	54.00	-23.66

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Report Number :TERF2401000172E2
 Operation Mode :802.11a
 Test Frequency :5180 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2024-02-15
 Temp./Humi. :21.3 °C/53%
 Antenna Pol. :Vertical
 Engineer :Sam Huang



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	40.96	12.89	53.84	68.20	-14.36
15540.000	Average	27.32	14.32	41.64	54.00	-12.36
15540.000	Peak	37.52	14.32	51.84	74.00	-22.16

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Report Number :TERF2401000172E2

Test Site :SAC D

Operation Mode :802.11a

Test Date :2024-02-15

Test Frequency :5180 MHz

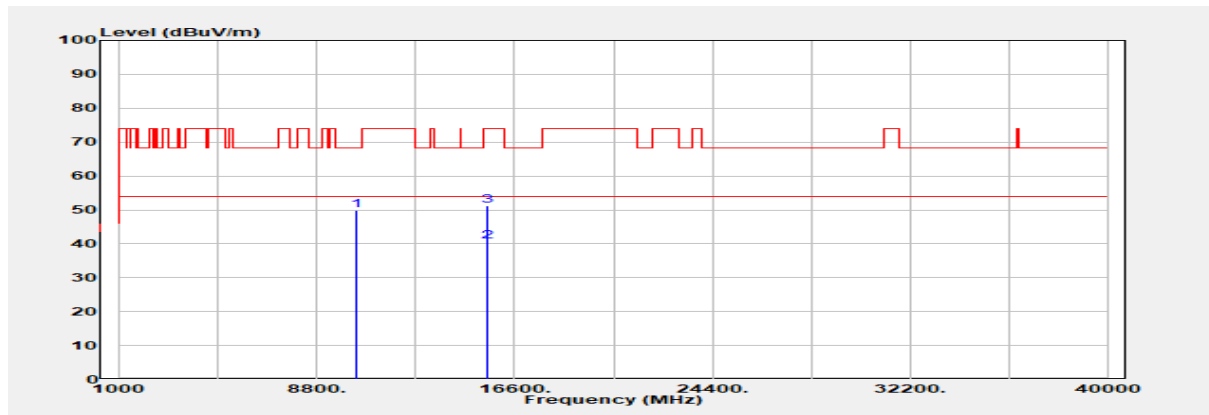
Temp./Humi. :21.3 °C/53%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



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	36.89	12.89	49.77	68.20	-18.43
15540.000	Average	26.41	14.32	40.73	54.00	-13.27
15540.000	Peak	36.91	14.32	51.23	74.00	-22.77

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Report Number :TERF2401000172E2

Test Site :SAC D

Operation Mode :802.11a

Test Date :2024-02-15

Test Frequency :5220 MHz

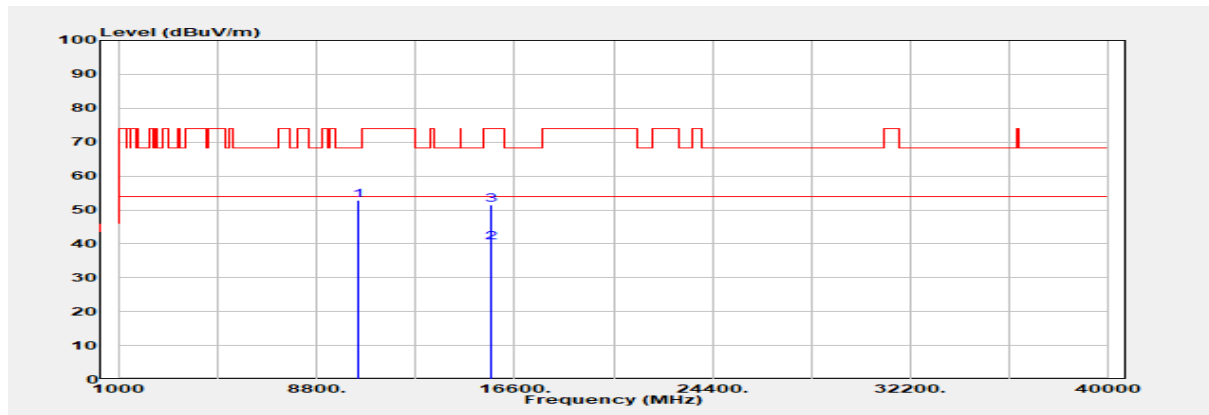
Temp./Humi. :21.3 °C/53%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam Huang



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	39.80	12.94	52.74	68.20	-15.46
15660.000	Average	26.95	13.44	40.39	54.00	-13.61
15660.000	Peak	37.99	13.44	51.43	74.00	-22.57

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Report Number :TERF2401000172E2

Test Site :SAC D

Operation Mode :802.11a

Test Date :2024-02-15

Test Frequency :5220 MHz

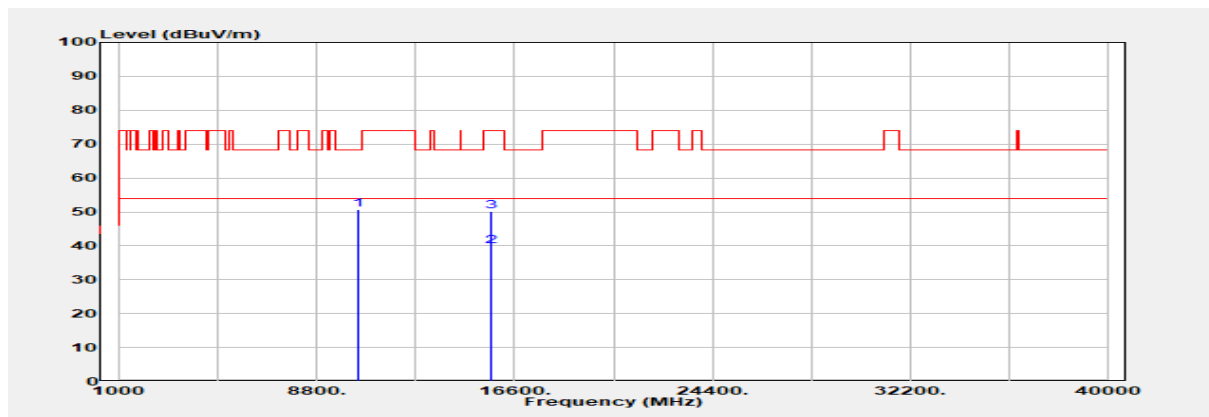
Temp./Humi. :21.3 °C/53%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



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	37.78	12.94	50.72	68.20	-17.48
15660.000	Average	26.44	13.44	39.88	54.00	-14.12
15660.000	Peak	36.71	13.44	50.15	74.00	-23.85

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Report Number :TERF2401000172E2

Test Site :SAC D

Operation Mode :802.11a

Test Date :2024-02-15

Test Frequency :5240 MHz

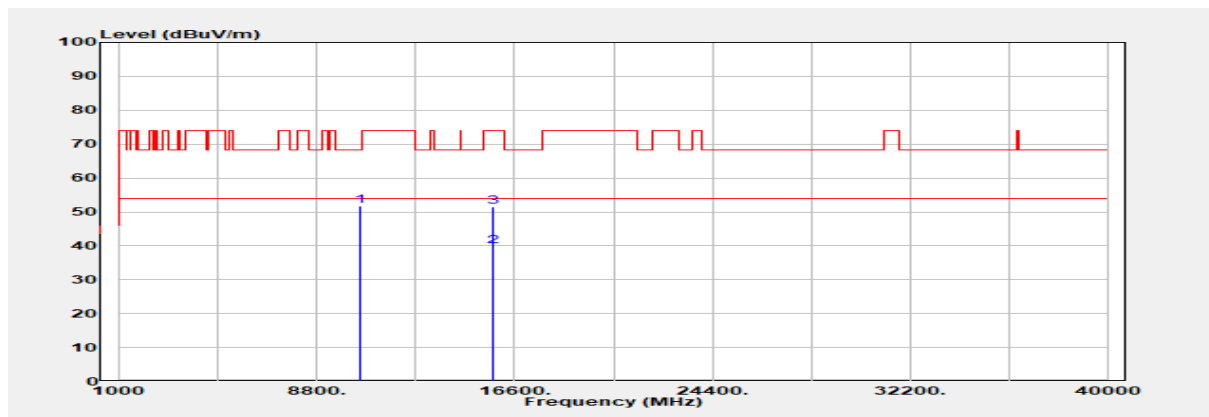
Temp./Humi. :21.3 °C/53%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam Huang



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	38.50	13.15	51.65	68.20	-16.55
15720.000	Average	26.38	13.38	39.76	54.00	-14.24
15720.000	Peak	38.03	13.38	51.41	74.00	-22.59

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Report Number :TERF2401000172E2

Test Site :SAC D

Operation Mode :802.11a

Test Date :2024-02-15

Test Frequency :5240 MHz

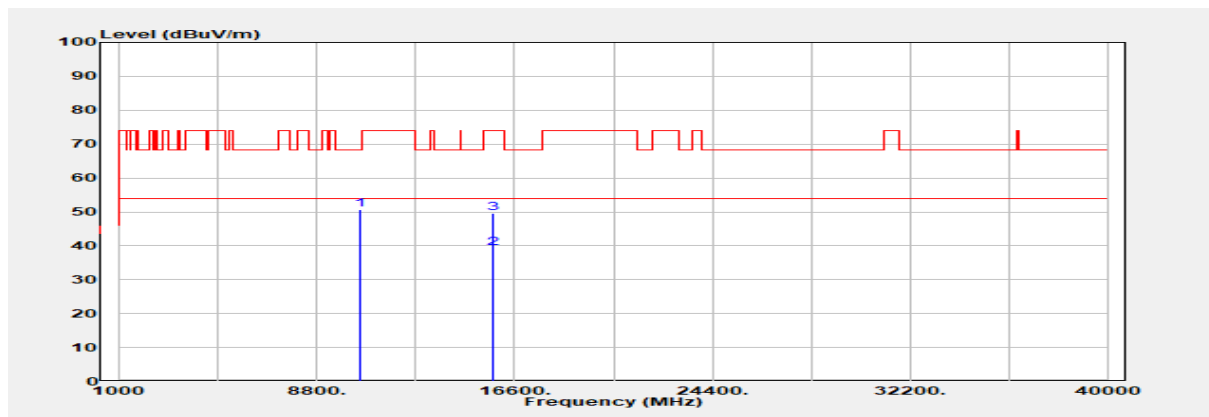
Temp./Humi. :21.3 °C/53%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



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	37.61	13.15	50.77	68.20	-17.43
15720.000	Average	25.83	13.38	39.21	54.00	-14.79
15720.000	Peak	36.31	13.38	49.68	74.00	-24.32

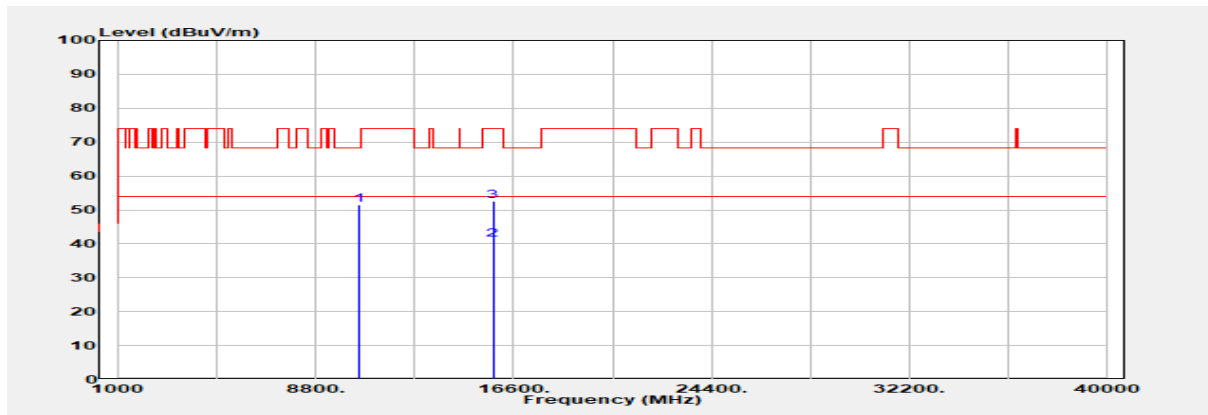
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Report Number :TERF2401000172E2
 Operation Mode :802.11a
 Test Frequency :5260 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2024-02-15
 Temp./Humi. :21.3 °C/53%
 Antenna Pol. :Vertical
 Engineer :Sam Huang



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
10520.000	Peak	38.16	13.29	51.45	68.20	-16.75
15780.000	Average	27.25	14.00	41.25	54.00	-12.75
15780.000	Peak	38.45	14.00	52.45	74.00	-21.55

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Report Number :TERF2401000172E2

Test Site :SAC D

Operation Mode :802.11a

Test Date :2024-02-15

Test Frequency :5260 MHz

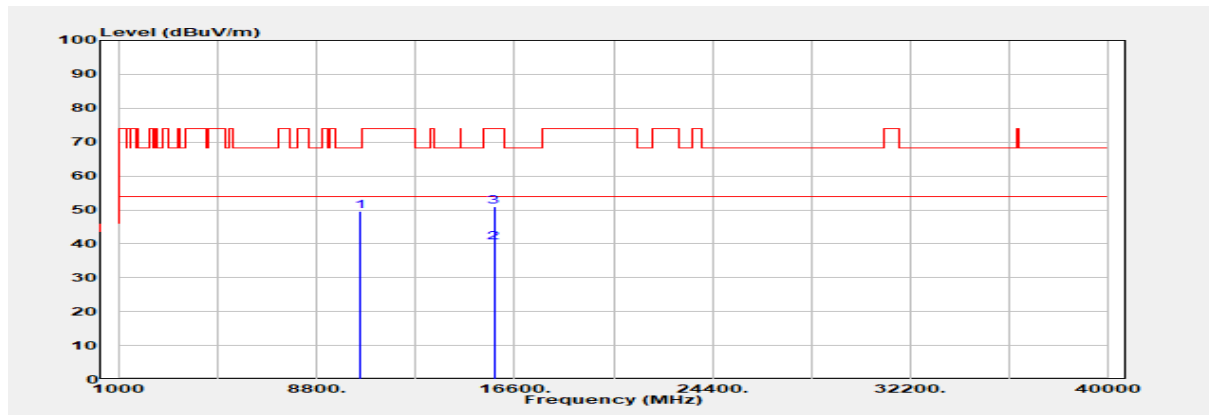
Temp./Humi. :21.3 °C/53%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



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
10520.000	Peak	36.41	13.29	49.70	68.20	-18.50
15780.000	Average	26.31	14.00	40.31	54.00	-13.69
15780.000	Peak	37.02	14.00	51.02	74.00	-22.98

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Report Number :TERF2401000172E2

Test Site :SAC D

Operation Mode :802.11a

Test Date :2024-02-15

Test Frequency :5300 MHz

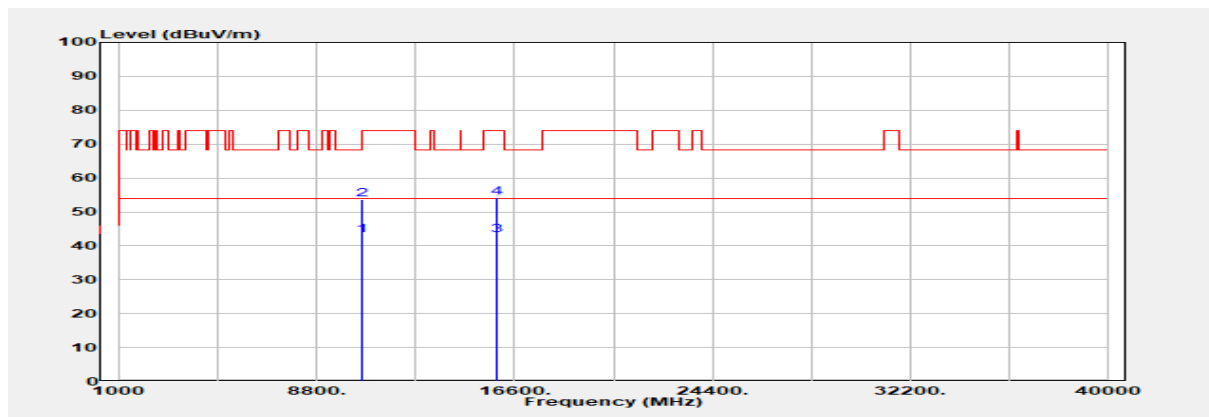
Temp./Humi. :21.3 °C/53%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam Huang



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
10600.000	Average	29.41	13.63	43.04	54.00	-10.96
10600.000	Peak	40.14	13.63	53.77	74.00	-20.23
15900.000	Average	29.80	13.36	43.16	54.00	-10.84
15900.000	Peak	40.83	13.36	54.19	74.00	-19.81

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Report Number :TERF2401000172E2

Test Site :SAC D

Operation Mode :802.11a

Test Date :2024-02-15

Test Frequency :5300 MHz

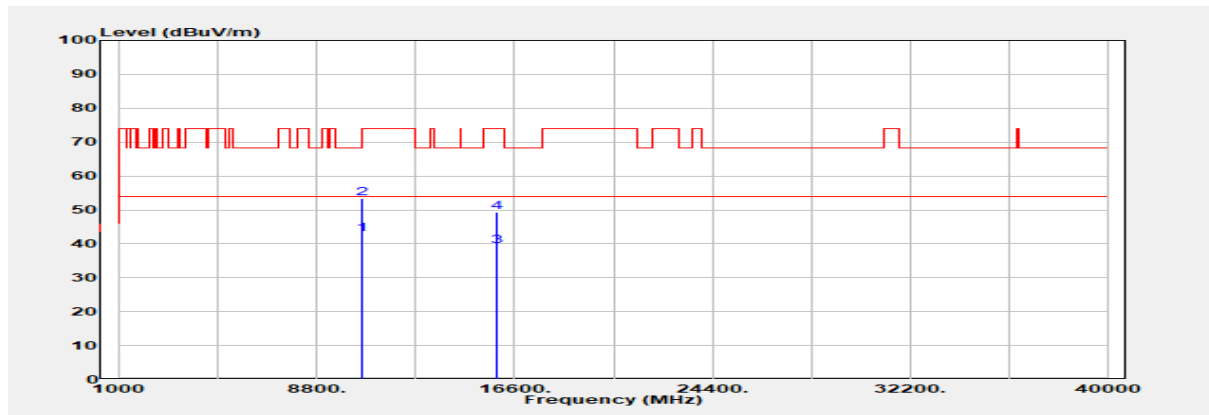
Temp./Humi. :21.3 °C/53%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10600.000	Average	29.10	13.63	42.73	54.00	-11.27
10600.000	Peak	39.89	13.63	53.52	74.00	-20.48
15900.000	Average	25.83	13.36	39.19	54.00	-14.81
15900.000	Peak	36.07	13.36	49.43	74.00	-24.57

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Report Number :TERF2401000172E2

Test Site :SAC D

Operation Mode :802.11a

Test Date :2024-02-15

Test Frequency :5320 MHz

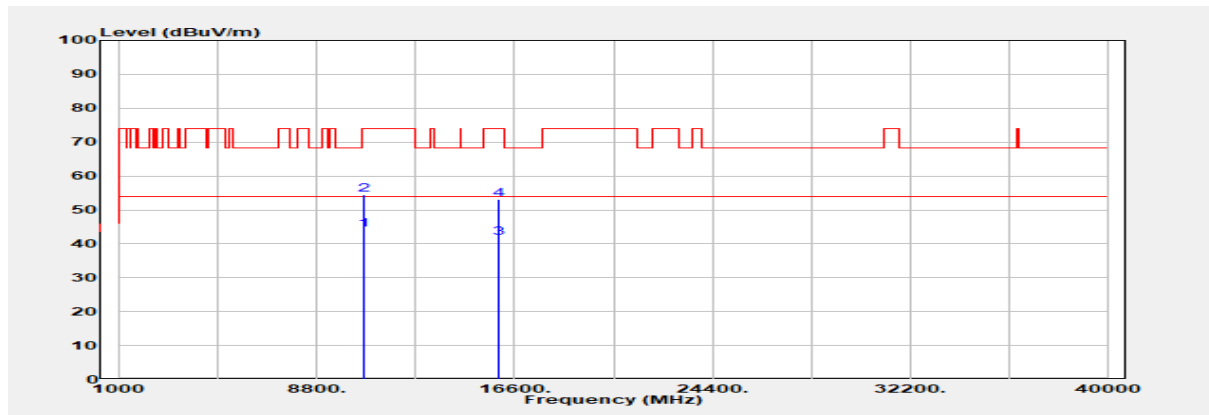
Temp./Humi. :21.3 °C/53%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam Huang



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
10640.000	Average	30.15	14.09	44.23	54.00	-9.77
10640.000	Peak	40.27	14.09	54.36	74.00	-19.64
15960.000	Average	27.53	14.23	41.76	54.00	-12.24
15960.000	Peak	38.94	14.23	53.17	74.00	-20.83

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Report Number :TERF2401000172E2

Test Site :SAC D

Operation Mode :802.11a

Test Date :2024-02-15

Test Frequency :5320 MHz

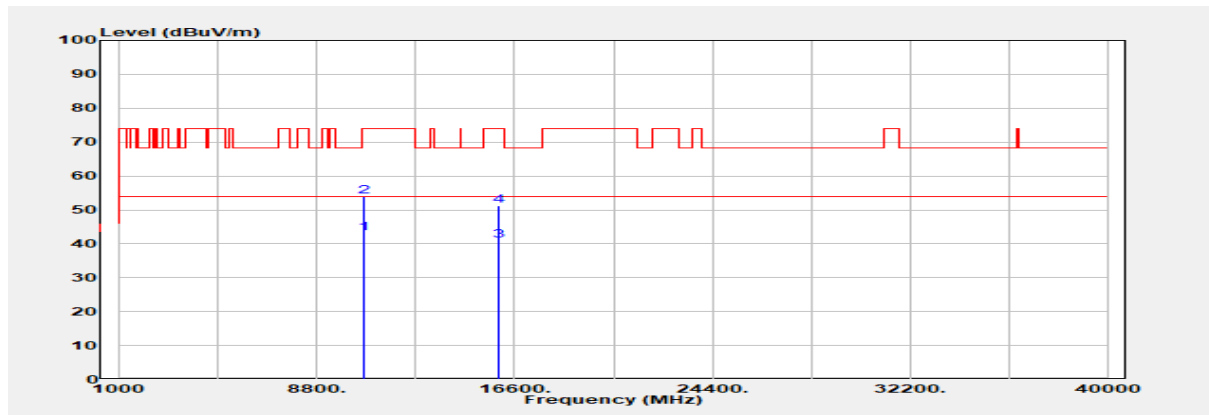
Temp./Humi. :21.3 °C/53%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



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
10640.000	Average	28.91	14.09	43.00	54.00	-11.00
10640.000	Peak	39.87	14.09	53.96	74.00	-20.04
15960.000	Average	26.59	14.23	40.82	54.00	-13.18
15960.000	Peak	37.10	14.23	51.33	74.00	-22.67

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Report Number :TERF2401000172E2

Test Site :SAC D

Operation Mode :802.11a

Test Date :2024-02-15

Test Frequency :5500 MHz

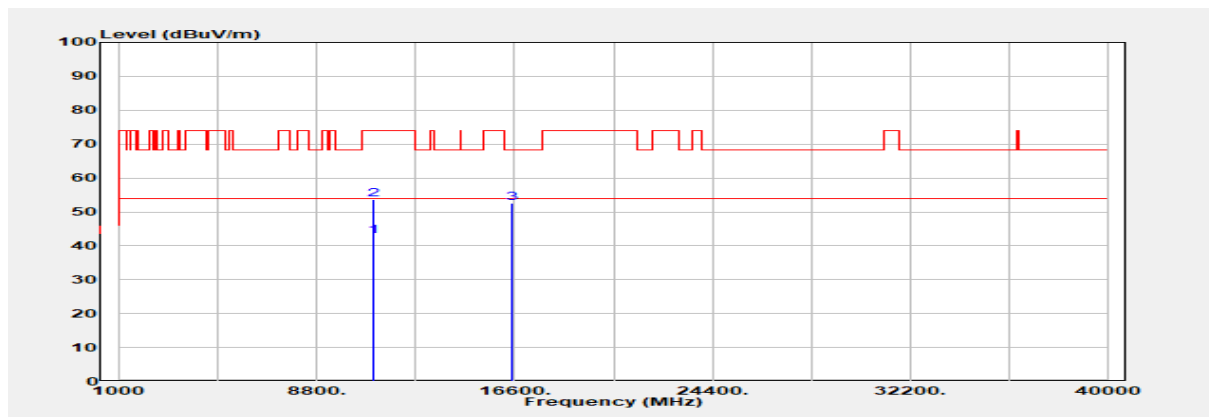
Temp./Humi. :21.3 °C/53%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam Huang



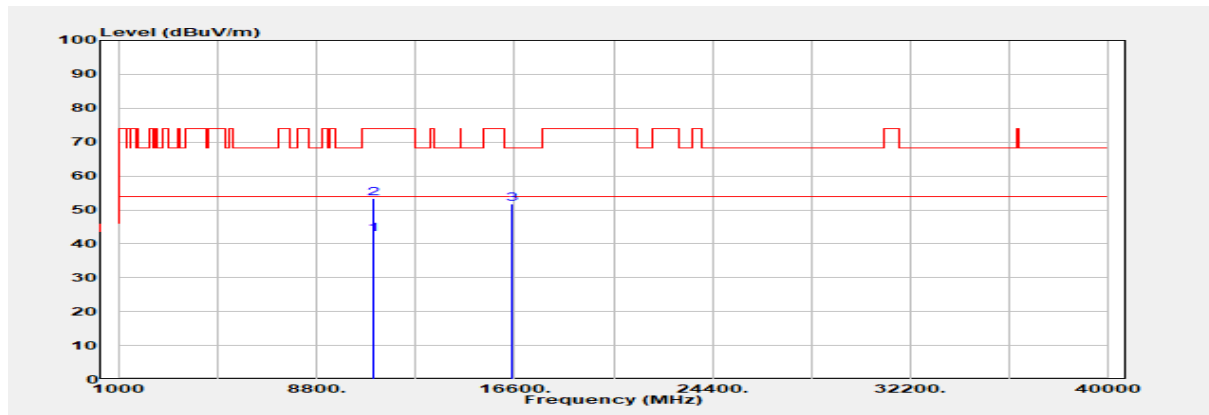
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11000.000	Average	27.31	15.51	42.82	54.00	-11.18
11000.000	Peak	38.11	15.51	53.62	74.00	-20.38
16500.000	Peak	36.49	16.05	52.54	68.20	-15.66

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Report Number :TERF2401000172E2
 Operation Mode :802.11a
 Test Frequency :5500 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2024-02-15
 Temp./Humi. :21.3 °C/53%
 Antenna Pol. :Horizontal
 Engineer :Sam Huang



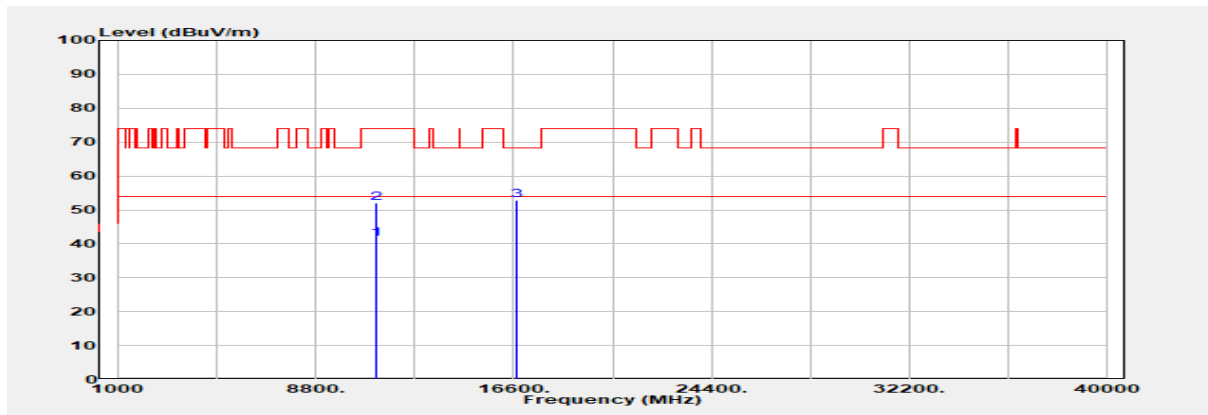
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11000.000	Average	27.35	15.51	42.86	54.00	-11.14
11000.000	Peak	37.98	15.51	53.49	74.00	-20.51
16500.000	Peak	35.72	16.05	51.77	68.20	-16.43

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Report Number :TERF2401000172E2
 Operation Mode :802.11a
 Test Frequency :5580 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2024-02-15
 Temp./Humi. :21.3 °C/53%
 Antenna Pol. :Vertical
 Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11160.000	Average	27.41	13.93	41.34	54.00	-12.66
11160.000	Peak	38.18	13.93	52.10	74.00	-21.90
16740.000	Peak	36.11	16.61	52.73	68.20	-15.47

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Report Number :TERF2401000172E2

Test Site :SAC D

Operation Mode :802.11a

Test Date :2024-02-15

Test Frequency :5580 MHz

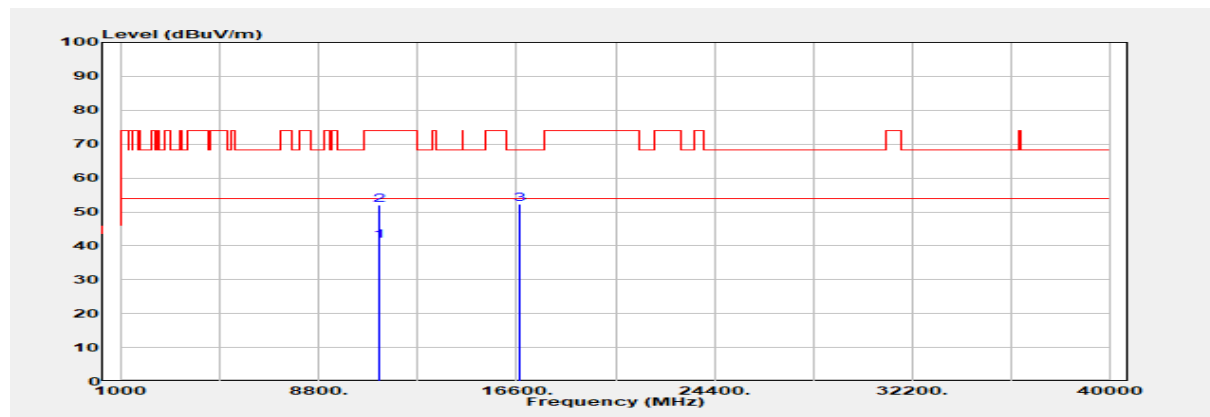
Temp./Humi. :21.3 °C/53%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



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
11160.000	Average	27.59	13.93	41.52	54.00	-12.48
11160.000	Peak	38.17	13.93	52.10	74.00	-21.90
16740.000	Peak	35.72	16.61	52.33	68.20	-15.87

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Report Number :TERF2401000172E2

Test Site :SAC D

Operation Mode :802.11a

Test Date :2024-02-15

Test Frequency :5700 MHz

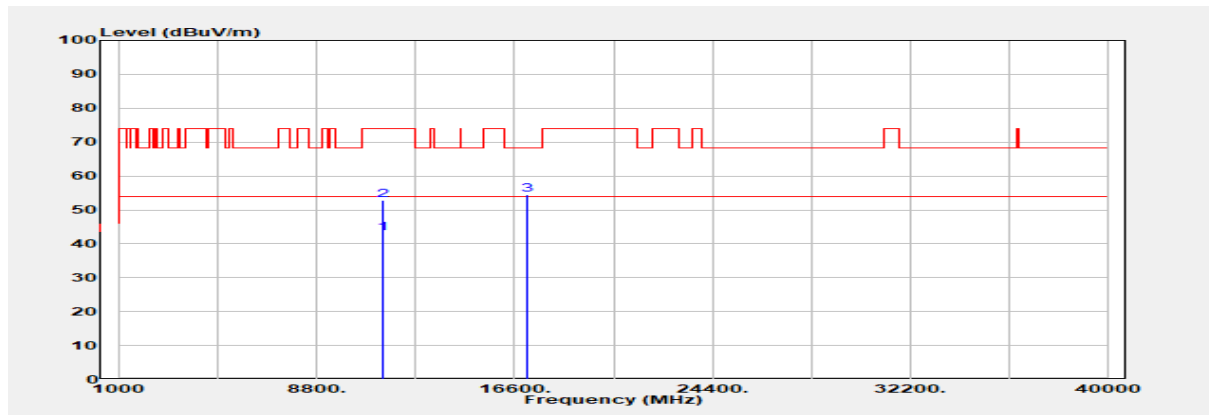
Temp./Humi. :21.3 °C/53%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam Huang



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
11400.000	Average	27.64	15.36	43.00	54.00	-11.00
11400.000	Peak	37.37	15.36	52.73	74.00	-21.27
17100.000	Peak	37.03	17.38	54.41	68.20	-13.79

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Report Number :TERF2401000172E2

Test Site :SAC D

Operation Mode :802.11a

Test Date :2024-02-15

Test Frequency :5700 MHz

Temp./Humi. :21.3 °C/53%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



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
11400.000	Average	27.15	15.36	42.51	54.00	-11.49
11400.000	Peak	37.65	15.36	53.01	74.00	-20.99
17100.000	Peak	36.33	17.38	53.71	68.20	-14.49

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Report Number :TERF2401000172E2

Test Site :SAC D

Operation Mode :802.11a

Test Date :2024-02-15

Test Frequency :5720 MHz

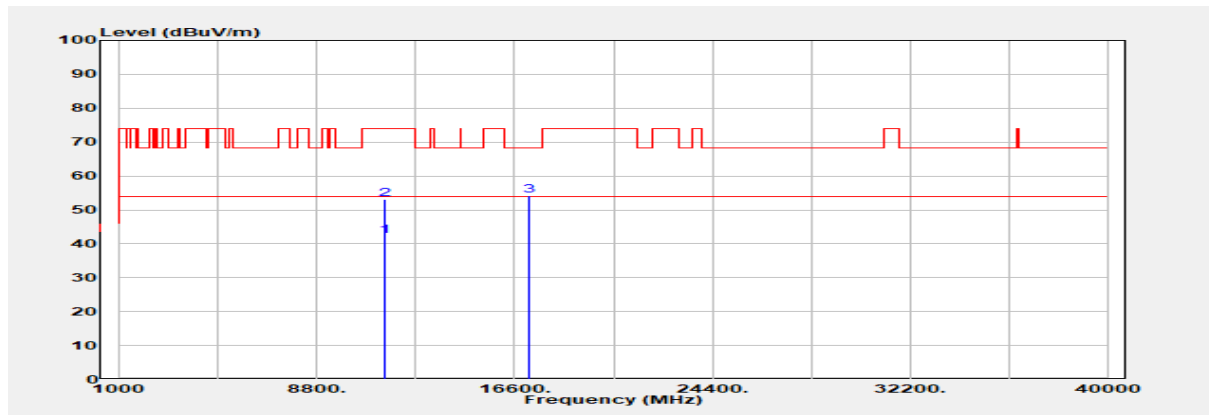
Temp./Humi. :21.3 °C/53%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam Huang



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
11440.000	Average	27.83	14.40	42.24	54.00	-11.76
11440.000	Peak	38.75	14.40	53.15	74.00	-20.85
17160.000	Peak	36.45	17.82	54.27	68.20	-13.93

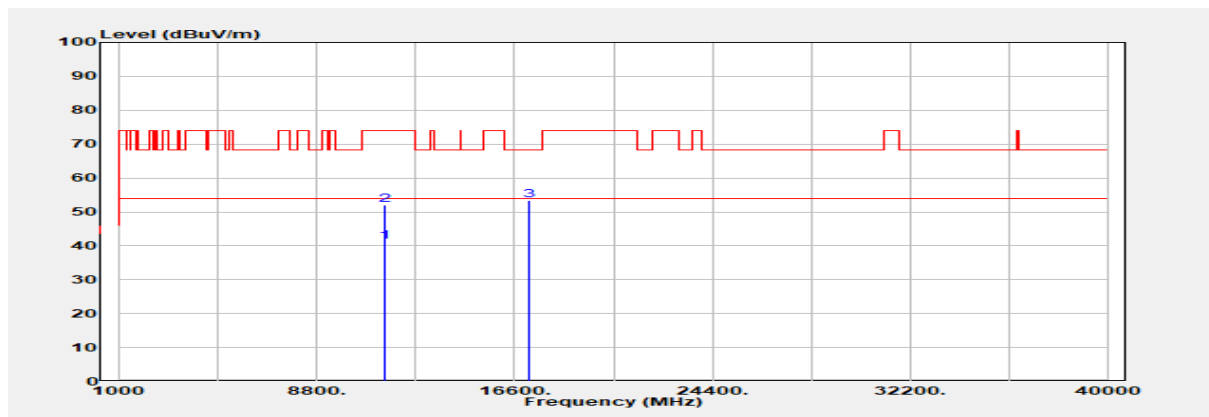
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Report Number :TERF2401000172E2
 Operation Mode :802.11a
 Test Frequency :5720 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2024-02-15
 Temp./Humi. :21.3 °C/53%
 Antenna Pol. :Horizontal
 Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11440.000	Average	26.84	14.40	41.25	54.00	-12.75
11440.000	Peak	37.67	14.40	52.07	74.00	-21.93
17160.000	Peak	35.59	17.82	53.40	68.20	-14.80

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Report Number :TERF2401000172E2

Test Site :SAC D

Operation Mode :802.11n20

Test Date :2024-02-15

Test Frequency :5180 MHz

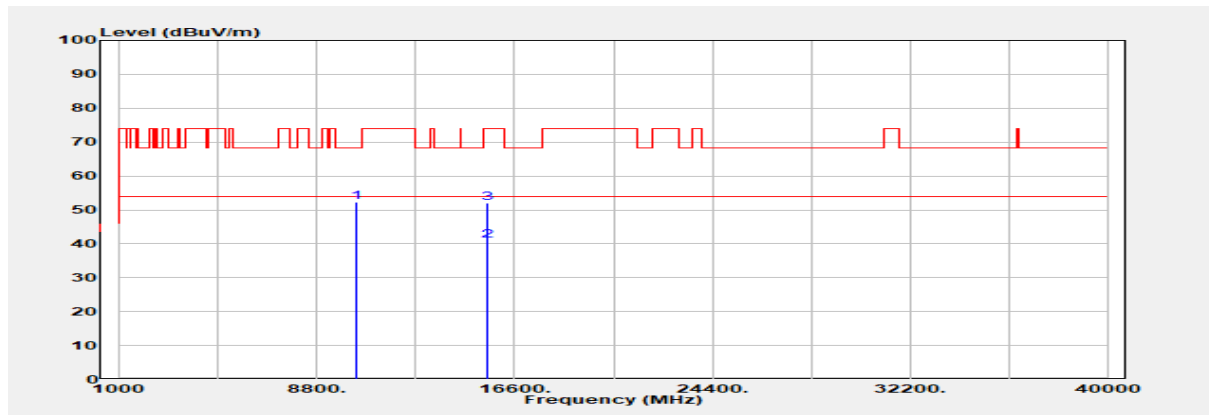
Temp./Humi. :21.3 °C/53%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam Huang



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	39.40	12.89	52.28	68.20	-15.92
15540.000	Average	26.65	14.32	40.97	54.00	-13.03
15540.000	Peak	37.63	14.32	51.95	74.00	-22.05

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Report Number :TERF2401000172E2

Test Site :SAC D

Operation Mode :802.11n20

Test Date :2024-02-15

Test Frequency :5180 MHz

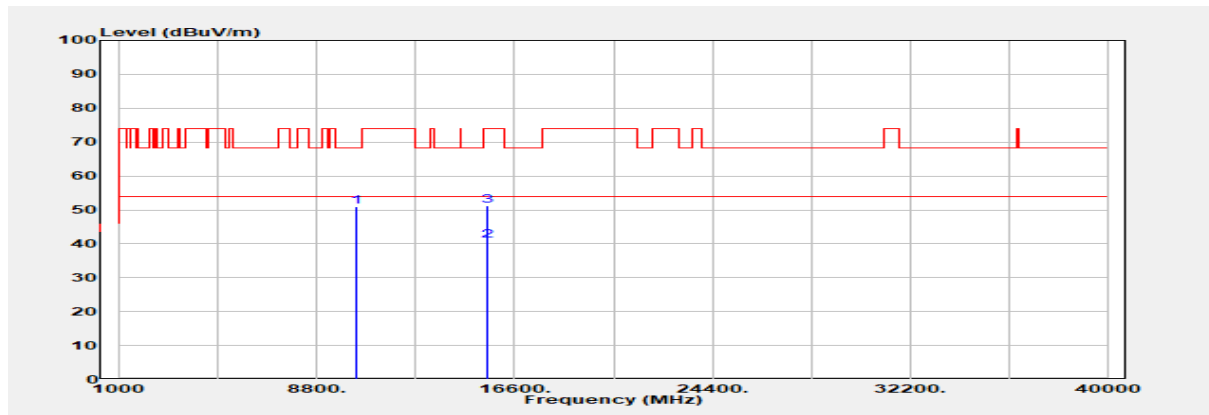
Temp./Humi. :21.3 °C/53%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



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	37.99	12.89	50.87	68.20	-17.33
15540.000	Average	26.51	14.32	40.83	54.00	-13.17
15540.000	Peak	37.02	14.32	51.34	74.00	-22.66

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Report Number :TERF2401000172E2

Test Site :SAC D

Operation Mode :802.11n20

Test Date :2024-02-15

Test Frequency :5220 MHz

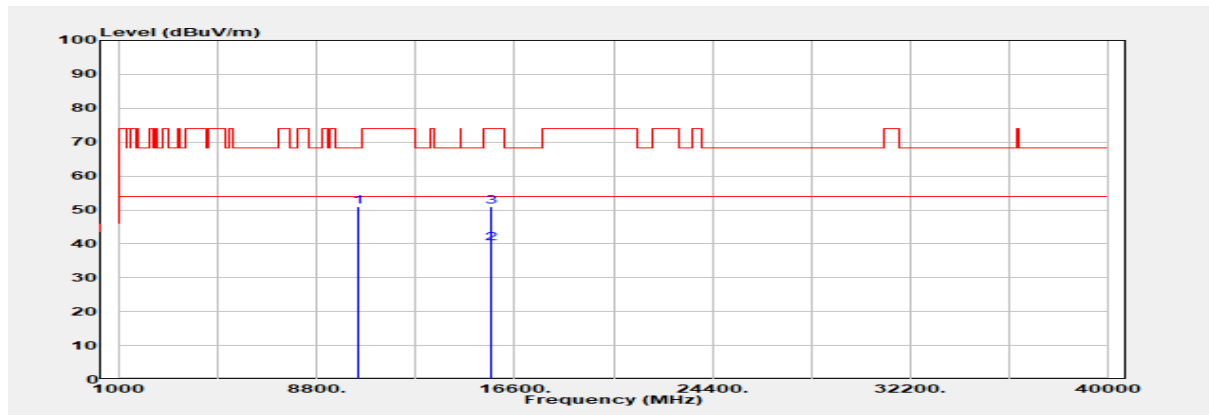
Temp./Humi. :21.3 °C/53%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam Huang



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	38.01	12.94	50.95	68.20	-17.25
15660.000	Average	26.79	13.44	40.23	54.00	-13.77
15660.000	Peak	37.60	13.44	51.04	74.00	-22.96

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Report Number :TERF2401000172E2

Test Site :SAC D

Operation Mode :802.11n20

Test Date :2024-02-15

Test Frequency :5220 MHz

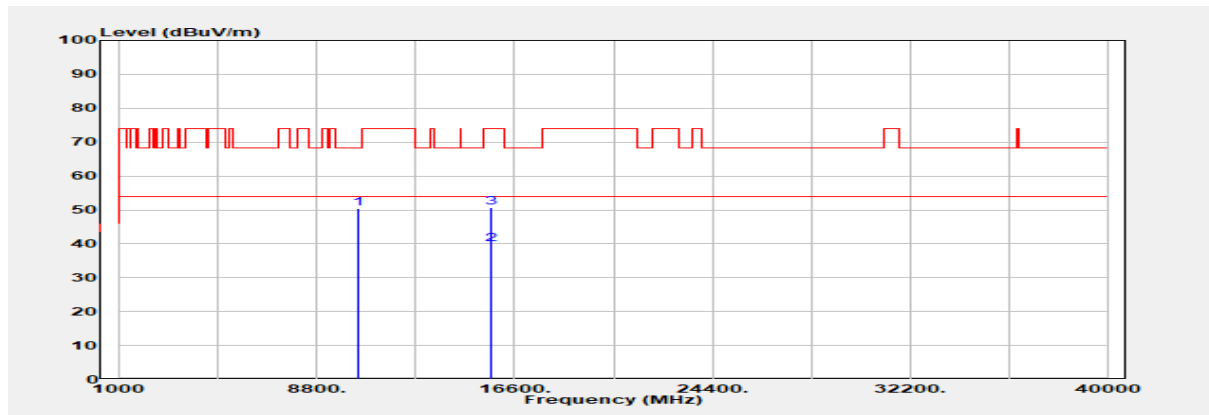
Temp./Humi. :21.3 °C/53%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



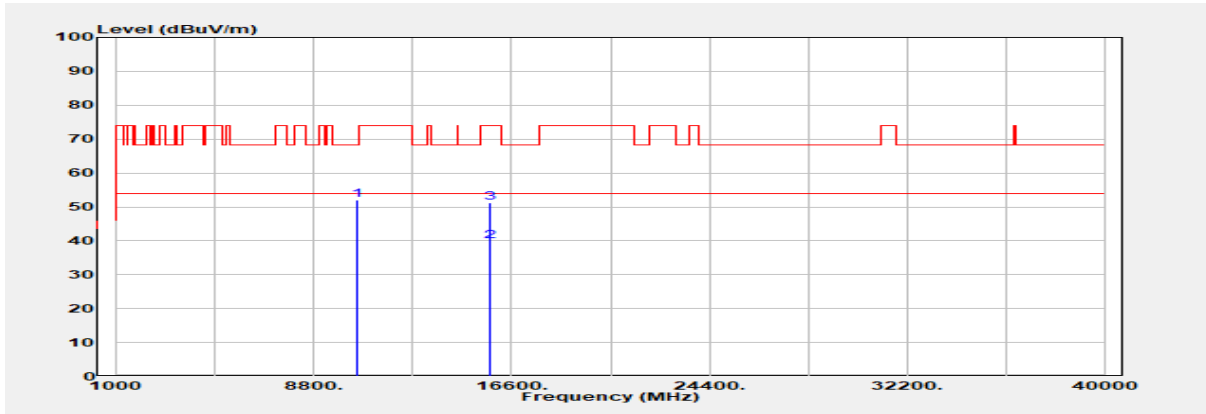
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10440.000	Peak	37.48	12.94	50.42	68.20	-17.78
15660.000	Average	26.49	13.44	39.93	54.00	-14.07
15660.000	Peak	37.19	13.44	50.63	74.00	-23.37

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Report Number :TERF2401000172E2
 Operation Mode :802.11n20
 Test Frequency :5240 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2024-02-15
 Temp./Humi. :21.3 °C/53%
 Antenna Pol. :Vertical
 Engineer :Sam Huang



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	38.80	13.15	51.95	68.20	-16.25
15720.000	Average	26.50	13.38	39.87	54.00	-14.13
15720.000	Peak	37.73	13.38	51.11	74.00	-22.89

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Report Number :TERF2401000172E2

Test Site :SAC D

Operation Mode :802.11n20

Test Date :2024-02-15

Test Frequency :5240 MHz

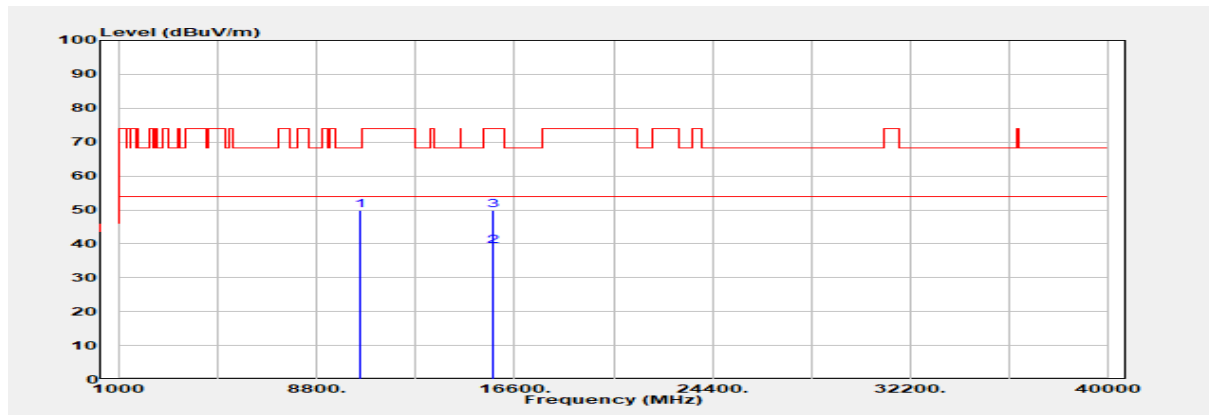
Temp./Humi. :21.3 °C/53%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



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	36.82	13.15	49.98	68.20	-18.22
15720.000	Average	25.93	13.38	39.31	54.00	-14.69
15720.000	Peak	36.54	13.38	49.92	74.00	-24.08

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Report Number :TERF2401000172E2

Test Site :SAC D

Operation Mode :802.11n20

Test Date :2024-02-15

Test Frequency :5260 MHz

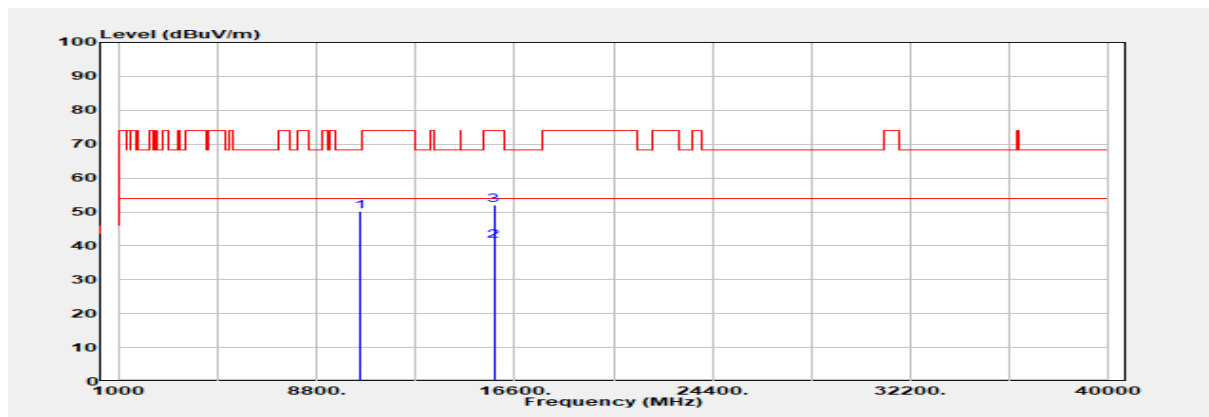
Temp./Humi. :21.3 °C/53%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam Huang



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
10520.000	Peak	36.89	13.29	50.18	68.20	-18.02
15780.000	Average	27.33	14.00	41.33	54.00	-12.67
15780.000	Peak	38.02	14.00	52.02	74.00	-21.98

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Report Number :TERF2401000172E2

Test Site :SAC D

Operation Mode :802.11n20

Test Date :2024-02-15

Test Frequency :5260 MHz

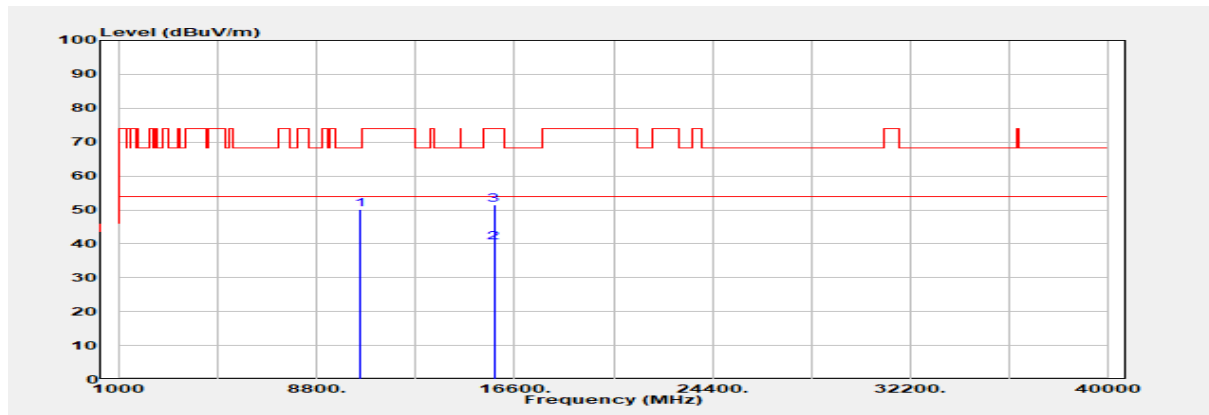
Temp./Humi. :21.3 °C/53%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



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
10520.000	Peak	36.89	13.29	50.18	68.20	-18.02
15780.000	Average	26.34	14.00	40.34	54.00	-13.66
15780.000	Peak	37.41	14.00	51.41	74.00	-22.59

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Report Number :TERF2401000172E2

Test Site :SAC D

Operation Mode :802.11n20

Test Date :2024-02-15

Test Frequency :5300 MHz

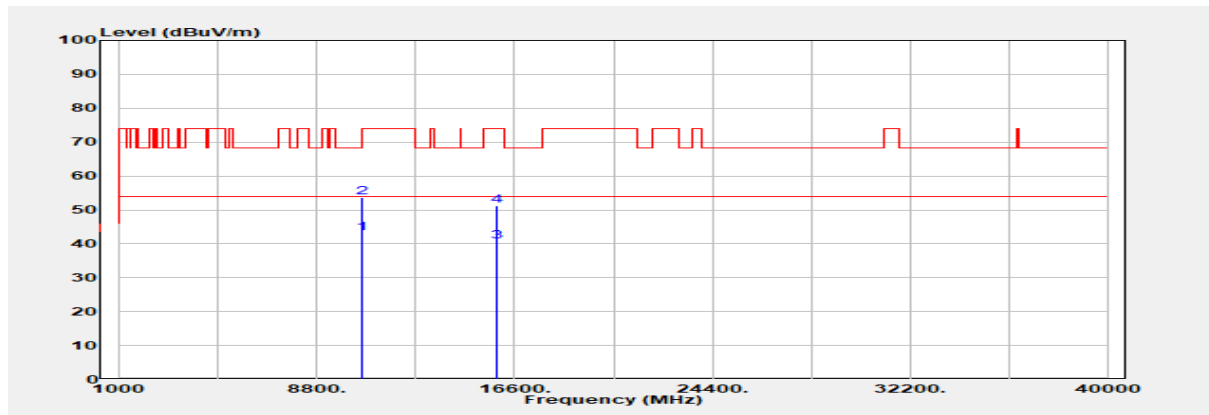
Temp./Humi. :21.3 °C/53%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam Huang



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
10600.000	Average	29.55	13.63	43.18	54.00	-10.82
10600.000	Peak	39.89	13.63	53.52	74.00	-20.48
15900.000	Average	27.18	13.36	40.54	54.00	-13.46
15900.000	Peak	37.93	13.36	51.29	74.00	-22.71

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Report Number :TERF2401000172E2

Test Site :SAC D

Operation Mode :802.11n20

Test Date :2024-02-15

Test Frequency :5300 MHz

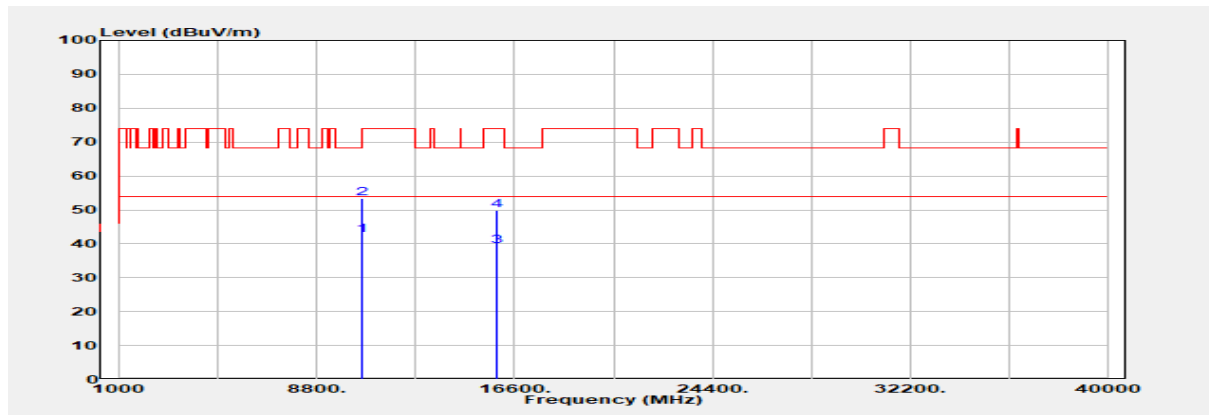
Temp./Humi. :21.3 °C/53%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10600.000	Average	28.92	13.63	42.55	54.00	-11.45
10600.000	Peak	39.70	13.63	53.33	74.00	-20.67
15900.000	Average	25.88	13.36	39.24	54.00	-14.76
15900.000	Peak	36.43	13.36	49.79	74.00	-24.21

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Report Number :TERF2401000172E2

Test Site :SAC D

Operation Mode :802.11n20

Test Date :2024-02-15

Test Frequency :5320 MHz

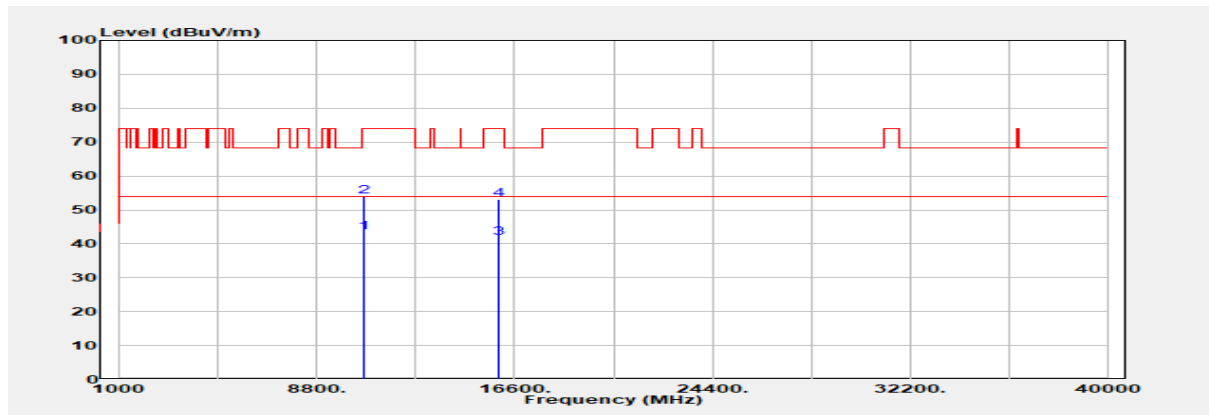
Temp./Humi. :21.3 °C/53%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam Huang



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
10640.000	Average	29.27	14.09	43.36	54.00	-10.64
10640.000	Peak	39.78	14.09	53.87	74.00	-20.13
15960.000	Average	27.54	14.23	41.77	54.00	-12.23
15960.000	Peak	38.96	14.23	53.19	74.00	-20.81

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Report Number :TERF2401000172E2

Test Site :SAC D

Operation Mode :802.11n20

Test Date :2024-02-15

Test Frequency :5320 MHz

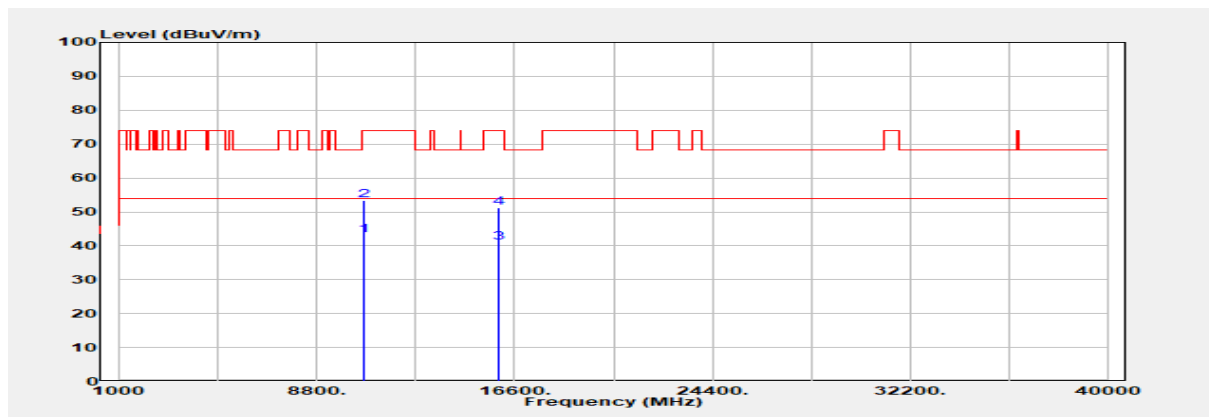
Temp./Humi. :21.3 °C/53%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



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
10640.000	Average	28.97	14.09	43.06	54.00	-10.94
10640.000	Peak	39.32	14.09	53.40	74.00	-20.60
15960.000	Average	26.64	14.23	40.87	54.00	-13.13
15960.000	Peak	37.03	14.23	51.26	74.00	-22.74

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Report Number :TERF2401000172E2

Test Site :SAC D

Operation Mode :802.11n20

Test Date :2024-02-15

Test Frequency :5500 MHz

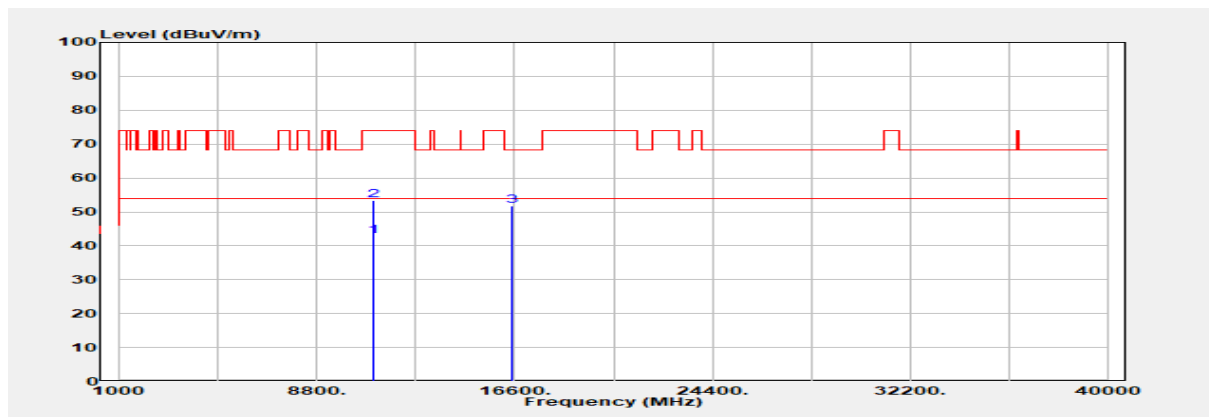
Temp./Humi. :21.3 °C/53%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam Huang



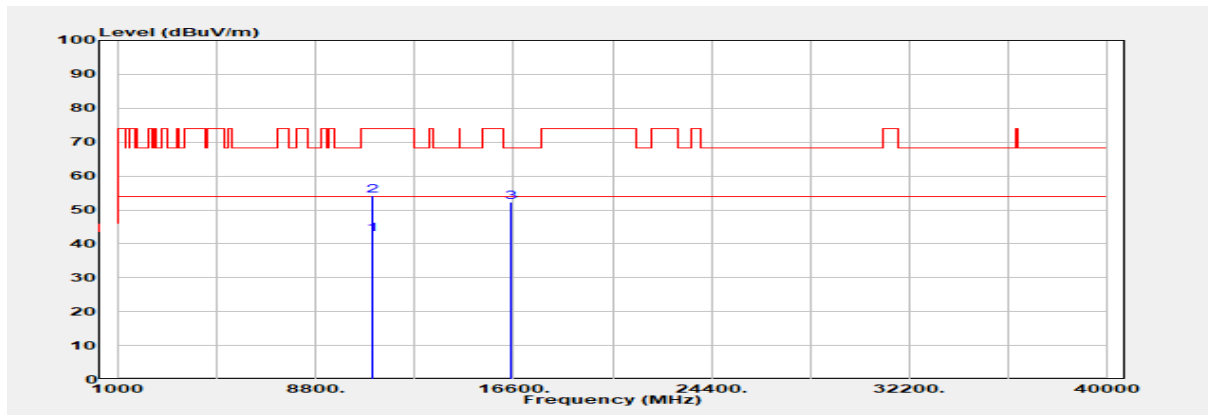
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11000.000	Average	27.38	15.51	42.89	54.00	-11.11
11000.000	Peak	37.86	15.51	53.37	74.00	-20.63
16500.000	Peak	35.72	16.05	51.77	68.20	-16.43

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Report Number :TERF2401000172E2
 Operation Mode :802.11n20
 Test Frequency :5500 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2024-02-15
 Temp./Humi. :21.3 °C/53%
 Antenna Pol. :Horizontal
 Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11000.000	Average	27.37	15.51	42.88	54.00	-11.12
11000.000	Peak	38.57	15.51	54.08	74.00	-19.92
16500.000	Peak	36.37	16.05	52.42	68.20	-15.78

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Report Number :TERF2401000172E2

Test Site :SAC D

Operation Mode :802.11n20

Test Date :2024-02-15

Test Frequency :5580 MHz

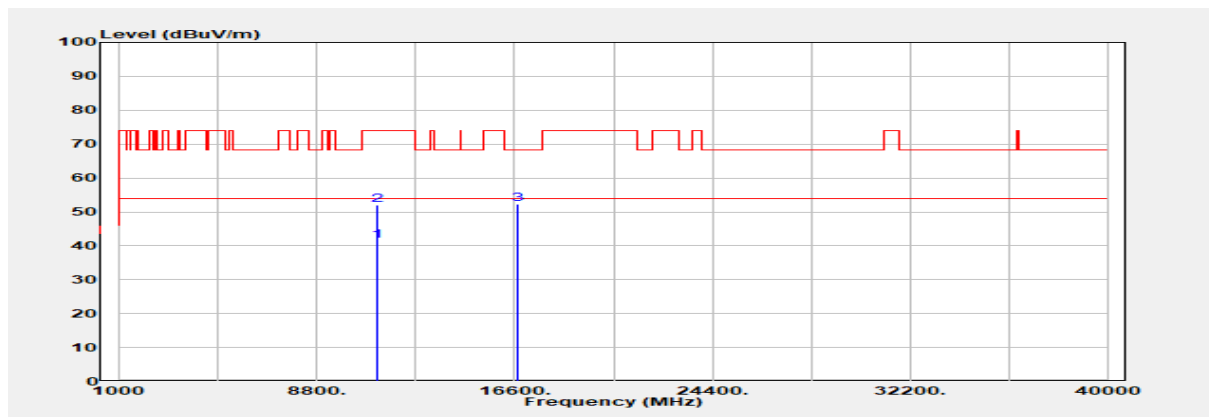
Temp./Humi. :21.3 °C/53%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam Huang



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
11160.000	Average	27.50	13.93	41.43	54.00	-12.57
11160.000	Peak	37.98	13.93	51.91	74.00	-22.09
16740.000	Peak	35.67	16.61	52.28	68.20	-15.92

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Report Number :TERF2401000172E2

Test Site :SAC D

Operation Mode :802.11n20

Test Date :2024-02-15

Test Frequency :5580 MHz

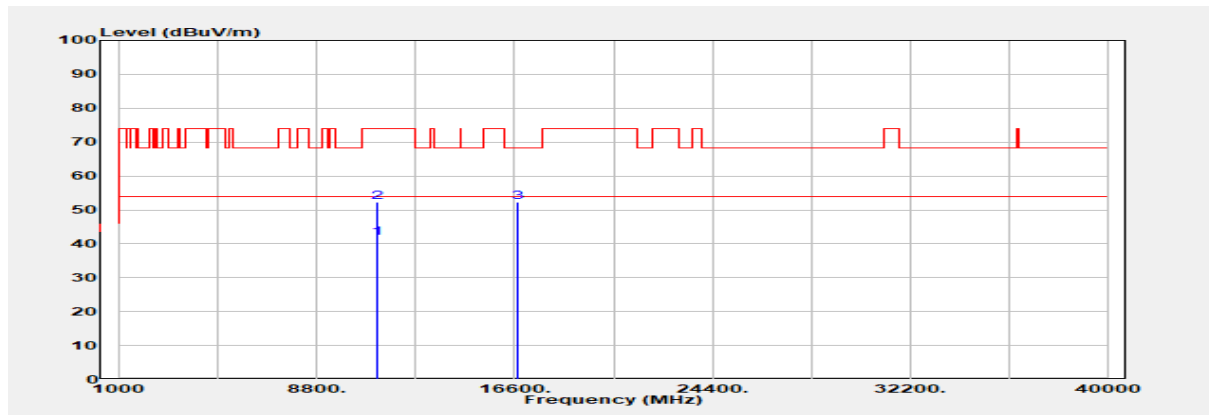
Temp./Humi. :21.3 °C/53%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



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
11160.000	Average	27.77	13.93	41.70	54.00	-12.30
11160.000	Peak	38.35	13.93	52.28	74.00	-21.72
16740.000	Peak	35.67	16.61	52.28	68.20	-15.92

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Report Number :TERF2401000172E2

Test Site :SAC D

Operation Mode :802.11n20

Test Date :2024-02-15

Test Frequency :5700 MHz

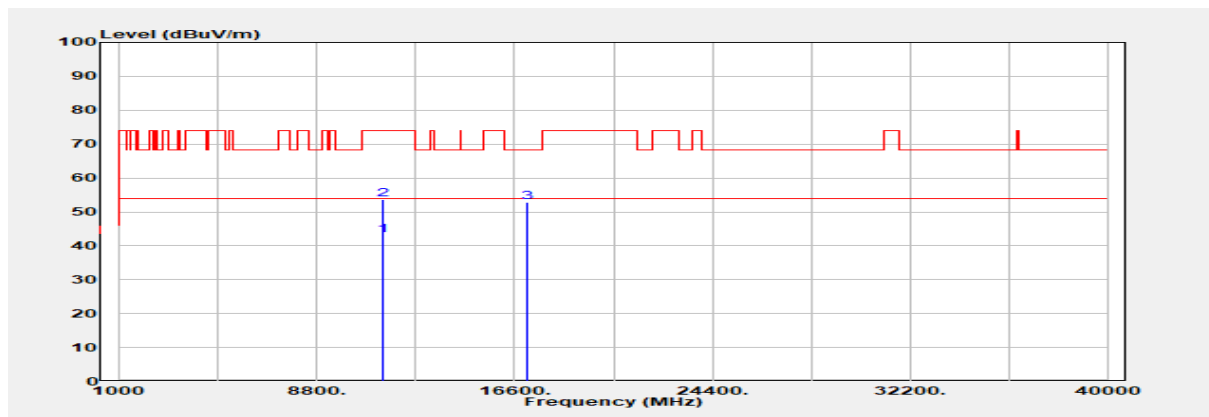
Temp./Humi. :21.3 °C/53%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam Huang



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
11400.000	Average	27.64	15.36	43.00	54.00	-11.00
11400.000	Peak	38.26	15.36	53.62	74.00	-20.38
17100.000	Peak	35.49	17.38	52.87	68.20	-15.33

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Report Number :TERF2401000172E2

Test Site :SAC D

Operation Mode :802.11n20

Test Date :2024-02-15

Test Frequency :5700 MHz

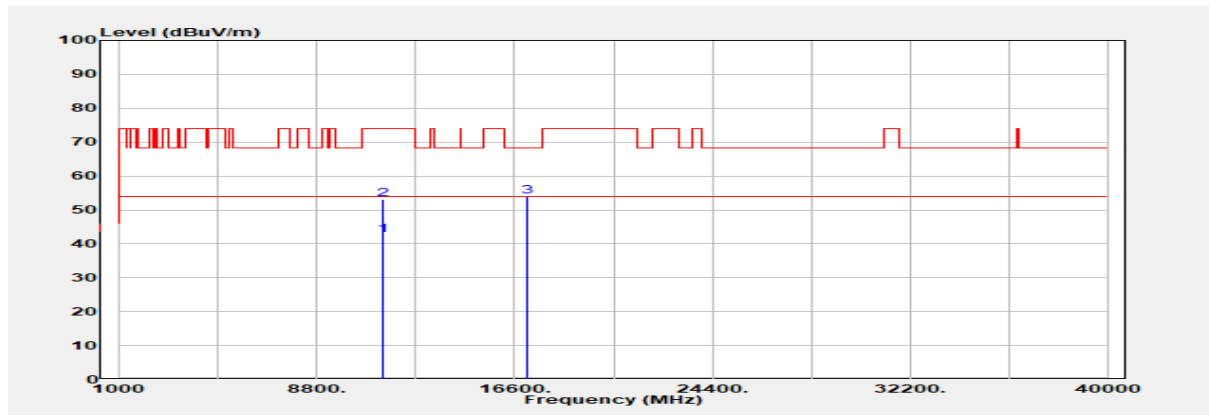
Temp./Humi. :21.3 °C/53%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



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
11400.000	Average	27.30	15.36	42.66	54.00	-11.34
11400.000	Peak	37.75	15.36	53.11	74.00	-20.89
17100.000	Peak	36.56	17.38	53.94	68.20	-14.26

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Report Number :TERF2401000172E2

Test Site :SAC D

Operation Mode :802.11n20

Test Date :2024-02-15

Test Frequency :5720 MHz

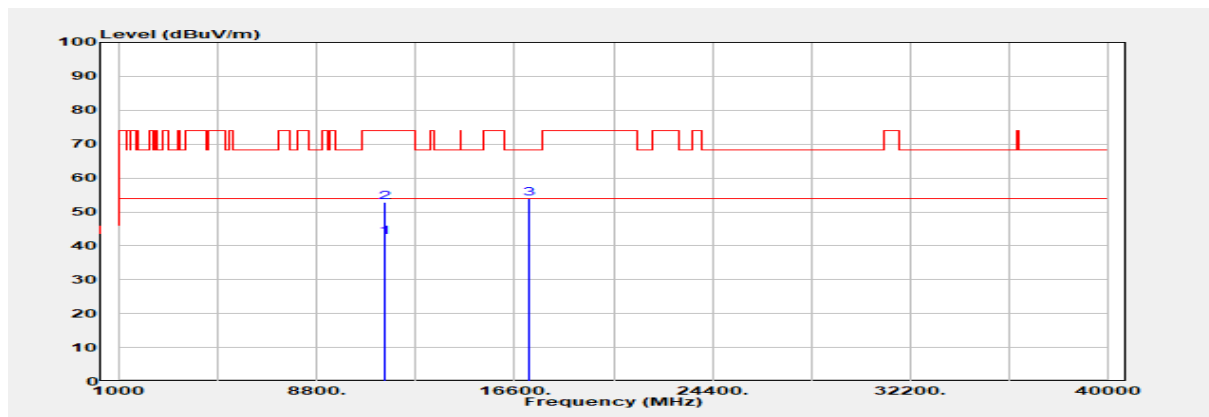
Temp./Humi. :21.3 °C/53%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam Huang



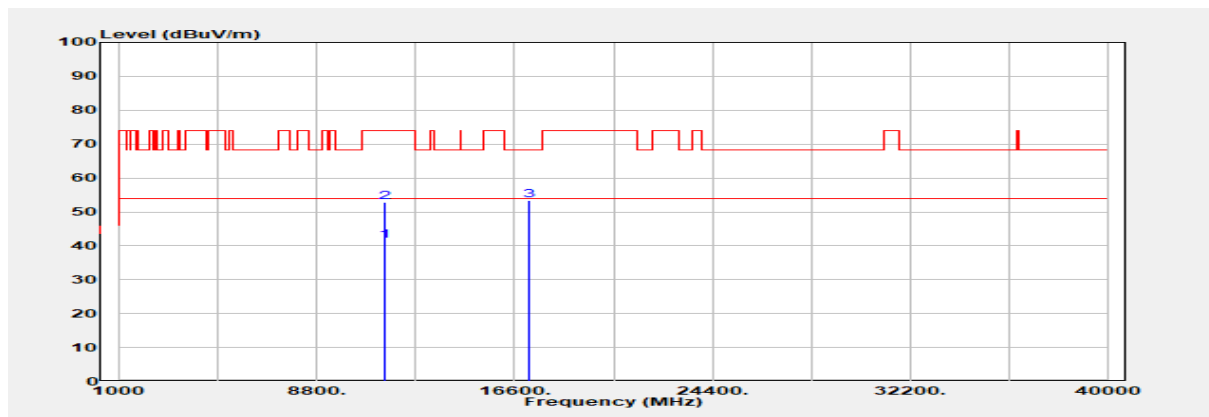
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11440.000	Average	28.02	14.40	42.42	54.00	-11.58
11440.000	Peak	38.42	14.40	52.82	74.00	-21.18
17160.000	Peak	36.13	17.82	53.94	68.20	-14.26

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Report Number :TERF2401000172E2
 Operation Mode :802.11n20
 Test Frequency :5720 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2024-02-15
 Temp./Humi. :21.3 °C/53%
 Antenna Pol. :Horizontal
 Engineer :Sam Huang



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
11440.000	Average	27.06	14.40	41.46	54.00	-12.54
11440.000	Peak	38.43	14.40	52.83	74.00	-21.17
17160.000	Peak	35.60	17.82	53.41	68.20	-14.79

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Report Number :TERF2401000172E2

Test Site :SAC D

Operation Mode :802.11n40

Test Date :2024-02-15

Test Frequency :5190 MHz

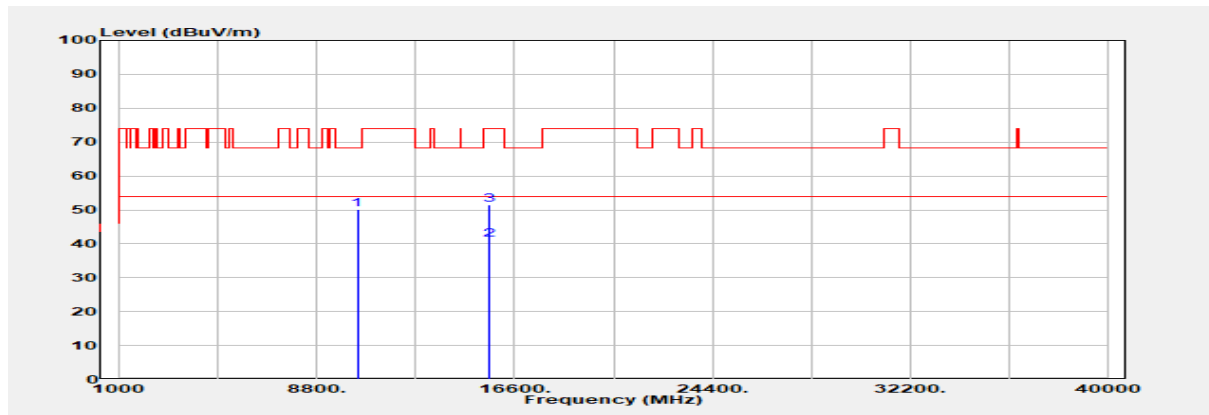
Temp./Humi. :21.3 °C/53%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam Huang



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	37.35	12.80	50.15	68.20	-18.05
15570.000	Average	27.04	14.16	41.19	54.00	-12.81
15570.000	Peak	37.34	14.16	51.50	74.00	-22.50

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Report Number :TERF2401000172E2

Test Site :SAC D

Operation Mode :802.11n40

Test Date :2024-02-15

Test Frequency :5190 MHz

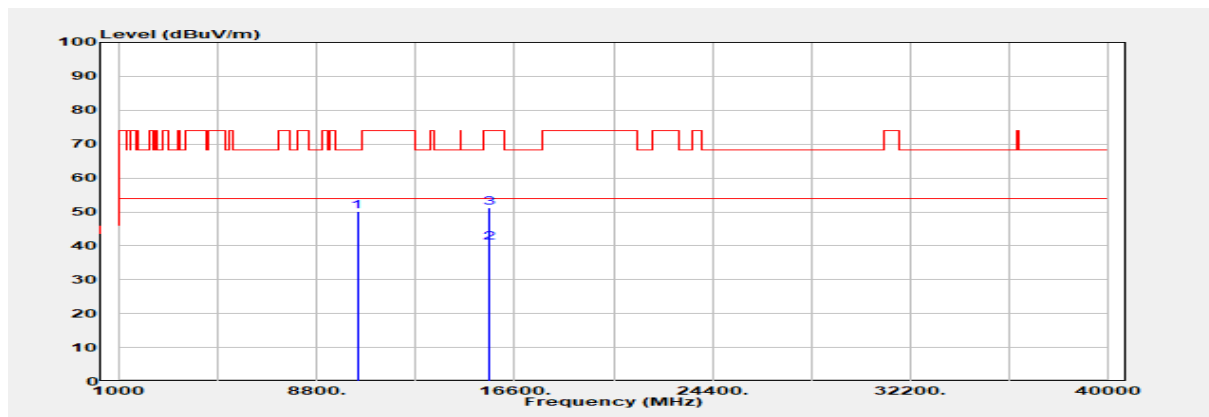
Temp./Humi. :21.3 °C/53%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



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	37.43	12.80	50.23	68.20	-17.97
15570.000	Average	26.85	14.16	41.01	54.00	-12.99
15570.000	Peak	37.11	14.16	51.27	74.00	-22.73

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Report Number :TERF2401000172E2

Test Site :SAC D

Operation Mode :802.11n40

Test Date :2024-02-15

Test Frequency :5230 MHz

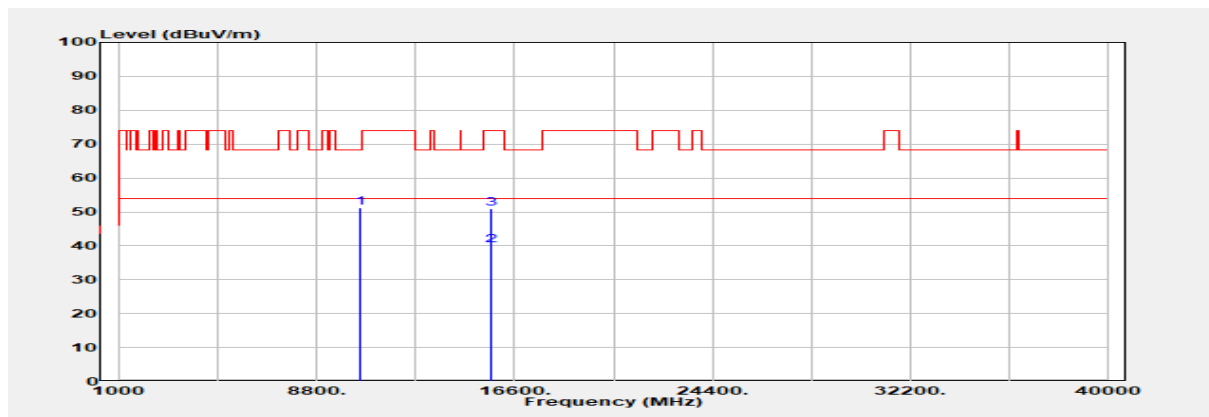
Temp./Humi. :21.3 °C/53%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam Huang



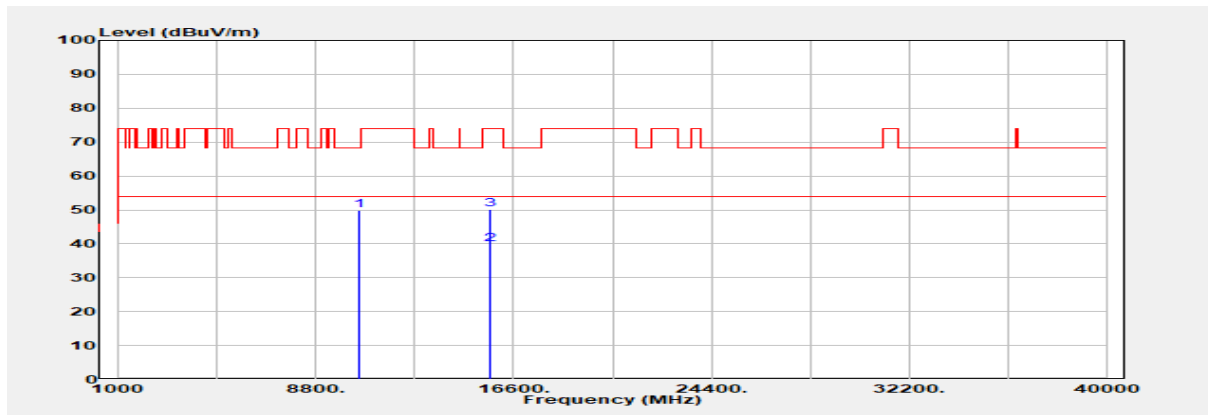
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10460.000	Peak	38.18	13.05	51.23	68.20	-16.97
15690.000	Average	26.64	13.42	40.06	54.00	-13.94
15690.000	Peak	37.53	13.42	50.94	74.00	-23.06

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Report Number :TERF2401000172E2
 Operation Mode :802.11n40
 Test Frequency :5230 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2024-02-15
 Temp./Humi. :21.3 °C/53%
 Antenna Pol. :Horizontal
 Engineer :Sam Huang



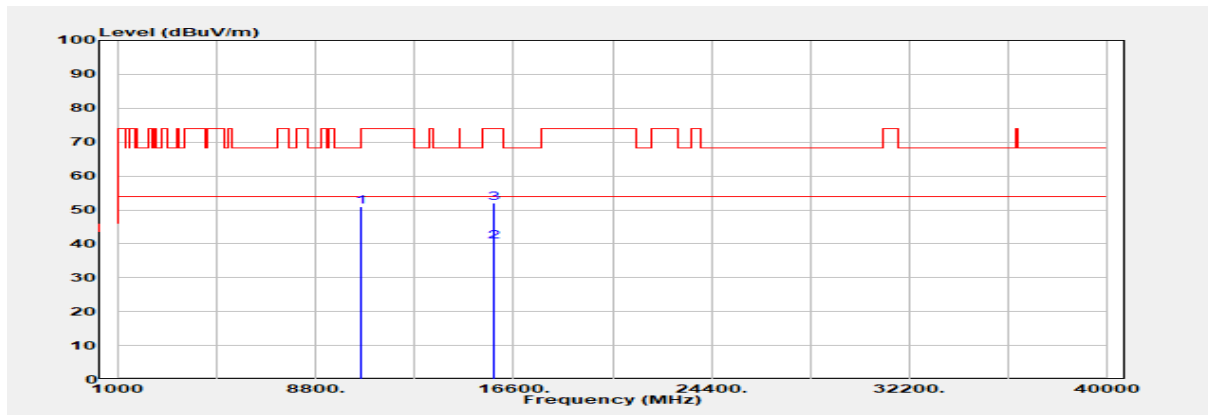
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10460.000	Peak	36.85	13.05	49.90	68.20	-18.30
15690.000	Average	26.36	13.42	39.77	54.00	-14.23
15690.000	Peak	36.85	13.42	50.26	74.00	-23.74

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Report Number :TERF2401000172E2
 Operation Mode :802.11n40
 Test Frequency :5270 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2024-02-15
 Temp./Humi. :21.3 °C/53%
 Antenna Pol. :Vertical
 Engineer :Sam Huang



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
10540.000	Peak	37.55	13.32	50.87	68.20	-17.33
15810.000	Average	26.32	14.24	40.56	54.00	-13.44
15810.000	Peak	37.85	14.24	52.09	74.00	-21.91

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Report Number :TERF2401000172E2

Test Site :SAC D

Operation Mode :802.11n40

Test Date :2024-02-15

Test Frequency :5270 MHz

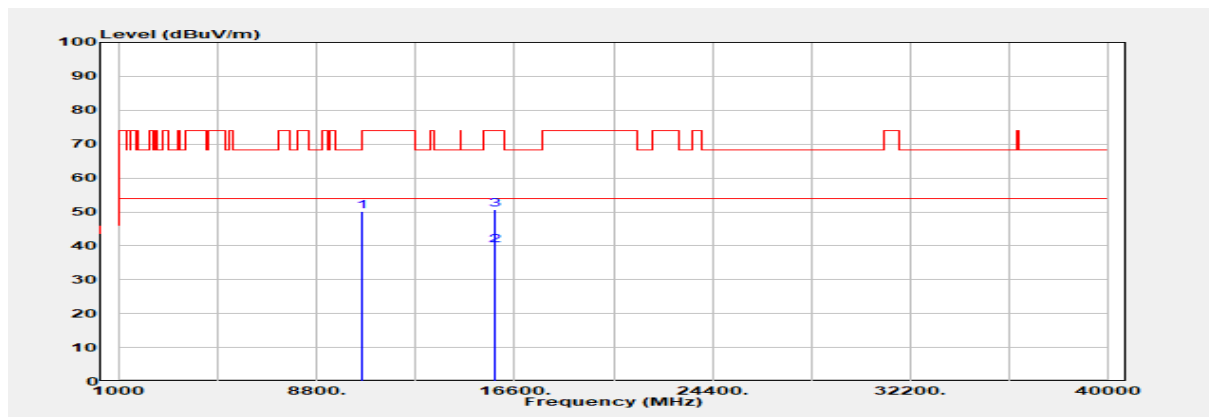
Temp./Humi. :21.3 °C/53%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



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
10540.000	Peak	36.77	13.32	50.09	68.20	-18.11
15810.000	Average	25.96	14.24	40.20	54.00	-13.80
15810.000	Peak	36.46	14.24	50.69	74.00	-23.31

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Report Number :TERF2401000172E2

Test Site :SAC D

Operation Mode :802.11n40

Test Date :2024-02-15

Test Frequency :5310 MHz

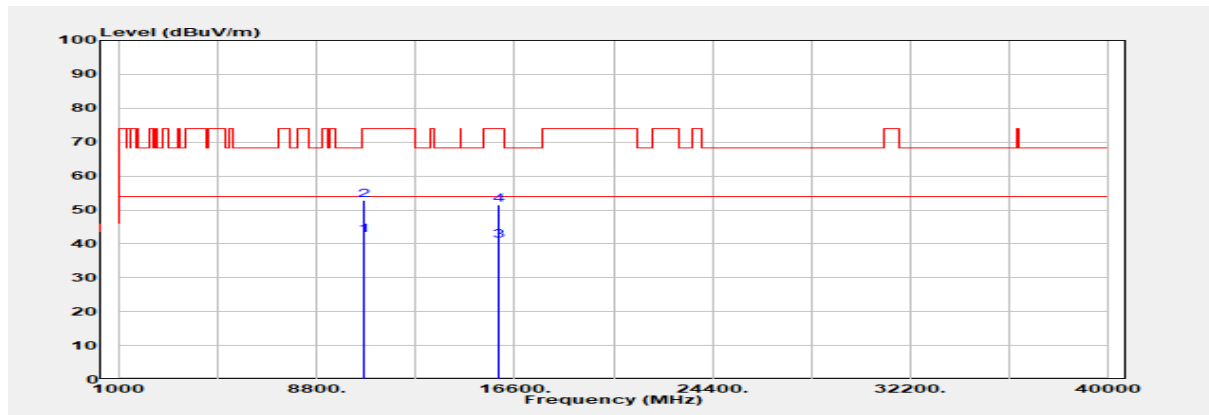
Temp./Humi. :21.3 °C/53%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam Huang



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
10620.000	Average	28.68	13.86	42.54	54.00	-11.46
10620.000	Peak	38.91	13.86	52.77	74.00	-21.23
15930.000	Average	26.97	13.82	40.79	54.00	-13.21
15930.000	Peak	37.74	13.82	51.56	74.00	-22.44

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Report Number :TERF2401000172E2

Test Site :SAC D

Operation Mode :802.11n40

Test Date :2024-02-15

Test Frequency :5310 MHz

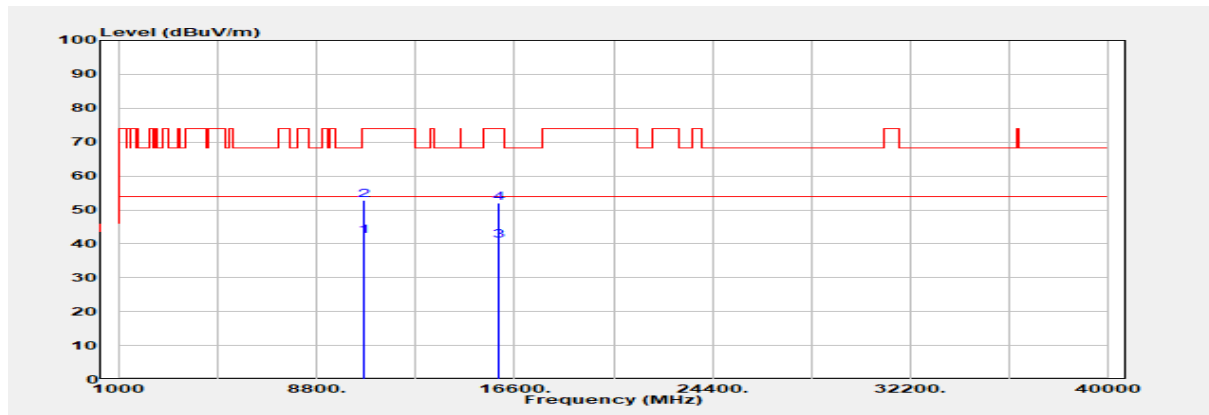
Temp./Humi. :21.3 °C/53%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



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
10620.000	Average	28.51	13.86	42.36	54.00	-11.64
10620.000	Peak	39.01	13.86	52.86	74.00	-21.14
15930.000	Average	27.16	13.82	40.98	54.00	-13.02
15930.000	Peak	38.16	13.82	51.98	74.00	-22.02

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Report Number :TERF2401000172E2

Test Site :SAC D

Operation Mode :802.11n40

Test Date :2024-02-15

Test Frequency :5510 MHz

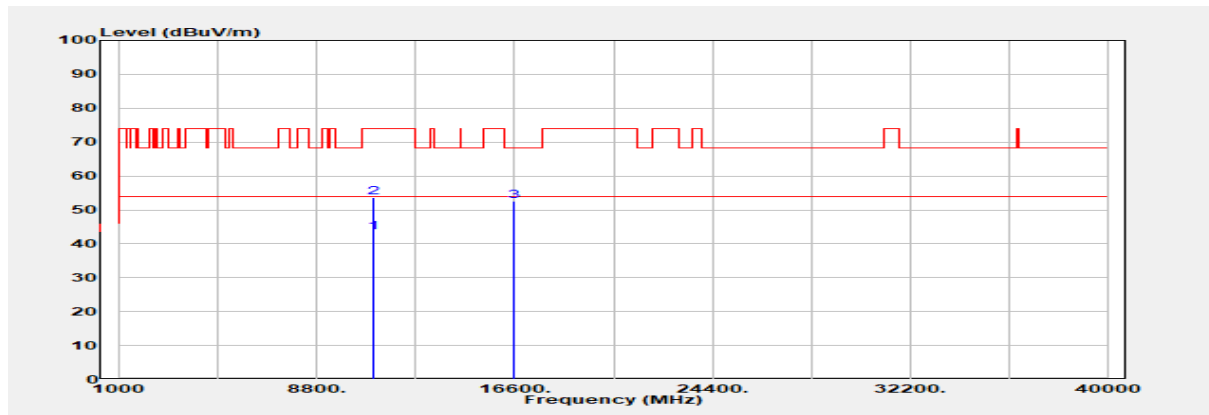
Temp./Humi. :21.3 °C/53%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam Huang



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
11020.000	Average	28.03	15.25	43.29	54.00	-10.71
11020.000	Peak	38.43	15.25	53.69	74.00	-20.31
16530.000	Peak	36.71	15.91	52.62	68.20	-15.58

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Report Number :TERF2401000172E2

Test Site :SAC D

Operation Mode :802.11n40

Test Date :2024-02-15

Test Frequency :5510 MHz

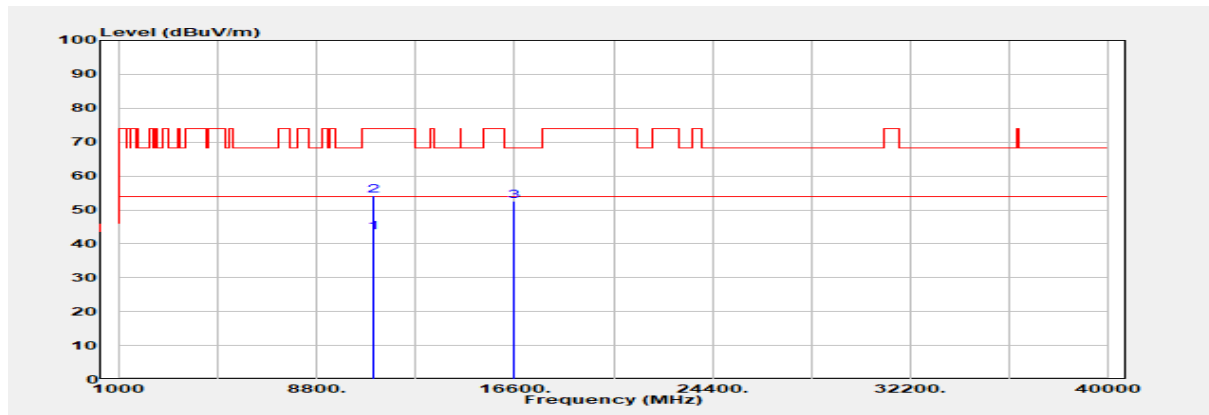
Temp./Humi. :21.3 °C/53%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



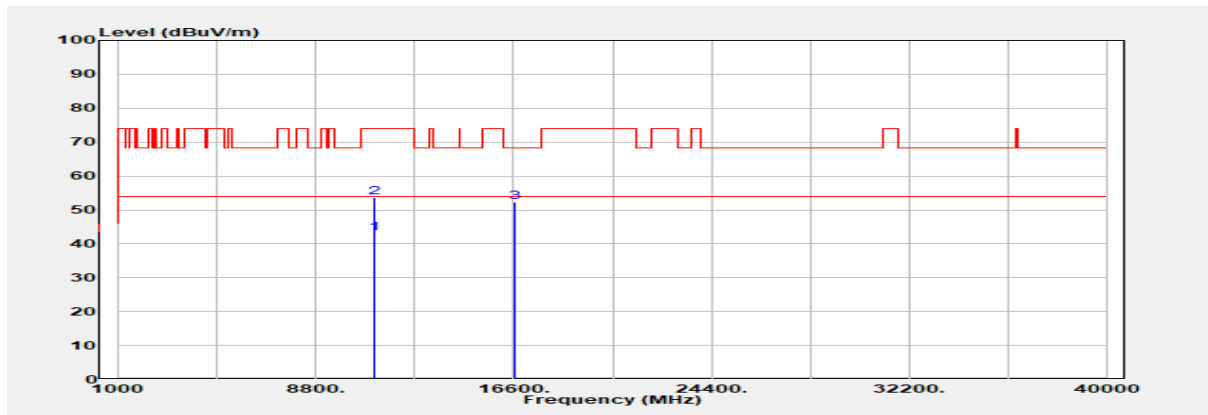
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11020.000	Average	28.14	15.25	43.39	54.00	-10.61
11020.000	Peak	39.02	15.25	54.27	74.00	-19.73
16530.000	Peak	36.71	15.91	52.62	68.20	-15.58

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Report Number :TERF2401000172E2
 Operation Mode :802.11n40
 Test Frequency :5550 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2024-02-15
 Temp./Humi. :21.3 °C/53%
 Antenna Pol. :Vertical
 Engineer :Sam Huang



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
11100.000	Average	28.11	14.85	42.96	54.00	-11.04
11100.000	Peak	38.88	14.85	53.73	74.00	-20.27
16650.000	Peak	35.37	16.96	52.32	68.20	-15.88

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Report Number :TERF2401000172E2

Test Site :SAC D

Operation Mode :802.11n40

Test Date :2024-02-15

Test Frequency :5550 MHz

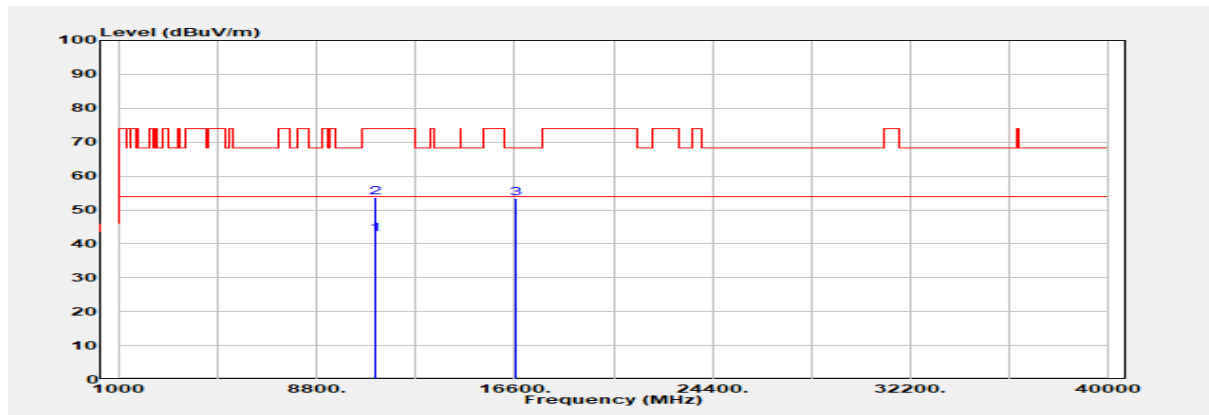
Temp./Humi. :21.3 °C/53%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11100.000	Average	28.01	14.85	42.86	54.00	-11.14
11100.000	Peak	38.69	14.85	53.54	74.00	-20.46
16650.000	Peak	36.53	16.96	53.48	68.20	-14.72

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Report Number :TERF2401000172E2

Test Site :SAC D

Operation Mode :802.11n40

Test Date :2024-02-15

Test Frequency :5670 MHz

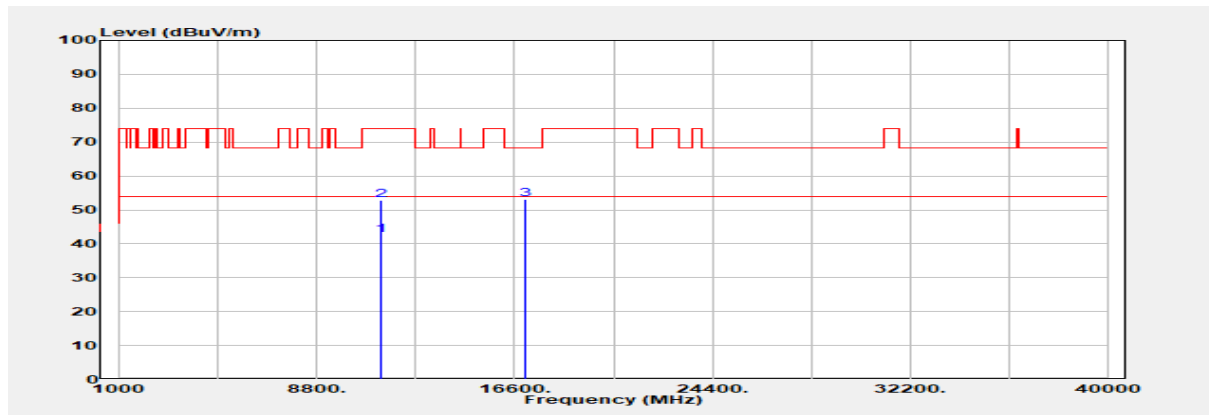
Temp./Humi. :21.3 °C/53%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam Huang



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
11340.000	Average	27.65	14.90	42.55	54.00	-11.45
11340.000	Peak	37.92	14.90	52.82	74.00	-21.18
17010.000	Peak	35.63	17.37	53.00	68.20	-15.20

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Report Number :TERF2401000172E2

Test Site :SAC D

Operation Mode :802.11n40

Test Date :2024-02-15

Test Frequency :5670 MHz

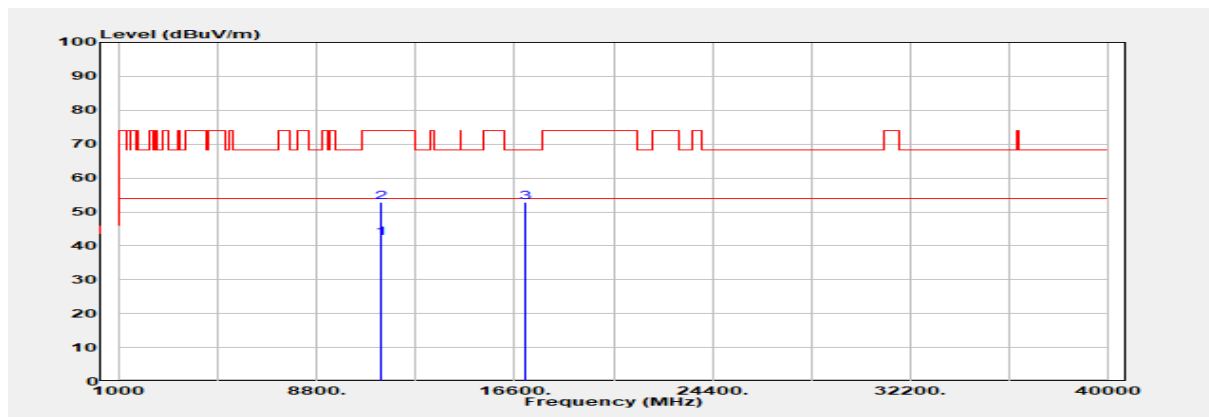
Temp./Humi. :21.3 °C/53%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



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
11340.000	Average	27.31	14.90	42.21	54.00	-11.79
11340.000	Peak	37.85	14.90	52.75	74.00	-21.25
17010.000	Peak	35.39	17.37	52.75	68.20	-15.45

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Report Number :TERF2401000172E2

Test Site :SAC D

Operation Mode :802.11n40

Test Date :2024-02-15

Test Frequency :5710 MHz

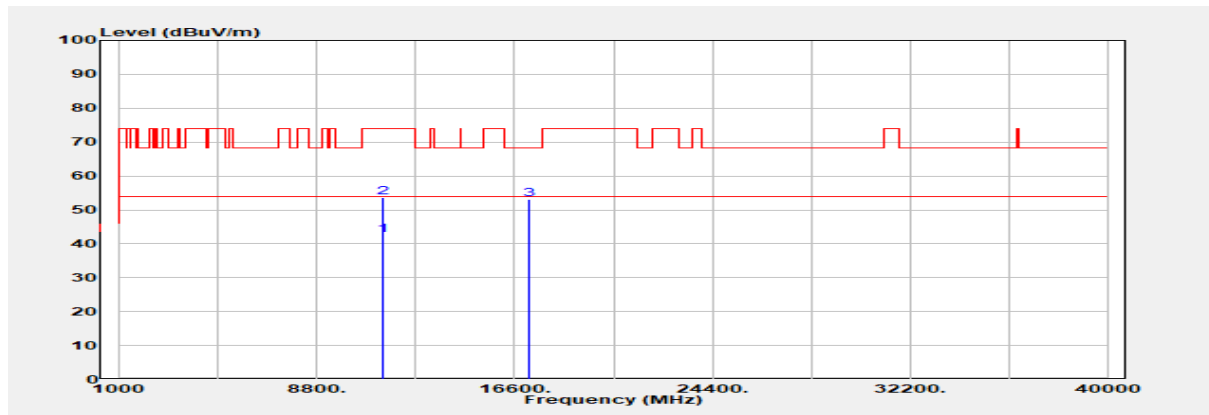
Temp./Humi. :21.3 °C/53%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam Huang



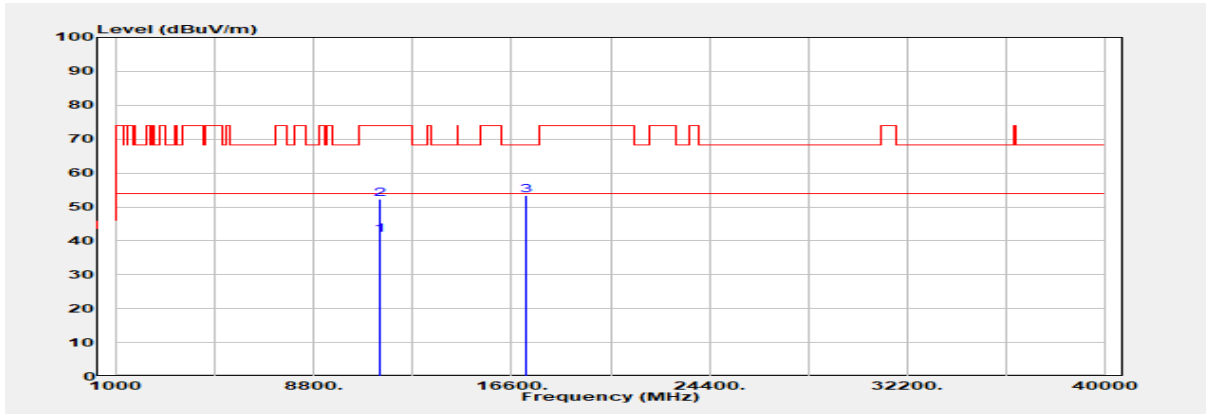
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11420.000	Average	27.72	14.88	42.61	54.00	-11.39
11420.000	Peak	38.76	14.88	53.64	74.00	-20.36
17130.000	Peak	35.60	17.61	53.21	68.20	-14.99

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Report Number :TERF2401000172E2
 Operation Mode :802.11n40
 Test Frequency :5710 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2024-02-15
 Temp./Humi. :21.3 °C/53%
 Antenna Pol. :Horizontal
 Engineer :Sam Huang



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
11420.000	Average	26.91	14.88	41.79	54.00	-12.21
11420.000	Peak	37.45	14.88	52.33	74.00	-21.67
17130.000	Peak	35.80	17.61	53.41	68.20	-14.79

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11.6.2 Band edge falling to restricted band

Report Number :TERF2401000172E2

Test Site :SAC D

Operation Mode :802.11a

Test Date :2024-02-22

Test Frequency :5180 MHz

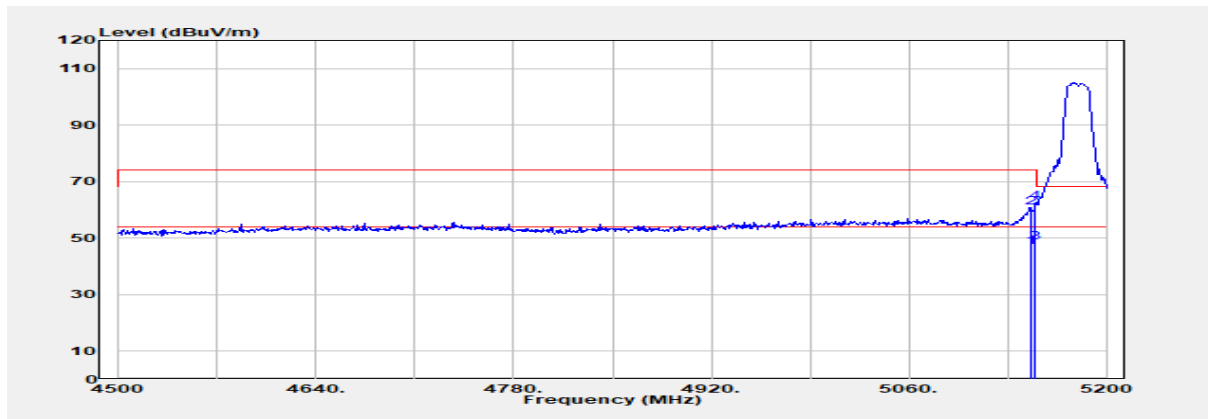
Temp./Humi. :21.5°C/56%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam Huang



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
5146.800	Average	44.97	1.88	46.85	54.00	-7.15
5146.800	Peak	58.87	1.88	60.75	74.00	-13.25
5150.000	Average	46.55	1.86	48.42	54.00	-5.58
5150.000	Peak	60.92	1.86	62.79	74.00	-11.21

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Report Number :TERF2401000172E2

Test Site :SAC D

Operation Mode :802.11a

Test Date :2024-02-22

Test Frequency :5180 MHz

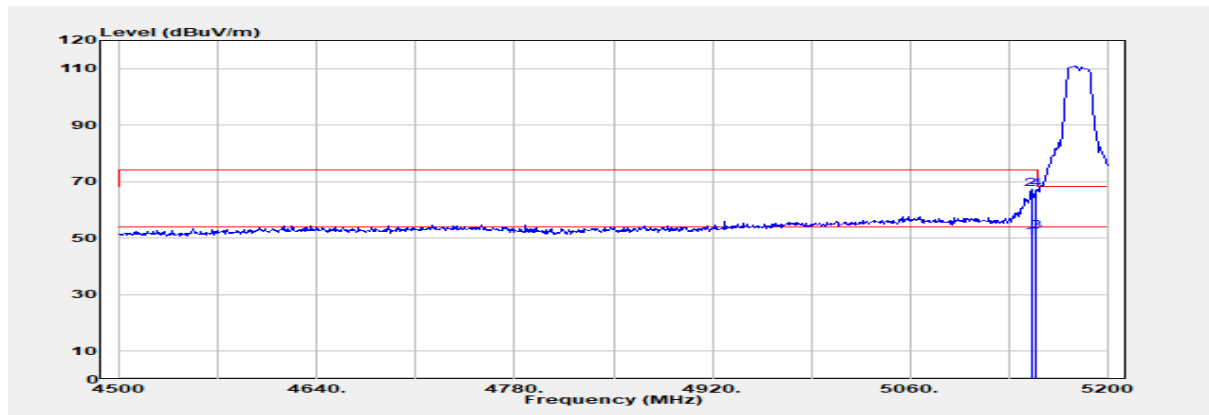
Temp./Humi. :21.5°C/56%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5146.100	Average	48.29	1.89	50.18	54.00	-3.82
5146.100	Peak	65.54	1.89	67.43	74.00	-6.57
5150.000	Average	50.65	1.86	52.52	54.00	-1.48
5150.000	Peak	65.47	1.86	67.34	74.00	-6.66

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Report Number :TERF2401000172E2

Test Site :SAC D

Operation Mode :802.11a

Test Date :2024-02-07

Test Frequency :5320 MHz

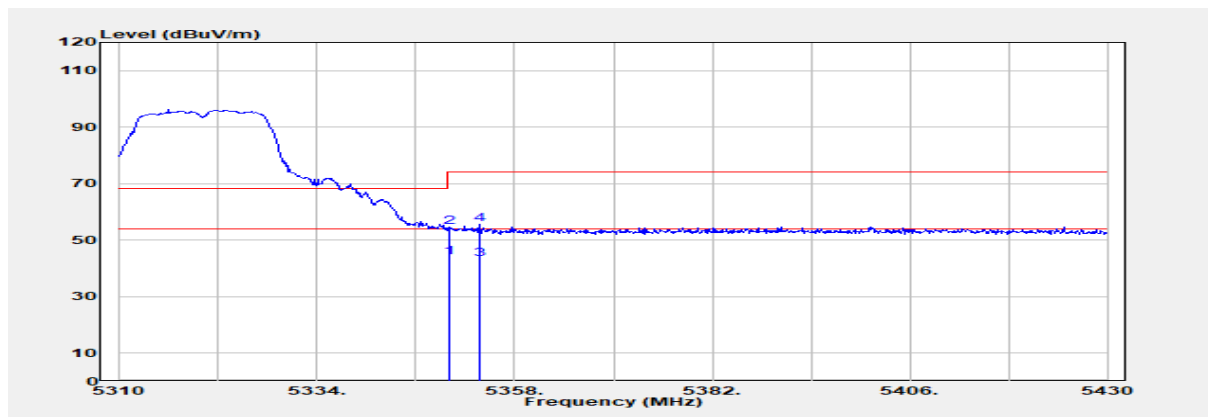
Temp./Humi. :22.2°C/55%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam Huang



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
5350.000	Average	41.32	2.57	43.90	54.00	-10.10
5350.000	Peak	52.00	2.57	54.57	74.00	-19.43
5353.680	Average	40.74	2.60	43.34	54.00	-10.66
5353.680	Peak	52.91	2.60	55.52	74.00	-18.48

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Report Number :TERF2401000172E2

Test Site :SAC D

Operation Mode :802.11a

Test Date :2024-02-07

Test Frequency :5320 MHz

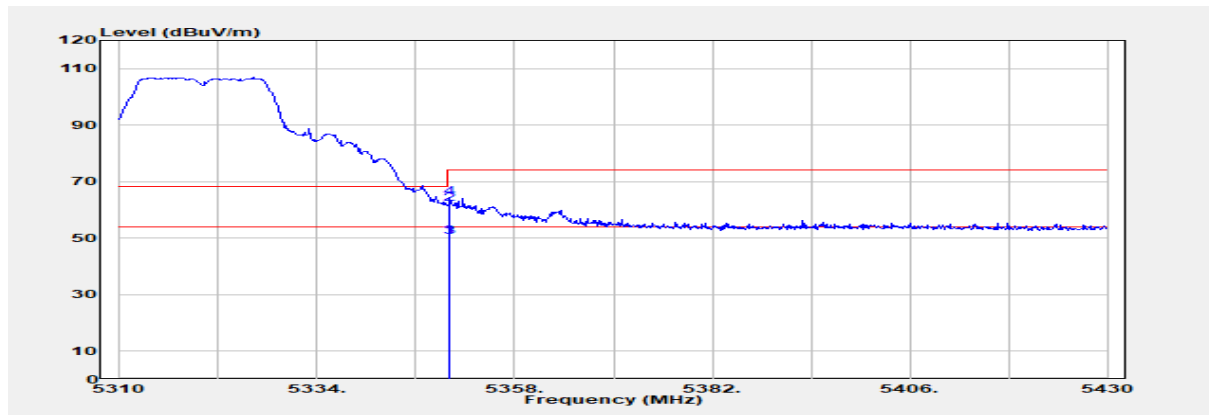
Temp./Humi. :22.2°C/55%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.000	Average	47.75	2.57	50.32	54.00	-3.68
5350.000	Peak	59.38	2.57	61.96	74.00	-12.04
5350.080	Average	47.71	2.58	50.29	54.00	-3.71
5350.080	Peak	61.92	2.58	64.49	74.00	-9.51

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Report Number :TERF2401000172E2

Test Site :SAC D

Operation Mode :802.11a

Test Date :2024-02-07

Test Frequency :5500 MHz

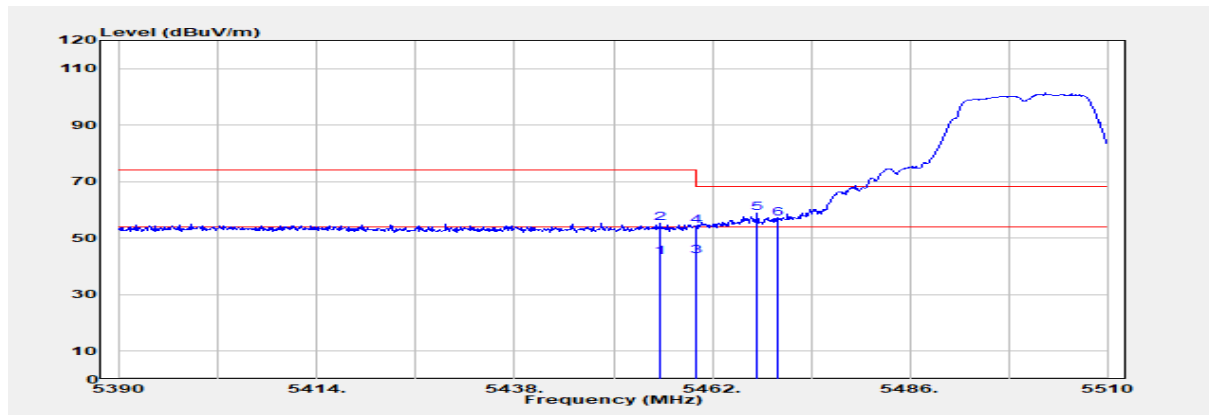
Temp./Humi. :22.2°C/55%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5455.760	Average	41.08	2.31	43.39	54.00	-10.61
5455.760	Peak	52.92	2.31	55.23	74.00	-18.77
5460.000	Average	41.31	2.28	43.59	54.00	-10.41
5460.000	Peak	51.91	2.28	54.19	74.00	-19.81
5467.520	Peak	56.69	2.23	58.92	68.20	-9.28
5470.000	Peak	54.75	2.21	56.96	68.20	-11.24

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Report Number :TERF2401000172E2

Test Site :SAC D

Operation Mode :802.11a

Test Date :2024-02-07

Test Frequency :5500 MHz

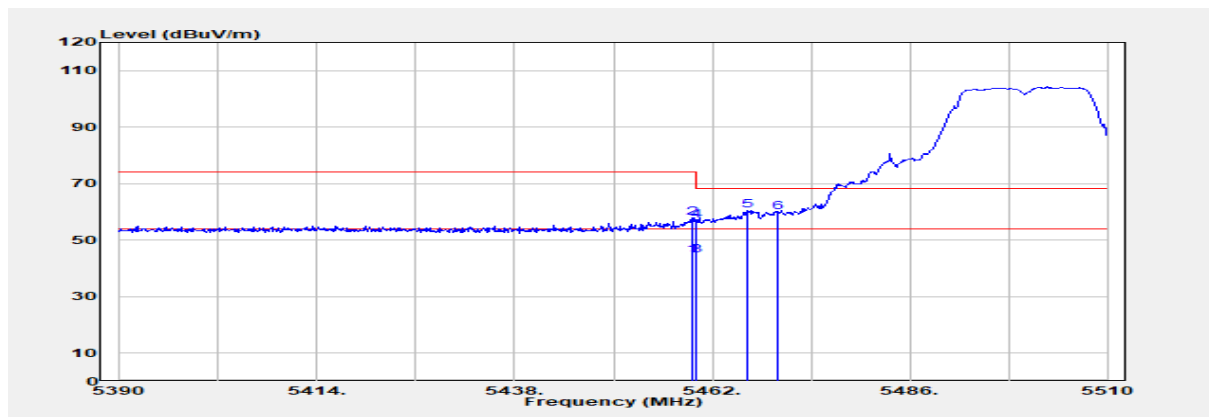
Temp./Humi. :22.2°C/55%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5459.480	Average	42.12	2.29	44.40	54.00	-9.60
5459.480	Peak	55.50	2.29	57.79	74.00	-16.21
5460.000	Average	42.26	2.28	44.54	54.00	-9.46
5460.000	Peak	54.51	2.28	56.79	74.00	-17.21
5466.320	Peak	58.37	2.24	60.61	68.20	-7.59
5470.000	Peak	57.77	2.21	59.99	68.20	-8.21

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Report Number :TERF2401000172E2

Test Site :SAC D

Operation Mode :802.11a

Test Date :2024-02-22

Test Frequency :5700 MHz

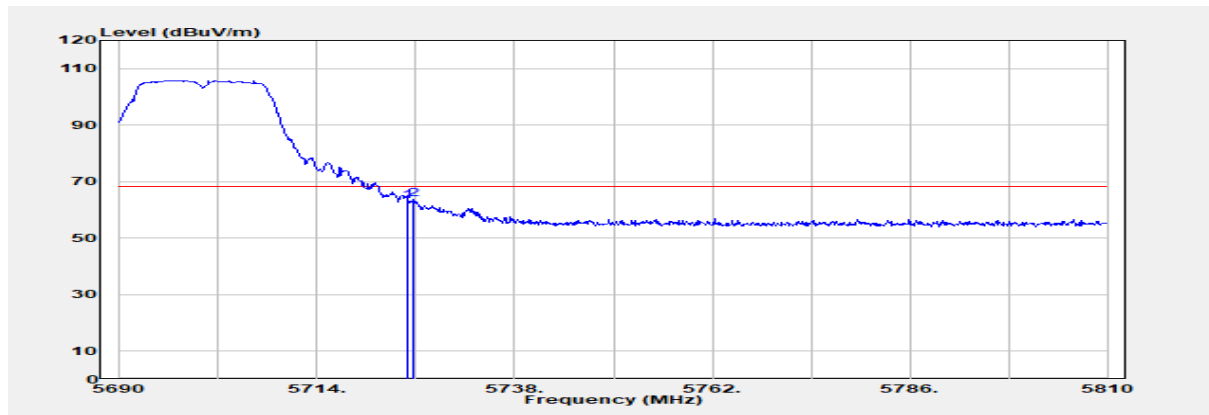
Temp./Humi. :21.5°C/56%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.000	Peak	59.65	3.46	63.11	68.20	-5.09
5725.760	Peak	60.41	3.45	63.86	68.20	-4.34

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Report Number :TERF2401000172E2

Test Site :SAC D

Operation Mode :802.11a

Test Date :2024-02-22

Test Frequency :5700 MHz

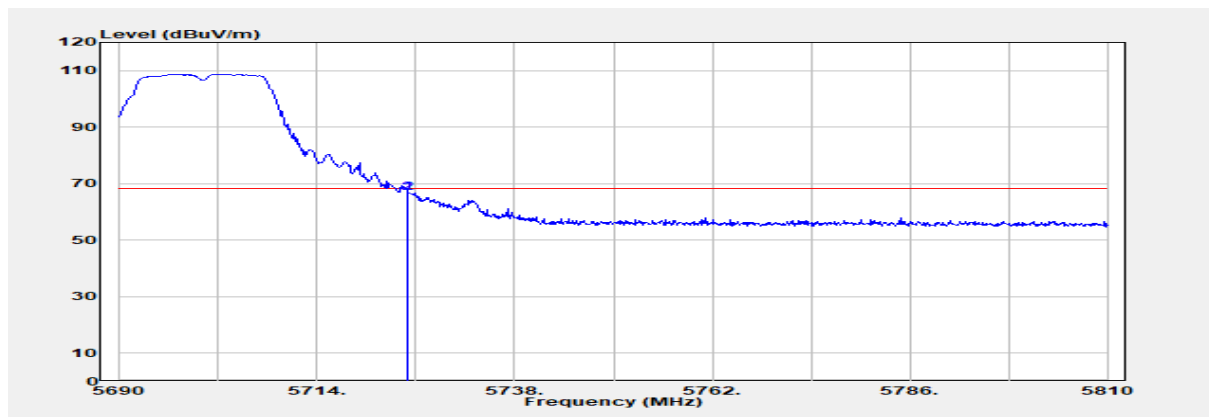
Temp./Humi. :21.5°C/56%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



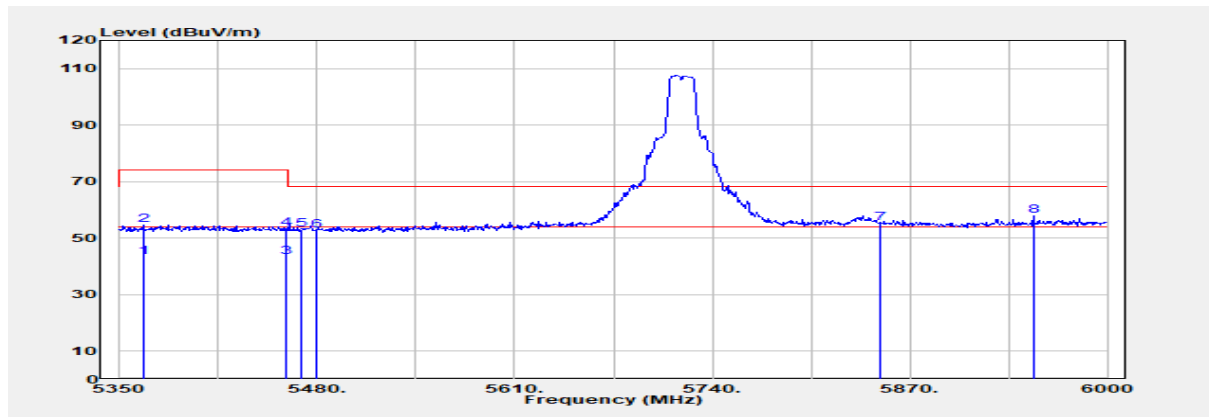
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.000	Peak	63.35	3.46	66.81	68.20	-1.39
5725.040	Peak	63.35	3.46	66.81	68.20	-1.39

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Report Number :TERF2401000172E2
 Operation Mode :802.11a
 Test Frequency :5720 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2024-02-07
 Temp./Humi. :22.2°C/55%
 Antenna Pol. :Vertical
 Engineer :Sam Huang



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
5365.600	Average	40.49	2.70	43.19	54.00	-10.81
5365.600	Peak	52.08	2.70	54.78	74.00	-19.22
5460.000	Average	41.08	2.28	43.36	54.00	-10.64
5460.000	Peak	50.93	2.28	53.22	74.00	-20.78
5470.000	Peak	50.67	2.21	52.88	68.20	-15.32
5480.000	Peak	50.64	2.15	52.78	68.20	-15.42
5850.000	Peak	51.96	3.42	55.37	68.20	-12.83
5951.250	Peak	54.00	3.87	57.87	68.20	-10.33

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Report Number :TERF2401000172E2

Test Site :SAC D

Operation Mode :802.11a

Test Date :2024-02-07

Test Frequency :5720 MHz

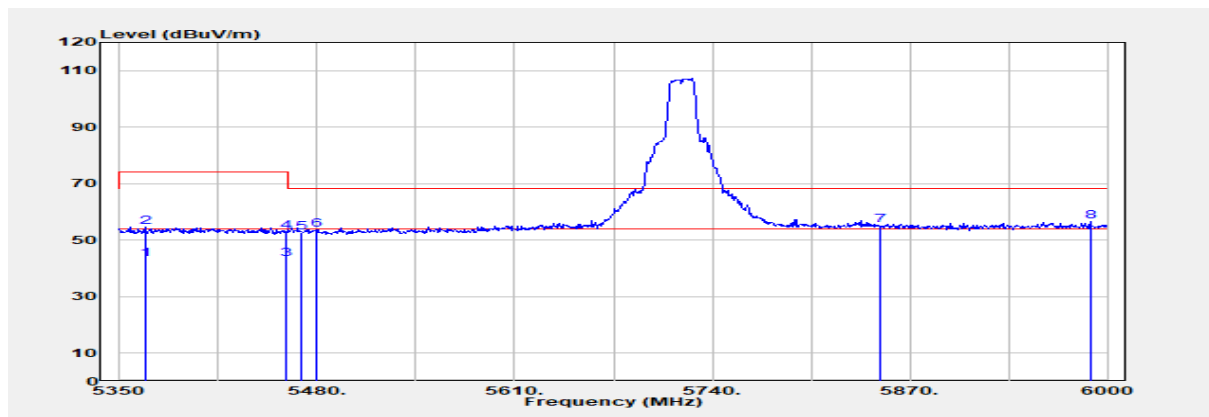
Temp./Humi. :22.2°C/55%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



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
5366.900	Average	40.53	2.71	43.25	54.00	-10.75
5366.900	Peak	51.88	2.71	54.59	74.00	-19.41
5460.000	Average	41.02	2.28	43.31	54.00	-10.69
5460.000	Peak	50.83	2.28	53.12	74.00	-20.88
5470.000	Peak	50.44	2.21	52.66	68.20	-15.54
5480.000	Peak	51.50	2.15	53.64	68.20	-14.56
5850.000	Peak	51.89	3.42	55.31	68.20	-12.89
5988.950	Peak	52.44	4.17	56.61	68.20	-11.59

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Report Number :TERF2401000172E2

Test Site :SAC D

Operation Mode :802.11n20

Test Date :2024-02-22

Test Frequency :5180 MHz

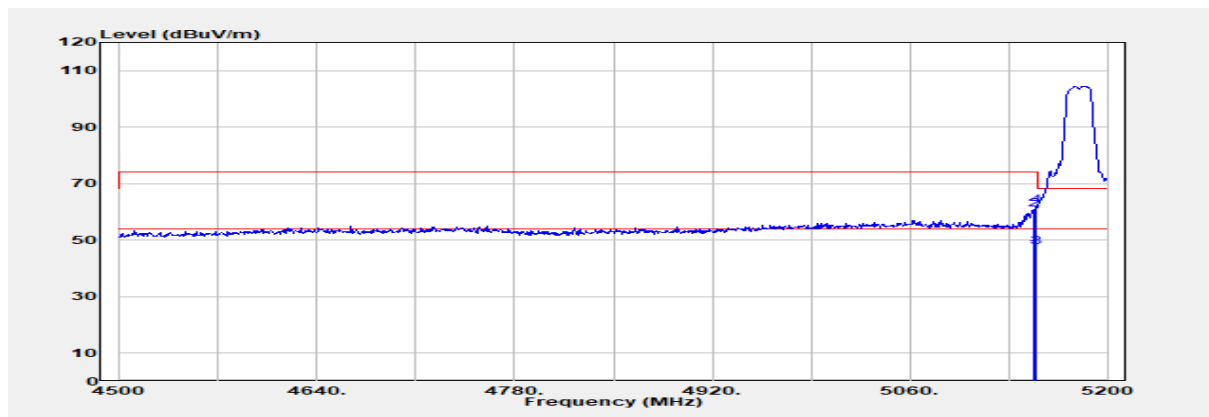
Temp./Humi. :21.5°C/56%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam Huang



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
5148.200	Average	44.53	1.87	46.40	54.00	-7.60
5148.200	Peak	59.02	1.87	60.89	74.00	-13.11
5150.000	Average	45.48	1.86	47.35	54.00	-6.65
5150.000	Peak	60.13	1.86	62.00	74.00	-12.00

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Report Number :TERF2401000172E2

Test Site :SAC D

Operation Mode :802.11n20

Test Date :2024-02-22

Test Frequency :5180 MHz

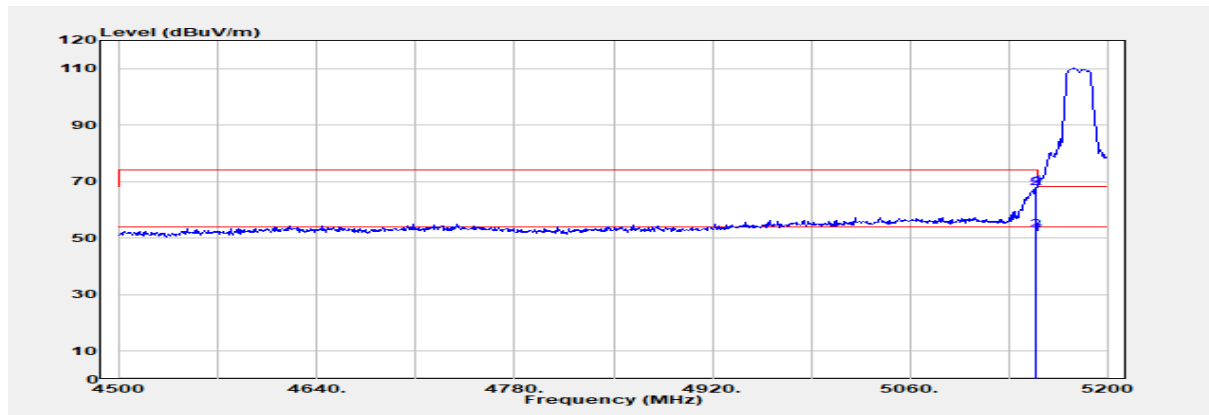
Temp./Humi. :21.5°C/56%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



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
5148.900	Average	49.58	1.87	51.45	54.00	-2.55
5148.900	Peak	65.90	1.87	67.77	74.00	-6.23
5150.000	Average	50.70	1.86	52.56	54.00	-1.44
5150.000	Peak	66.50	1.86	68.36	74.00	-5.64

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Report Number :TERF2401000172E2

Test Site :SAC D

Operation Mode :802.11n20

Test Date :2024-02-07

Test Frequency :5320 MHz

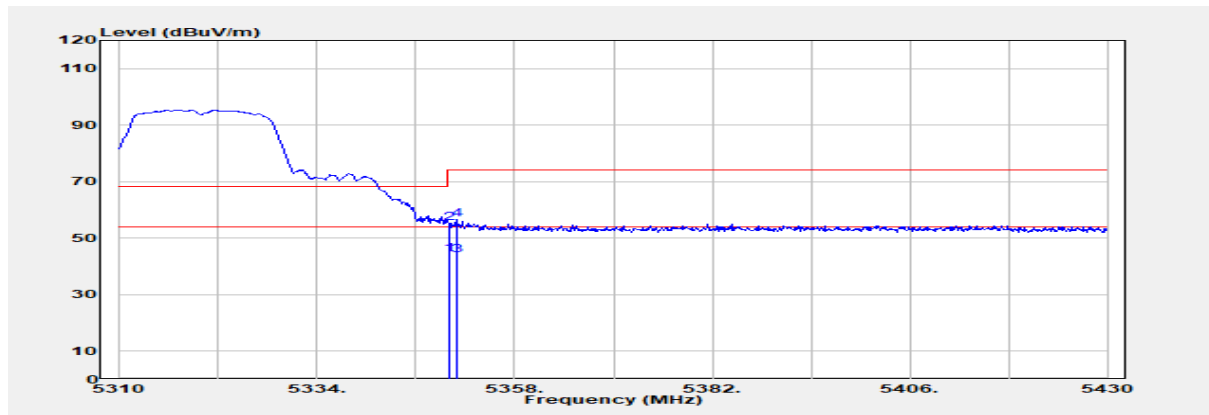
Temp./Humi. :22.2°C/55%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam Huang



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
5350.000	Average	41.57	2.57	44.14	54.00	-9.86
5350.000	Peak	52.59	2.57	55.16	74.00	-18.84
5350.920	Average	41.45	2.58	44.03	54.00	-9.97
5350.920	Peak	53.87	2.58	56.46	74.00	-17.54

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Report Number :TERF2401000172E2

Test Site :SAC D

Operation Mode :802.11n20

Test Date :2024-02-07

Test Frequency :5320 MHz

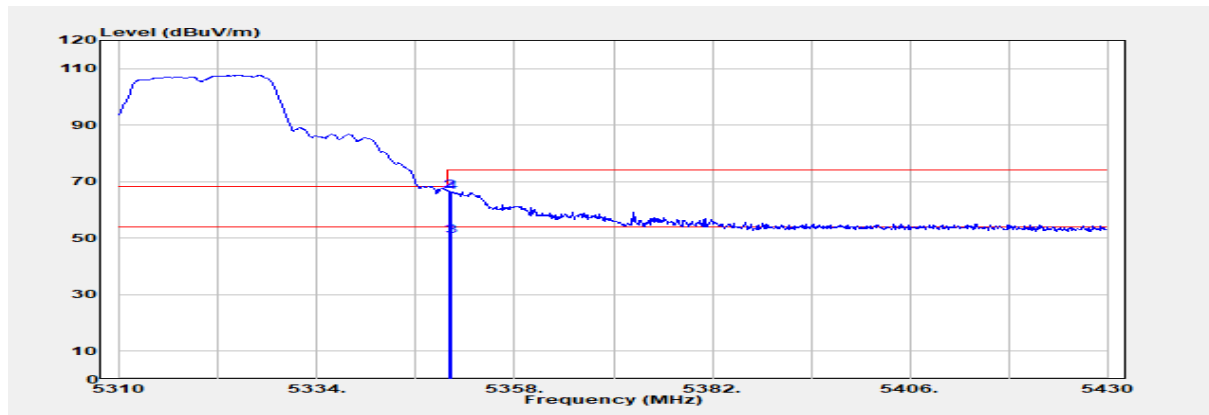
Temp./Humi. :22.2°C/55%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



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
5350.000	Average	48.37	2.57	50.94	54.00	-3.06
5350.000	Peak	64.20	2.57	66.77	74.00	-7.23
5350.200	Average	48.13	2.58	50.71	54.00	-3.29
5350.200	Peak	63.91	2.58	66.48	74.00	-7.52

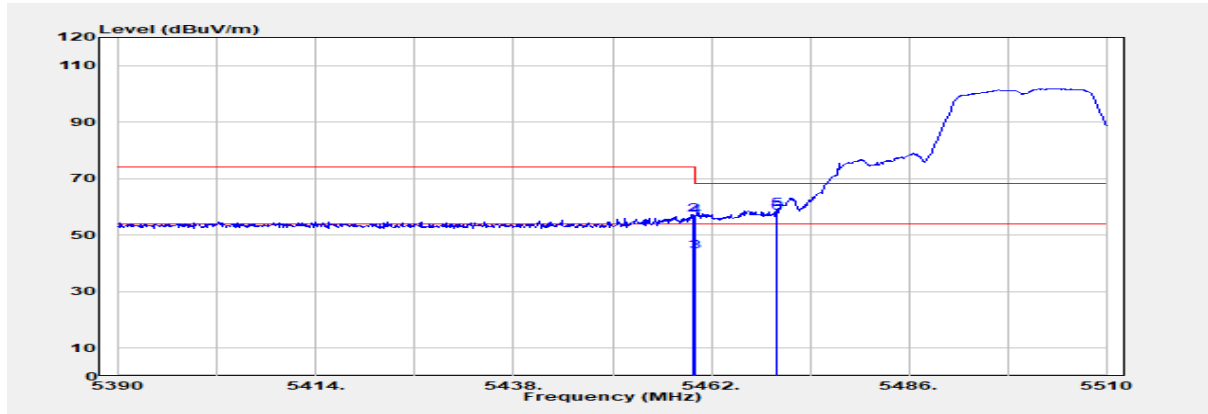
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Report Number :TERF2401000172E2
 Operation Mode :802.11n20
 Test Frequency :5500 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2024-02-07
 Temp./Humi. :22.2°C/55%
 Antenna Pol. :Vertical
 Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5459.840	Average	42.19	2.28	44.47	54.00	-9.53
5459.840	Peak	54.92	2.28	57.20	74.00	-16.80
5460.000	Average	42.09	2.28	44.38	54.00	-9.62
5460.000	Peak	54.47	2.28	56.75	74.00	-17.25
5469.920	Peak	56.92	2.21	59.14	68.20	-9.06
5470.000	Peak	55.53	2.21	57.74	68.20	-10.46

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Report Number :TERF2401000172E2

Test Site :SAC D

Operation Mode :802.11n20

Test Date :2024-02-07

Test Frequency :5500 MHz

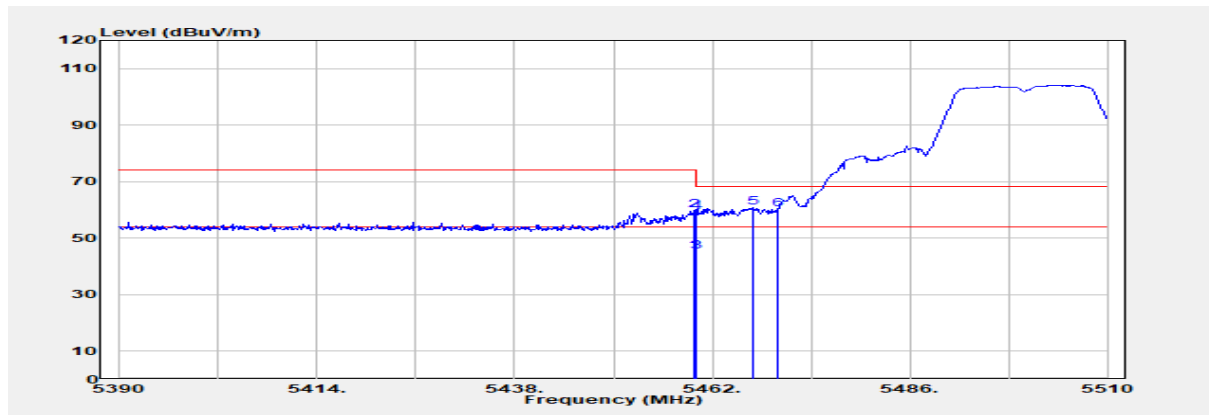
Temp./Humi. :22.2°C/55%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5459.720	Average	42.98	2.28	45.26	54.00	-8.74
5459.720	Peak	57.46	2.28	59.74	74.00	-14.26
5460.000	Average	42.91	2.28	45.19	54.00	-8.81
5460.000	Peak	56.93	2.28	59.22	74.00	-14.78
5466.920	Peak	58.62	2.24	60.85	68.20	-7.35
5470.000	Peak	57.96	2.21	60.17	68.20	-8.03

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Report Number :TERF2401000172E2

Test Site :SAC D

Operation Mode :802.11n20

Test Date :2024-02-22

Test Frequency :5700 MHz

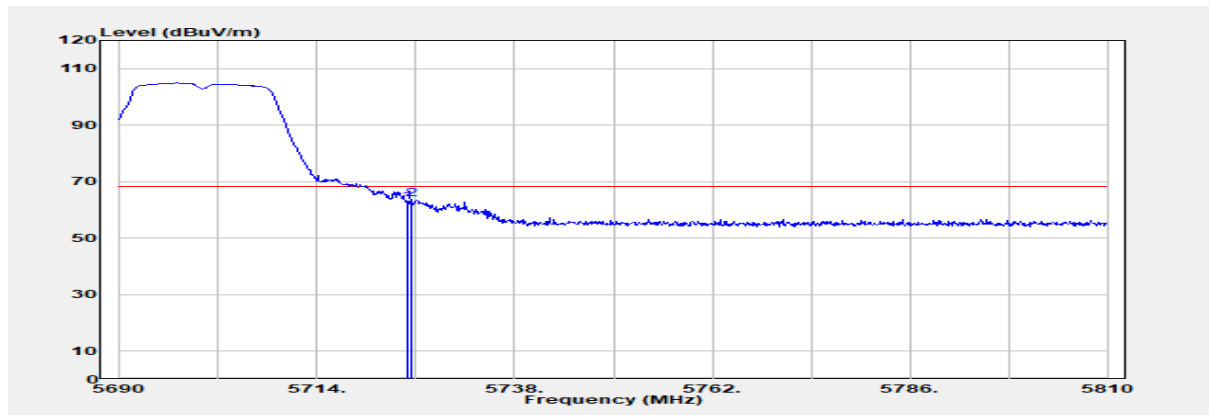
Temp./Humi. :21.5°C/56%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam Huang



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
5725.000	Peak	59.27	3.46	62.72	68.20	-5.48
5725.400	Peak	60.37	3.45	63.82	68.20	-4.38

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Report Number :TERF2401000172E2

Test Site :SAC D

Operation Mode :802.11n20

Test Date :2024-02-22

Test Frequency :5700 MHz

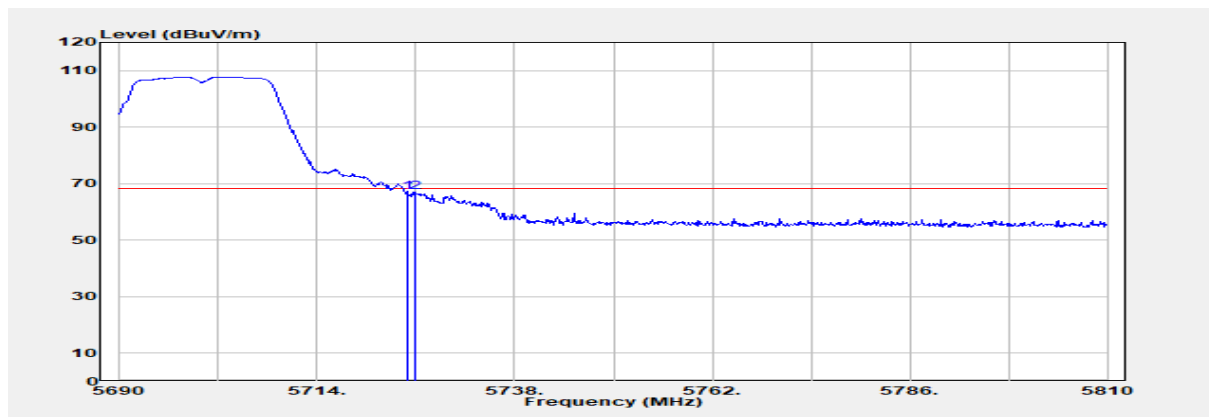
Temp./Humi. :21.5°C/56%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



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
5725.000	Peak	63.38	3.46	66.83	68.20	-1.37
5726.000	Peak	63.42	3.45	66.87	68.20	-1.33

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Report Number :TERF2401000172E2

Test Site :SAC D

Operation Mode :802.11n20

Test Date :2024-02-07

Test Frequency :5720 MHz

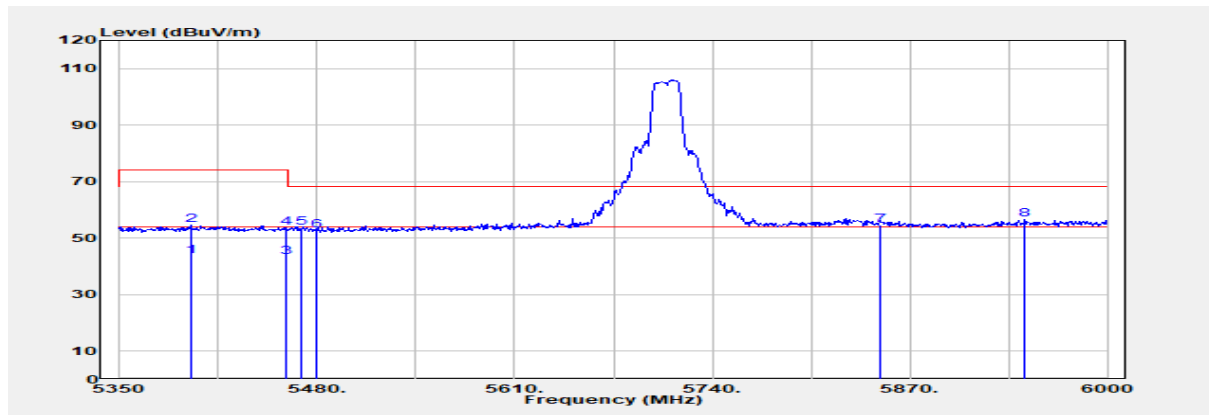
Temp./Humi. :22.2°C/55%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam Huang



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
5396.800	Average	40.54	2.95	43.49	54.00	-10.51
5396.800	Peak	51.71	2.95	54.67	74.00	-19.33
5460.000	Average	41.10	2.28	43.38	54.00	-10.62
5460.000	Peak	51.35	2.28	53.63	74.00	-20.37
5470.000	Peak	51.34	2.21	53.55	68.20	-14.65
5480.000	Peak	50.38	2.15	52.53	68.20	-15.67
5850.000	Peak	51.29	3.42	54.71	68.20	-13.49
5946.050	Peak	52.71	3.81	56.51	68.20	-11.69

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Report Number :TERF2401000172E2

Test Site :SAC D

Operation Mode :802.11n20

Test Date :2024-02-07

Test Frequency :5720 MHz

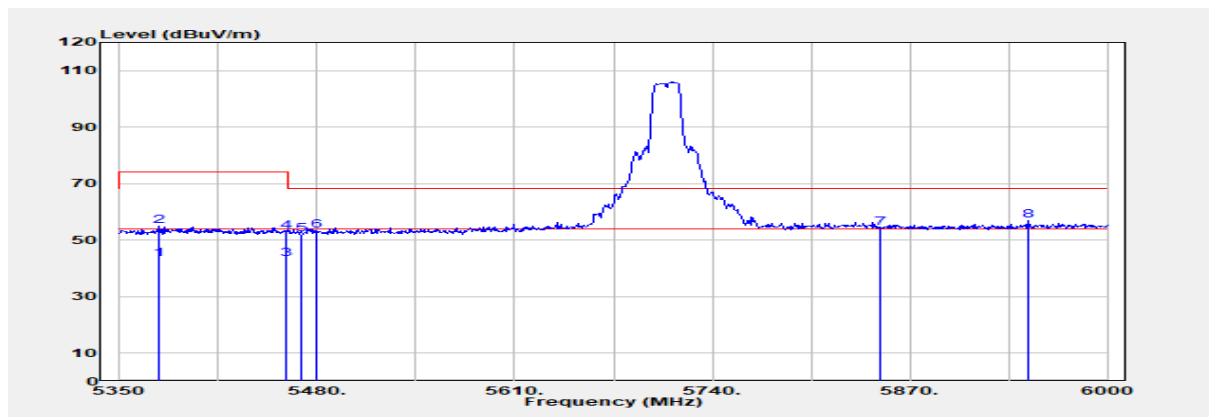
Temp./Humi. :22.2°C/55%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5376.000	Average	40.44	2.79	43.22	54.00	-10.78
5376.000	Peak	52.04	2.79	54.83	74.00	-19.17
5460.000	Average	40.82	2.28	43.10	54.00	-10.90
5460.000	Peak	50.71	2.28	52.99	74.00	-21.01
5470.000	Peak	49.92	2.21	52.14	68.20	-16.06
5480.000	Peak	51.23	2.15	53.38	68.20	-14.82
5850.000	Peak	50.82	3.42	54.24	68.20	-13.96
5948.000	Peak	53.06	3.83	56.89	68.20	-11.31

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Report Number :TERF2401000172E2

Test Site :SAC D

Operation Mode :802.11n40

Test Date :2024-02-22

Test Frequency :5190 MHz

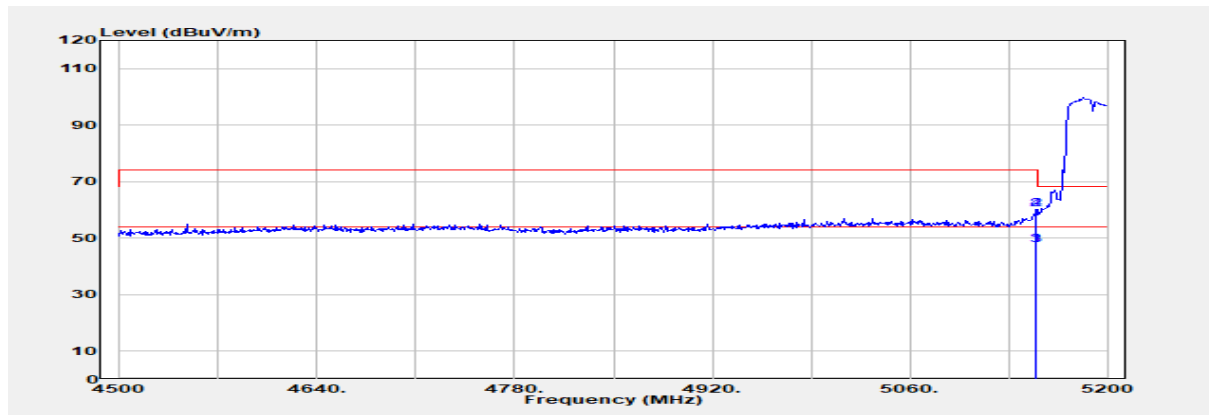
Temp./Humi. :21.5°C/56%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam Huang



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
5149.600	Average	45.46	1.87	47.33	54.00	-6.67
5149.600	Peak	58.40	1.87	60.27	74.00	-13.73
5150.000	Average	45.54	1.86	47.40	54.00	-6.60
5150.000	Peak	58.21	1.86	60.07	74.00	-13.93

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Report Number :TERF2401000172E2

Test Site :SAC D

Operation Mode :802.11n40

Test Date :2024-02-22

Test Frequency :5190 MHz

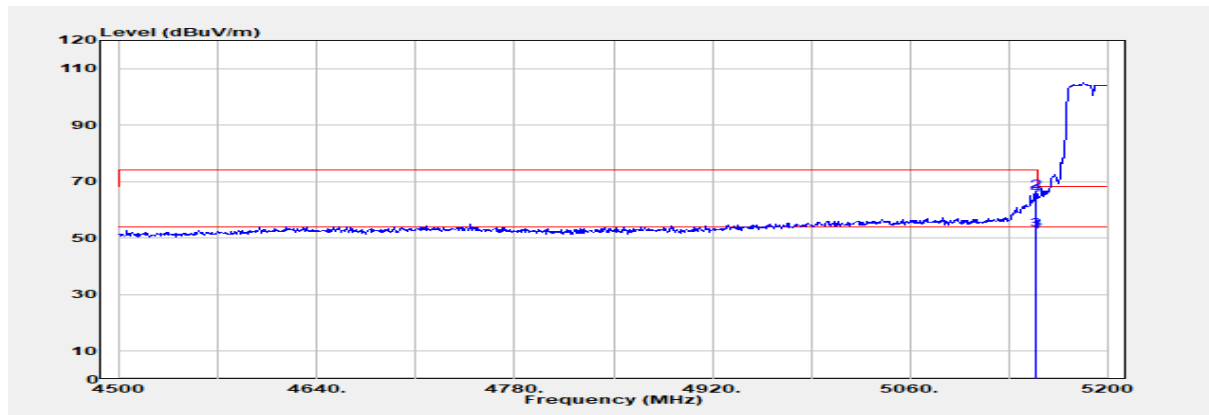
Temp./Humi. :21.5°C/56%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



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
5148.900	Average	50.49	1.87	52.37	54.00	-1.63
5148.900	Peak	64.94	1.87	66.81	74.00	-7.19
5150.000	Average	51.09	1.86	52.96	54.00	-1.04
5150.000	Peak	63.51	1.86	65.37	74.00	-8.63

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Report Number :TERF2401000172E2

Test Site :SAC D

Operation Mode :802.11n40

Test Date :2024-02-22

Test Frequency :5310 MHz

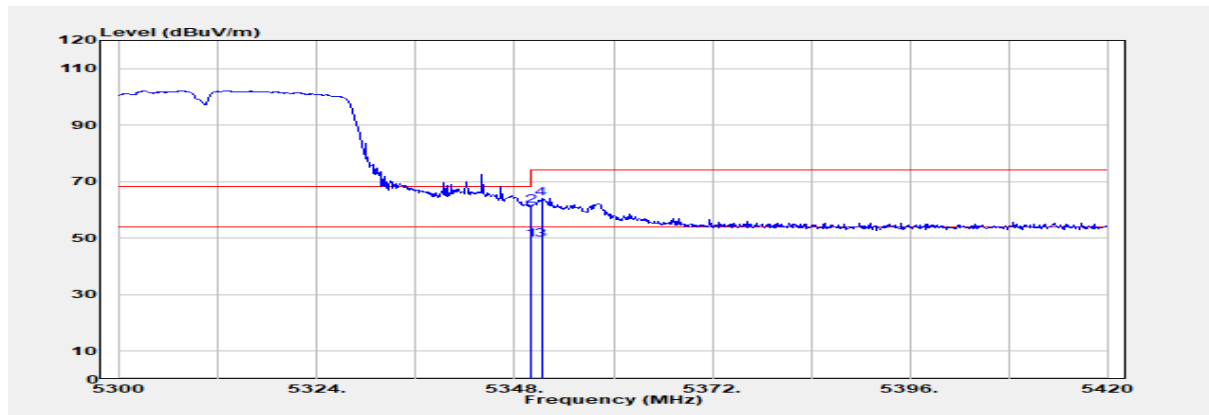
Temp./Humi. :21.5°C/56%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam Huang



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
5350.000	Average	46.88	2.57	49.45	54.00	-4.55
5350.000	Peak	58.86	2.57	61.43	74.00	-12.57
5351.240	Average	46.74	2.59	49.33	54.00	-4.67
5351.240	Peak	61.60	2.59	64.18	74.00	-9.82

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Report Number :TERF2401000172E2

Test Site :SAC D

Operation Mode :802.11n40

Test Date :2024-02-22

Test Frequency :5310 MHz

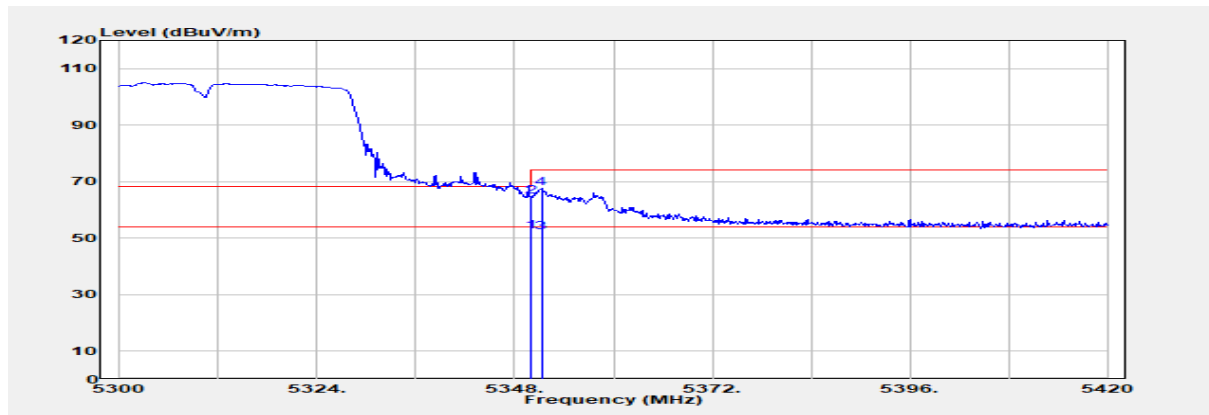
Temp./Humi. :21.5°C/56%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



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
5350.000	Average	49.66	2.57	52.24	54.00	-1.76
5350.000	Peak	62.05	2.57	64.63	74.00	-9.37
5351.240	Average	49.55	2.59	52.13	54.00	-1.87
5351.240	Peak	64.96	2.59	67.54	74.00	-6.46

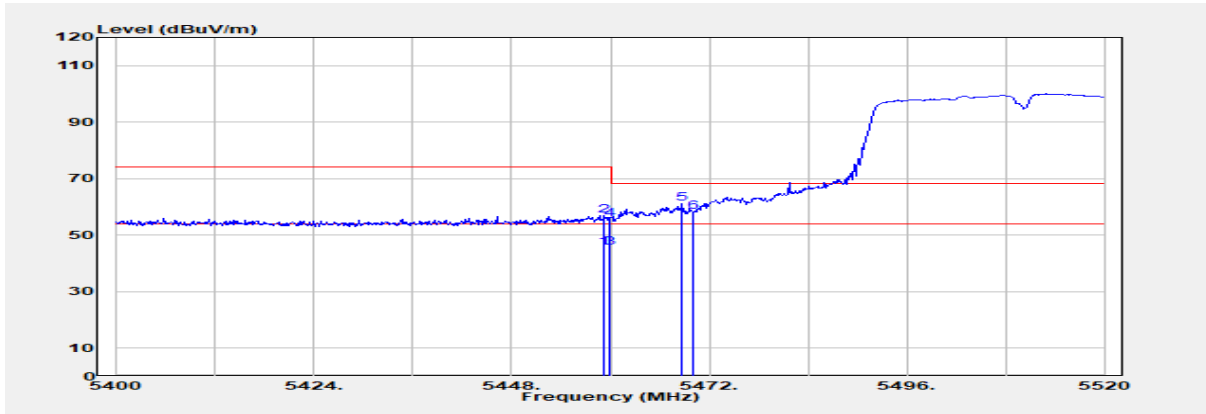
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Report Number :TERF2401000172E2
 Operation Mode :802.11n40
 Test Frequency :5510 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2024-02-22
 Temp./Humi. :21.5°C/56%
 Antenna Pol. :Vertical
 Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5459.280	Average	43.20	2.29	45.49	54.00	-8.51
5459.280	Peak	54.66	2.29	56.94	74.00	-17.06
5460.000	Average	43.25	2.28	45.53	54.00	-8.47
5460.000	Peak	53.24	2.28	55.52	74.00	-18.48
5468.760	Peak	58.84	2.22	61.07	68.20	-7.13
5470.000	Peak	55.98	2.21	58.20	68.20	-10.00

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Report Number :TERF2401000172E2

Test Site :SAC D

Operation Mode :802.11n40

Test Date :2024-02-22

Test Frequency :5510 MHz

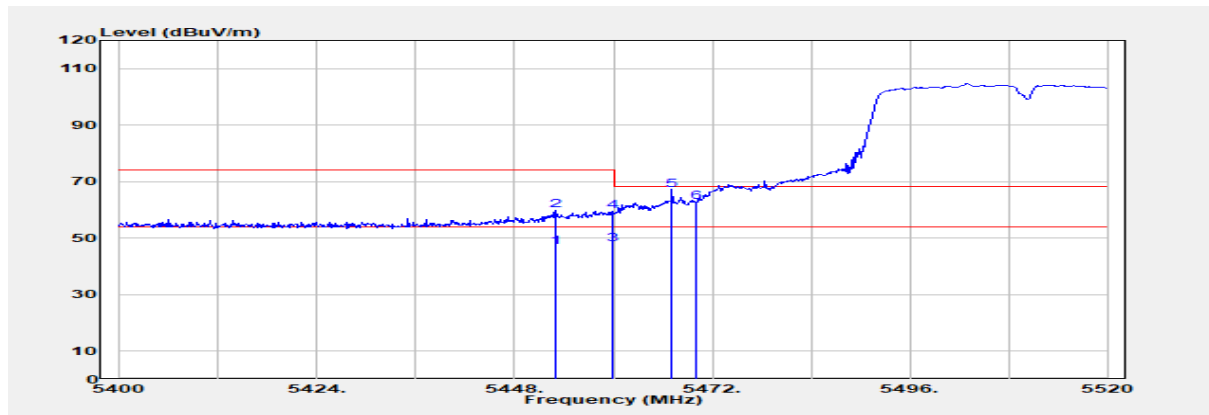
Temp./Humi. :21.5°C/56%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5453.040	Average	44.46	2.33	46.79	54.00	-7.21
5453.040	Peak	57.56	2.33	59.89	74.00	-14.11
5460.000	Average	45.46	2.28	47.74	54.00	-6.26
5460.000	Peak	57.31	2.28	59.59	74.00	-14.41
5467.080	Peak	64.88	2.23	67.12	68.20	-1.08
5470.000	Peak	60.67	2.21	62.88	68.20	-5.32

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Report Number :TERF2401000172E2

Test Site :SAC D

Operation Mode :802.11n40

Test Date :2024-02-22

Test Frequency :5670 MHz

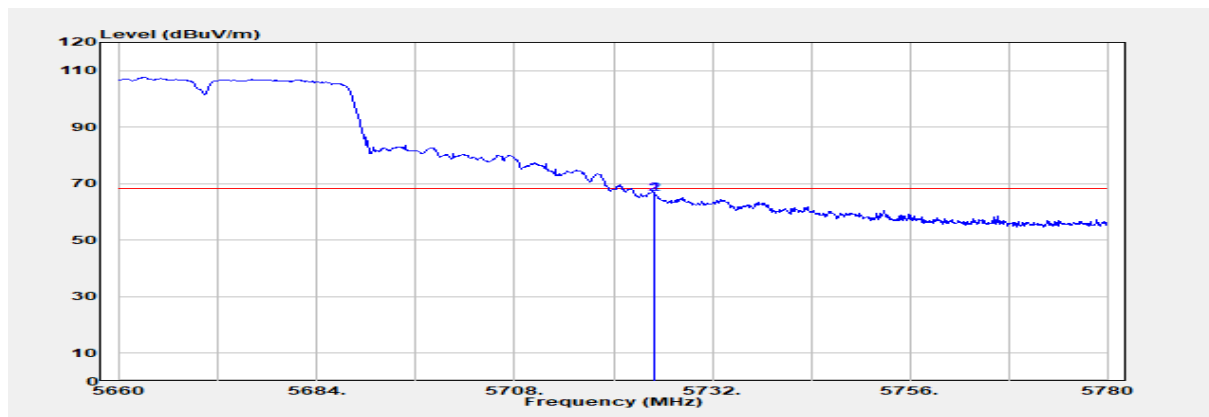
Temp./Humi. :21.5°C/56%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



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
5725.000	Peak	62.99	3.46	66.44	68.20	-1.76
5725.040	Peak	62.99	3.46	66.44	68.20	-1.76

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Report Number :TERF2401000172E2

Test Site :SAC D

Operation Mode :802.11n40

Test Date :2024-02-15

Test Frequency :5670 MHz

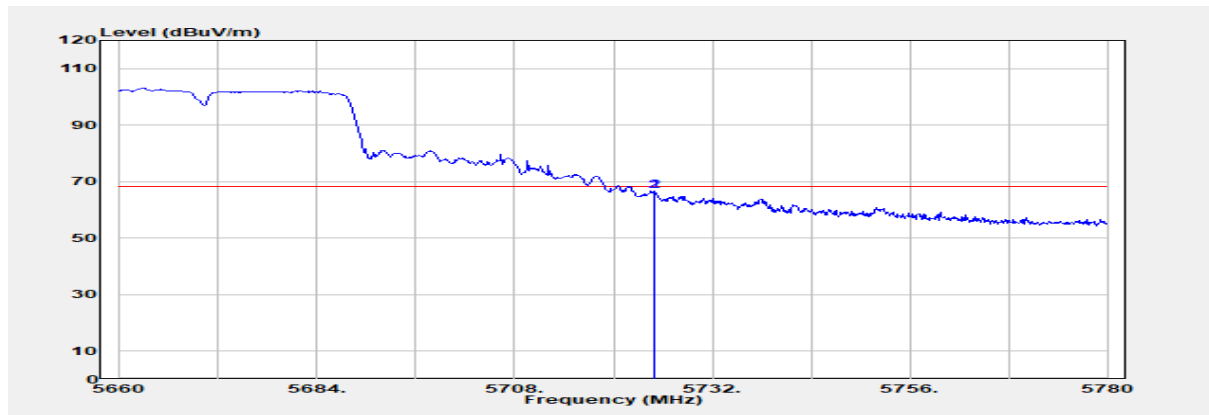
Temp./Humi. :21.3°C/53%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



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
5725.000	Peak	63.21	3.46	66.67	68.20	-1.53
5725.040	Peak	63.21	3.46	66.67	68.20	-1.53

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Report Number :TERF2401000172E2

Test Site :SAC D

Operation Mode :802.11n40

Test Date :2024-02-15

Test Frequency :5710 MHz

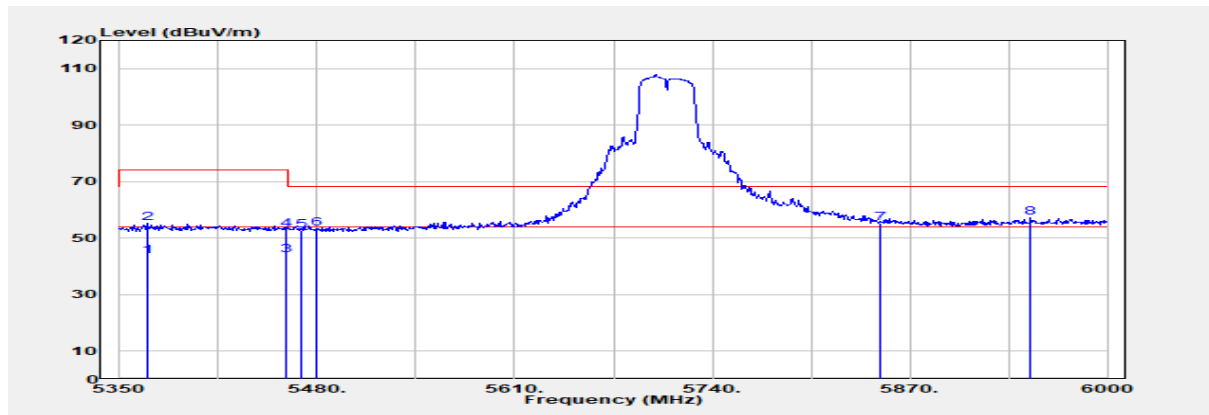
Temp./Humi. :21.3°C/53%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5368.200	Average	40.99	2.72	43.72	54.00	-10.28
5368.200	Peak	52.51	2.72	55.23	74.00	-18.77
5460.000	Average	41.52	2.28	43.80	54.00	-10.20
5460.000	Peak	50.66	2.28	52.94	74.00	-21.06
5470.000	Peak	50.38	2.21	52.60	68.20	-15.60
5480.000	Peak	51.03	2.15	53.18	68.20	-15.02
5850.000	Peak	51.93	3.42	55.34	68.20	-12.86
5949.300	Peak	53.31	3.85	57.16	68.20	-11.04

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Report Number :TERF2401000172E2

Test Site :SAC D

Operation Mode :802.11n40

Test Date :2024-02-15

Test Frequency :5710 MHz

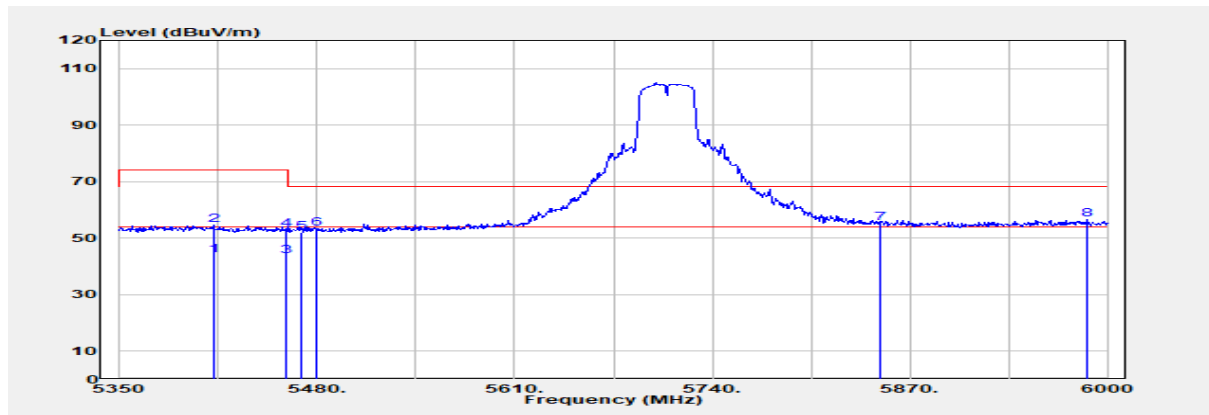
Temp./Humi. :21.3°C/53%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5411.750	Average	41.09	2.83	43.93	54.00	-10.07
5411.750	Peak	51.71	2.83	54.54	74.00	-19.46
5460.000	Average	41.39	2.28	43.67	54.00	-10.33
5460.000	Peak	50.71	2.28	52.99	74.00	-21.01
5470.000	Peak	49.92	2.21	52.13	68.20	-16.07
5480.000	Peak	51.24	2.15	53.38	68.20	-14.82
5850.000	Peak	51.91	3.42	55.33	68.20	-12.87
5986.350	Peak	52.40	4.15	56.55	68.20	-11.65

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12 TRANSMISSION IN THE ABSENCE OF DATA

12.1 Standard Applicable

According to §15.407(c) & RSS-247 §6.4

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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