

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



Applicant: Quanta Computer Inc.
No. 188, Wenhua 2nd Road, Guishan District, Taoyuan City
33377, Taiwan

Manufacturer: Quanta Computer Inc.
No. 188, Wenhua 2nd Road, Guishan District, Taoyuan City
33377, Taiwan

Product Name: Clover Mini, Clover Station Duo Terminal

Brand Name: Clover

Model No. /ISED HVIN: C305, C505

Model Difference: Refer to section 1.3

ISED PMN: C305, C505

Report Number: TERF2501000052E2

FCC ID HFS-C305

IC: 1787B-C305

Date of EUT Received: January 3, 2025

Date of Test: January 23, 2025~February 24, 2025

Issue Date: March 7, 2025

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
TERF2501000052E2	00	Class II permissive change for change End Front Module	March 7, 2025	Karen Huang	

Note:

- 1、The remark "*" indicates modification of the report upon requests from certification body.
- 2、Variant information of model numbers / product name is provided by the applicant, test results of this report are applicable to the sample EUT(s) received.

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1 GENERAL INFORMATION

1.1 Product Description

Product Name:	Clover Mini, Clover Station Duo Terminal
Brand Name:	Clover
Model No./ISED HVIN:	C305, C505
Hardware Version:	N/A
Firmware Version:	N/A
EUT Series No.:	C035UT44450001
Power Supply:	12V from Adapter
Test Software (Name/Version)	QRCT 4.0

1.2 Modulation & Data Rate

Modulation type:	64QAM, 16QAM, QPSK, BPSK for OFDM in 802.11a,11n
	256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM in 802.11ac
Transition Rate:	802.11 a: 6 - 54 Mbps
	802.11 n_HT20: up to 144.4 Mbps
	802.11 n_HT40: up to 300 Mbps
	802.11 ac_VHT20: up to 173.4 Mbps
	802.11 ac_VHT40: up to 400 Mbps
	802.11 ac_VHT80: up to 866.6 Mbps

1.3 Model Difference:

1. The components for printer are not mounted and there is no printer module for C505.
2. C505 doesn't have the paper compartment for printer.
3. C505 doesn't have the printer function.

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1.4 Antenna Designation

Antenna Type	Freq. (MHz)	Main / Aux	Peak Antenna Gain (dBi)	Directional Gain (dBi)
PIFA	5150~5250	Main	2.77	5.62
	5250~5350		2.45	5.20
	5470~5725		2.81	5.85
	5725~5850		3.47	6.24
	5150~5250	Aux	2.45	5.62
	5250~5350		1.92	5.20
	5470~5725		2.86	5.85
	5725~5850		2.99	6.24

Note:

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

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1.5 FCC

Wi-Fi	Frequency Range	Channels	EIRP/Avg	Rated Power(EIRP/Avg) (dBm) (Worst Case)	Modulation Technology
802.11a/ 802.11n_HT20/ 802.11ac_VHT20	5180~5240	4	Avg	16.33 dBm	OFDM
	5260~5320	4	Avg	20.39 dBm	OFDM
	5500~5720	12	Avg	20.43 dBm	OFDM
	5745-5825	5	Avg	20.37 dBm	OFDM
802.11n_HT40/ 802.11ac_VHT40	5190~5230	2	Avg	15.33 dBm	OFDM
	5270~5310	2	Avg	19.40 dBm	OFDM
	5510~5710	6	Avg	19.37 dBm	OFDM
	5755-5795	2	Avg	19.38 dBm	OFDM
802.11ac_VHT80	5210	1	Avg	15.21 dBm	OFDM
	5290	1	Avg	18.37 dBm	OFDM
	5530~5690	3	Avg	18.31 dBm	OFDM
	5775	1	Avg	18.42 dBm	OFDM

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1.6 ISED

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/ 802.11ac_VHT20	5180~5240	4	EIRP	19.10 dBm	OFDM
	5260~5320	4	Avg	20.39 dBm	OFDM
	5500~5700	11	Avg	20.43 dBm	OFDM
	5720 (U-NII 2C)	1	Avg	18.82 dBm	OFDM
	5720 (U-NII 3)	1	Avg	14.66 dBm	OFDM
	5745-5825	5	Avg	20.37 dBm	OFDM
802.11n_HT40/ 802.11ac_VHT40	5190~5230	2	EIRP	17.94 dBm	OFDM
	5270~5310	2	Avg	19.40 dBm	OFDM
	5510~5670	5	Avg	19.37 dBm	OFDM
	5710 (U-NII 2C)	1	Avg	18.63 dBm	OFDM
	5710 (U-NII 3)	1	Avg	10.44 dBm	OFDM
	5755-5795	2	Avg	19.38 dBm	OFDM
802.11ac_VHT80	5210	1	EIRP	17.83 dBm	OFDM
	5290	1	Avg	18.37 dBm	OFDM
	5530~5610	2	Avg	18.31 dBm	OFDM
	5690 (U-NII 2C)	1	Avg	17.85 dBm	OFDM
	5690 (U-NII 3)	1	Avg	7.18 dBm	OFDM
	5775	1	Avg	18.42 dBm	OFDM

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1.7 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

RSS-247 issue 3 Aug. 2023

RSS-Gen, Issue 5 April 2018, Amendment 2 (February 2021)

ANSI C63.10:2013

1.8 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 SAC 2 SAC 3 Conduction 1 Conducted 1 Conducted 2 Conducted 3 Conducted 4 Conducted 5 Conducted 6	TW0027	TW3702
	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	Conduction C SAC C SAC D SAC G Conducted A Conducted B Conducted C Conducted D Conducted E Conducted F Conducted G	TW0028	

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.

1.9 Special Accessories

There are no special accessories used while test was conducted.

1.10 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

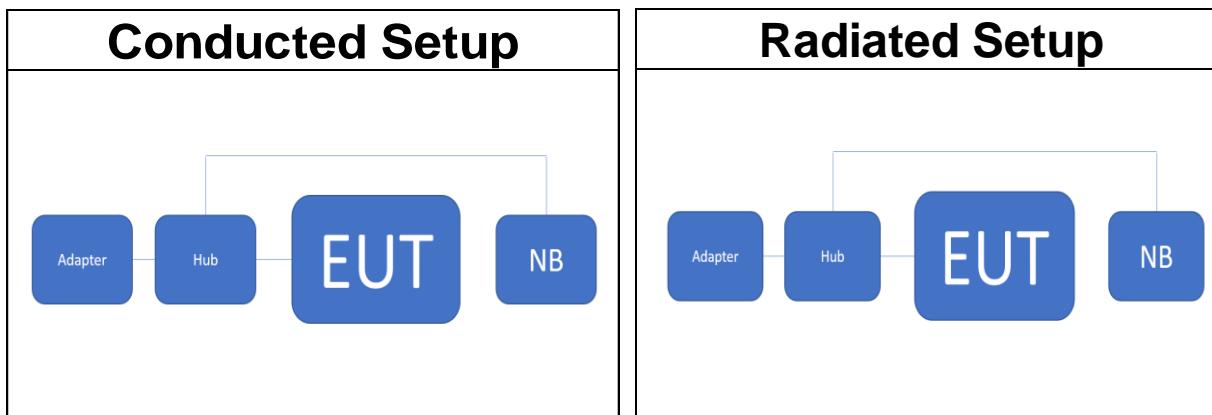
Radiated emission below 30MHz is measured in a 9m*6m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

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



2.6 Control Unit(s)

Conducted Emission Test Site: Conducted C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Type-A To Type-B Cable	POLYWELL	DCAC18-A900F9BL9	N/A	N/A	N/A
HUB	Closer	H305	H035UT44450004	N/A	N/A
Adapter	Closer	FSP040-RHBN3	FSQAG12033C0052 4183D45	N/A	N/A
Notebook	Lenovo	T14	P0003332	N/A	N/A

Radiated Emission Test Site: SAC G					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Notebook	Lenovo	L412	S0011357	N/A	N/A
Type-A To Type-B Cable	POLYWELL	DCAC18-A900F9BL9	N/A	N/A	N/A
HUB	Closer	H305	H035UT44450004	N/A	N/A
Adapter	Closer	FSP040-RHBN3	FSQAG12033C0052 4183D45	N/A	N/A

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3 SUMMARY OF TEST RESULT

FCC Rules	ISED Rules	Description Of Test	Result
§15.407(a)	RSS-247 §6.2.1~4 (1) RSS-247 §6.2.5 (2)	Maximum Conducted Output Power	Compliant
§15.205 §15.209 §15.407(b)	RSS-Gen 8.10 RSS-247 §6.2.1~3 (2) §6.2.4 (3) RSS-247 §6.2.5 (3)	Undesirable Radiated Emissions	Compliant

Note

1. *This test report is an addendum to the original test report TERF2208001389E2.*

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4 DESCRIPTION OF TEST MODES

4.1 Operating Frequencies

Operated band in 5150 MHz ~5250 MHz:

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

Operated band in 5250 MHz ~5350 MHz:

20 M		40 M		80 M	
CH	Freq (MHz)	CH	Freq (MHz)	CH	Freq (MHz)
52	5260				
56	5280				
60	5300				
64	5320				

Operated band in 5470 MHz ~5725 MHz:

20 M		40 M		80 M	
CH	Freq (MHz)	CH	Freq (MHz)	CH	Freq (MHz)
100	5500	102	5510	106	5530
104	5520	110	5550	122	5610
108	5540	118	5590	138	5690
112	5560	126	5630		
116	5580	134	5670		
120	5600	142	5710		
124	5620				
128	5640				
132	5660				
136	5680				
140	5700				
144	5720				

Note:

1. *Operating in 5600~5650MHz is prohibited in Canada.*

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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	V	Ch1		Ch2		Ch3	V	1TX
V	802.11 n	V	Ch0	V	Ch1		Ch2		Ch3		1TX
V	802.11 ac	V	Ch0	V	Ch1		Ch2		Ch3		1TX
	802.11 ax		Ch0		Ch1		Ch2		Ch3		1TX
	802.11 be		Ch0		Ch1		Ch2		Ch3		1TX
											2TX
										V	2TX
										V	2TX
											2TX
											2TX

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	Ch0
	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			
	5845~5885	169 to 177	169,173,177			
802.11n_HT20	5180~5240	36 to 48	36,44,48	OFDM	MCS0	2TX
	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			
	5845~5885	169 to 177	169,173,177			
802.11n_HT40	5190~5230	38 to 46	38,46	OFDM	MCS0	2TX
	5270~5310	54 to 62	54,62			
	5510~5710	102 to 142	102,110,134,142			
	5755~5795	151 to 159	151,159			
	5835~5875	167 to 175	167,175			
802.11ac_VHT80	5210	42	42	OFDM	MCS0	2TX
	5290	58	58			
	5530~5690	106 to 138	106,122,138			
	5775	155	155			
	5855	171	171			

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TRANSMIT RADIATED EMISSION TEST (BELOW 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11n_HT20	5745~5825	149 to 165	157	OFDM	MCS0	2TX

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	OFDM	6	Ch0
	5260~5320	52 to 64	64			
	5500~5720	100 to 144	100,140,144			
	5745~5825	149 to 165	149,165			
802.11n_HT20	5180~5240	36 to 48	36,44	OFDM	MCS0	2TX
	5260~5320	52 to 64	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	OFDM	MCS0	2TX
	5270~5310	54 to 62	62			
	5510~5710	102 to 142	102,134,142			
	5755~5795	151 to 159	151,159			
802.11ac_VHT80	5210	42	42	OFDM	MCS0	2TX
	5290	58	58			
	5530~5690	106 to 138	106,122,138			
	5775	155	155			

Note:

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

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5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 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 Conduted Measurement

Conducted Emission Test Site: Conducted C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Attenuator	Woken	WATT-218FS-10	RF18	11/14/2024	11/13/2025
Attenuator	Woken	WATT-218FS-10	RF19	11/14/2024	11/13/2025
DC Block	PASTERNACK	PE8210	RF35	11/14/2024	11/13/2025
Power Meter	Anritsu	ML2496A	1512003	09/04/2024	09/03/2025
Power Sensor	Anritsu	MA2411B	1339378	09/04/2024	09/03/2025
Power Sensor	Anritsu	MA2411B	1339379	09/04/2024	09/03/2025
Spectrum Analyzer	KEYSIGHT	N9010B	MY59071573	05/24/2024	05/23/2025
Test Software	SGS Taiwan	Radio Test Software	Ver.21	N.C.R	N.C.R

6.2 Radiated Measurement

Radiated Emission Test Site: SAC G					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
3m Site NSA	SGS	966 chamber G	N/A	03/30/2024	03/29/2025
Active Loop Antenna	COM-POWER	AL-130R	10160105	12/11/2024	12/10/2025
Broadband Antenna	SCHWARZBECK	VULB 9168	1206	01/16/2025	01/15/2026
Coaxial Cable	EMCI+Huber Suhner	EMCCFD400-NM-NM-8000+EMCCFD400-NM-NM-5000+SUCOFLEX100+EMC104-SM-SM-2000+EMC104-SM-SM-8000+EMC104-SM-SM-5000	210216+210217+84103701/15+160105+210217+210220	11/14/2024	11/13/2025
High Pass Filter	WI	WHKX10-6090-7000-17000-80SS	RF179	11/14/2024	11/13/2025
Horn Antenna	RF SPIN	DRH18-E	210105A18E	04/12/2024	04/11/2025
Horn Antenna	Schwarzbeck	BBHA9170	184	12/20/2024	12/19/2025
Lowpass Filter	Woken	EWT-56-0019	RF163	11/14/2024	11/13/2025
Pre-Amplifier	EMC Instruments	EMC118A45SE	980815	05/08/2024	05/07/2025
Pre-Amplifier	EMC Instruments	EMC330N	980781	03/13/2024	03/12/2025
Spectrum Analyzer	KEYSIGHT	N9010B	MY59071574	06/28/2024	06/27/2025
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R

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

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7 MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

7.1 Standard Applicable

7.1.1 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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7.1.2 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
	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)
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
		Fixed point-to-point	1 Watt(30dBm)	Not required	Not required
U-NII-4		Indoor AP (a channel spans 5725~5850 and 5850~5895MHz)	Not required	36dBm	Not required
		Indoor client (a channel spans 5725~5850 and 5850~5895MHz)	Not required	30dBm	Not required
		Subordinate device	Not required	36dBm	Not required
1. If transmitting antennas of directional gain greater than the antenna requirements column, the Maximum transmit power shall be reduced by the amount in dB that the directional gain of the antenna. 2. For the 10 log B, B is the 26 dB emission bandwidth.					

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7.1.3 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 $1.76 + 10 \log_{10} B$	N/A	At least 3dB below 30mW EIRP
	V Other device	200 mW or $10 + 10 \log_{10} B$ dBm	N/A	N/A
5250~5350	OEM devices installed in vehicles	30 mW or $1.76 + 10 \log_{10} B$	N/A	At least 3dB below 30mW EIRP
	V Other device	1.0 W or $17 + 10 \log_{10} B$ dBm	250 mW or $11 + 10 \log_{10} B$	EIRP >500mW, at least 6dB below 1W EIRP
	Outdoor Fixed with EIRP>200mW	-13 dBW/MHz for $0^\circ \leq \theta < 8^\circ$ -13 -0.716 (θ -8) dBW/MHz for $8^\circ \leq \theta < 40^\circ$ -35.9 -1.22 (θ -40) dBW/MHz for $40^\circ \leq \theta \leq 45^\circ$	N/A	EIRP >500mW, at least 6dB below 1W EIRP
5470-5600 and 5650-5725	V All	1.0 W or $17 + 10 \log_{10} B$ dBm	250 mW or $11 + 10 \log_{10} B$	EIRP >500mW, at least 6dB below 1W EIRP
5725~5850	V All	N/A	1 W	N/A
5850~5895MHz	Fixed outdoor access points	36dBm -21 dBW/MHz for $\theta > 30^\circ$	N/A	N/A
	Fixed outdoor client devices	30dBm	N/A	N/A
	Indoor access points	36dBm	N/A	N/A
	Indoor subordinate devices	36dBm	N/A	N/A
	Indoor client devices	30dBm	N/A	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.

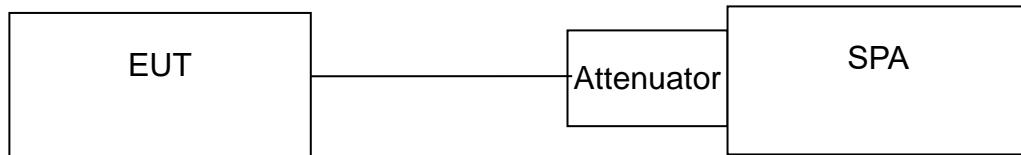
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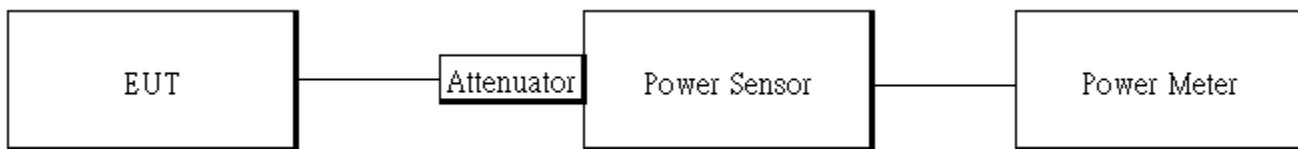
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7.2 Test Setup

7.2.1 Duty Cycle



7.2.2 Output Power



7.3 Measurement Procedure

7.3.1 Duty Cycle Measurements

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

7.3.2 Output Power Measurements

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

Note:

For U-NII1, 2A, 2C and 3 Bands, when the antenna gain is greater than 6 dBi, the power limit attenuated accordingly.

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

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

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

where

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

NSS = the number of independent spatial streams of data;

NANT = the total number of antennas

$g_{j,k}$ = 1/20 10Gk if the kth antenna is being fed by spatial stream j, or zero if it is not;
Gk is the gain in dBi of the kth antenna.

7.4 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	98.19	0.08	0.48	0.01
802.11n_20	98.06	0.09	0.52	0.01
802.11ac_20	98.07	0.08	0.52	0.01
802.11n_40	98.16	0.08	0.52	0.01
802.11ac_40	96.36	0.16	1.05	2.00
802.11ac_80	96.36	0.16	1.05	2.00

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802.11a_20MHz_Chain0_5180MHz



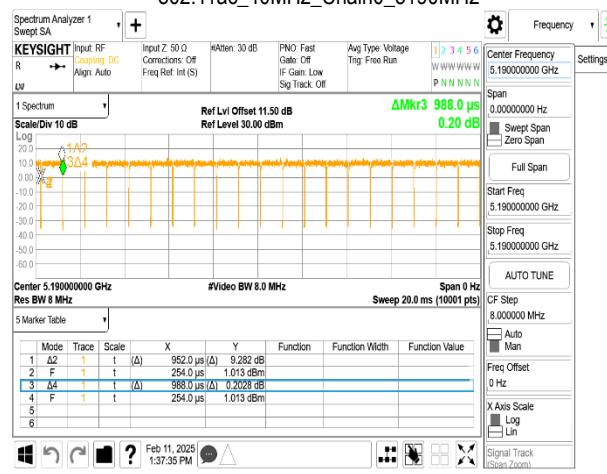
802.11ac_20MHz_Chain0_5180MHz



802.11n_20MHz_Chain0_5180MHz



802.11ac_40MHz_Chain0_5190MHz



802.11n_40MHz_Chain0_5190MHz



802.11ac_80MHz_Chain0_5210MHz



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7.5 Output Power Measurement Result

7.5.1 FCC Output power

802.11a_Ch0

CH	Frequency (MHz)	Data Rate	Power Setting	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
36	5180	6	18	42.163	16.25	23.98	PASS
44	5220	6	18	41.585	16.19	23.98	PASS
48	5240	6	18	42.947	16.33	23.98	PASS
52	5260	6	18	41.680	16.20	23.98	PASS
60	5300	6	18	42.455	16.28	23.98	PASS
64	5320	6	18	42.066	16.24	23.98	PASS
100	5500	6	18	43.344	16.37	23.98	PASS
116	5580	6	18	41.873	16.22	23.98	PASS
140	5700	6	18	42.651	16.30	23.98	PASS
144	5720(U-NII 2C)	6	18	30.244	14.81	22.91	PASS
144	5720 (U-NII 3)	6	18	10.770	10.32	30	PASS
149	5745	6	18	42.066	16.24	30	PASS
157	5785	6	18	41.969	16.23	30	PASS
165	5825	6	18	42.553	16.29	30	PASS

802.11a_Ch1

CH	Frequency (MHz)	Data Rate	Power Setting	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
36	5180	6	18	41.489	16.18	23.98	PASS
44	5220	6	18	41.014	16.13	23.98	PASS
48	5240	6	18	42.163	16.25	23.98	PASS
52	5260	6	18	40.920	16.12	23.98	PASS
60	5300	6	18	41.394	16.17	23.98	PASS
64	5320	6	18	42.455	16.28	23.98	PASS
100	5500	6	18	41.489	16.18	23.98	PASS
116	5580	6	18	41.873	16.22	23.98	PASS
140	5700	6	18	40.358	16.06	23.98	PASS
144	5720(U-NII 2C)	6	18	30.009	14.77	22.92	PASS
144	5720 (U-NII 3)	6	18	10.723	10.30	30	PASS
149	5745	6	18	41.298	16.16	30	PASS
157	5785	6	18	40.920	16.12	30	PASS
165	5825	6	18	41.585	16.19	30	PASS

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802.11n_HT20_Ch0

CH	Frequency (MHz)	Data Rate	Power Setting	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	14.5	17.002	12.31	23.98	PASS
44	5220	MCS0	14.5	16.577	12.20	23.98	PASS
48	5240	MCS0	14.5	16.730	12.24	23.98	PASS
52	5260	MCS0	18.5	43.004	16.34	23.98	PASS
60	5300	MCS0	18.5	43.703	16.41	23.98	PASS
64	5320	MCS0	18.5	43.502	16.39	23.98	PASS
100	5500	MCS0	18.5	43.103	16.35	23.98	PASS
116	5580	MCS0	18.5	43.904	16.43	23.98	PASS
140	5700	MCS0	18.5	43.302	16.37	23.98	PASS
144	5720(U-NII 2C)	MCS0	18.5	30.583	14.85	23.98	PASS
144	5720 (U-NII 3)	MCS0	18.5	11.929	10.77	30	PASS
149	5745	MCS0	18.5	42.905	16.33	30	PASS
157	5785	MCS0	18.5	43.502	16.39	30	PASS
165	5825	MCS0	18.5	43.202	16.36	30	PASS

802.11n_HT20_Ch1

CH	Frequency (MHz)	Data Rate	Power Setting	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	14.5	16.615	12.21	23.98	PASS
44	5220	MCS0	14.5	16.275	12.12	23.98	PASS
48	5240	MCS0	14.5	16.425	12.16	23.98	PASS
52	5260	MCS0	18.5	42.512	16.29	23.98	PASS
60	5300	MCS0	18.5	42.806	16.32	23.98	PASS
64	5320	MCS0	18.5	42.414	16.28	23.98	PASS
100	5500	MCS0	18.5	42.512	16.29	23.98	PASS
116	5580	MCS0	18.5	42.414	16.28	23.98	PASS
140	5700	MCS0	18.5	41.928	16.23	23.98	PASS
144	5720(U-NII 2C)	MCS0	18.5	30.093	14.78	23.98	PASS
144	5720 (U-NII 3)	MCS0	18.5	11.355	10.55	30	PASS
149	5745	MCS0	18.5	41.640	16.20	30	PASS
157	5785	MCS0	18.5	42.122	16.25	30	PASS
165	5825	MCS0	18.5	42.316	16.27	30	PASS

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802.11n_HT20_2TX

CH	Frequency (MHz)	Data Rate	Power Setting	Avg. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
36	5180	MCS0	14.5	12.31	12.18	33.503	15.25	23.98	PASS
44	5220	MCS0	14.5	12.38	12.26	34.086	15.33	23.98	PASS
48	5240	MCS0	14.5	12.35	12.22	33.813	15.29	23.98	PASS
52	5260	MCS0	19	17.34	17.18	106.319	20.27	23.98	PASS
60	5300	MCS0	19	17.42	17.27	108.418	20.35	23.98	PASS
64	5320	MCS0	19	17.45	17.31	109.294	20.39	23.98	PASS
100	5500	MCS0	19	17.39	17.22	107.429	20.31	23.98	PASS
116	5580	MCS0	19	17.48	17.37	110.426	20.43	23.98	PASS
140	5700	MCS0	18.5	17.04	16.91	99.560	19.98	23.98	PASS
144	5720(U-NII 2C)	MCS0	19	15.87	15.74	76.217	18.82	23.06	PASS
144	5720 (U-NII 3)	MCS0	19	11.79	11.51	29.251	14.66	30	PASS
149	5745	MCS0	19	17.37	17.29	108.033	20.34	30	PASS
157	5785	MCS0	19	17.34	17.25	107.167	20.30	30	PASS
165	5825	MCS0	19	17.40	17.32	108.782	20.37	30	PASS

802.11n_HT40_Ch0

CH	Frequency (MHz)	Data Rate	Power Setting	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	14	17.501	12.43	23.98	PASS
46	5230	MCS0	14	17.261	12.37	23.98	PASS
54	5270	MCS0	18	42.960	16.33	23.98	PASS
62	5310	MCS0	18	43.658	16.40	23.98	PASS
102	5510	MCS0	18	43.059	16.34	23.98	PASS
110	5550	MCS0	18	43.458	16.38	23.98	PASS
134	5670	MCS0	18	42.861	16.32	23.98	PASS
142	5710(U-NII 2C)	MCS0	18	36.744	15.65	23.98	PASS
142	5710 (U-NII 3)	MCS0	18	5.627	7.50	30	PASS
151	5755	MCS0	18	42.468	16.28	30	PASS
159	5795	MCS0	18	43.158	16.35	30	PASS

802.11n_HT40_Ch1

CH	Frequency (MHz)	Data Rate	Power Setting	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	14	17.103	12.33	23.98	PASS
46	5230	MCS0	14	16.907	12.28	23.98	PASS
54	5270	MCS0	18	41.982	16.23	23.98	PASS
62	5310	MCS0	18	42.664	16.30	23.98	PASS
102	5510	MCS0	18	42.468	16.28	23.98	PASS
110	5550	MCS0	18	42.273	16.26	23.98	PASS
134	5670	MCS0	18	41.693	16.20	23.98	PASS
142	5710(U-NII 2C)	MCS0	18	35.993	15.56	23.98	PASS
142	5710 (U-NII 3)	MCS0	18	5.413	7.33	30	PASS
151	5755	MCS0	18	41.789	16.21	30	PASS
159	5795	MCS0	18	41.886	16.22	30	PASS

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802.11n_HT40_2TX

CH	Frequency (MHz)	Data Rate	Power Setting	Avg. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
38	5190	MCS0	14	12.32	12.17	33.548	15.26	23.98	PASS
46	5230	MCS0	14	12.38	12.26	34.130	15.33	23.98	PASS
54	5270	MCS0	18	16.46	16.31	87.028	19.40	23.98	PASS
62	5310	MCS0	18	16.40	16.25	85.834	19.34	23.98	PASS
102	5510	MCS0	18	16.33	16.19	84.557	19.27	23.98	PASS
110	5550	MCS0	18	16.38	16.22	85.343	19.31	23.98	PASS
134	5670	MCS0	18	16.43	16.28	86.429	19.37	23.98	PASS
142	5710(U-NII 2C)	MCS0	18	15.68	15.56	72.992	18.63	23.98	PASS
142	5710 (U-NII 3)	MCS0	18	7.53	7.33	11.079	10.44	30	PASS
151	5755	MCS0	18	16.36	16.23	85.240	19.31	30	PASS
159	5795	MCS0	18	16.39	16.27	85.928	19.34	30	PASS

802.11ac_VHT20_Ch0

CH	Frequency (MHz)	Data Rate	Power Setting	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	14.5	17.277	12.37	23.98	PASS
44	5220	MCS0	14.5	16.922	12.28	23.98	PASS
48	5240	MCS0	14.5	17.079	12.32	23.98	PASS
52	5260	MCS0	19.5	54.133	17.33	23.98	PASS
60	5300	MCS0	19.5	53.268	17.26	23.98	PASS
64	5320	MCS0	19.5	53.761	17.30	23.98	PASS
100	5500	MCS0	19.5	52.901	17.23	23.98	PASS
116	5580	MCS0	19.5	54.383	17.35	23.98	PASS
140	5700	MCS0	19.5	54.009	17.32	23.98	PASS
144	5720(U-NII 2C)	MCS0	19.5	37.882	15.78	23.98	PASS
144	5720 (U-NII 3)	MCS0	19.5	14.776	11.70	30	PASS
149	5745	MCS0	19.5	53.145	17.25	30	PASS
157	5785	MCS0	19.5	53.514	17.28	30	PASS
165	5825	MCS0	19.5	53.023	17.24	30	PASS

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802.11ac_VHT20_Ch1

CH	Frequency (MHz)	Data Rate	Power Setting	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	14.5	16.884	12.27	23.98	PASS
44	5220	MCS0	14.5	16.537	12.18	23.98	PASS
48	5240	MCS0	14.5	16.652	12.21	23.98	PASS
52	5260	MCS0	19.5	52.416	17.19	23.98	PASS
60	5300	MCS0	19.5	52.175	17.17	23.98	PASS
64	5320	MCS0	19.5	52.537	17.20	23.98	PASS
100	5500	MCS0	19.5	51.816	17.14	23.98	PASS
116	5580	MCS0	19.5	52.658	17.21	23.98	PASS
140	5700	MCS0	19.5	53.268	17.26	23.98	PASS
144	5720(U-NII 2C)	MCS0	19.5	37.534	15.74	23.98	PASS
144	5720 (U-NII 3)	MCS0	19.5	14.163	11.51	30	PASS
149	5745	MCS0	19.5	52.295	17.18	30	PASS
157	5785	MCS0	19.5	52.537	17.20	30	PASS
165	5825	MCS0	19.5	52.055	17.16	30	PASS

802.11ac_VHT20_2TX

CH	Frequency (MHz)	Data Rate	Power Setting	Avg. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
36	5180	MCS0	14.5	12.24	12.11	33.040	15.19	23.98	PASS
44	5220	MCS0	14.5	12.28	12.18	33.460	15.25	23.98	PASS
48	5240	MCS0	14.5	12.17	12.06	32.586	15.13	23.98	PASS
52	5260	MCS0	19	17.30	17.11	105.220	20.22	23.98	PASS
60	5300	MCS0	19	17.27	17.16	105.446	20.23	23.98	PASS
64	5320	MCS0	19	17.35	17.24	107.406	20.31	23.98	PASS
100	5500	MCS0	19	17.33	17.21	106.791	20.29	23.98	PASS
116	5580	MCS0	19	17.31	17.27	107.275	20.30	23.98	PASS
140	5700	MCS0	18.5	16.90	16.76	96.505	19.85	23.98	PASS
144	5720(U-NII 2C)	MCS0	19	15.83	15.72	75.682	18.79	23.06	PASS
144	5720 (U-NII 3)	MCS0	19	11.75	11.49	29.045	14.63	30	PASS
149	5745	MCS0	19	17.31	17.22	106.664	20.28	30	PASS
157	5785	MCS0	19	17.28	17.16	105.569	20.24	30	PASS
165	5825	MCS0	19	17.33	17.21	106.791	20.29	30	PASS

802.11ac_VHT40_Ch0

CH	Frequency (MHz)	Data Rate	Power Setting	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	14	17.026	12.31	23.98	PASS
46	5230	MCS0	14	16.831	12.26	23.98	PASS
54	5270	MCS0	18	42.717	16.31	23.98	PASS
62	5310	MCS0	18	42.180	16.25	23.98	PASS
102	5510	MCS0	18	42.306	16.26	23.98	PASS
110	5550	MCS0	18	43.142	16.35	23.98	PASS
134	5670	MCS0	18	42.609	16.30	23.98	PASS
142	5710(U-NII 2C)	MCS0	18	36.815	15.66	23.98	PASS
142	5710 (U-NII 3)	MCS0	18	5.638	7.51	30	PASS
151	5755	MCS0	18	42.560	16.29	30	PASS
159	5795	MCS0	18	42.433	16.28	30	PASS

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802.11ac_VHT40_Ch1

CH	Frequency (MHz)	Data Rate	Power Setting	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	14	15.780	11.98	23.98	PASS
46	5230	MCS0	14	15.456	11.89	23.98	PASS
54	5270	MCS0	18	42.219	16.26	23.98	PASS
62	5310	MCS0	18	42.287	16.26	23.98	PASS
102	5510	MCS0	18	42.462	16.28	23.98	PASS
110	5550	MCS0	18	42.599	16.29	23.98	PASS
134	5670	MCS0	18	41.220	16.15	23.98	PASS
142	5710(U-NII 2C)	MCS0	18	36.338	15.60	23.98	PASS
142	5710 (U-NII 3)	MCS0	18	5.465	7.38	30	PASS
151	5755	MCS0	18	41.106	16.14	30	PASS
159	5795	MCS0	18	40.974	16.13	30	PASS

802.11ac_VHT40_2TX

CH	Frequency (MHz)	Data Rate	Power Setting	Avg. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
38	5190	MCS0	14	12.13	12.01	32.224	15.08	23.98	PASS
46	5230	MCS0	14	12.01	11.90	31.381	14.97	23.98	PASS
54	5270	MCS0	18	16.38	16.26	85.738	19.33	23.98	PASS
62	5310	MCS0	18	16.31	16.19	84.367	19.26	23.98	PASS
102	5510	MCS0	18	16.27	16.16	83.698	19.23	23.98	PASS
110	5550	MCS0	18	16.36	16.21	85.055	19.30	23.98	PASS
134	5670	MCS0	18	16.39	16.26	85.798	19.33	23.98	PASS
142	5710(U-NII 2C)	MCS0	18	15.61	15.47	71.628	18.55	23.98	PASS
142	5710 (U-NII 3)	MCS0	18	7.47	7.24	10.872	10.36	30	PASS
151	5755	MCS0	18	16.40	16.33	86.626	19.38	30	PASS
159	5795	MCS0	18	16.33	16.26	85.241	19.31	30	PASS

802.11ac_VHT80_Ch0

CH	Frequency (MHz)	Data Rate	Power Setting	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	14.5	17.144	12.34	23.98	PASS
58	5290	MCS0	17.5	33.815	15.29	23.98	PASS
106	5530	MCS0	17.5	34.285	15.35	23.98	PASS
122	5610	MCS0	17.5	33.582	15.26	23.98	PASS
138	5690(U-NII 2C)	MCS0	17.5	30.648	14.86	23.98	PASS
138	5690 (U-NII 3)	MCS0	17.5	2.626	4.19	30	PASS
155	5775	MCS0	17.5	34.523	15.38	30	PASS

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802.11ac_VHT80_Ch1

CH	Frequency (MHz)	Data Rate	Power Setting	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	14.5	16.753	12.24	23.98	PASS
58	5290	MCS0	17.5	32.969	15.18	23.98	PASS
106	5530	MCS0	17.5	33.351	15.23	23.98	PASS
122	5610	MCS0	17.5	32.817	15.16	23.98	PASS
138	5690(U-NII 2C)	MCS0	17.5	29.875	14.75	23.98	PASS
138	5690 (U-NII 3)	MCS0	17.5	2.567	4.09	30	PASS
155	5775	MCS0	17.5	33.582	15.26	30	PASS

802.11ac_VHT80_2TX

CH	Frequency (MHz)	Data Rate	Power Setting	Avg. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
42	5210	MCS0	14.5	12.29	12.11	33.207	15.21	23.98	PASS
58	5290	MCS0	17.5	15.41	15.31	68.732	18.37	23.98	PASS
106	5530	MCS0	17.5	15.36	15.24	67.791	18.31	23.98	PASS
122	5610	MCS0	17.5	15.34	15.19	67.251	18.28	23.98	PASS
138	5690(U-NII 2C)	MCS0	17.5	14.91	14.76	60.946	17.85	23.98	PASS
138	5690 (U-NII 3)	MCS0	17.5	4.24	4.10	5.229	7.18	30	PASS
155	5775	MCS0	17.5	15.44	15.37	69.446	18.42	30	PASS

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7.5.2 ISED Conducted output power and EIRP

802.11a_Ch0

CH	Frequency (MHz)	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
52	5260	41.680	16.20	23.98	PASS
60	5300	42.455	16.28	23.98	PASS
64	5320	42.066	16.24	23.98	PASS
100	5500	43.344	16.37	23.98	PASS
116	5580	41.873	16.22	23.98	PASS
140	5700	42.651	16.30	23.98	PASS
144	5720(U-NII 2C)	30.244	14.81	23.98	PASS
144	5720 (U-NII 3)	10.770	10.32	30	PASS
149	5745	42.066	16.24	30	PASS
157	5785	41.969	16.23	30	PASS
165	5825	42.553	16.29	30	PASS

802.11a_Ch1

CH	Frequency (MHz)	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
52	5260	40.920	16.12	23.98	PASS
60	5300	41.394	16.17	23.98	PASS
64	5320	42.455	16.28	23.98	PASS
100	5500	41.489	16.18	23.98	PASS
116	5580	41.873	16.22	23.98	PASS
140	5700	40.358	16.06	23.98	PASS
144	5720(U-NII 2C)	30.009	14.77	23.98	PASS
144	5720 (U-NII 3)	10.723	10.30	30	PASS
149	5745	41.298	16.16	30	PASS
157	5785	40.920	16.12	30	PASS
165	5825	41.585	16.19	30	PASS

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802.11n_HT20_Ch0

CH	Frequency (MHz)	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
52	5260	43.004	16.34	23.98	PASS
60	5300	43.703	16.41	23.98	PASS
64	5320	43.502	16.39	23.98	PASS
100	5500	43.103	16.35	23.98	PASS
116	5580	43.904	16.43	23.98	PASS
140	5700	43.302	16.37	23.98	PASS
144	5720(U-NII 2C)	30.583	14.85	22.41	PASS
144	5720 (U-NII 3)	11.929	10.77	30	PASS
149	5745	42.905	16.33	30	PASS
157	5785	43.502	16.39	30	PASS
165	5825	43.202	16.36	30	PASS

802.11n_HT20_Ch1

CH	Frequency (MHz)	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
52	5260	42.512	16.29	23.98	PASS
60	5300	42.806	16.32	23.98	PASS
64	5320	42.414	16.28	23.98	PASS
100	5500	42.512	16.29	23.98	PASS
116	5580	42.414	16.28	23.98	PASS
140	5700	41.928	16.23	23.98	PASS
144	5720(U-NII 2C)	30.093	14.78	22.42	PASS
144	5720 (U-NII 3)	11.355	10.55	30	PASS
149	5745	41.640	16.20	30	PASS
157	5785	42.122	16.25	30	PASS
165	5825	42.316	16.27	30	PASS

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802.11n_HT20_2TX

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
		Ch0	Ch1				
52	5260	17.34	17.18	106.319	20.27	23.98	PASS
60	5300	17.42	17.27	108.418	20.35	23.98	PASS
64	5320	17.45	17.31	109.294	20.39	23.98	PASS
100	5500	17.39	17.22	107.429	20.31	23.98	PASS
116	5580	17.48	17.37	110.426	20.43	23.98	PASS
140	5700	17.04	16.91	99.560	19.98	23.98	PASS
144	5720(U-NII 2C)	15.87	15.74	76.217	18.82	22.41	PASS
144	5720 (U-NII 3)	11.79	11.51	29.251	14.66	30	PASS
149	5745	17.37	17.29	108.033	20.34	30	PASS
157	5785	17.34	17.25	107.167	20.30	30	PASS
165	5825	17.40	17.32	108.782	20.37	30	PASS

802.11n_HT40_Ch0

CH	Frequency (MHz)	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
54	5270	42.960	16.33	23.98	PASS
62	5310	43.658	16.40	23.98	PASS
102	5510	43.059	16.34	23.98	PASS
110	5550	43.458	16.38	23.98	PASS
134	5670	42.861	16.32	23.98	PASS
142	5710(U-NII 2C)	36.744	15.65	23.98	PASS
142	5710 (U-NII 3)	5.627	7.50	30	PASS
151	5755	42.468	16.28	30	PASS
159	5795	43.158	16.35	30	PASS

802.11n_HT40_Ch1

CH	Frequency (MHz)	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
54	5270	41.982	16.23	23.98	PASS
62	5310	42.664	16.30	23.98	PASS
102	5510	42.468	16.28	23.98	PASS
110	5550	42.273	16.26	23.98	PASS
134	5670	41.693	16.20	23.98	PASS
142	5710(U-NII 2C)	35.993	15.56	23.98	PASS
142	5710 (U-NII 3)	5.413	7.33	30	PASS
151	5755	41.789	16.21	30	PASS
159	5795	41.886	16.22	30	PASS

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802.11n_HT40_2TX

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
		Ch0	Ch1				
54	5270	16.46	16.31	87.028	19.40	23.98	PASS
62	5310	16.40	16.25	85.834	19.34	23.98	PASS
102	5510	16.33	16.19	84.557	19.27	23.98	PASS
110	5550	16.38	16.22	85.343	19.31	23.98	PASS
134	5670	16.43	16.28	86.429	19.37	23.98	PASS
142	5710(U-NII 2C)	15.68	15.56	72.992	18.63	23.98	PASS
142	5710 (U-NII 3)	7.53	7.33	11.079	10.44	30	PASS
151	5755	16.36	16.23	85.240	19.31	30	PASS
159	5795	16.39	16.27	85.928	19.34	30	PASS

802.11ac_VHT20_Ch0

CH	Frequency (MHz)	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
52	5260	54.133	17.33	23.98	PASS
60	5300	53.268	17.26	23.98	PASS
64	5320	53.761	17.30	23.98	PASS
100	5500	52.901	17.23	23.98	PASS
116	5580	54.383	17.35	23.98	PASS
140	5700	54.009	17.32	23.98	PASS
144	5720(U-NII 2C)	37.882	15.78	22.41	PASS
144	5720 (U-NII 3)	14.776	11.70	30	PASS
149	5745	53.145	17.25	30	PASS
157	5785	53.514	17.28	30	PASS
165	5825	53.023	17.24	30	PASS

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802.11ac_VHT20_Ch1

CH	Frequency (MHz)	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
52	5260	52.416	17.19	23.98	PASS
60	5300	52.175	17.17	23.98	PASS
64	5320	52.537	17.20	23.98	PASS
100	5500	51.816	17.14	23.98	PASS
116	5580	52.658	17.21	23.98	PASS
140	5700	53.268	17.26	23.98	PASS
144	5720(U-NII 2C)	37.534	15.74	22.42	PASS
144	5720 (U-NII 3)	14.163	11.51	30	PASS
149	5745	52.295	17.18	30	PASS
157	5785	52.537	17.20	30	PASS
165	5825	52.055	17.16	30	PASS

802.11ac_VHT20_2TX

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
		Ch0	Ch1				
52	5260	17.30	17.11	105.220	20.22	23.98	PASS
60	5300	17.27	17.16	105.446	20.23	23.98	PASS
64	5320	17.35	17.24	107.406	20.31	23.98	PASS
100	5500	17.33	17.21	106.791	20.29	23.98	PASS
116	5580	17.31	17.27	107.275	20.30	23.98	PASS
140	5700	16.90	16.76	96.505	19.85	23.98	PASS
144	5720(U-NII 2C)	15.83	15.72	75.682	18.79	22.41	PASS
144	5720 (U-NII 3)	11.75	11.49	29.045	14.63	30	PASS
149	5745	17.31	17.22	106.664	20.28	30	PASS
157	5785	17.28	17.16	105.569	20.24	30	PASS
165	5825	17.33	17.21	106.791	20.29	30	PASS

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802.11ac_VHT40_Ch0

CH	Frequency (MHz)	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
54	5270	42.717	16.31	23.98	PASS
62	5310	42.180	16.25	23.98	PASS
102	5510	42.306	16.26	23.98	PASS
110	5550	43.142	16.35	23.98	PASS
134	5670	42.609	16.30	23.98	PASS
142	5710(U-NII 2C)	36.815	15.66	23.98	PASS
142	5710 (U-NII 3)	5.638	7.51	30	PASS
151	5755	42.560	16.29	30	PASS
159	5795	42.433	16.28	30	PASS

802.11ac_VHT40_Ch1

CH	Frequency (MHz)	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
54	5270	42.219	16.26	23.98	PASS
62	5310	42.287	16.26	23.98	PASS
102	5510	42.462	16.28	23.98	PASS
110	5550	42.599	16.29	23.98	PASS
134	5670	41.220	16.15	23.98	PASS
142	5710(U-NII 2C)	36.338	15.60	23.98	PASS
142	5710 (U-NII 3)	5.465	7.38	30	PASS
151	5755	41.106	16.14	30	PASS
159	5795	40.974	16.13	30	PASS

802.11ac_VHT40_2TX

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
		Ch0	Ch1				
54	5270	16.38	16.26	85.738	19.33	23.98	PASS
62	5310	16.31	16.19	84.367	19.26	23.98	PASS
102	5510	16.27	16.16	83.698	19.23	23.98	PASS
110	5550	16.36	16.21	85.055	19.30	23.98	PASS
134	5670	16.39	16.26	85.798	19.33	23.98	PASS
142	5710(U-NII 2C)	15.61	15.47	71.628	18.55	23.98	PASS
142	5710 (U-NII 3)	7.47	7.24	10.872	10.36	30	PASS
151	5755	16.40	16.33	86.626	19.38	30	PASS
159	5795	16.33	16.26	85.241	19.31	30	PASS

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802.11ac_VHT80_Ch0

CH	Frequency (MHz)	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
58	5290	33.815	15.29	23.98	PASS
106	5530	34.285	15.35	23.98	PASS
122	5610	33.582	15.26	23.98	PASS
138	5690(U-NII 2C)	30.648	14.86	23.98	PASS
138	5690 (U-NII 3)	2.626	4.19	30	PASS
155	5775	34.523	15.38	30	PASS

802.11ac_VHT80_Ch1

CH	Frequency (MHz)	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
58	5290	32.969	15.18	23.98	PASS
106	5530	33.351	15.23	23.98	PASS
122	5610	32.817	15.16	23.98	PASS
138	5690(U-NII 2C)	29.875	14.75	23.98	PASS
138	5690 (U-NII 3)	2.567	4.09	30	PASS
155	5775	33.582	15.26	30	PASS

802.11ac_VHT80_2TX

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
		Ch0	Ch1				
58	5290	15.41	15.31	68.732	18.37	23.98	PASS
106	5530	15.36	15.24	67.791	18.31	23.98	PASS
122	5610	15.34	15.19	67.251	18.28	23.98	PASS
138	5690(U-NII 2C)	14.91	14.76	60.946	17.85	23.98	PASS
138	5690 (U-NII 3)	4.24	4.10	5.229	7.18	30	PASS
155	5775	15.44	15.37	69.446	18.42	30	PASS

802.11a_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	REQUIRED LIMIT (dBm)	RESULT
36	5180	16.25	2.77	79.799	19.02	23.01	PASS
44	5220	16.19	2.77	78.705	18.96	23.01	PASS
48	5240	16.33	2.77	81.283	19.10	23.01	PASS
52	5260	16.20	2.45	73.282	18.65	30	PASS
60	5300	16.28	2.45	74.645	18.73	30	PASS
64	5320	16.24	2.45	73.961	18.69	30	PASS
100	5500	16.37	2.81	82.794	19.18	30	PASS
116	5580	16.22	2.81	79.983	19.03	30	PASS
140	5700	16.30	2.81	81.470	19.11	30	PASS

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802.11a_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	REQUIRED LIMIT (dBm)	RESULT
36	5180	16.18	2.45	72.946	18.63	23.01	PASS
44	5220	16.13	2.45	72.111	18.58	23.01	PASS
48	5240	16.25	2.45	74.131	18.70	23.01	PASS
52	5260	16.12	1.92	63.680	18.04	30	PASS
60	5300	16.17	1.92	64.417	18.09	30	PASS
64	5320	16.28	1.92	66.069	18.20	30	PASS
100	5500	16.18	2.86	80.168	19.04	30	PASS
116	5580	16.22	2.86	80.910	19.08	30	PASS
140	5700	16.06	2.86	77.983	18.92	30	PASS

802.11n_HT20_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	REQUIRED LIMIT (dBm)	RESULT
36	5180	12.31	2.77	32.211	15.08	23.01	PASS
44	5220	12.20	2.77	31.405	14.97	23.01	PASS
48	5240	12.24	2.77	31.696	15.01	23.01	PASS
52	5260	16.34	2.45	75.683	18.79	30	PASS
60	5300	16.41	2.45	76.913	18.86	30	PASS
64	5320	16.39	2.45	76.560	18.84	30	PASS
100	5500	16.35	2.81	82.414	19.16	30	PASS
116	5580	16.43	2.81	83.946	19.24	30	PASS
140	5700	16.37	2.81	82.794	19.18	30	PASS

802.11n_HT20_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	REQUIRED LIMIT (dBm)	RESULT
36	5180	12.21	2.45	29.242	14.66	23.01	PASS
44	5220	12.12	2.45	28.642	14.57	23.01	PASS
48	5240	12.16	2.45	28.907	14.61	23.01	PASS
52	5260	16.29	1.92	66.222	18.21	30	PASS
60	5300	16.32	1.92	66.681	18.24	30	PASS
64	5320	16.28	1.92	66.069	18.20	30	PASS
100	5500	16.29	2.86	82.224	19.15	30	PASS
116	5580	16.28	2.86	82.035	19.14	30	PASS
140	5700	16.23	2.86	81.096	19.09	30	PASS

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802.11n_HT20_2TX

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	REQUIRED LIMIT (dBm)	RESULT
36	5180	15.25	2.61	61.094	17.86	23.01	PASS
44	5220	15.33	2.61	62.230	17.94	23.01	PASS
48	5240	15.29	2.61	61.660	17.90	23.01	PASS
52	5260	20.27	2.19	176.198	22.46	30	PASS
60	5300	20.35	2.19	179.473	22.54	30	PASS
64	5320	20.39	2.19	181.134	22.58	30	PASS
100	5500	20.31	2.84	206.538	23.15	30	PASS
116	5580	20.43	2.84	212.324	23.27	30	PASS
140	5700	19.98	2.84	191.426	22.82	30	PASS

802.11n_HT40_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	REQUIRED LIMIT (dBm)	RESULT
38	5190	12.43	2.77	33.113	15.20	23.01	PASS
46	5230	12.37	2.77	32.659	15.14	23.01	PASS
54	5270	16.33	2.45	75.509	18.78	30	PASS
62	5310	16.40	2.45	76.736	18.85	30	PASS
102	5510	16.34	2.81	82.224	19.15	30	PASS
110	5550	16.38	2.81	82.985	19.19	30	PASS
134	5670	16.32	2.81	81.846	19.13	30	PASS

802.11n_HT40_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	REQUIRED LIMIT (dBm)	RESULT
38	5190	12.33	2.45	30.061	14.78	23.01	PASS
46	5230	12.28	2.45	29.717	14.73	23.01	PASS
54	5270	16.23	1.92	65.313	18.15	30	PASS
62	5310	16.30	1.92	66.374	18.22	30	PASS
102	5510	16.28	2.86	82.035	19.14	30	PASS
110	5550	16.26	2.86	81.658	19.12	30	PASS
134	5670	16.20	2.86	80.538	19.06	30	PASS

802.11n_HT40_2TX

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	REQUIRED LIMIT (dBm)	RESULT
38	5190	15.26	2.61	61.235	17.87	23.01	PASS
46	5230	15.33	2.61	62.230	17.94	23.01	PASS
54	5270	19.40	2.19	144.212	21.59	30	PASS
62	5310	19.34	2.19	142.233	21.53	30	PASS
102	5510	19.27	2.84	162.555	22.11	30	PASS
110	5550	19.31	2.84	164.059	22.15	30	PASS
134	5670	19.37	2.84	165.959	22.20	30	PASS

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802.11ac_VHT20_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	REQUIRED LIMIT (dBm)	RESULT
36	5180	12.37	2.77	32.659	15.14	23.01	PASS
44	5220	12.28	2.77	31.989	15.05	23.01	PASS
48	5240	12.32	2.77	32.285	15.09	23.01	PASS
52	5260	17.33	2.45	95.060	19.78	30	PASS
60	5300	17.26	2.45	93.541	19.71	30	PASS
64	5320	17.30	2.45	94.406	19.75	30	PASS
100	5500	17.23	2.81	100.925	20.04	30	PASS
116	5580	17.35	2.81	103.753	20.16	30	PASS
140	5700	17.32	2.81	103.039	20.13	30	PASS

802.11ac_VHT20_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	REQUIRED LIMIT (dBm)	RESULT
36	5180	12.27	2.45	29.648	14.72	23.01	PASS
44	5220	12.18	2.45	29.040	14.63	23.01	PASS
48	5240	12.21	2.45	29.242	14.66	23.01	PASS
52	5260	17.19	1.92	81.470	19.11	30	PASS
60	5300	17.17	1.92	81.096	19.09	30	PASS
64	5320	17.20	1.92	81.658	19.12	30	PASS
100	5500	17.14	2.86	100.000	20.00	30	PASS
116	5580	17.21	2.86	101.625	20.07	30	PASS
140	5700	17.26	2.86	102.802	20.12	30	PASS

802.11ac_VHT20_2TX

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	REQUIRED LIMIT (dBm)	RESULT
36	5180	15.19	2.61	60.256	17.80	23.01	PASS
44	5220	15.25	2.61	61.094	17.86	23.01	PASS
48	5240	15.13	2.61	59.429	17.74	23.01	PASS
52	5260	20.22	2.19	174.181	22.41	30	PASS
60	5300	20.23	2.19	174.582	22.42	30	PASS
64	5320	20.31	2.19	177.828	22.50	30	PASS
100	5500	20.29	2.84	205.116	23.12	30	PASS
116	5580	20.30	2.84	206.063	23.14	30	PASS
140	5700	19.85	2.84	185.353	22.68	30	PASS

802.11ac_VHT40_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	REQUIRED LIMIT (dBm)	RESULT
38	5190	12.31	2.77	32.211	15.08	23.01	PASS
46	5230	12.26	2.77	31.842	15.03	23.01	PASS
54	5270	16.31	2.45	75.162	18.76	30	PASS
62	5310	16.25	2.45	74.131	18.70	30	PASS
102	5510	16.26	2.81	80.724	19.07	30	PASS
110	5550	16.35	2.81	82.414	19.16	30	PASS
134	5670	16.30	2.81	81.470	19.11	30	PASS

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802.11ac_VHT40_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	REQUIRED LIMIT (dBm)	RESULT
38	5190	11.98	2.45	27.733	14.43	23.01	PASS
46	5230	11.89	2.45	27.164	14.34	23.01	PASS
54	5270	16.26	1.92	65.766	18.18	30	PASS
62	5310	16.26	1.92	65.766	18.18	30	PASS
102	5510	16.28	2.86	82.035	19.14	30	PASS
110	5550	16.29	2.86	82.224	19.15	30	PASS
134	5670	16.15	2.86	79.616	19.01	30	PASS

802.11ac_VHT40_2TX

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	REQUIRED LIMIT (dBm)	RESULT
38	5190	15.08	2.61	58.749	17.69	23.01	PASS
46	5230	14.97	2.61	57.280	17.58	23.01	PASS
54	5270	19.33	2.19	141.906	21.52	30	PASS
62	5310	19.26	2.19	139.637	21.45	30	PASS
102	5510	19.23	2.84	160.694	22.06	30	PASS
110	5550	19.30	2.84	163.305	22.13	30	PASS
134	5670	19.33	2.84	164.816	22.17	30	PASS

802.11ac_VHT80_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	REQUIRED LIMIT (dBm)	RESULT
42	5210	12.34	2.77	32.434	15.11	23.01	PASS
58	5290	15.29	2.45	59.429	17.74	30	PASS
106	5530	15.35	2.81	65.464	18.16	30	PASS
122	5610	15.26	2.81	64.121	18.07	30	PASS

802.11ac_VHT80_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	REQUIRED LIMIT (dBm)	RESULT
42	5210	12.24	2.45	29.444	14.69	23.01	PASS
58	5290	15.18	1.92	51.286	17.10	30	PASS
106	5530	15.23	2.86	64.417	18.09	30	PASS
122	5610	15.16	2.86	63.387	18.02	30	PASS

802.11ac_VHT80_2TX

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	REQUIRED LIMIT (dBm)	RESULT
42	5210	15.21	2.61	60.674	17.83	23.01	PASS
58	5290	18.37	2.19	113.763	20.56	30	PASS
106	5530	18.31	2.84	130.317	21.15	30	PASS
122	5610	18.28	2.84	129.122	21.11	30	PASS

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8 UNDESIRABLE RADIATED EMISSION MEASUREMENT

8.1 Standard Applicable

$EIRP = ((E^2 d)^{1/2}) / 30$, where E is the field strength in V/m , d is the measurement distance (3m), $EIRP$ is the equivalent isotropically radiated power in Watts.

8.1.1 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	$f \leq 5150$ $f \geq 5350$	PK: -27	PK: 68.2
15.407(b)(2) RSS-247 §6.2.2.2	5250~5350	$f \leq 5470$ $f \geq 5725$		
15.407(b)(3) RSS-247 §6.2.3.2	5475~5725	at 75 MHz or more above or below the band edge	PK:-27	PK: 68.2
15.407(b)(4)(i) RSS-247 §6.2.4.3	5725~5850	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

8.1.2 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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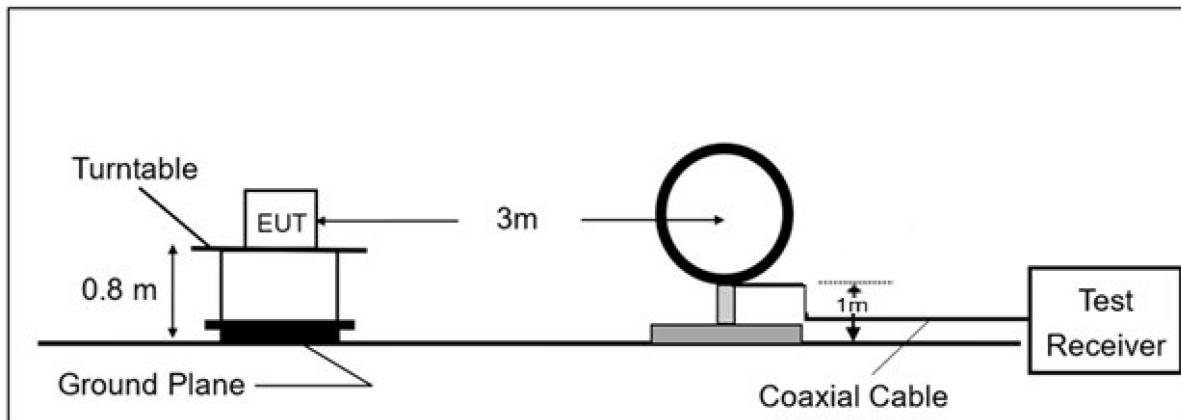
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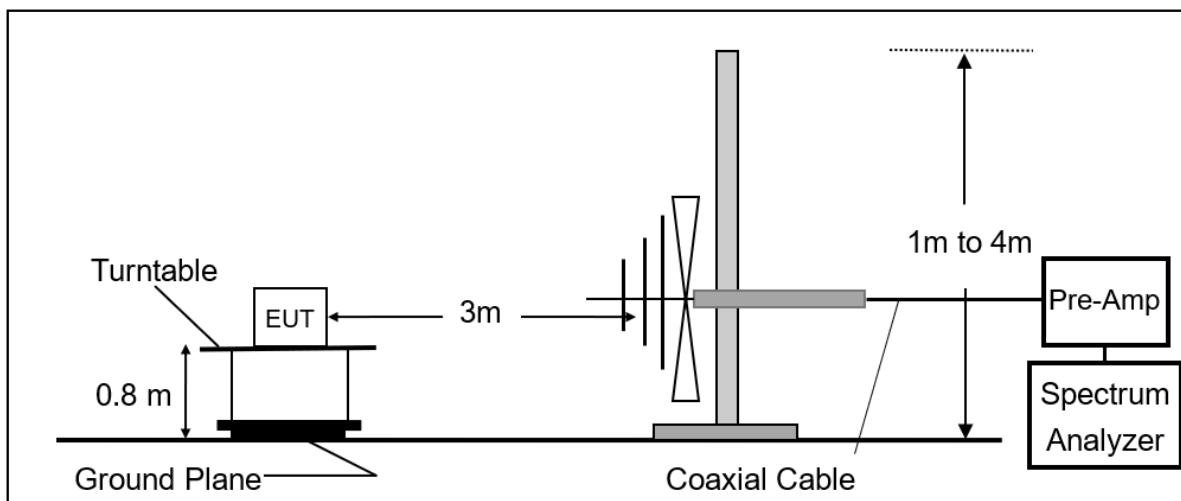
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8.2 Test Setup

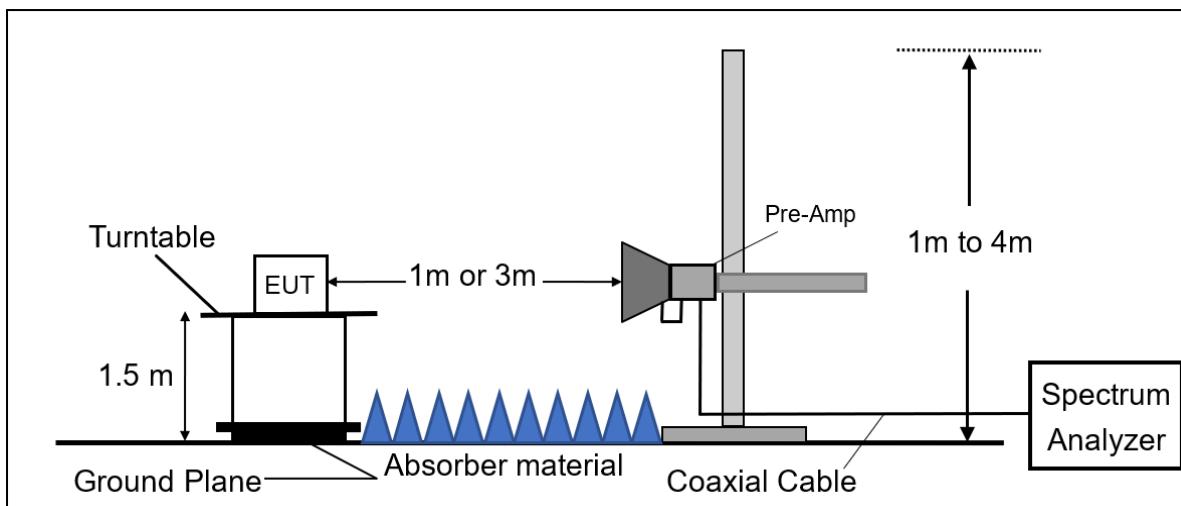
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



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



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



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8.3 Measurement Procedure

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

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8.4 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 $dB_{\mu}V/m$, which converts $20 * \log(uV/m)$

Actual $FS(dB_{\mu}V/m)$ = SPA. Reading level($dB_{\mu}V$) + Factor(dB)

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

8.5 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.

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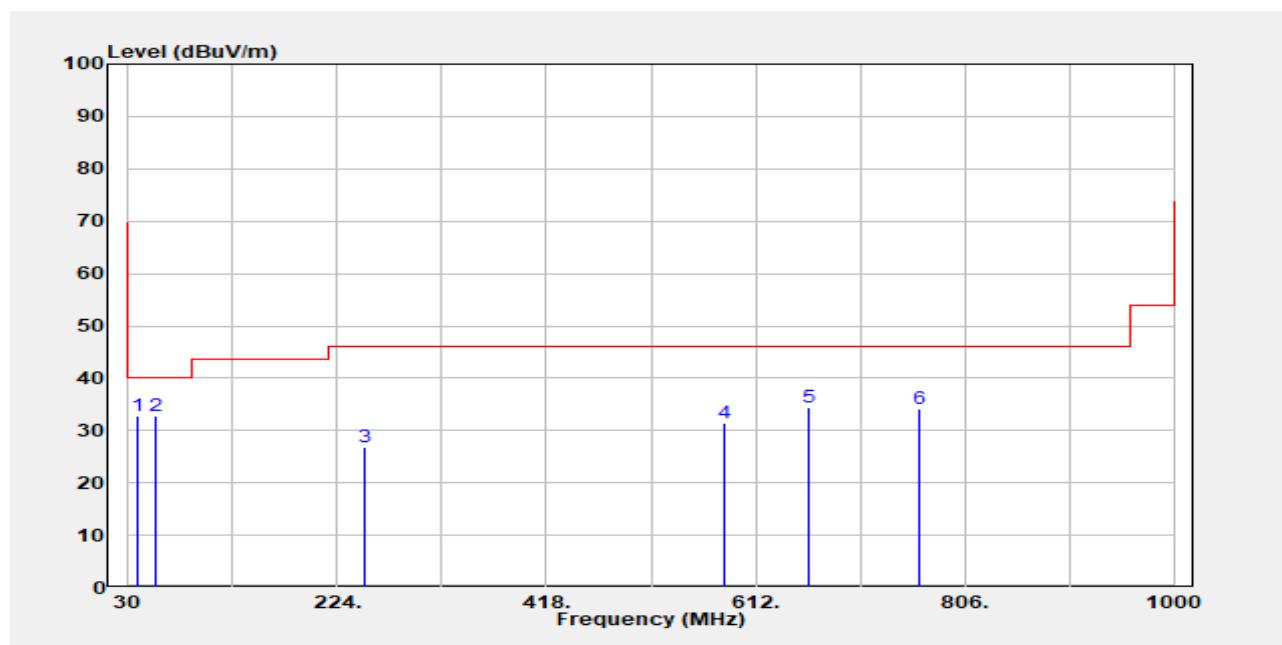
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8.6 Radiated Spurious Emission Measurement Result

8.6.1 Spurious Emission

Model: C305

Report Number	:TERF2501000052E2	Test Site	:SAC G Chamber
Operation Mode	:802.11n20	Test Date	:2025-02-23
Test Frequency	:5785 MHz	Temp./Humi.	:21.8°C/54%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Temo Chen



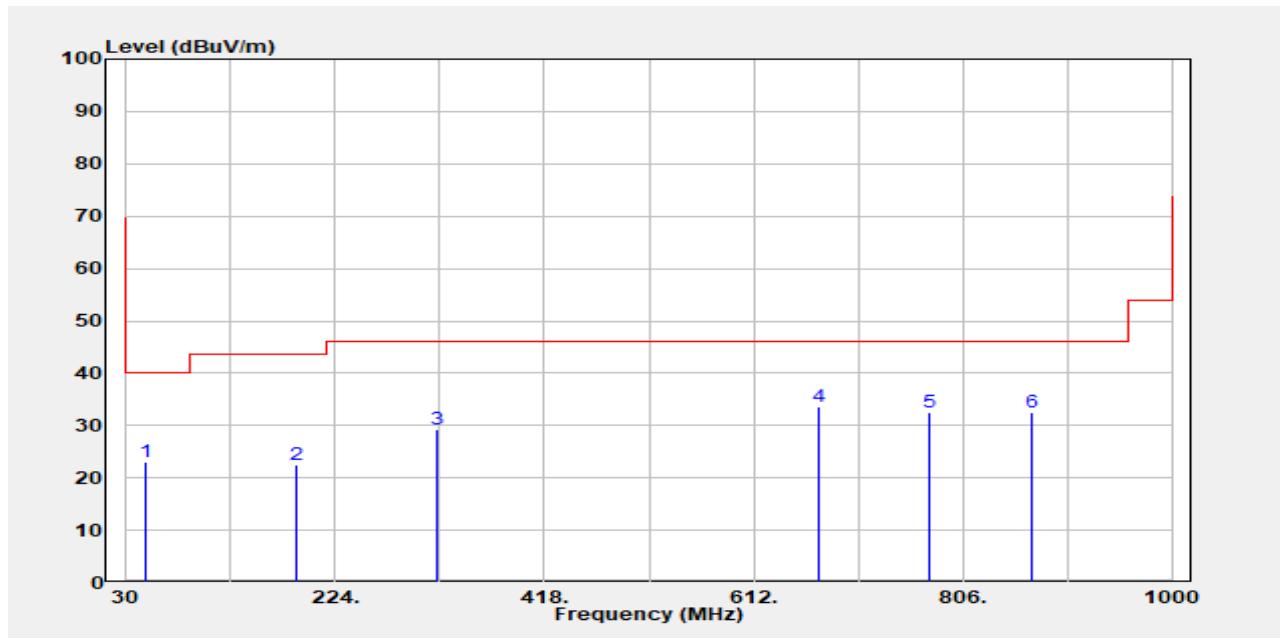
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
37.76	Peak	46.62	-13.87	32.75	40.00	-7.25
56.19	Peak	45.57	-12.68	32.89	40.00	-7.11
250.19	Peak	40.80	-13.88	26.92	46.00	-19.08
582.90	Peak	36.85	-5.48	31.37	46.00	-14.63
661.47	Peak	38.16	-3.86	34.30	46.00	-11.70
763.32	Peak	35.94	-1.87	34.07	46.00	-11.93

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Report Number :TERF2501000052E2 Test Site :SAC G Chamber
Operation Mode :802.11n20 Test Date :2025-02-23
Test Frequency :5785 MHz Temp./Humi. :21.8°C/54%
Test Mode :Tx Antenna Pol. :Horizontal
EUT Pol :E2 Plane Engineer :Temo Chen



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
48.43	Peak	35.59	-12.68	22.91	40.00	-17.09
187.14	Peak	37.70	-15.13	22.57	43.50	-20.93
318.09	Peak	40.51	-11.31	29.20	46.00	-16.80
673.11	Peak	37.26	-3.74	33.52	46.00	-12.48
775.93	Peak	34.13	-1.72	32.41	46.00	-13.59
870.02	Peak	33.22	-0.77	32.45	46.00	-13.55

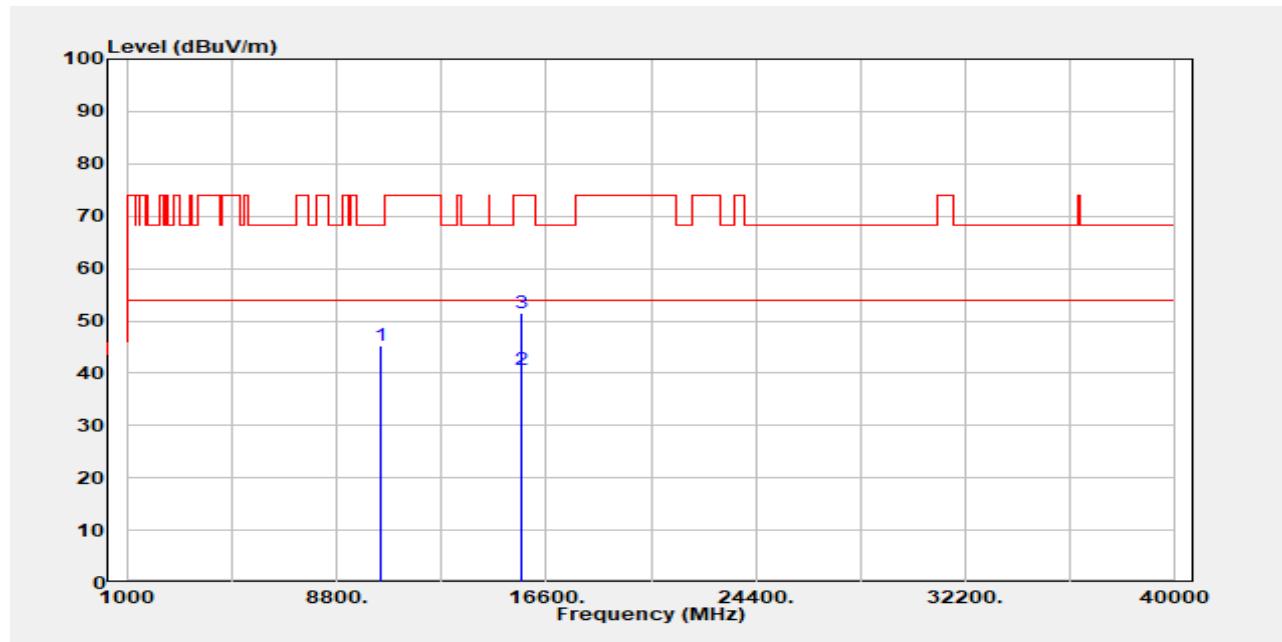
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Report Number :TERF2501000052E2
Operation Mode :802.11n20
Test Frequency :5220 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC G Chamber
Test Date :2025-02-21
Temp./Humi. :21.8°C/54%
Antenna Pol. :Vertical
Engineer :Temo Chen



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
10440.00	Peak	35.84	9.38	45.22	68.20	-22.98
15660.00	Average	26.63	14.02	40.65	54.00	-13.35
15660.00	Peak	37.43	14.02	51.45	74.00	-22.55

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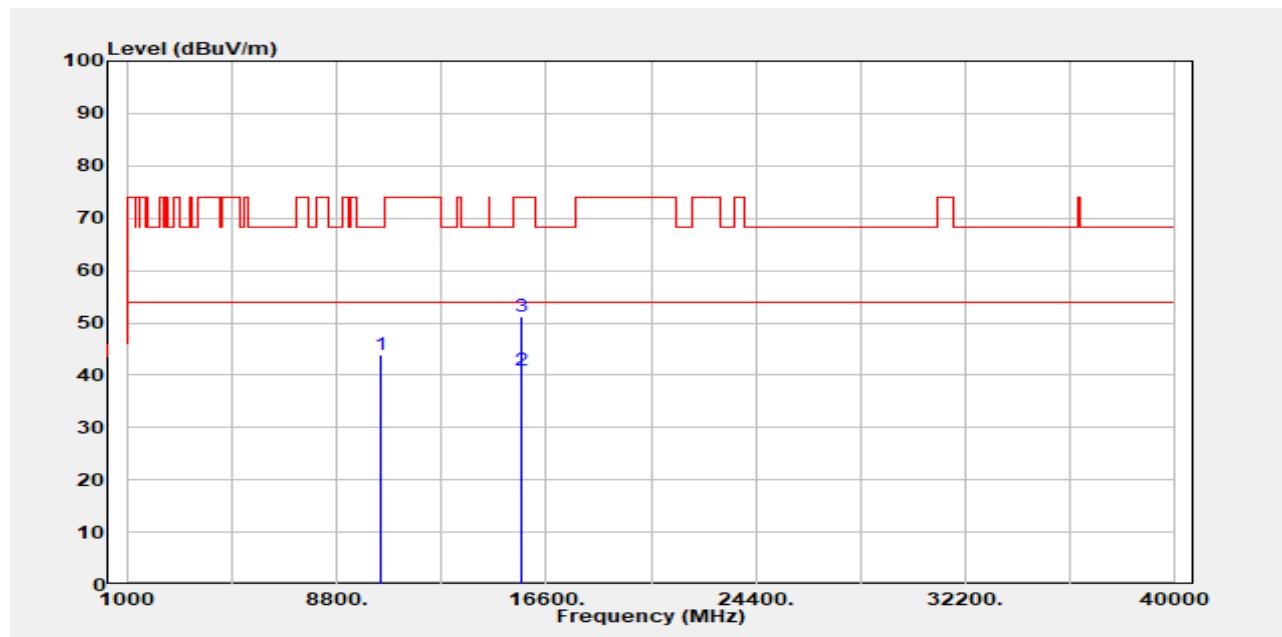
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Report Number :TERF2501000052E2
Operation Mode :802.11n20
Test Frequency :5220 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC G Chamber
Test Date :2025-02-21
Temp./Humi. :21.8°C/54%
Antenna Pol. :Horizontal
Engineer :Temo Chen



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
10440.00	Peak	34.44	9.38	43.82	68.20	-24.38
15660.00	Average	26.84	14.02	40.86	54.00	-13.14
15660.00	Peak	37.08	14.02	51.10	74.00	-22.90

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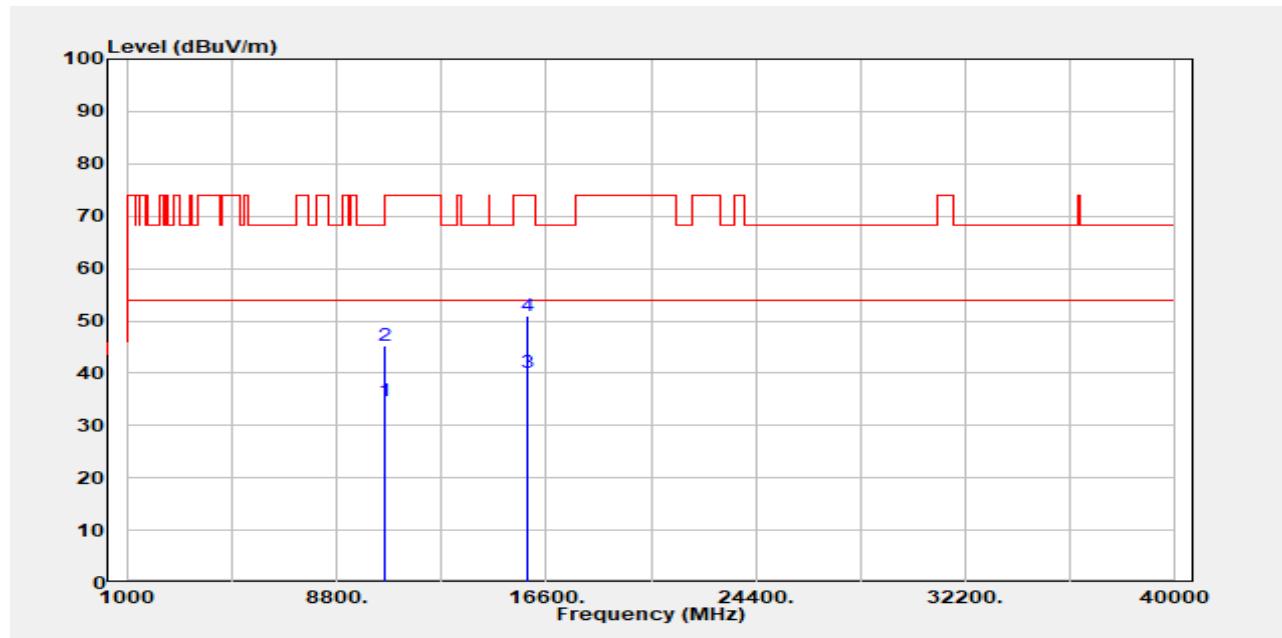
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Report Number :TERF2501000052E2
Operation Mode :802.11n20
Test Frequency :5300 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC G Chamber
Test Date :2025-02-21
Temp./Humi. :21.8°C/54%
Antenna Pol. :Vertical
Engineer :Temo Chen



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
10600.00	Average	25.59	9.11	34.70	54.00	-19.30
10600.00	Peak	36.06	9.11	45.17	74.00	-28.83
15900.00	Average	25.73	14.27	40.00	54.00	-14.00
15900.00	Peak	36.57	14.27	50.84	74.00	-23.16

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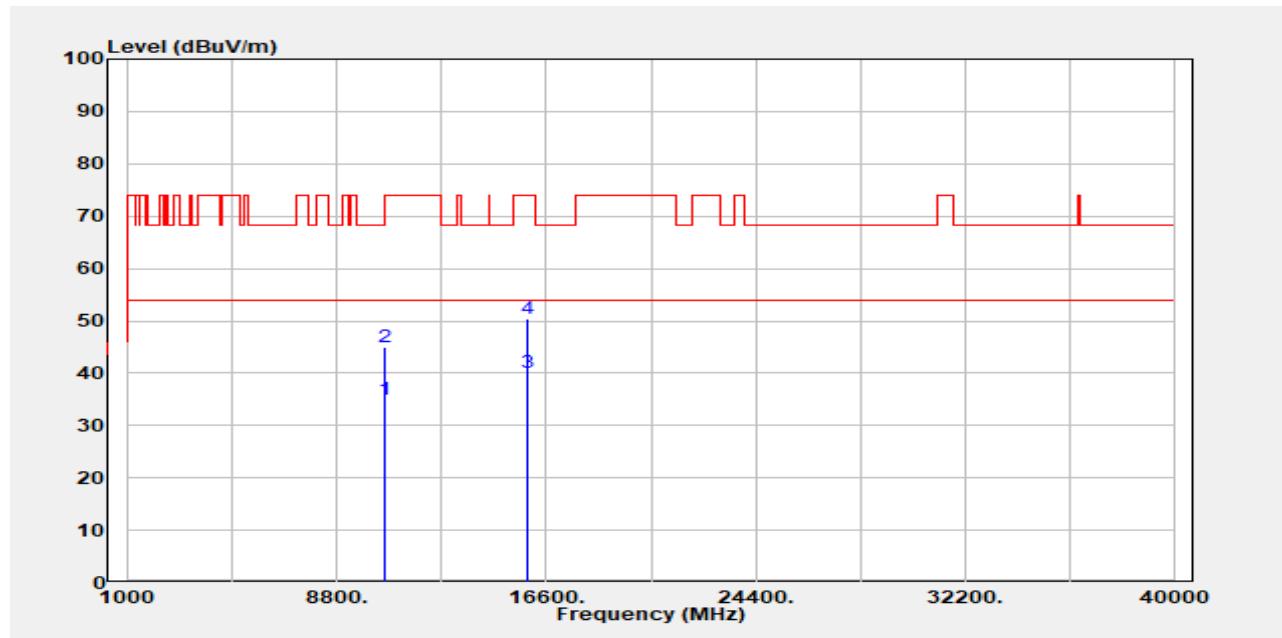
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Report Number :TERF2501000052E2
Operation Mode :802.11n20
Test Frequency :5300 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC G Chamber
Test Date :2025-02-21
Temp./Humi. :21.8°C/54%
Antenna Pol. :Horizontal
Engineer :Temo Chen



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
10600.00	Average	25.75	9.11	34.86	54.00	-19.14
10600.00	Peak	35.96	9.11	45.07	74.00	-28.93
15900.00	Average	25.93	14.27	40.20	54.00	-13.80
15900.00	Peak	36.22	14.27	50.49	74.00	-23.51

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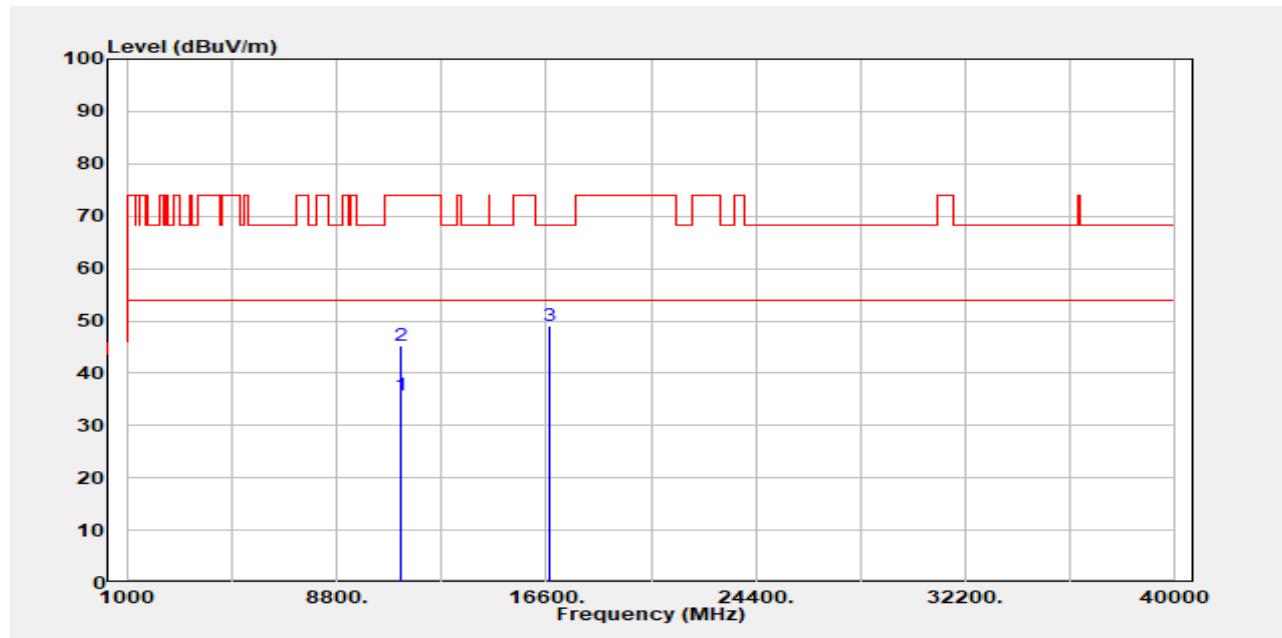
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Report Number :TERF2501000052E2
Operation Mode :802.11n20
Test Frequency :5580 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC G Chamber
Test Date :2025-02-21
Temp./Humi. :21.8°C/54%
Antenna Pol. :Vertical
Engineer :Temo Chen



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
11160.00	Average	25.86	10.01	35.87	54.00	-18.13
11160.00	Peak	35.32	10.01	45.33	74.00	-28.67
16740.00	Peak	36.85	12.26	49.11	68.20	-19.09

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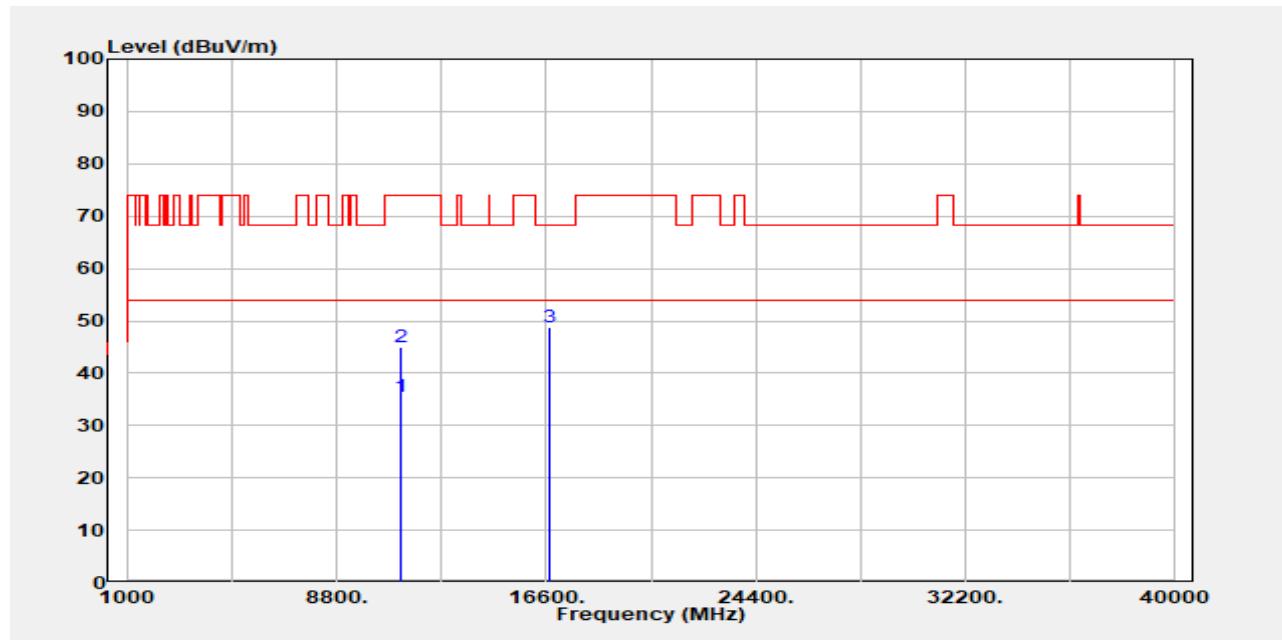
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Report Number :TERF2501000052E2
Operation Mode :802.11n20
Test Frequency :5580 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC G Chamber
Test Date :2025-02-21
Temp./Humi. :21.8°C/54%
Antenna Pol. :Horizontal
Engineer :Temo Chen



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
11160.00	Average	25.43	10.01	35.44	54.00	-18.56
11160.00	Peak	35.02	10.01	45.03	74.00	-28.97
16740.00	Peak	36.51	12.26	48.77	68.20	-19.43

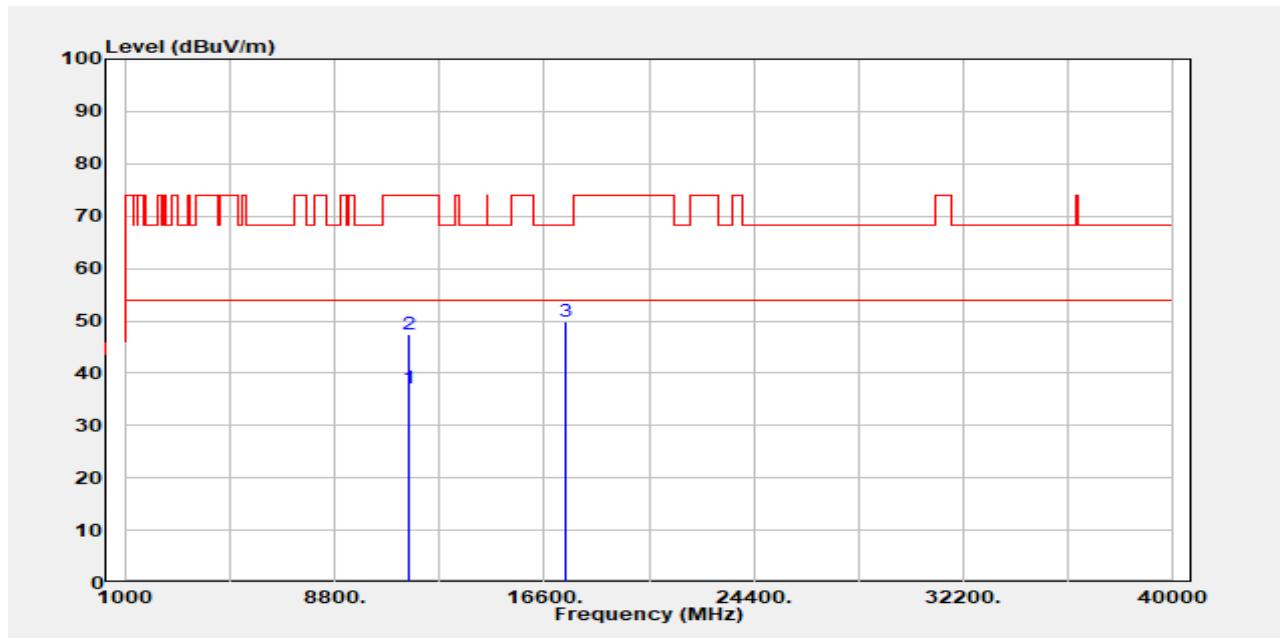
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Report Number :TERF2501000052E2 Test Site :SAC G Chamber
Operation Mode :802.11n20 Test Date :2025-02-21
Test Frequency :5785 MHz Temp./Humi. :21.8°C/54%
Test Mode :Tx Antenna Pol. :Vertical
EUT Pol :E2 Plane Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11570.00	Average	26.25	10.98	37.23	54.00	-16.77
11570.00	Peak	36.51	10.98	47.49	74.00	-26.51
17355.00	Peak	36.98	12.90	49.88	68.20	-18.32

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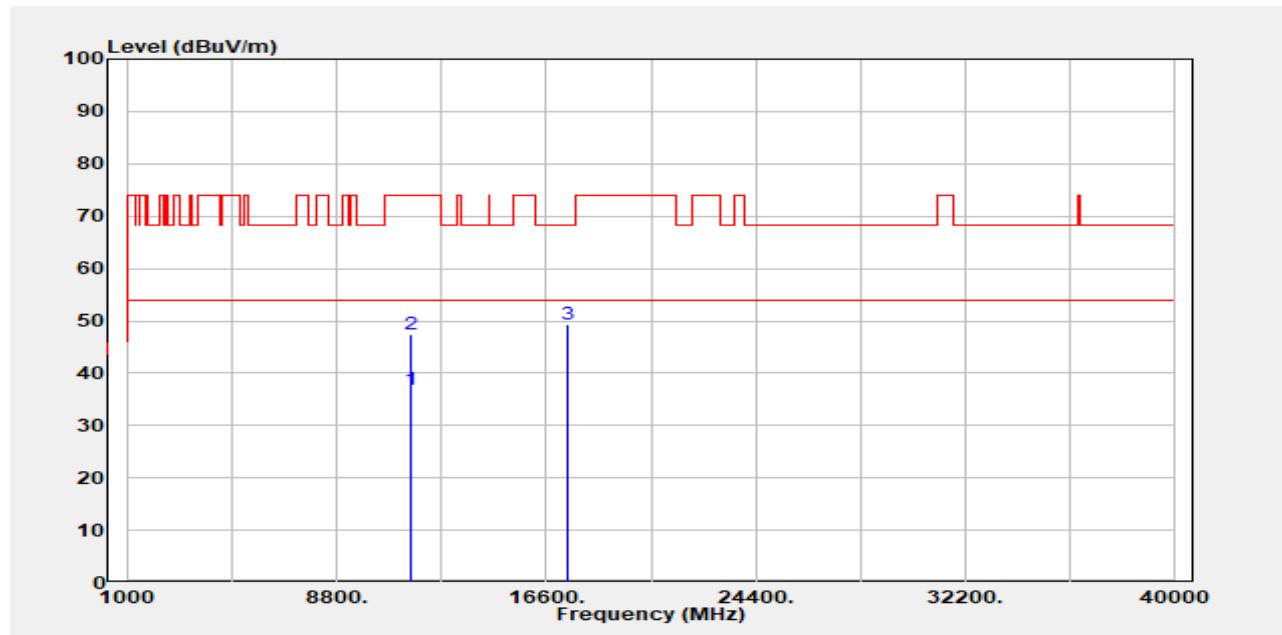
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Report Number :TERF2501000052E2
Operation Mode :802.11n20
Test Frequency :5785 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC G Chamber
Test Date :2025-02-21
Temp./Humi. :21.8°C/54%
Antenna Pol. :Horizontal
Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11570.00	Average	25.99	10.98	36.97	54.00	-17.03
11570.00	Peak	36.47	10.98	47.45	74.00	-26.55
17355.00	Peak	36.37	12.90	49.27	68.20	-18.93

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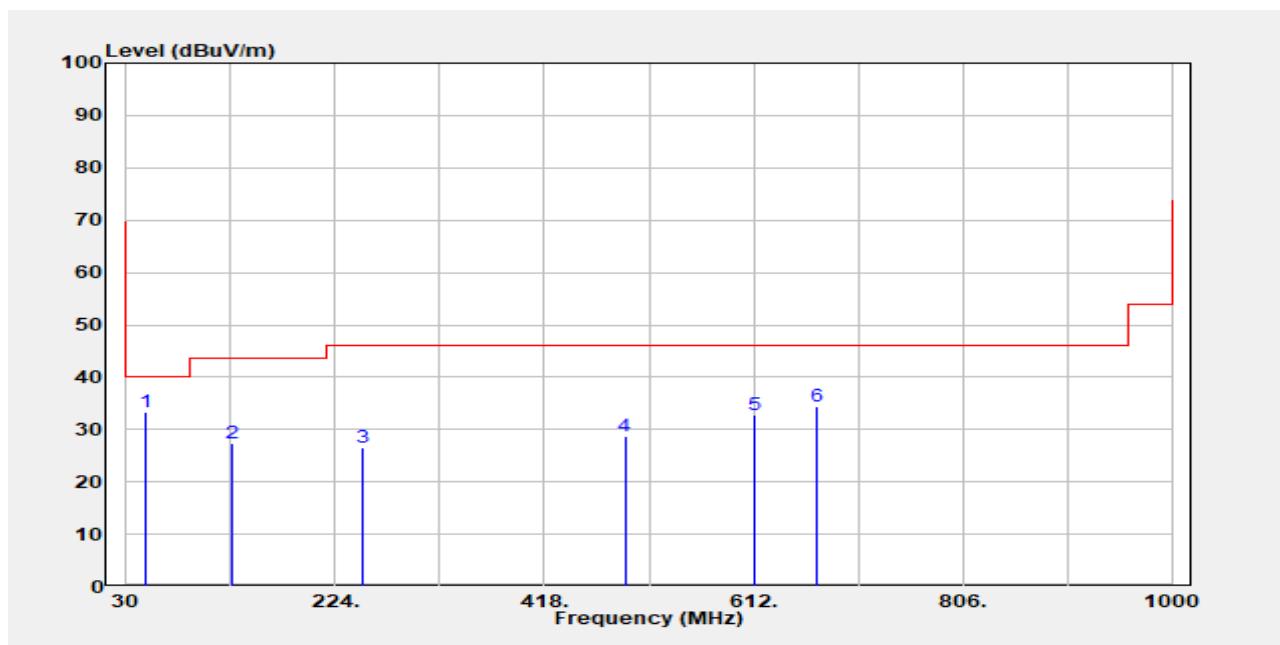
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Model: C505

Report Number	:TERF2501000052E2	Test Site	:SAC G Chamber
Operation Mode	:802.11n20	Test Date	:2025-02-23
Test Frequency	:5300 MHz	Temp./Humi.	:21.8°C/54%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Temo Chen



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
48.43	Peak	46.09	-12.68	33.41	40.00	-6.59
128.94	Peak	42.03	-14.71	27.32	43.50	-16.18
250.19	Peak	40.53	-13.88	26.65	46.00	-19.35
492.69	Peak	36.11	-7.31	28.80	46.00	-17.20
612.97	Peak	37.51	-4.58	32.93	46.00	-13.07
671.17	Peak	38.19	-3.76	34.43	46.00	-11.57

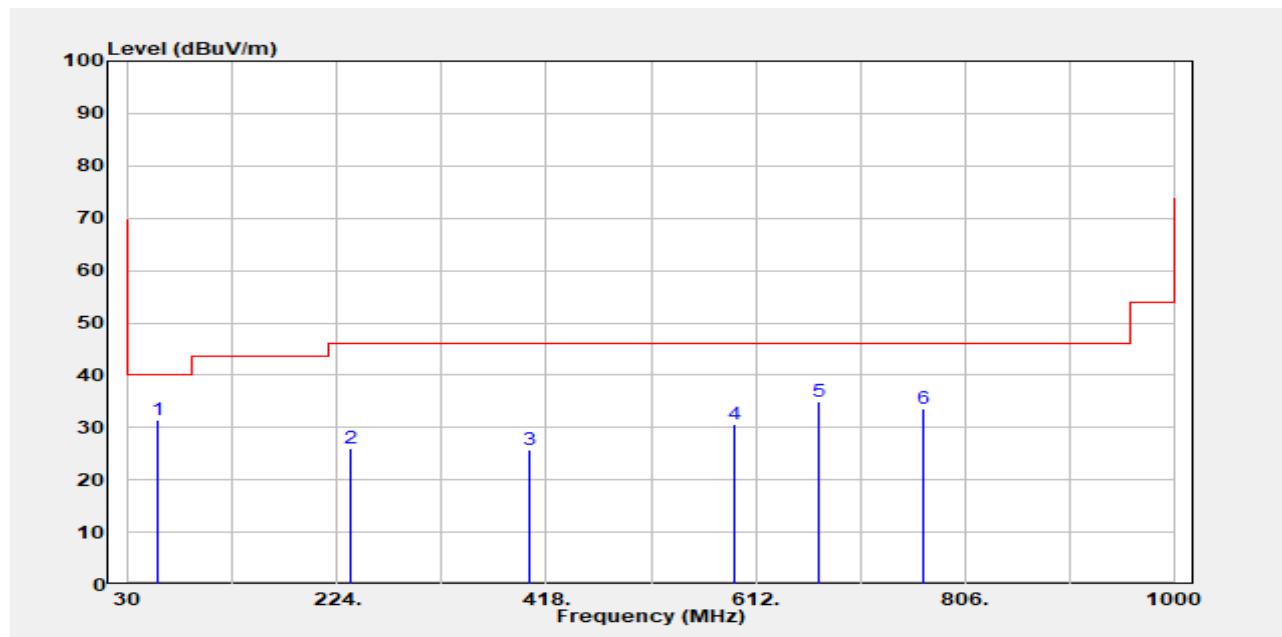
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Report Number :TERF2501000052E2
Operation Mode :802.11n20
Test Frequency :5300 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC G Chamber
Test Date :2025-02-23
Temp./Humi. :21.8°C/54%
Antenna Pol. :Horizontal
Engineer :Temo Chen



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
58.13	Peak	44.39	-12.98	31.41	40.00	-8.59
235.64	Peak	40.71	-14.67	26.04	46.00	-19.96
402.48	Peak	35.22	-9.45	25.77	46.00	-20.23
591.63	Peak	35.77	-5.24	30.53	46.00	-15.47
671.17	Peak	38.77	-3.76	35.01	46.00	-10.99
767.20	Peak	35.42	-1.83	33.59	46.00	-12.41

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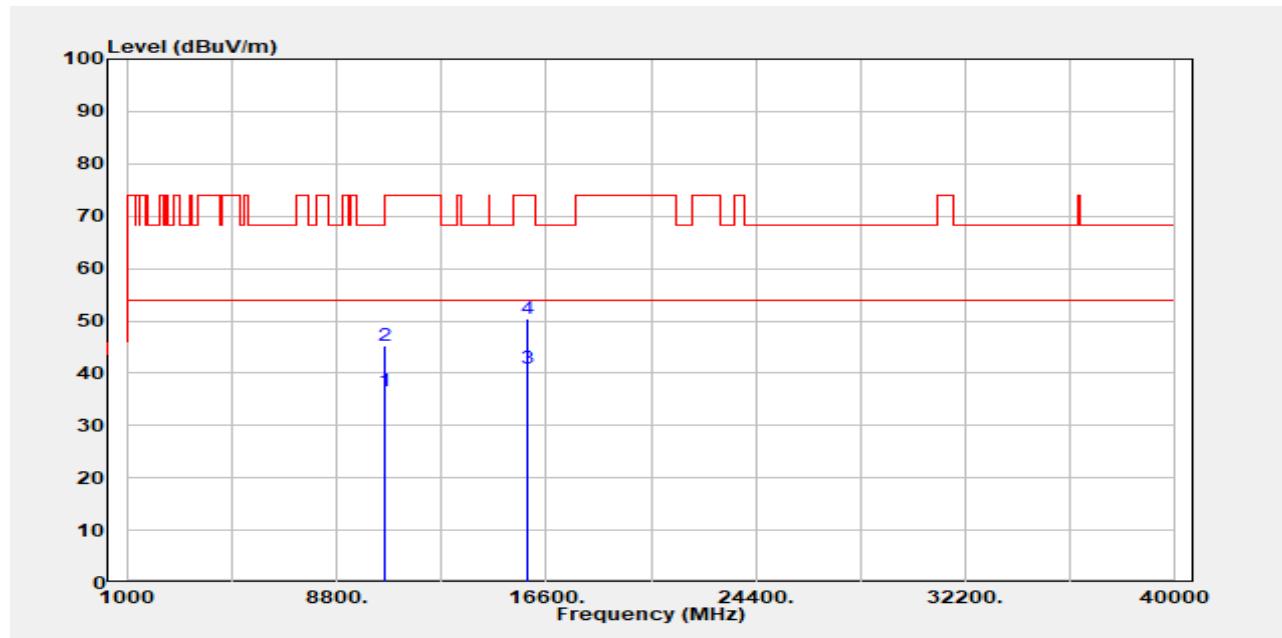
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Report Number :TERF2501000052E2
Operation Mode :802.11n20
Test Frequency :5300 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC G Chamber
Test Date :2025-02-22
Temp./Humi. :21.8°C/54%
Antenna Pol. :Vertical
Engineer :Temo Chen



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
10600.00	Average	27.43	9.11	36.54	54.00	-17.46
10600.00	Peak	36.10	9.11	45.21	74.00	-28.79
15900.00	Average	26.56	14.27	40.83	54.00	-13.17
15900.00	Peak	36.23	14.27	50.50	74.00	-23.50

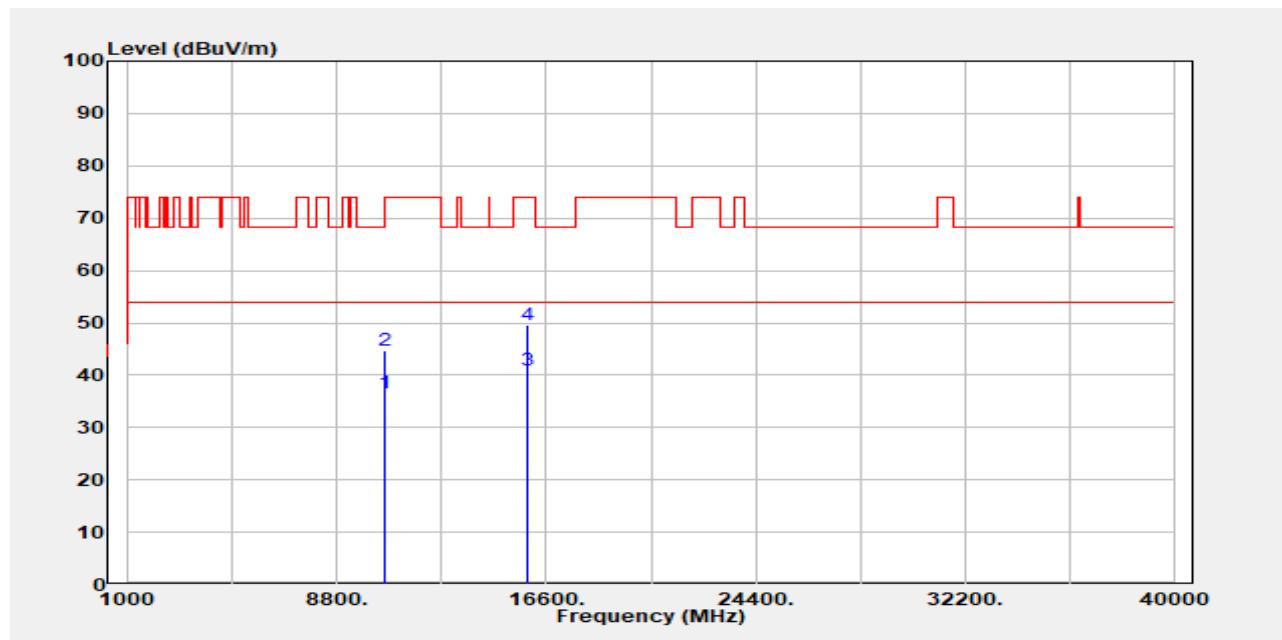
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Report Number :TERF2501000052E2
Operation Mode :802.11n20
Test Frequency :5300 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC G Chamber
Test Date :2025-02-22
Temp./Humi. :21.8°C/54%
Antenna Pol. :Horizontal
Engineer :Temo Chen



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
10600.00	Average	27.41	9.11	36.52	54.00	-17.48
10600.00	Peak	35.72	9.11	44.83	74.00	-29.17
15900.00	Average	26.52	14.27	40.79	54.00	-13.21
15900.00	Peak	35.39	14.27	49.66	74.00	-24.34

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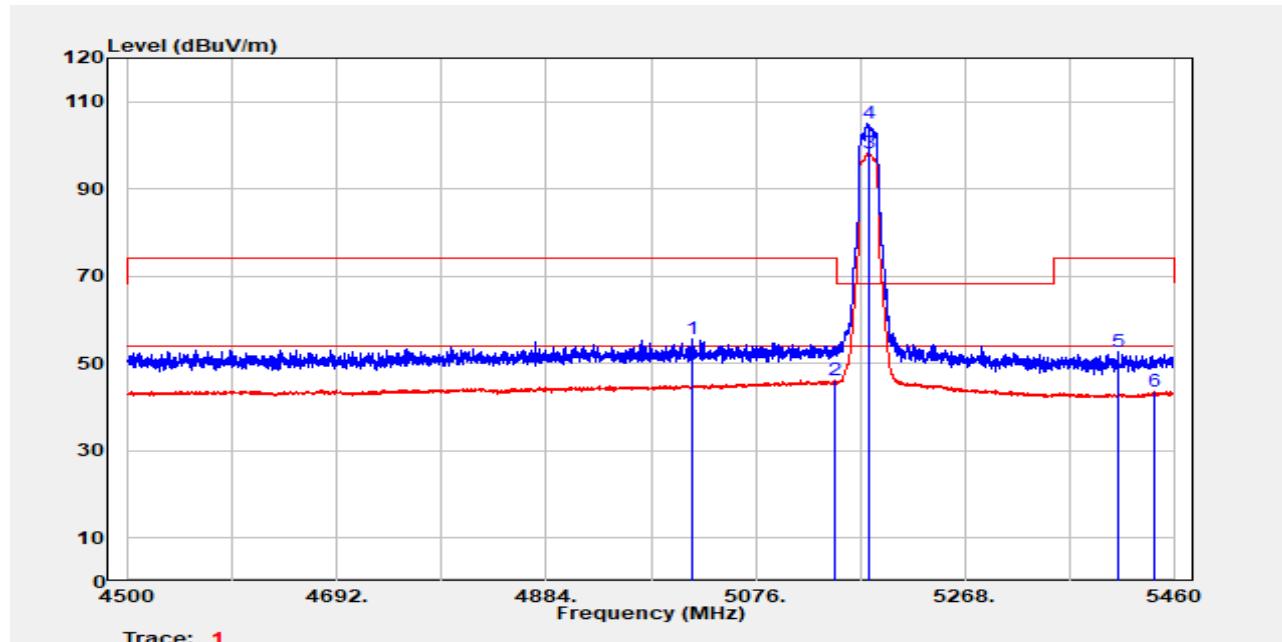
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8.6.2 Band edge falling to restricted band

Model: C305

Report Number	:TERF2501000052E2	Test Site	:SAC G Chamber
Operation Mode	:802.11a	Test Date	:2025-02-20
Test Frequency	:5180 MHz	Temp./Humi.	:22.1°C/57%
Test Mode	:Bandedge	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Temo Chen



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
5017.57	Peak	51.46	4.02	55.48	74.00	-18.52
5149.60	Average	42.28	4.01	46.29	54.00	-7.71
5180.00	Average	94.36	3.86	98.22	-	-
5180.00	Peak	101.03	3.86	104.89	-	-
5408.63	Peak	48.75	3.81	52.56	74.00	-21.44
5441.52	Average	39.40	4.21	43.61	54.00	-10.39

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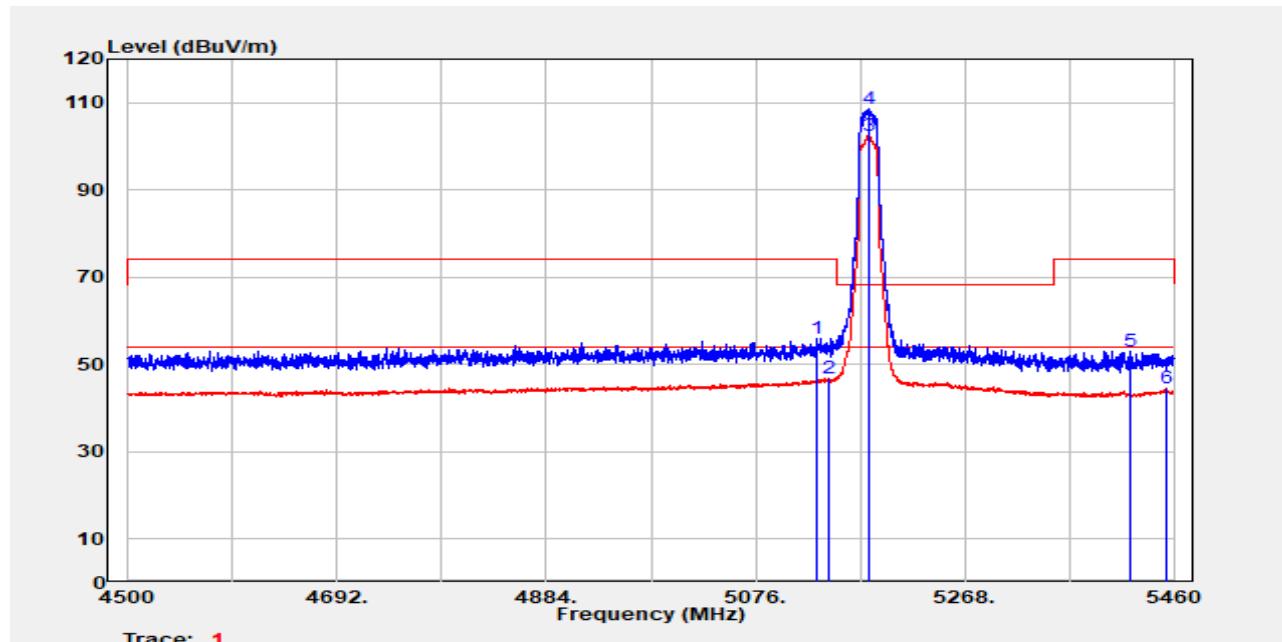
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Report Number :TERF2501000052E2
Operation Mode :802.11a
Test Frequency :5180 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC G Chamber
Test Date :2025-02-20
Temp./Humi. :22.1°C/57%
Antenna Pol. :Horizontal
Engineer :Temo Chen



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
5132.80	Peak	51.82	4.09	55.91	74.00	-18.09
5142.64	Average	42.73	4.03	46.76	54.00	-7.24
5180.00	Average	98.47	3.86	102.33	-	-
5180.00	Peak	104.65	3.86	108.51	-	-
5420.63	Peak	49.09	3.95	53.04	74.00	-20.96
5452.80	Average	40.21	4.33	44.54	54.00	-9.46

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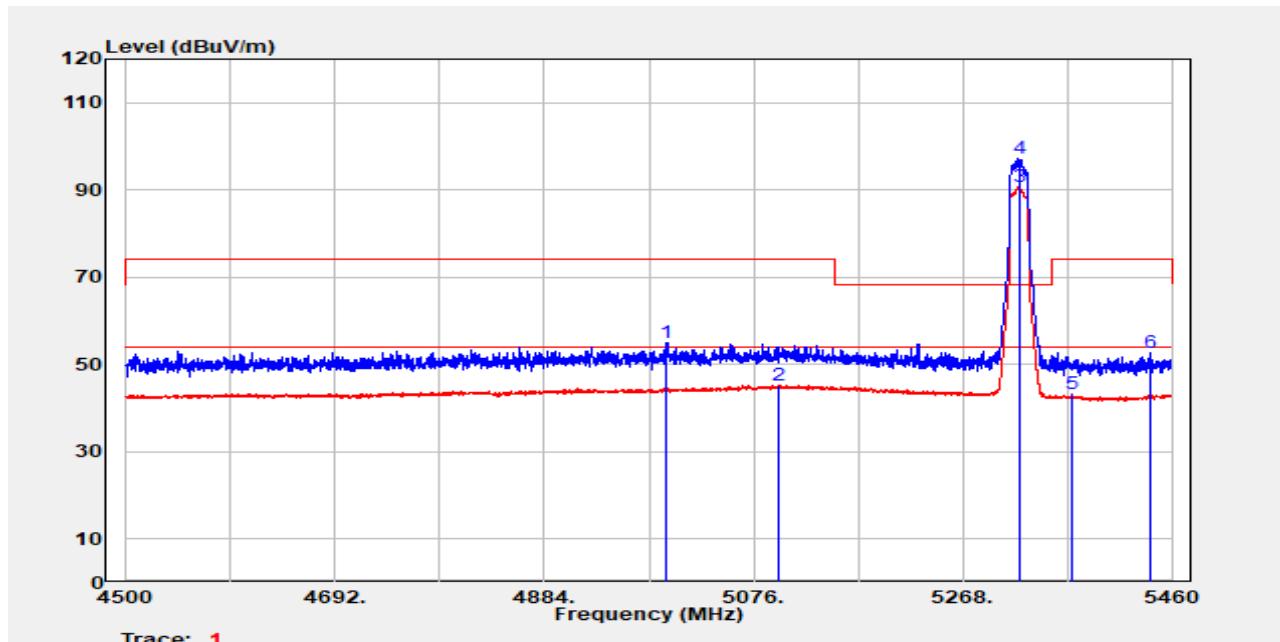
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Report Number :TERF2501000052E2
Operation Mode :802.11a
Test Frequency :5320 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC G Chamber
Test Date :2025-02-20
Temp./Humi. :22.1°C/57%
Antenna Pol. :Vertical
Engineer :Temo Chen



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
4996.44	Peak	51.00	3.99	54.99	74.00	-19.01
5098.71	Average	40.92	4.24	45.16	54.00	-8.84
5320.00	Average	86.86	3.73	90.59	-	-
5320.00	Peak	93.40	3.73	97.13	-	-
5369.26	Average	39.39	3.72	43.11	54.00	-10.89
5439.84	Peak	48.58	4.18	52.76	74.00	-21.24

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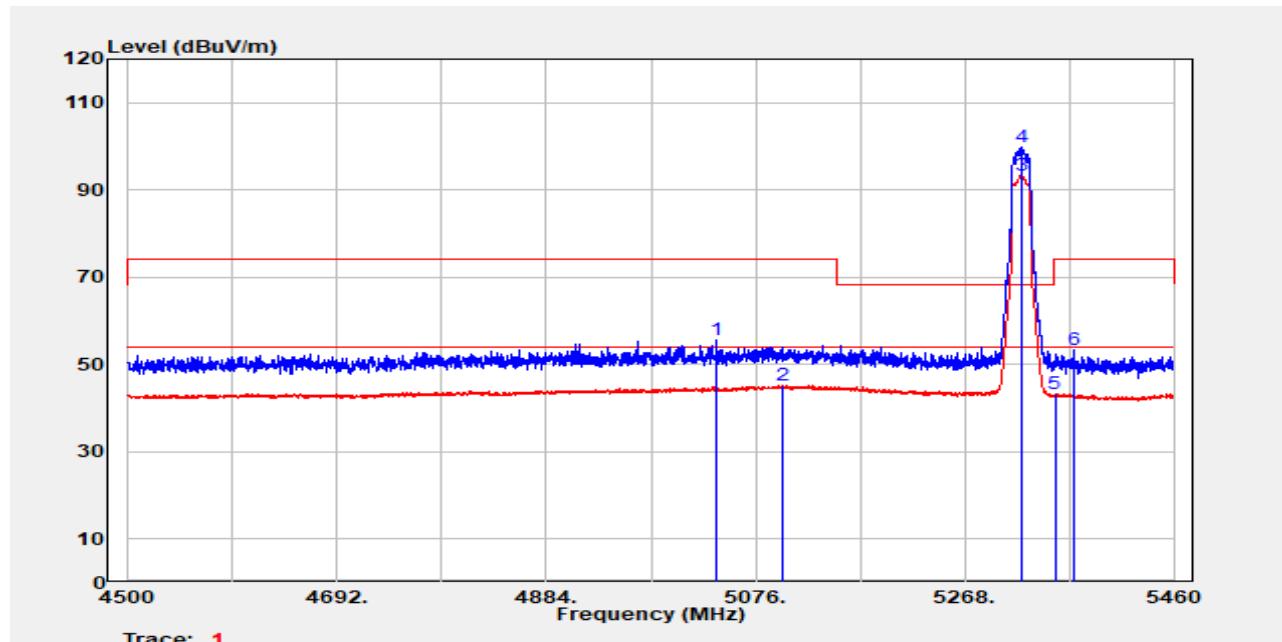
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Report Number :TERF2501000052E2
Operation Mode :802.11a
Test Frequency :5320 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC G Chamber
Test Date :2025-02-20
Temp./Humi. :22.1°C/57%
Antenna Pol. :Horizontal
Engineer :Temo Chen



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
5039.90	Peak	51.51	4.06	55.57	74.00	-18.43
5101.35	Average	41.07	4.25	45.32	54.00	-8.68
5320.00	Average	89.54	3.73	93.27	-	-
5320.00	Peak	96.01	3.73	99.74	-	-
5351.01	Average	39.58	3.72	43.30	54.00	-10.70
5368.06	Peak	49.74	3.72	53.46	74.00	-20.54

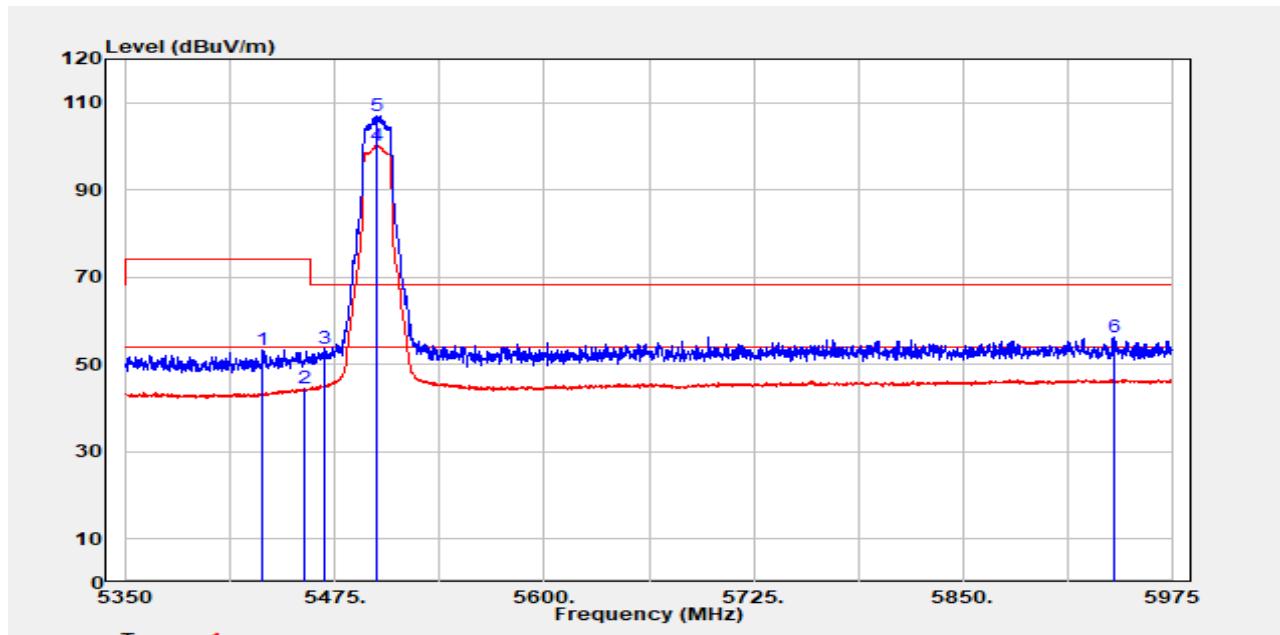
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Report Number :TERF2501000052E2
Operation Mode :802.11a
Test Frequency :5500 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC G Chamber
Test Date :2025-02-20
Temp./Humi. :22.1°C/57%
Antenna Pol. :Vertical
Engineer :Temo Chen



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
5431.07	Peak	49.20	4.08	53.28	74.00	-20.72
5456.70	Average	40.27	4.37	44.64	54.00	-9.36
5468.58	Peak	49.24	4.48	53.72	68.20	-14.48
5500.00	Average	95.39	4.79	100.18	-	-
5500.00	Peak	102.14	4.79	106.93	-	-
5940.20	Peak	50.10	6.18	56.28	68.20	-11.92

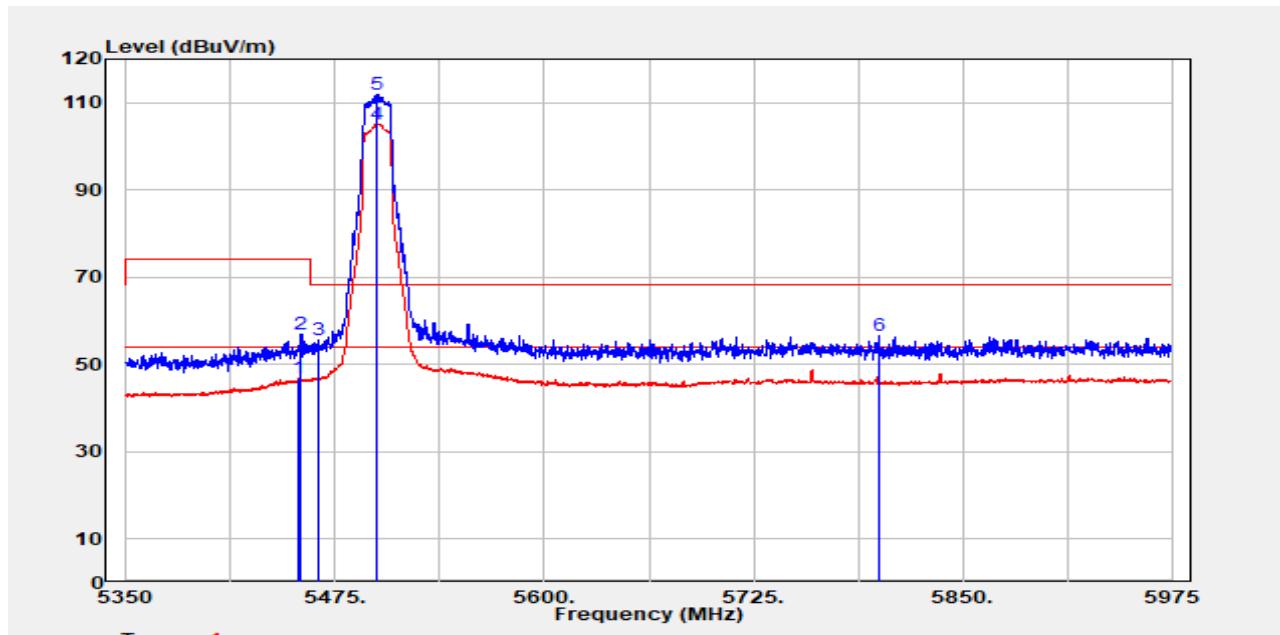
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Report Number :TERF2501000052E2
Operation Mode :802.11a
Test Frequency :5500 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC G Chamber
Test Date :2025-02-20
Temp./Humi. :22.1°C/57%
Antenna Pol. :Horizontal
Engineer :Temo Chen



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
5452.95	Average	42.42	4.33	46.75	54.00	-7.25
5454.62	Peak	52.60	4.35	56.95	74.00	-17.05
5465.25	Peak	51.18	4.45	55.63	68.20	-12.57
5500.00	Average	100.34	4.79	105.13	-	-
5500.00	Peak	107.18	4.79	111.97	-	-
5799.73	Peak	51.34	5.39	56.73	68.20	-11.47

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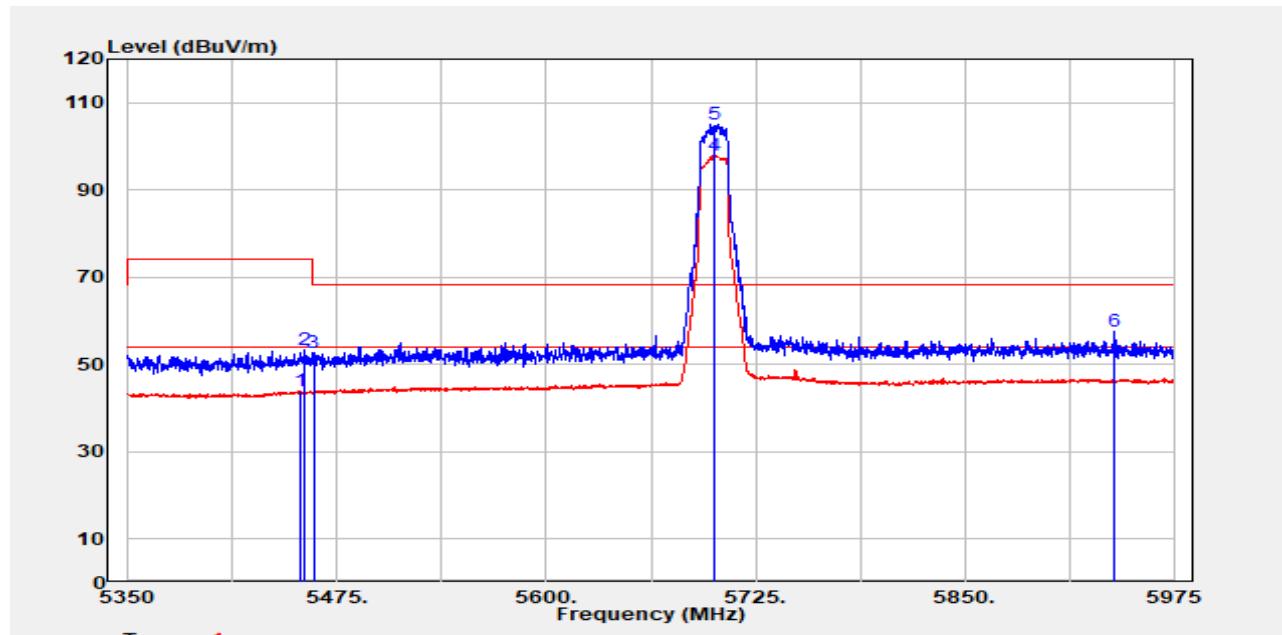
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Report Number :TERF2501000052E2
Operation Mode :802.11a
Test Frequency :5700 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC G Chamber
Test Date :2025-02-20
Temp./Humi. :22.1°C/57%
Antenna Pol. :Vertical
Engineer :Temo Chen



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
5452.95	Average	39.69	4.33	44.02	54.00	-9.98
5455.04	Peak	48.90	4.35	53.25	74.00	-20.75
5460.66	Peak	48.17	4.40	52.57	68.20	-15.63
5700.00	Average	92.94	5.08	98.02	-	-
5700.00	Peak	99.95	5.08	105.03	-	-
5939.99	Peak	51.35	6.18	57.53	68.20	-10.67

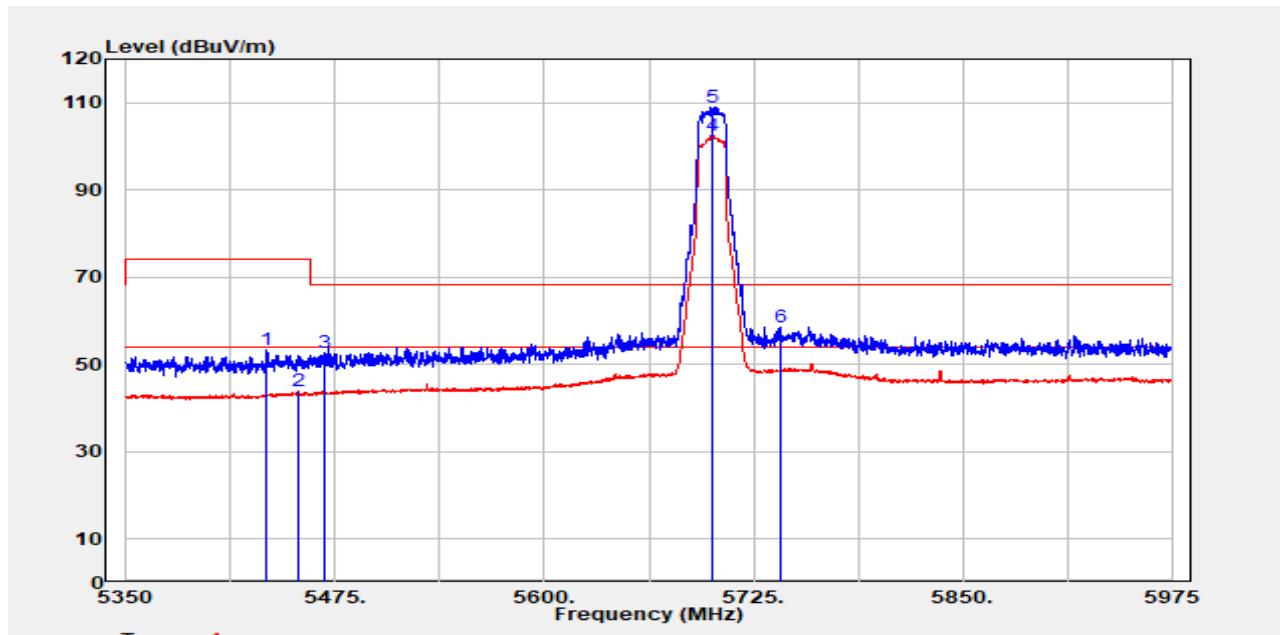
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Report Number :TERF2501000052E2
Operation Mode :802.11a
Test Frequency :5700 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC G Chamber
Test Date :2025-02-20
Temp./Humi. :22.1°C/57%
Antenna Pol. :Horizontal
Engineer :Temo Chen



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
5433.57	Peak	49.19	4.10	53.29	74.00	-20.71
5452.74	Average	39.58	4.33	43.91	54.00	-10.09
5468.37	Peak	48.12	4.48	52.60	68.20	-15.60
5700.00	Average	97.39	5.08	102.47	-	-
5700.00	Peak	104.00	5.08	109.08	-	-
5740.76	Peak	53.32	5.29	58.61	68.20	-9.59

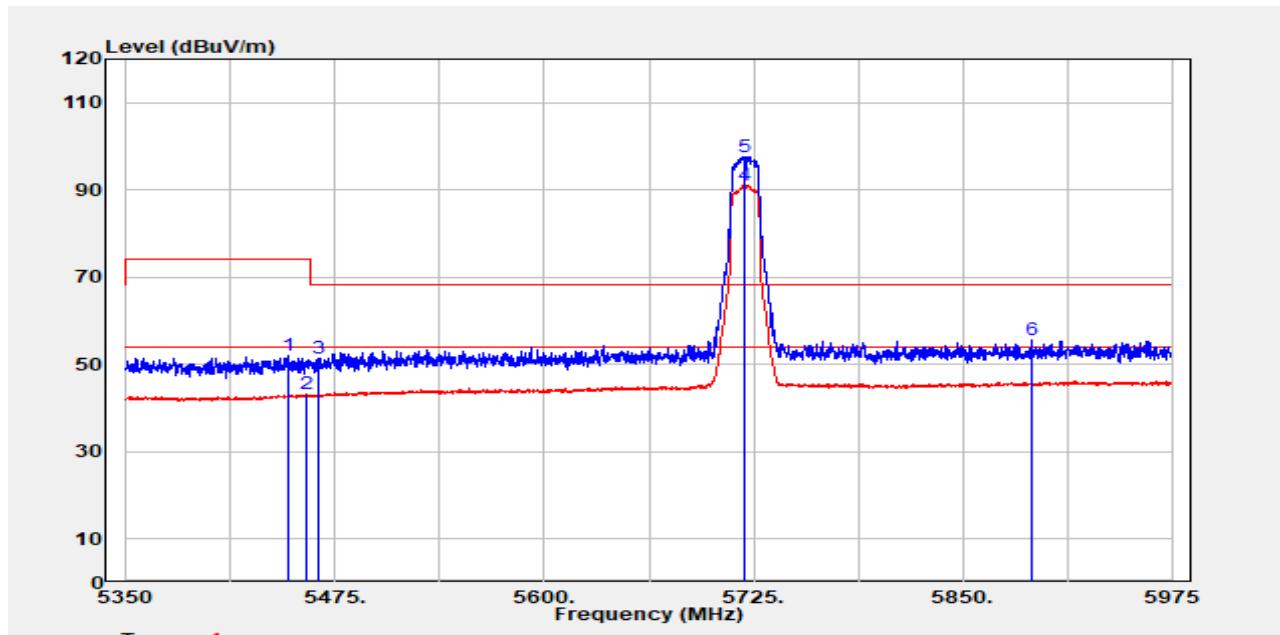
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Report Number :TERF2501000052E2
Operation Mode :802.11a
Test Frequency :5720 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC G Chamber
Test Date :2025-02-20
Temp./Humi. :22.1°C/57%
Antenna Pol. :Vertical
Engineer :Temo Chen



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
5447.12	Peak	47.78	4.26	52.04	74.00	-21.96
5457.54	Average	38.71	4.38	43.09	54.00	-10.91
5465.25	Peak	47.01	4.45	51.46	68.20	-16.74
5720.00	Average	85.98	5.18	91.16	-	-
5720.00	Peak	92.54	5.18	97.72	-	-
5891.64	Peak	49.31	6.18	55.49	68.20	-12.71

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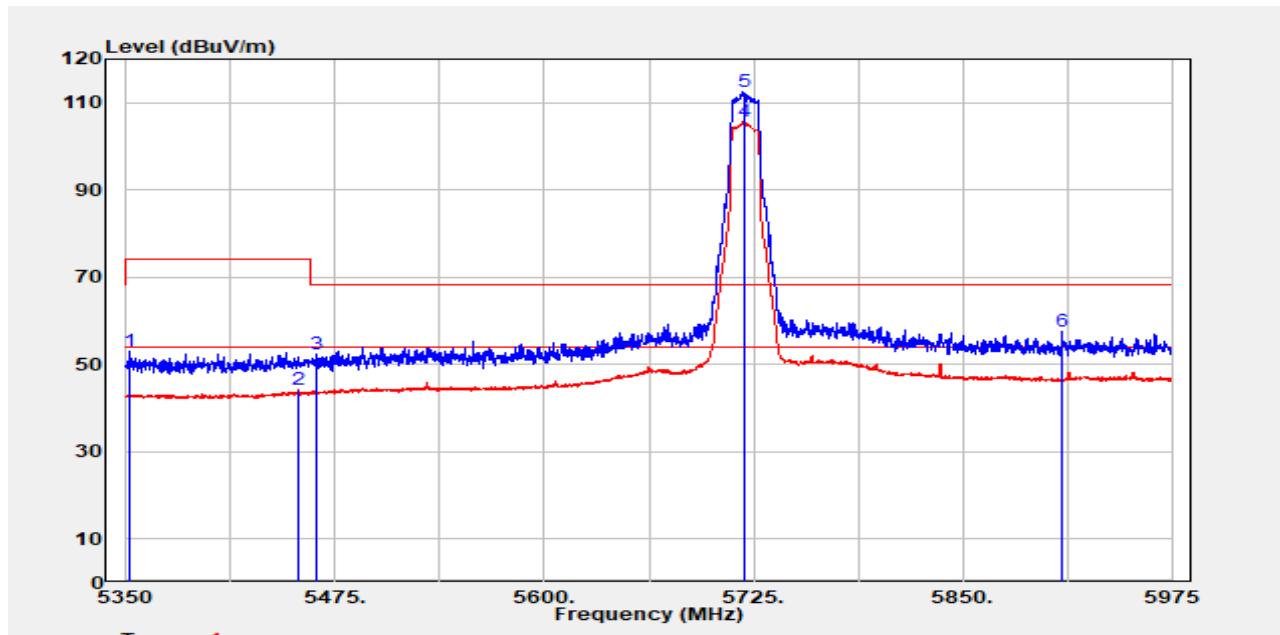
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Report Number :TERF2501000052E2
Operation Mode :802.11a
Test Frequency :5720 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC G Chamber
Test Date :2025-02-20
Temp./Humi. :22.1°C/57%
Antenna Pol. :Horizontal
Engineer :Temo Chen



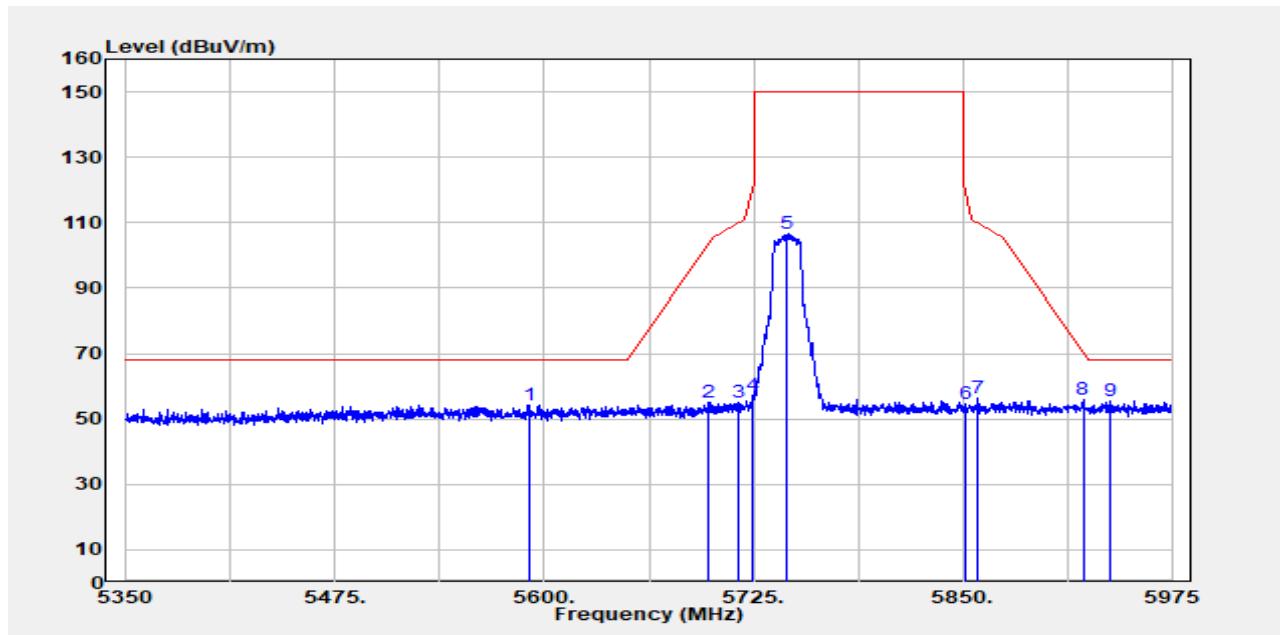
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5351.88	Peak	49.38	3.72	53.10	74.00	-20.90
5452.95	Average	39.77	4.33	44.10	54.00	-9.90
5464.21	Peak	47.95	4.44	52.39	68.20	-15.81
5720.00	Average	100.43	5.18	105.61	-	-
5720.00	Peak	107.32	5.18	112.50	-	-
5909.35	Peak	51.39	6.24	57.63	68.20	-10.57

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Report Number :TERF2501000052E2 Test Site :SAC G Chamber
Operation Mode :802.11a Test Date :2025-02-20
Test Frequency :5745 MHz Temp./Humi. :22.1°C/57%
Test Mode :Bandedge Antenna Pol. :Vertical
EUT Pol :E2 Plane Engineer :Temo Chen



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
5590.50	Peak	49.96	4.23	54.19	68.20	-14.01
5698.45	Peak	50.14	5.06	55.20	104.05	-48.85
5715.54	Peak	49.77	5.15	54.92	109.55	-54.63
5724.92	Peak	52.05	5.20	57.25	122.01	-64.76
5745.00	Peak	101.34	5.31	106.65	-	-
5852.04	Peak	48.98	5.80	54.78	117.54	-62.76
5858.71	Peak	50.70	5.86	56.56	109.76	-53.20
5922.07	Peak	49.63	6.22	55.85	70.37	-14.52
5938.32	Peak	49.36	6.19	55.55	68.20	-12.65

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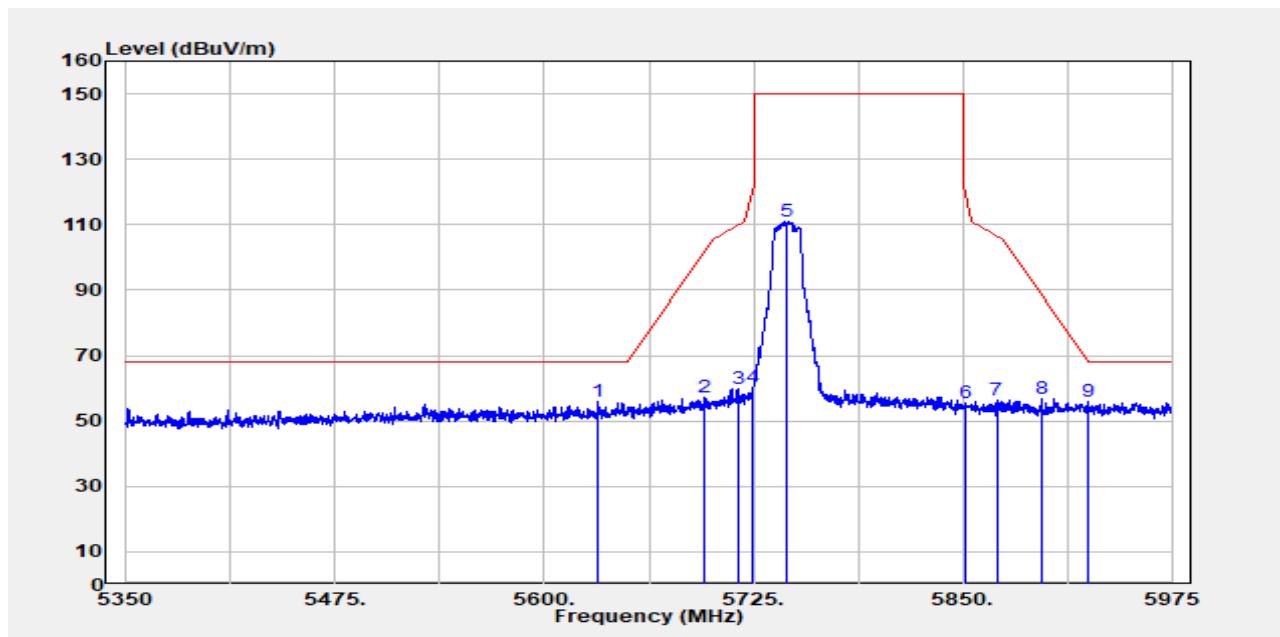
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Report Number :TERF2501000052E2
Operation Mode :802.11a
Test Frequency :5745 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC G Chamber
Test Date :2025-02-20
Temp./Humi. :22.1°C/57%
Antenna Pol. :Horizontal
Engineer :Temo Chen



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
5631.97	Peak	51.42	4.44	55.86	68.20	-12.34
5695.95	Peak	52.30	5.04	57.34	102.20	-44.86
5715.54	Peak	54.51	5.15	59.66	109.55	-49.89
5724.08	Peak	55.04	5.19	60.23	120.11	-59.88
5745.00	Peak	105.87	5.31	111.18	-	-
5852.04	Peak	49.63	5.80	55.43	117.54	-62.11
5870.38	Peak	50.39	5.97	56.36	106.49	-50.13
5897.27	Peak	50.74	6.23	56.97	88.72	-31.75
5924.98	Peak	49.88	6.21	56.09	68.21	-12.12

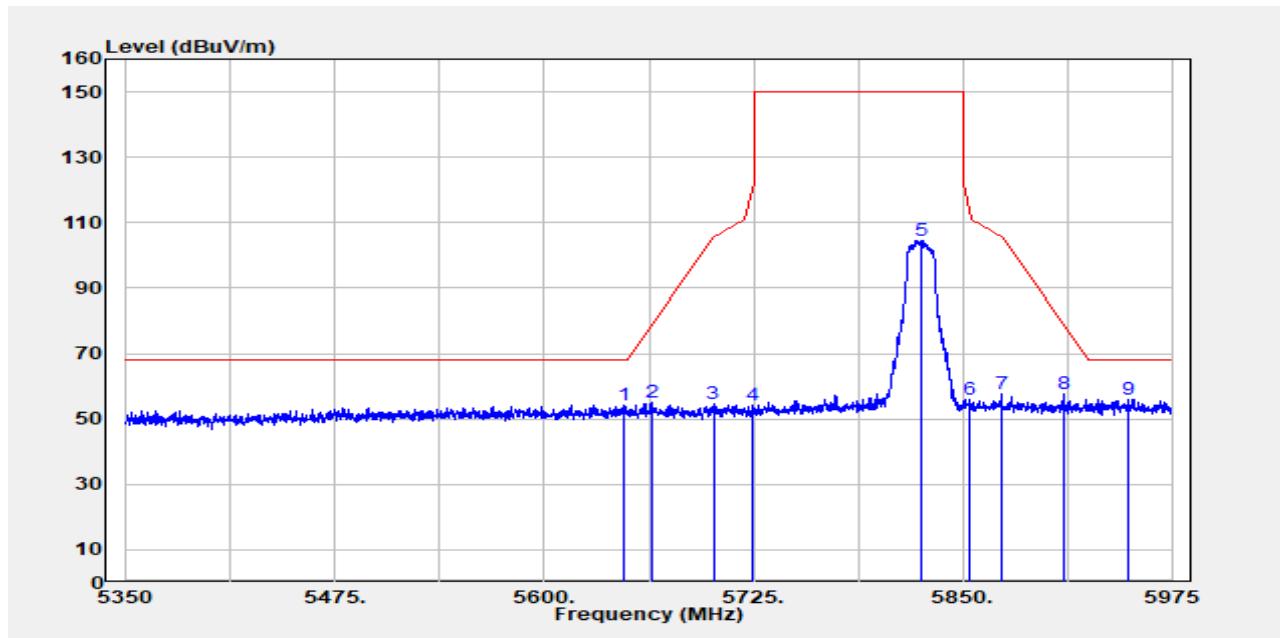
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Report Number :TERF2501000052E2 Test Site :SAC G Chamber
Operation Mode :802.11a Test Date :2025-02-20
Test Frequency :5825 MHz Temp./Humi. :22.1°C/57%
Test Mode :Bandedge Antenna Pol. :Vertical
EUT Pol :E2 Plane Engineer :Temo Chen



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
5648.02	Peak	49.61	4.57	54.18	68.20	-14.02
5664.06	Peak	50.17	4.71	54.88	78.61	-23.73
5700.95	Peak	49.42	5.09	54.51	105.47	-50.96
5724.50	Peak	49.19	5.20	54.39	121.06	-66.67
5825.00	Peak	99.02	5.58	104.60	-	-
5854.54	Peak	50.16	5.82	55.98	111.84	-55.86
5873.30	Peak	51.65	6.00	57.65	105.68	-48.03
5910.40	Peak	51.44	6.24	57.68	79.01	-21.33
5949.37	Peak	49.95	6.16	56.11	68.20	-12.09

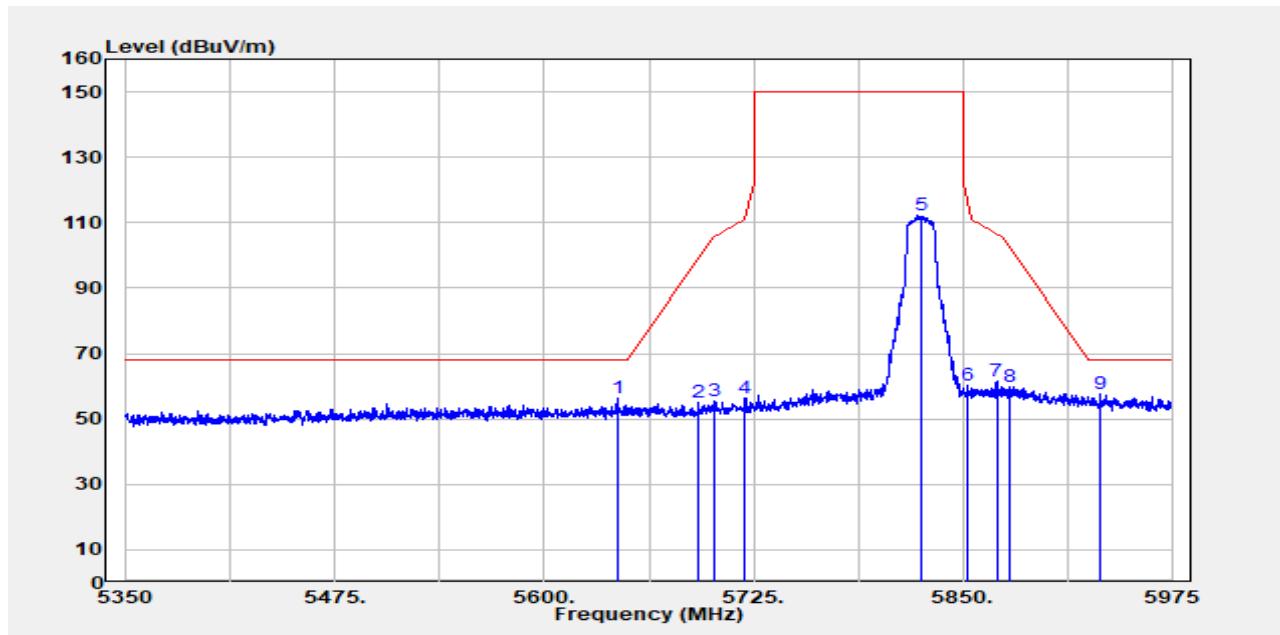
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Report Number :TERF2501000052E2
Operation Mode :802.11a
Test Frequency :5825 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC G Chamber
Test Date :2025-02-20
Temp./Humi. :22.1°C/57%
Antenna Pol. :Horizontal
Engineer :Temo Chen



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
5644.27	Peak	51.99	4.54	56.53	68.20	-11.67
5691.99	Peak	49.92	5.00	54.92	99.27	-44.35
5701.99	Peak	50.41	5.09	55.50	105.76	-50.26
5720.12	Peak	51.17	5.18	56.35	111.08	-54.73
5825.00	Peak	106.79	5.58	112.37	-	-
5853.29	Peak	54.48	5.81	60.29	114.69	-54.40
5870.38	Peak	55.55	5.97	61.52	106.49	-44.97
5877.88	Peak	53.91	6.05	59.96	103.07	-43.11
5932.49	Peak	51.32	6.19	57.51	68.20	-10.69

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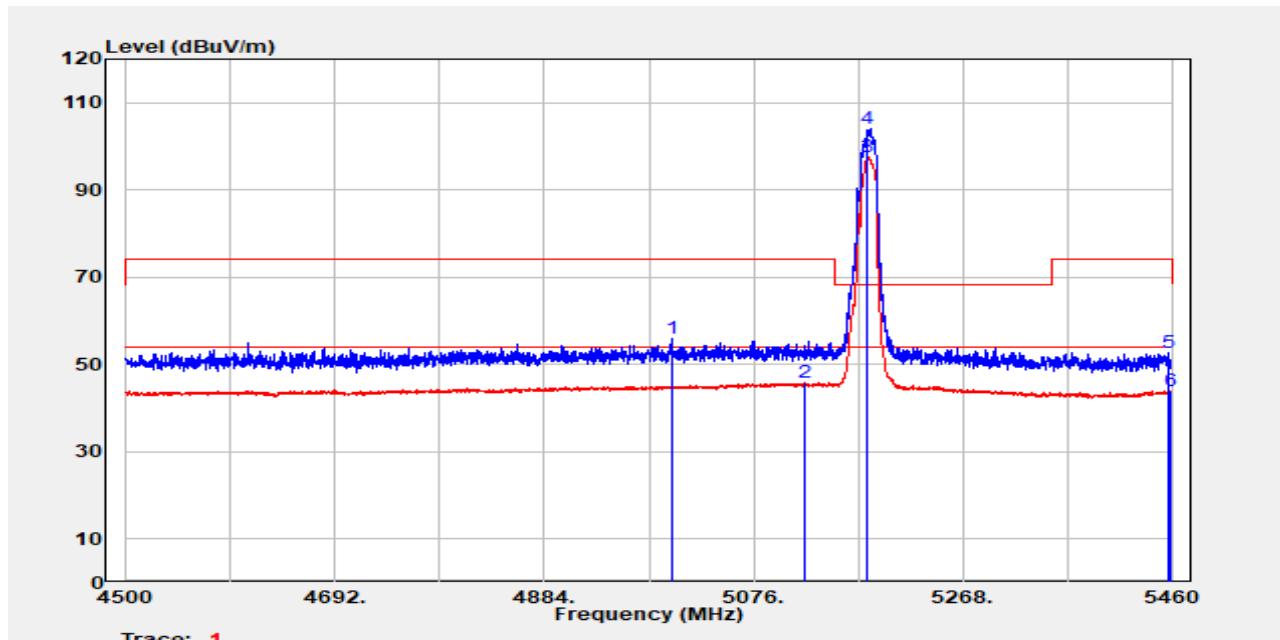
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Report Number :TERF2501000052E2
Operation Mode :802.11n20
Test Frequency :5180 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC G Chamber
Test Date :2025-02-21
Temp./Humi. :22.1°C/57%
Antenna Pol. :Vertical
Engineer :Temo Chen



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
5000.53	Peak	51.84	4.00	55.84	74.00	-18.16
5122.48	Average	41.87	4.14	46.01	54.00	-7.99
5180.00	Average	93.59	3.86	97.45	-	-
5180.00	Peak	100.21	3.86	104.07	-	-
5456.64	Peak	48.45	4.37	52.82	74.00	-21.18
5459.04	Average	39.47	4.39	43.86	54.00	-10.14

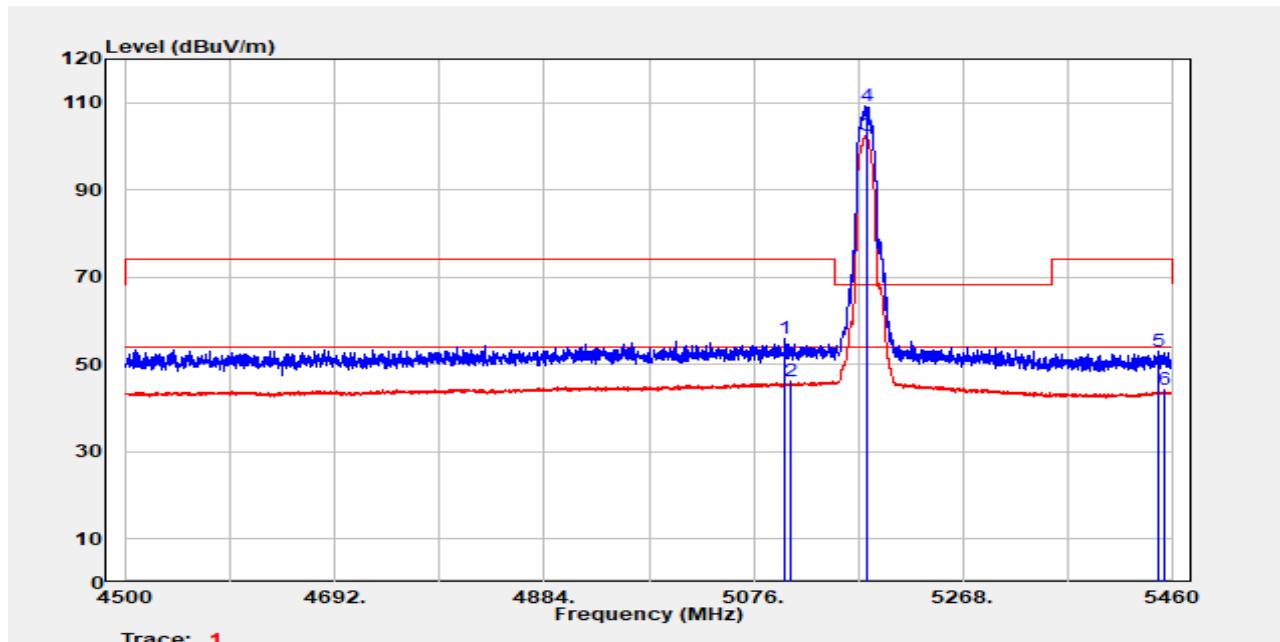
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Report Number :TERF2501000052E2
Operation Mode :802.11n20
Test Frequency :5180 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC G Chamber
Test Date :2025-02-21
Temp./Humi. :22.1°C/57%
Antenna Pol. :Horizontal
Engineer :Temo Chen



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
5104.23	Peak	51.68	4.22	55.90	74.00	-18.10
5110.23	Average	41.98	4.20	46.18	54.00	-7.82
5180.00	Average	98.67	3.86	102.53	-	-
5180.00	Peak	105.28	3.86	109.14	-	-
5447.52	Peak	48.58	4.27	52.85	74.00	-21.15
5452.80	Average	39.88	4.33	44.21	54.00	-9.79

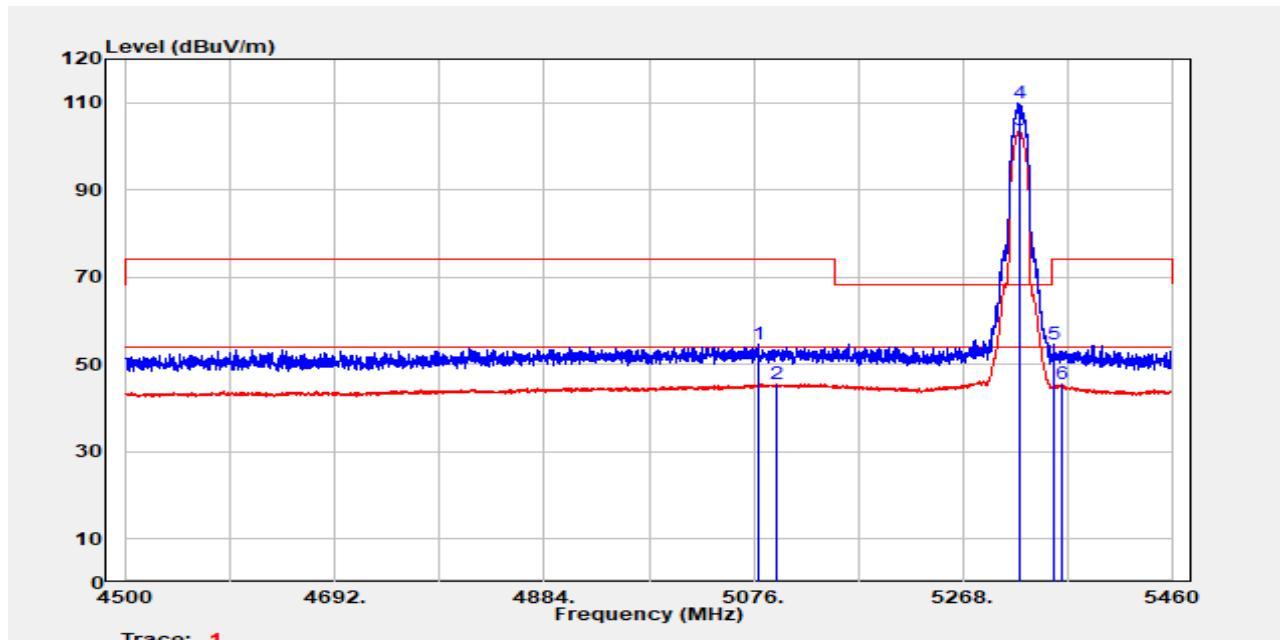
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Report Number :TERF2501000052E2
Operation Mode :802.11n20
Test Frequency :5320 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC G Chamber
Test Date :2025-02-21
Temp./Humi. :22.1°C/57%
Antenna Pol. :Vertical
Engineer :Temo Chen



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
5080.23	Peak	50.53	4.18	54.71	74.00	-19.29
5097.27	Average	41.31	4.24	45.55	54.00	-8.45
5320.00	Average	100.00	3.73	103.73	-	-
5320.00	Peak	106.10	3.73	109.83	-	-
5352.45	Peak	50.97	3.73	54.70	74.00	-19.30
5358.46	Average	41.71	3.72	45.43	54.00	-8.57

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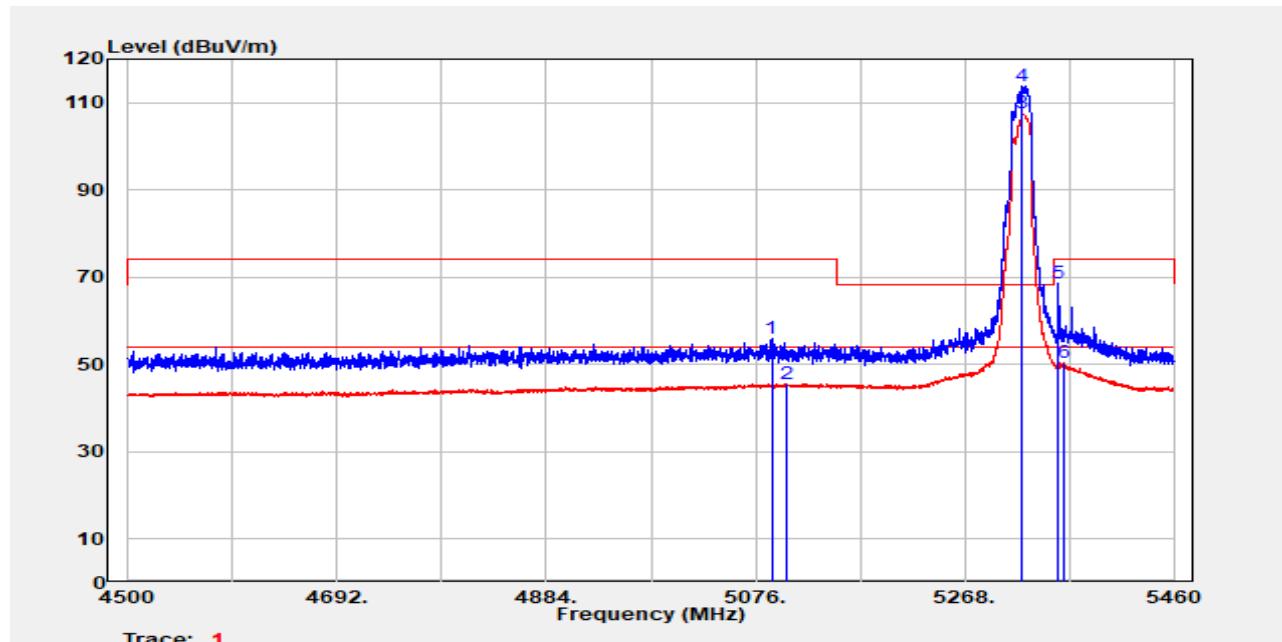
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Report Number :TERF2501000052E2
Operation Mode :802.11n20
Test Frequency :5320 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC G Chamber
Test Date :2025-02-21
Temp./Humi. :22.1°C/57%
Antenna Pol. :Horizontal
Engineer :Temo Chen



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
5090.79	Peak	51.66	4.21	55.87	74.00	-18.13
5103.75	Average	41.42	4.23	45.65	54.00	-8.35
5320.00	Average	103.88	3.73	107.61	-	-
5320.00	Peak	110.16	3.73	113.89	-	-
5354.37	Peak	65.03	3.72	68.75	74.00	-5.25
5358.94	Average	46.82	3.72	50.54	54.00	-3.46

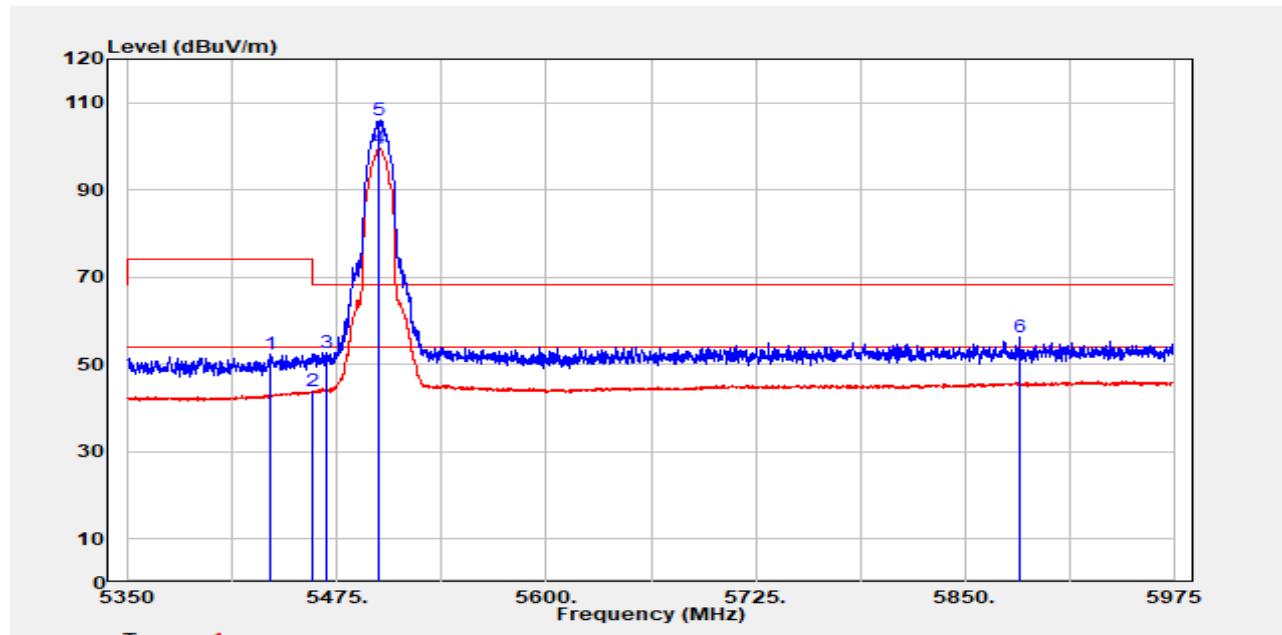
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Report Number :TERF2501000052E2
Operation Mode :802.11n20
Test Frequency :5500 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC G Chamber
Test Date :2025-02-21
Temp./Humi. :22.1°C/57%
Antenna Pol. :Vertical
Engineer :Temo Chen



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
5435.24	Peak	48.19	4.13	52.32	74.00	-21.68
5459.62	Average	39.39	4.39	43.78	54.00	-10.22
5468.37	Peak	48.23	4.48	52.71	68.20	-15.49
5500.00	Average	94.77	4.79	99.56	-	-
5500.00	Peak	101.11	4.79	105.90	-	-
5883.09	Peak	50.04	6.09	56.13	68.20	-12.07

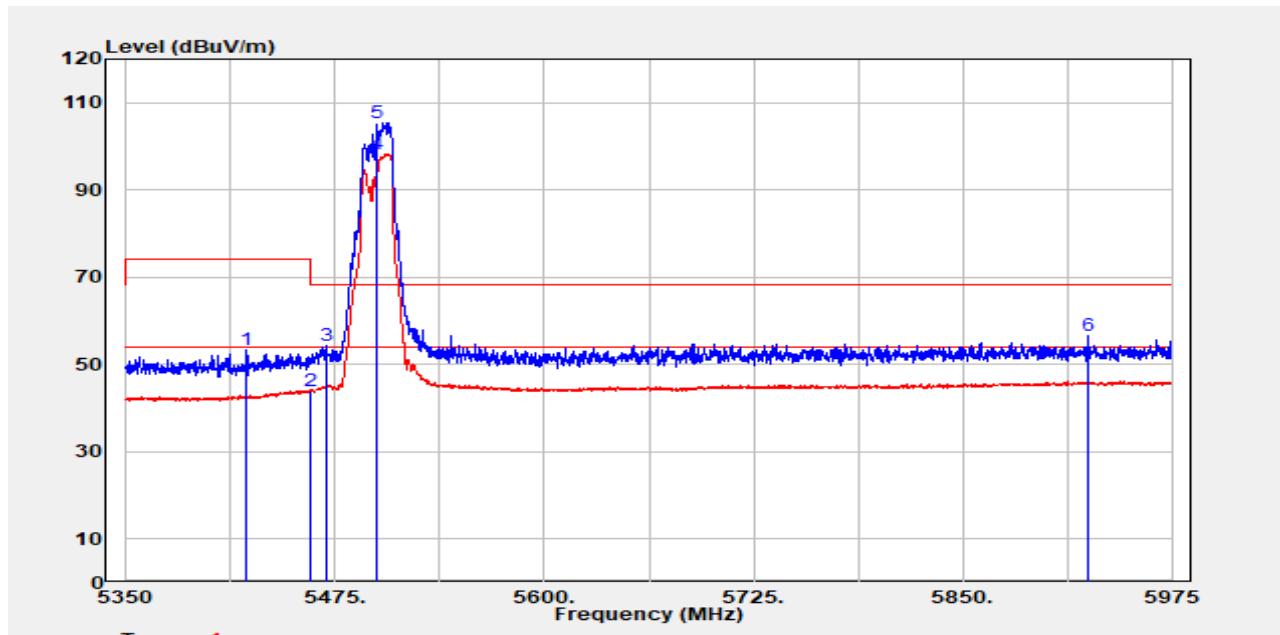
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Report Number :TERF2501000052E2
Operation Mode :802.11n20
Test Frequency :5500 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC G Chamber
Test Date :2025-02-21
Temp./Humi. :22.1°C/57%
Antenna Pol. :Horizontal
Engineer :Temo Chen



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
5422.11	Peak	49.40	3.97	53.37	74.00	-20.63
5459.83	Average	39.56	4.39	43.95	54.00	-10.05
5469.62	Peak	49.95	4.50	54.45	68.20	-13.75
5500.00	Average	93.50	4.79	98.29	-	-
5500.00	Peak	100.62	4.79	105.41	-	-
5925.19	Peak	50.44	6.21	56.65	68.20	-11.55

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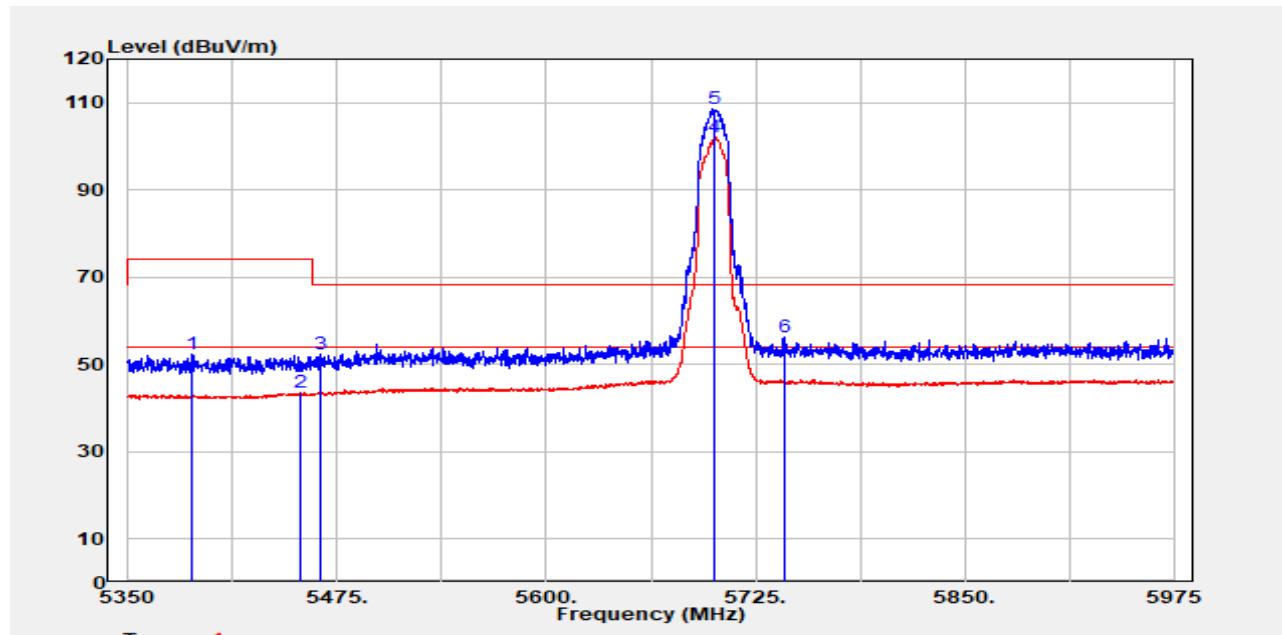
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Report Number :TERF2501000052E2
Operation Mode :802.11n20
Test Frequency :5700 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC G Chamber
Test Date :2025-02-21
Temp./Humi. :22.1°C/57%
Antenna Pol. :Vertical
Engineer :Temo Chen



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
5387.93	Peak	48.75	3.71	52.46	74.00	-21.54
5452.53	Average	39.29	4.33	43.62	54.00	-10.38
5464.41	Peak	47.77	4.44	52.21	68.20	-15.99
5700.00	Average	96.93	5.08	102.01	-	-
5700.00	Peak	103.46	5.08	108.54	-	-
5742.01	Peak	50.99	5.29	56.28	68.20	-11.92

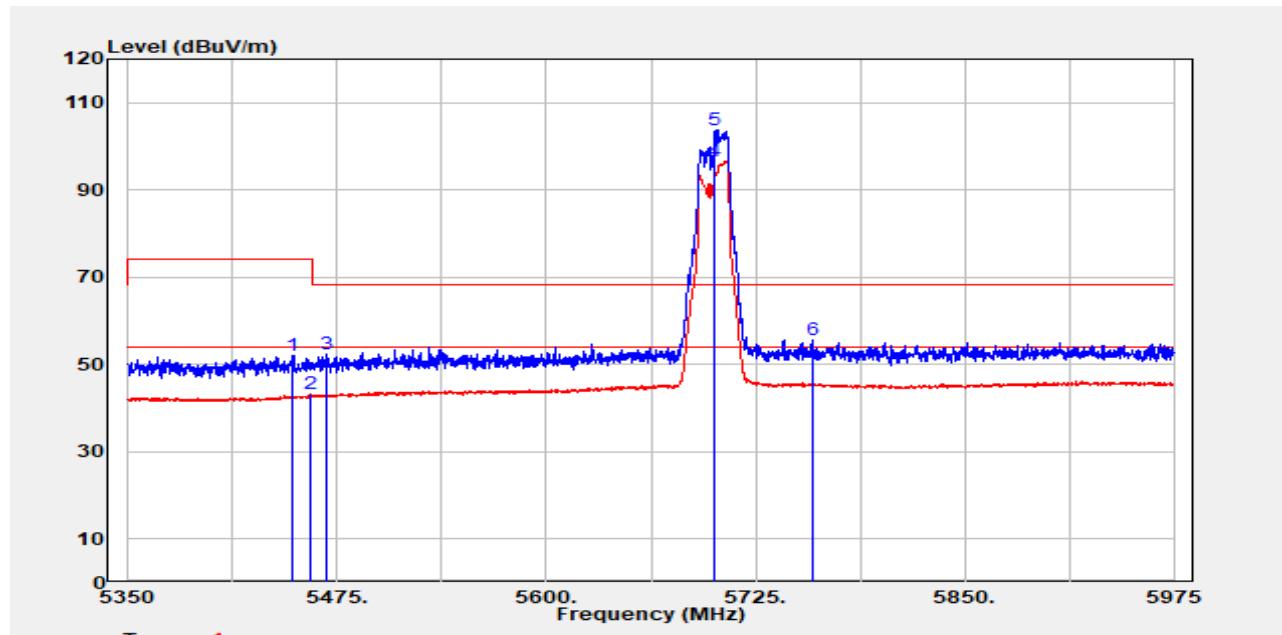
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Report Number :TERF2501000052E2
Operation Mode :802.11n20
Test Frequency :5700 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC G Chamber
Test Date :2025-02-21
Temp./Humi. :22.1°C/57%
Antenna Pol. :Horizontal
Engineer :Temo Chen



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
5448.58	Peak	47.82	4.28	52.10	74.00	-21.90
5458.79	Average	38.70	4.39	43.09	54.00	-10.91
5468.58	Peak	47.89	4.48	52.37	68.20	-15.83
5700.00	Average	91.41	5.08	96.49	-	-
5700.00	Peak	98.64	5.08	103.72	-	-
5758.89	Peak	50.20	5.35	55.55	68.20	-12.65

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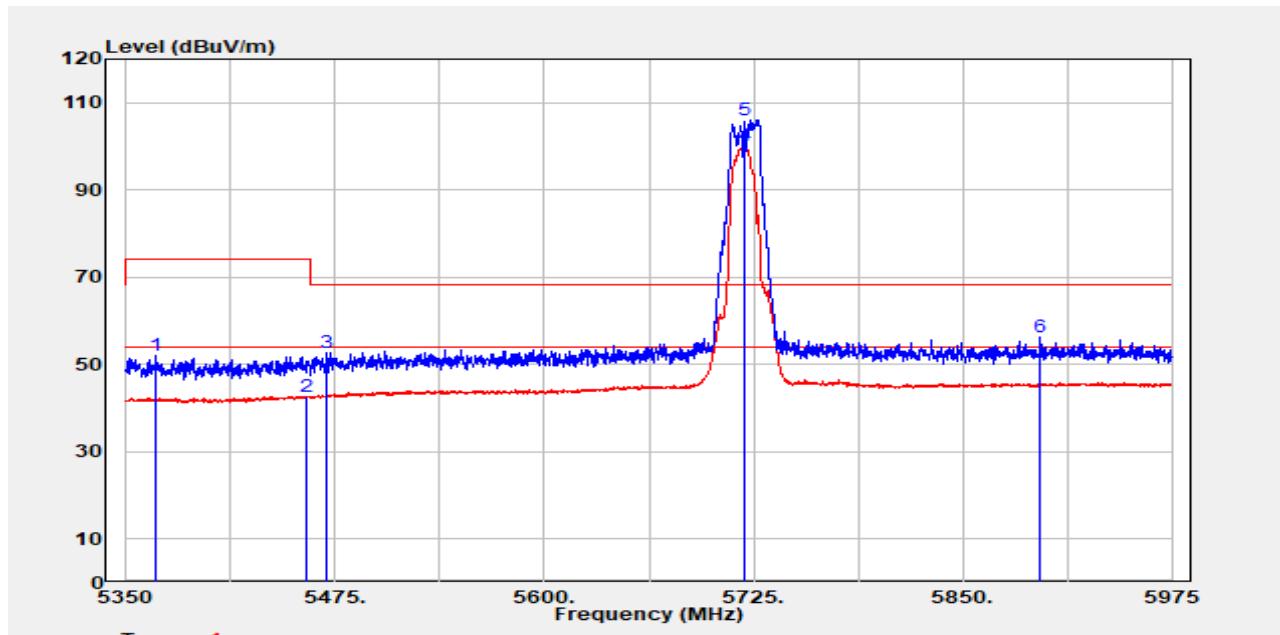
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Report Number :TERF2501000052E2
Operation Mode :802.11n20
Test Frequency :5720 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC G Chamber
Test Date :2025-02-21
Temp./Humi. :21.8°C/54%
Antenna Pol. :Vertical
Engineer :Temo Chen



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
5367.71	Peak	48.16	3.72	51.88	74.00	-22.12
5457.33	Average	38.38	4.38	42.76	54.00	-11.24
5469.42	Peak	48.15	4.49	52.64	68.20	-15.56
5720.00	Average	95.10	5.18	100.28	-	-
5720.00	Peak	100.83	5.18	106.01	-	-
5896.43	Peak	50.02	6.22	56.24	68.20	-11.96

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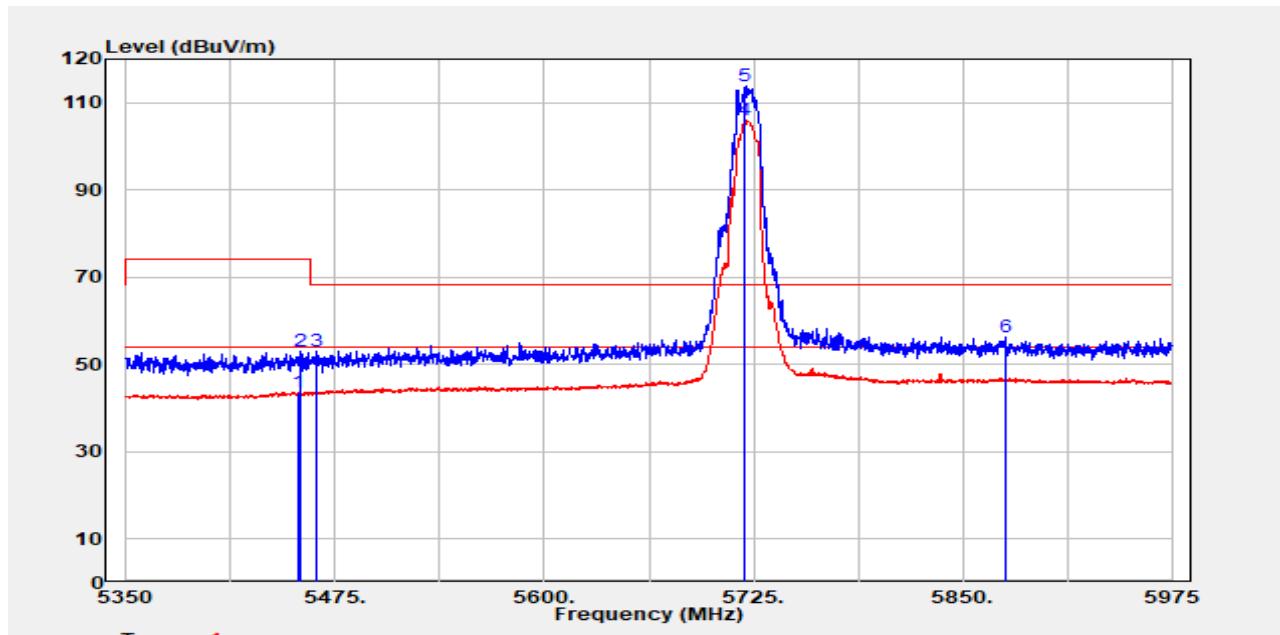
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Report Number :TERF2501000052E2
Operation Mode :802.11n20
Test Frequency :5720 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC G Chamber
Test Date :2025-02-21
Temp./Humi. :21.8°C/54%
Antenna Pol. :Horizontal
Engineer :Temo Chen



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
5452.33	Average	39.32	4.32	43.64	54.00	-10.36
5454.62	Peak	48.76	4.35	53.11	74.00	-20.89
5463.79	Peak	48.72	4.44	53.16	68.20	-15.04
5720.00	Average	100.83	5.18	106.01	-	-
5720.00	Peak	108.75	5.18	113.93	-	-
5875.38	Peak	50.22	6.02	56.24	68.20	-11.96

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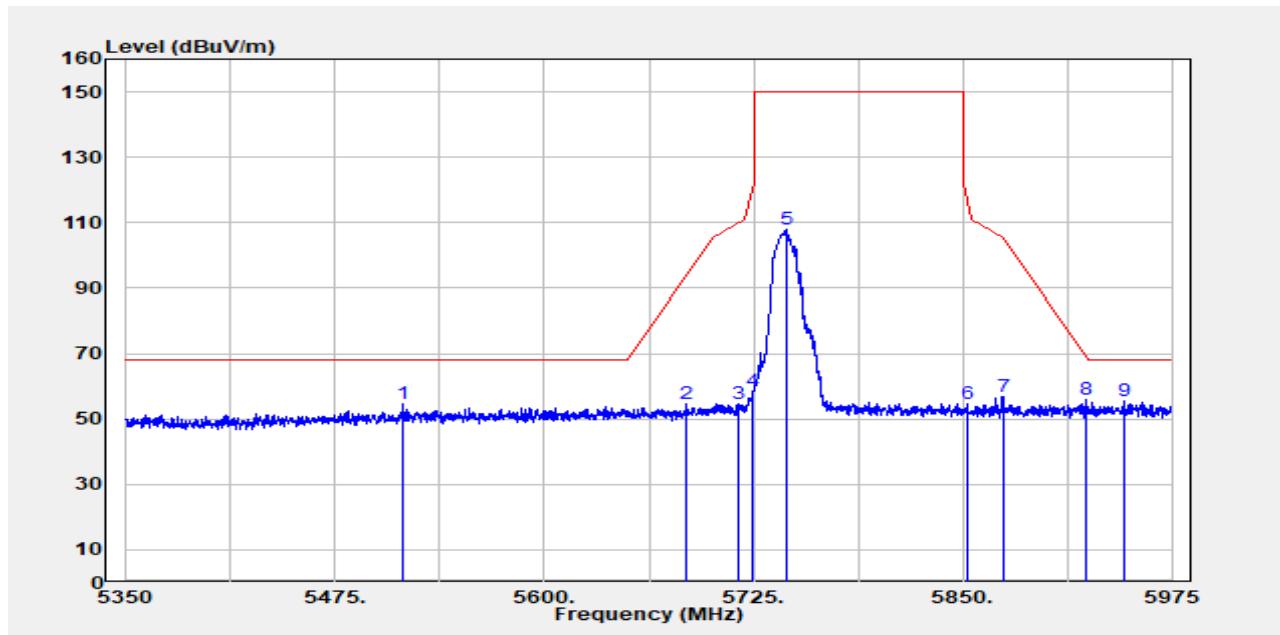
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Report Number :TERF2501000052E2 Test Site :SAC G Chamber
Operation Mode :802.11n20 Test Date :2025-02-21
Test Frequency :5745 MHz Temp./Humi. :21.8°C/54%
Test Mode :Bandedge Antenna Pol. :Vertical
EUT Pol :E2 Plane Engineer :Temo Chen



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
5515.06	Peak	50.07	4.68	54.75	68.20	-13.45
5685.11	Peak	49.66	4.93	54.59	94.18	-39.59
5716.37	Peak	49.63	5.16	54.79	109.78	-54.99
5724.92	Peak	53.19	5.20	58.39	122.01	-63.62
5745.00	Peak	102.65	5.31	107.96	-	-
5853.08	Peak	48.61	5.81	54.42	115.17	-60.75
5874.13	Peak	50.95	6.01	56.96	105.44	-48.48
5924.15	Peak	49.56	6.21	55.77	68.83	-13.06
5946.66	Peak	49.30	6.17	55.47	68.20	-12.73

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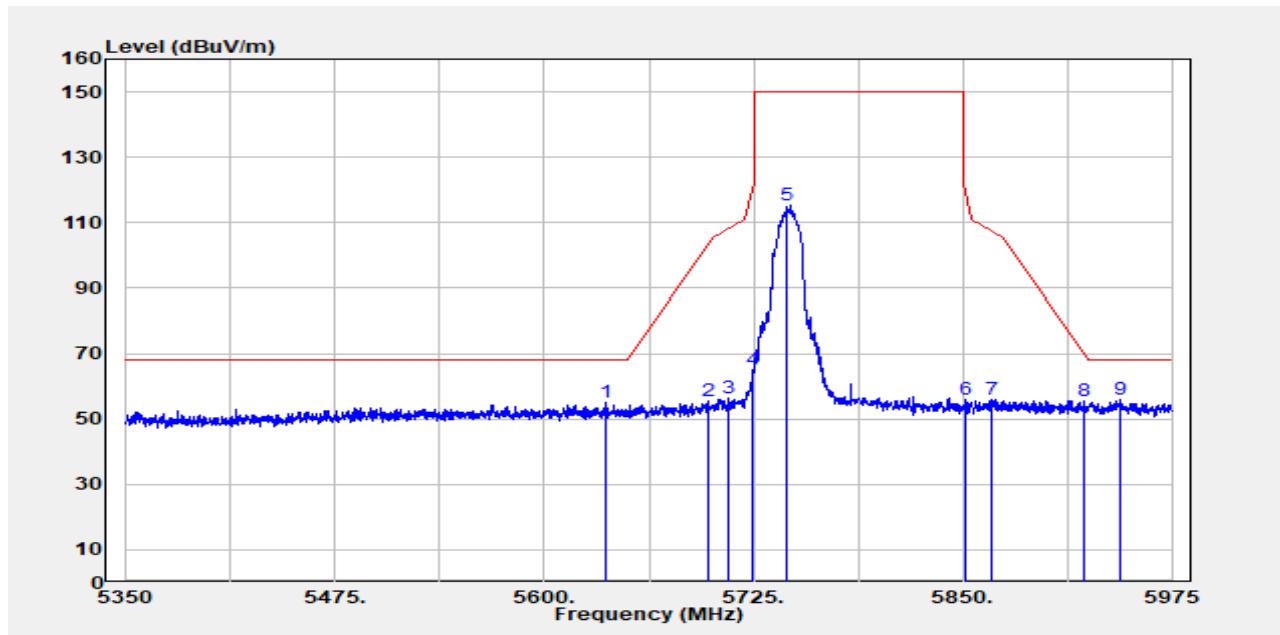
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Report Number :TERF2501000052E2
Operation Mode :802.11n20
Test Frequency :5745 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC G Chamber
Test Date :2025-02-21
Temp./Humi. :21.8°C/54%
Antenna Pol. :Horizontal
Engineer :Temo Chen



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
5636.35	Peak	50.72	4.48	55.20	68.20	-13.00
5698.03	Peak	50.62	5.06	55.68	103.74	-48.06
5710.33	Peak	51.35	5.13	56.48	108.09	-51.61
5724.92	Peak	59.66	5.20	64.86	122.01	-57.15
5745.00	Peak	110.23	5.31	115.54	-	-
5852.25	Peak	49.96	5.80	55.76	117.07	-61.31
5867.26	Peak	50.16	5.95	56.11	107.37	-51.26
5922.90	Peak	49.49	6.22	55.71	69.75	-14.04
5944.16	Peak	49.59	6.17	55.76	68.20	-12.44

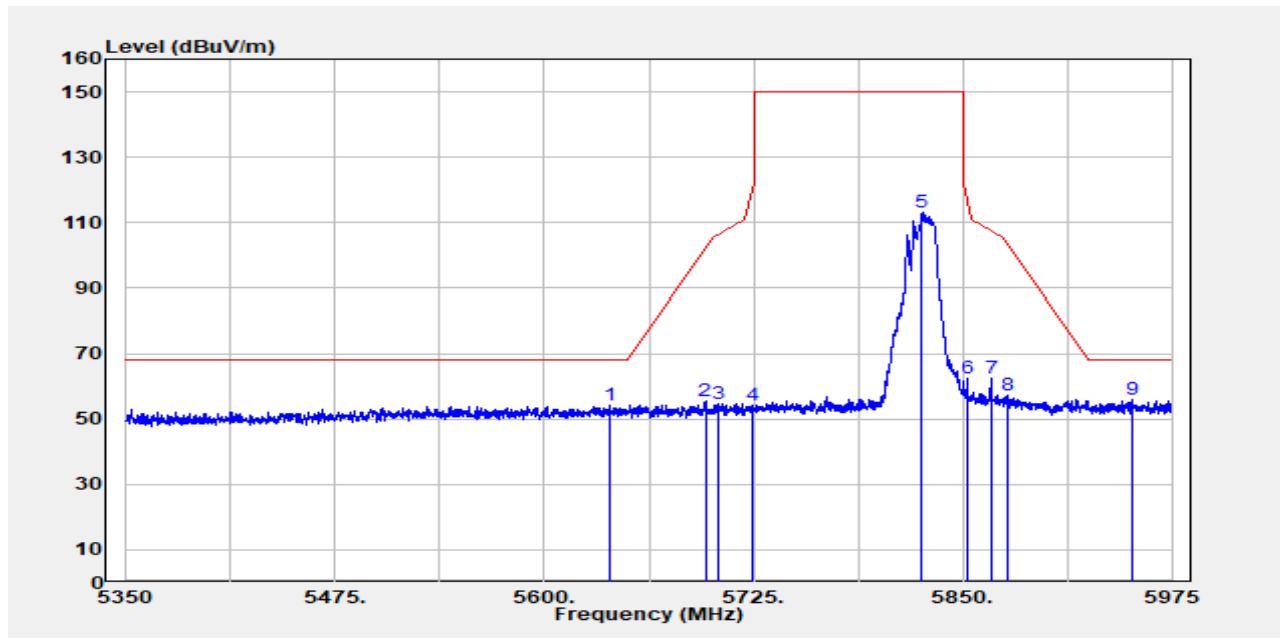
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Report Number :TERF2501000052E2
Operation Mode :802.11n20
Test Frequency :5825 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC G Chamber
Test Date :2025-02-21
Temp./Humi. :21.8°C/54%
Antenna Pol. :Vertical
Engineer :Temo Chen



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
5639.06	Peak	49.82	4.50	54.32	68.20	-13.88
5696.16	Peak	50.44	5.04	55.48	102.36	-46.88
5703.66	Peak	49.73	5.10	54.83	106.22	-51.39
5724.71	Peak	49.15	5.20	54.35	121.53	-67.18
5825.00	Peak	107.74	5.58	113.32	-	-
5853.08	Peak	56.45	5.81	62.26	115.17	-52.91
5867.05	Peak	56.34	5.94	62.28	107.43	-45.15
5877.05	Peak	51.33	6.04	57.37	103.68	-46.31
5951.66	Peak	49.89	6.16	56.05	68.20	-12.15

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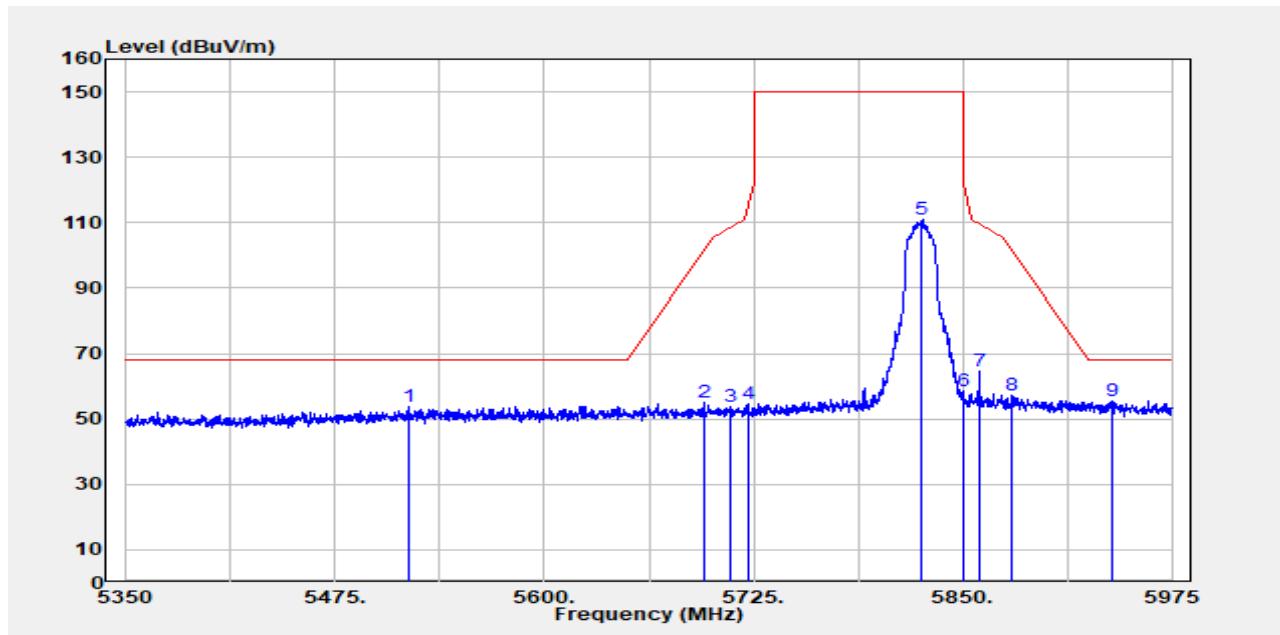
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Report Number :TERF2501000052E2
Operation Mode :802.11n20
Test Frequency :5825 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC G Chamber
Test Date :2025-02-21
Temp./Humi. :21.8°C/54%
Antenna Pol. :Horizontal
Engineer :Temo Chen



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
5519.22	Peak	49.32	4.66	53.98	68.20	-14.22
5695.12	Peak	49.92	5.03	54.95	101.59	-46.64
5711.16	Peak	48.75	5.14	53.89	108.33	-54.44
5721.79	Peak	49.28	5.19	54.47	114.88	-60.41
5825.00	Peak	105.42	5.58	111.00	-	-
5850.00	Peak	52.60	5.78	58.38	122.20	-63.82
5859.75	Peak	58.68	5.87	64.55	109.47	-44.92
5879.76	Peak	51.28	6.07	57.35	101.68	-44.33
5939.78	Peak	49.24	6.18	55.42	68.20	-12.78

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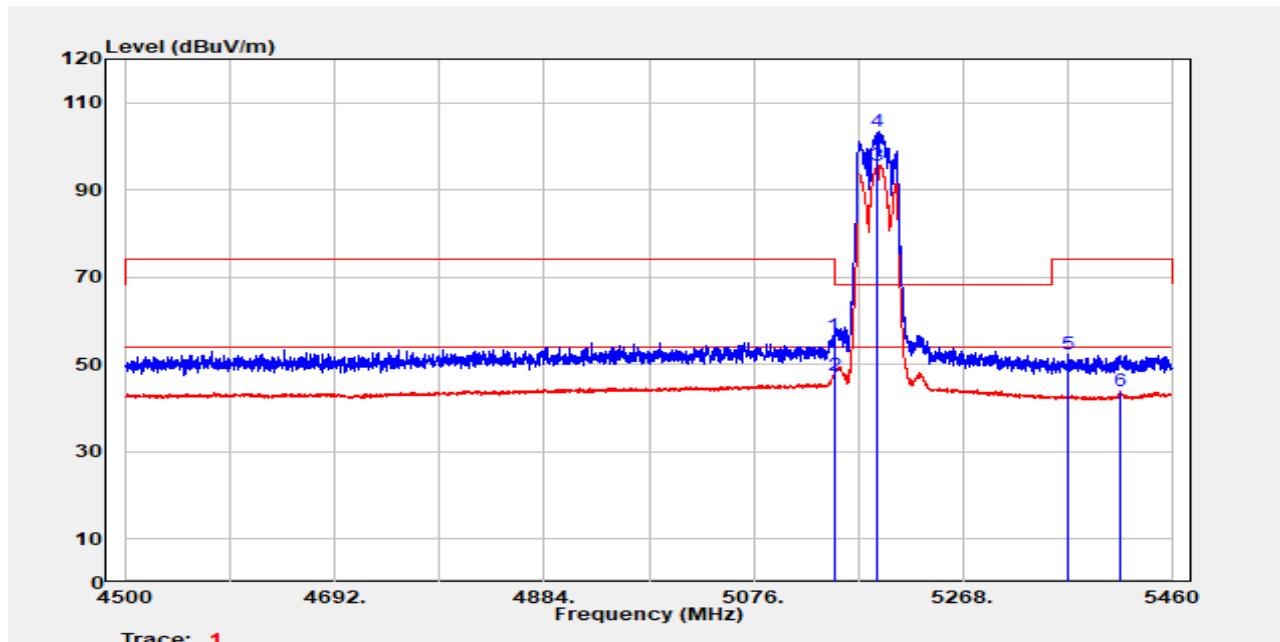
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Report Number :TERF2501000052E2
Operation Mode :802.11n40
Test Frequency :5190 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC G Chamber
Test Date :2025-02-21
Temp./Humi. :21.8°C/54%
Antenna Pol. :Vertical
Engineer :Temo Chen



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
5149.84	Peak	52.70	4.01	56.71	74.00	-17.29
5150.00	Average	43.60	4.01	47.61	54.00	-6.39
5190.00	Average	91.93	3.81	95.74	-	-
5190.00	Peak	99.47	3.81	103.28	-	-
5364.94	Peak	48.54	3.72	52.26	74.00	-21.74
5412.71	Average	39.96	3.86	43.82	54.00	-10.18

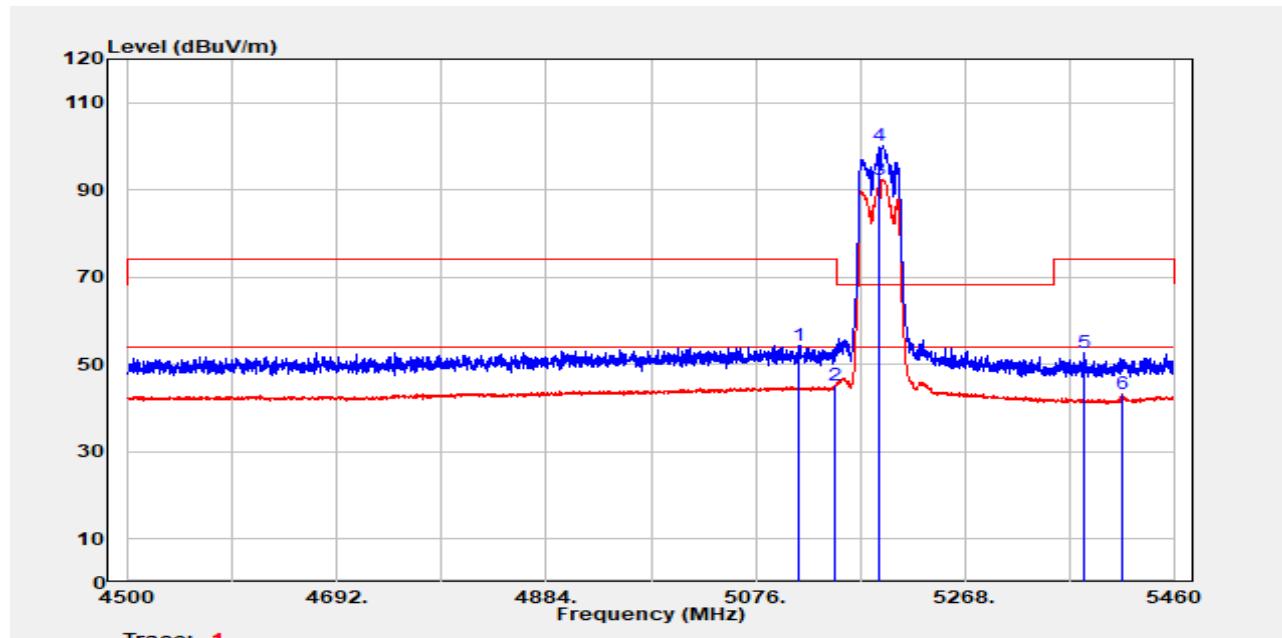
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Report Number :TERF2501000052E2
Operation Mode :802.11n40
Test Frequency :5190 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC G Chamber
Test Date :2025-02-21
Temp./Humi. :21.8°C/54%
Antenna Pol. :Horizontal
Engineer :Temo Chen



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
5116.47	Peak	50.30	4.17	54.47	74.00	-19.53
5149.36	Average	41.20	4.01	45.21	54.00	-8.79
5190.00	Average	88.65	3.81	92.46	-	-
5190.00	Peak	96.22	3.81	100.03	-	-
5378.62	Peak	48.92	3.71	52.63	74.00	-21.37
5412.47	Average	39.29	3.85	43.14	54.00	-10.86

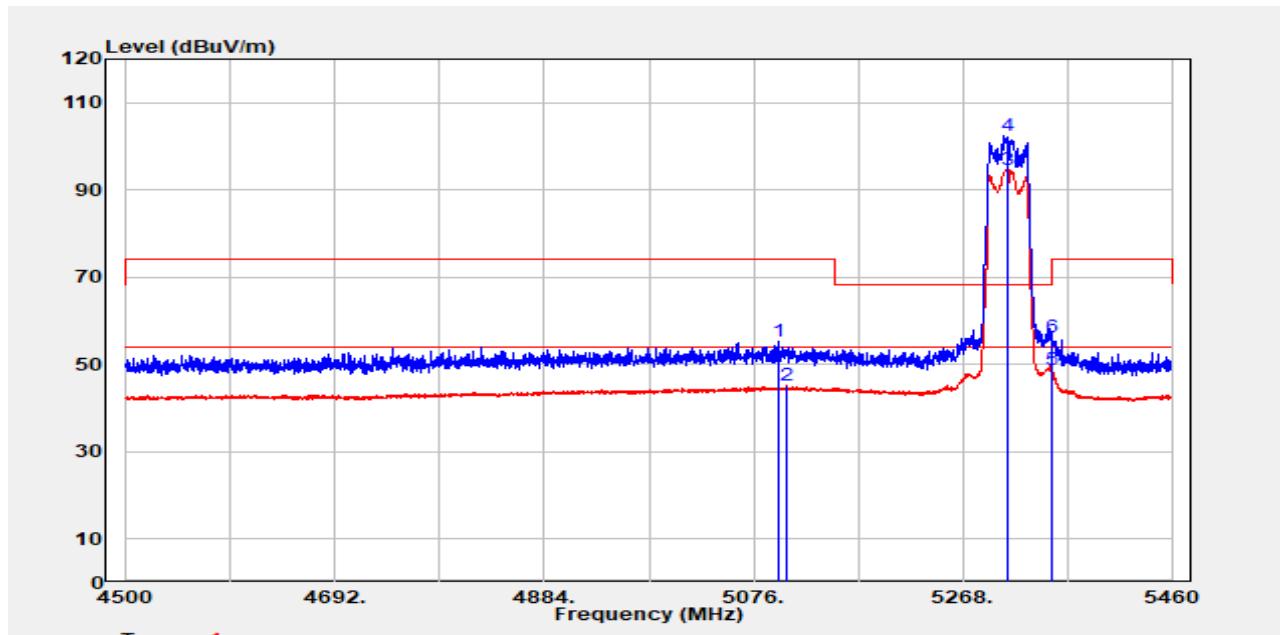
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Report Number :TERF2501000052E2
Operation Mode :802.11n40
Test Frequency :5310 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC G Chamber
Test Date :2025-02-21
Temp./Humi. :21.8°C/54%
Antenna Pol. :Vertical
Engineer :Temo Chen



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
5099.67	Peak	51.05	4.25	55.30	74.00	-18.70
5107.11	Average	40.89	4.22	45.11	54.00	-8.89
5310.00	Average	90.96	3.73	94.69	-	-
5310.00	Peak	98.86	3.73	102.59	-	-
5350.05	Average	44.95	3.72	48.67	54.00	-5.33
5350.29	Peak	52.48	3.72	56.20	74.00	-17.80

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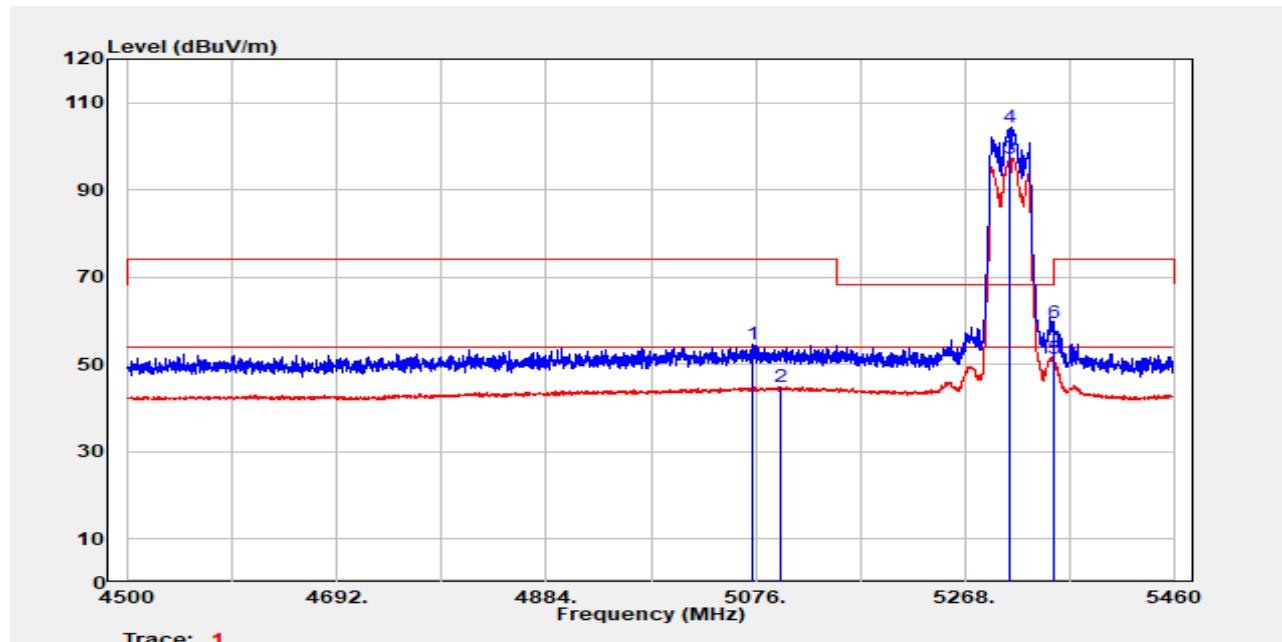
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Report Number :TERF2501000052E2
Operation Mode :802.11n40
Test Frequency :5310 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC G Chamber
Test Date :2025-02-21
Temp./Humi. :21.8°C/54%
Antenna Pol. :Horizontal
Engineer :Temo Chen



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
5073.26	Peak	50.43	4.15	54.58	74.00	-19.42
5098.71	Average	40.64	4.24	44.88	54.00	-9.12
5310.00	Average	93.51	3.73	97.24	-	-
5310.00	Peak	100.55	3.73	104.28	-	-
5350.05	Average	47.53	3.72	51.25	54.00	-2.75
5350.05	Peak	55.81	3.72	59.53	74.00	-14.47

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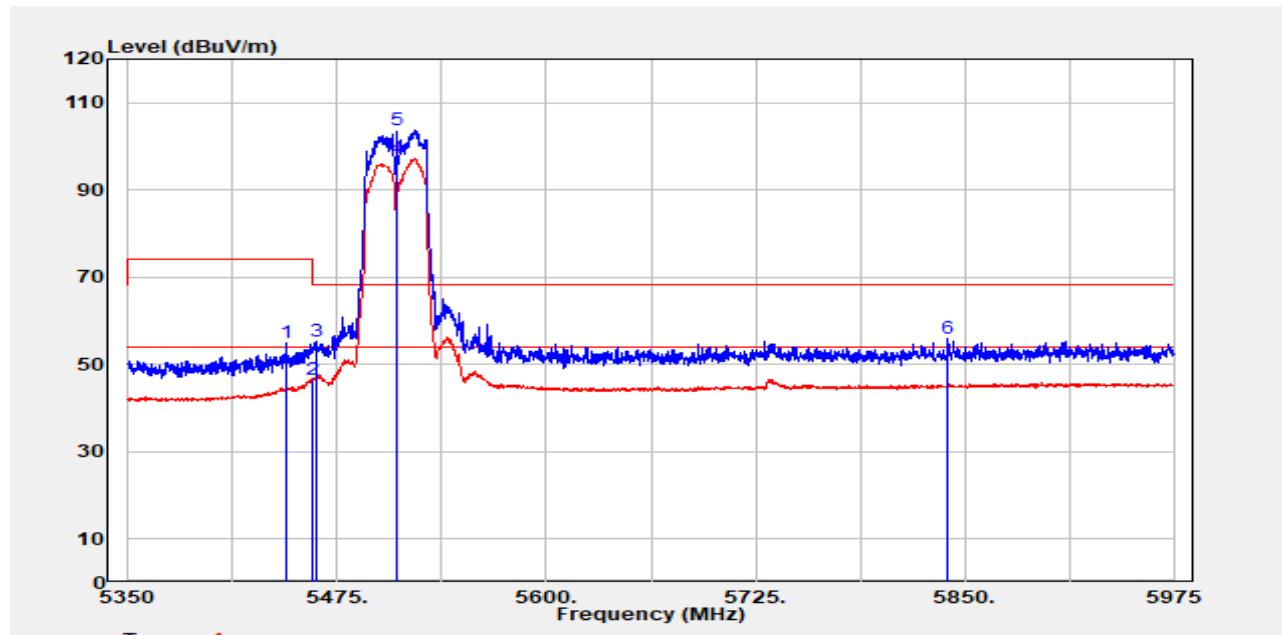
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Report Number :TERF2501000052E2
Operation Mode :802.11n40
Test Frequency :5510 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC G Chamber
Test Date :2025-02-21
Temp./Humi. :21.8°C/54%
Antenna Pol. :Vertical
Engineer :Temo Chen



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
5444.20	Peak	50.63	4.23	54.86	74.00	-19.14
5459.83	Average	42.05	4.39	46.44	54.00	-7.56
5461.91	Peak	50.86	4.42	55.28	68.20	-12.92
5510.00	Average	92.39	4.71	97.10	-	-
5510.00	Peak	99.08	4.71	103.79	-	-
5839.54	Peak	50.13	5.70	55.83	68.20	-12.37

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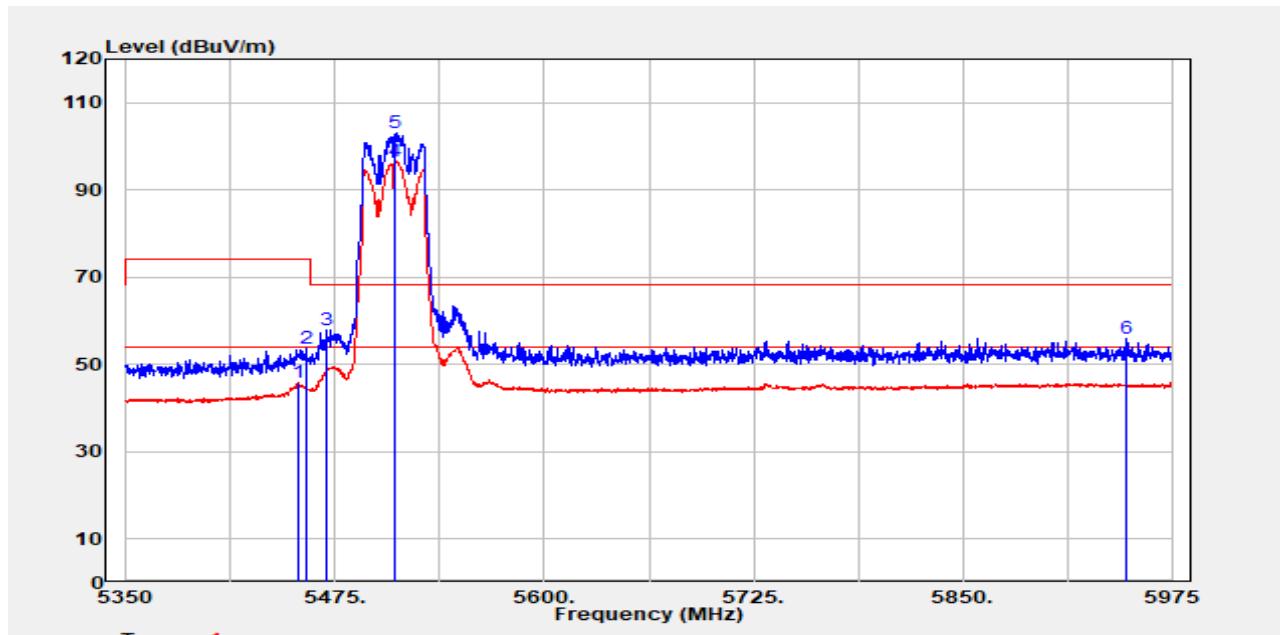
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Report Number :TERF2501000052E2
Operation Mode :802.11n40
Test Frequency :5510 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC G Chamber
Test Date :2025-02-21
Temp./Humi. :21.8°C/54%
Antenna Pol. :Horizontal
Engineer :Temo Chen



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
5452.33	Average	41.45	4.32	45.77	54.00	-8.23
5457.74	Peak	49.29	4.38	53.67	74.00	-20.33
5470.00	Peak	53.30	4.50	57.80	68.20	-10.40
5510.00	Average	91.73	4.71	96.44	-	-
5510.00	Peak	98.46	4.71	103.17	-	-
5947.70	Peak	49.84	6.17	56.01	68.20	-12.19

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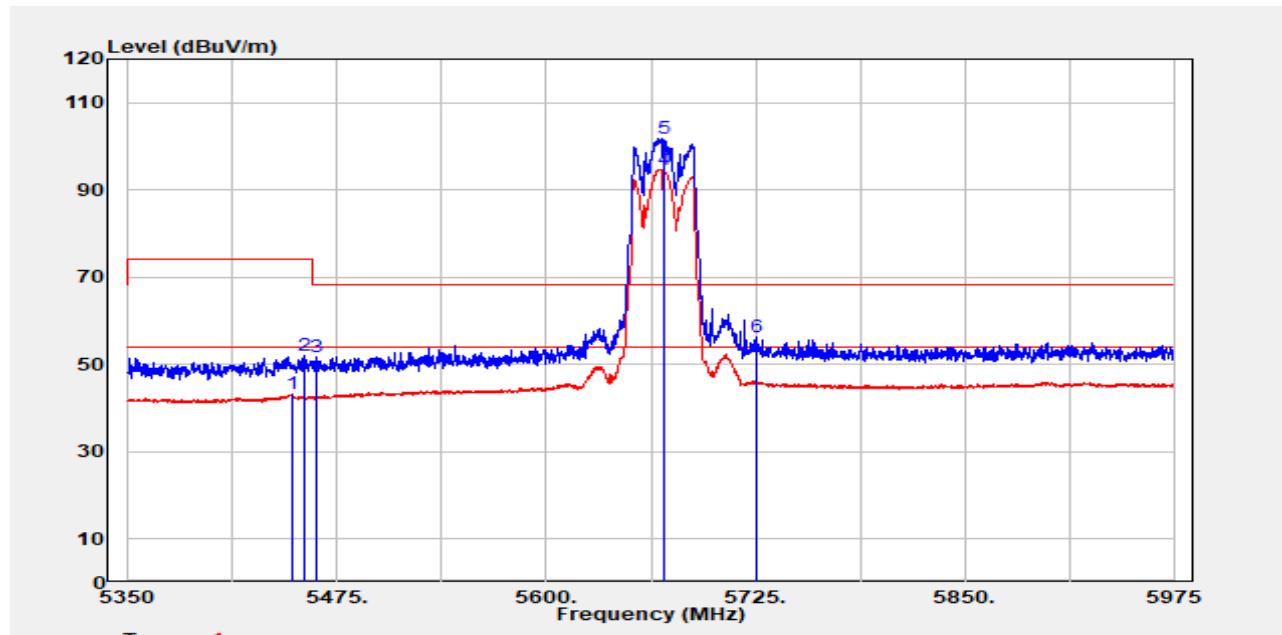
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Report Number :TERF2501000052E2
Operation Mode :802.11n40
Test Frequency :5670 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC G Chamber
Test Date :2025-02-21
Temp./Humi. :21.8°C/54%
Antenna Pol. :Vertical
Engineer :Temo Chen



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
5447.95	Average	38.92	4.28	43.20	54.00	-10.80
5454.83	Peak	47.72	4.35	52.07	74.00	-21.93
5462.95	Peak	47.40	4.42	51.82	68.20	-16.38
5670.00	Average	90.01	4.78	94.79	-	-
5670.00	Peak	97.00	4.78	101.78	-	-
5725.13	Peak	50.91	5.21	56.12	68.20	-12.08

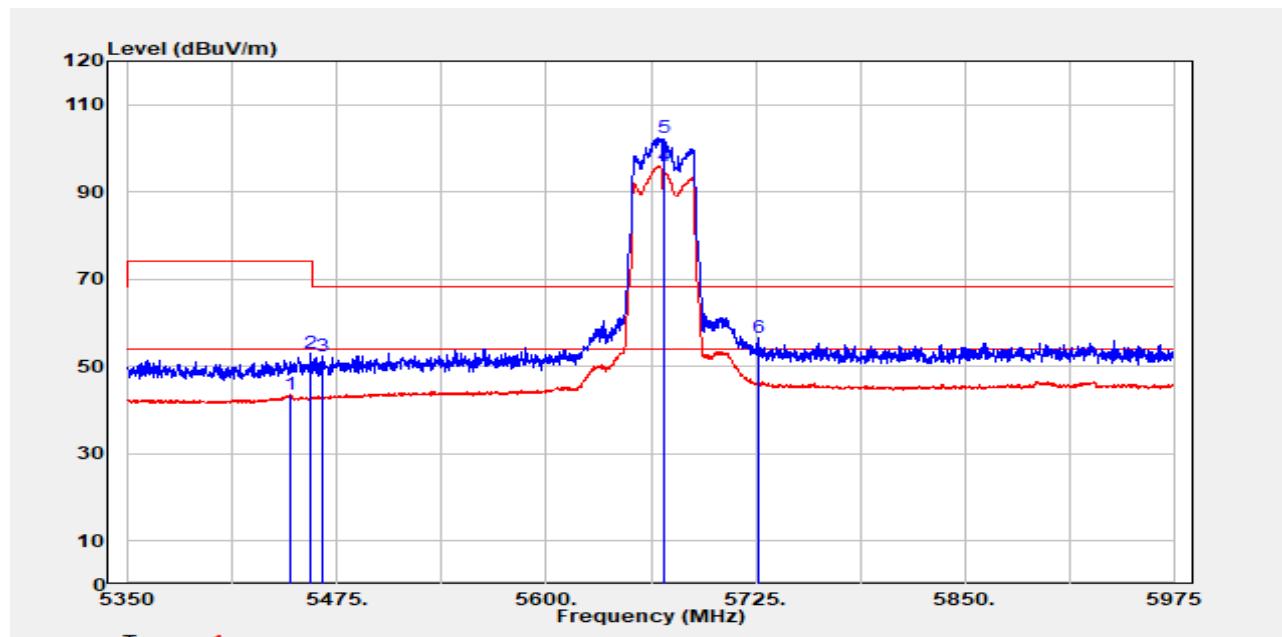
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Report Number :TERF2501000052E2
Operation Mode :802.11n40
Test Frequency :5670 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC G Chamber
Test Date :2025-02-21
Temp./Humi. :21.8°C/54%
Antenna Pol. :Horizontal
Engineer :Temo Chen



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
5446.70	Average	39.16	4.26	43.42	54.00	-10.58
5458.58	Peak	48.69	4.37	53.06	74.00	-20.94
5465.66	Peak	47.85	4.45	52.30	68.20	-15.90
5670.00	Average	91.01	4.78	95.79	-	-
5670.00	Peak	97.76	4.78	102.54	-	-
5726.38	Peak	51.50	5.22	56.72	68.20	-11.48

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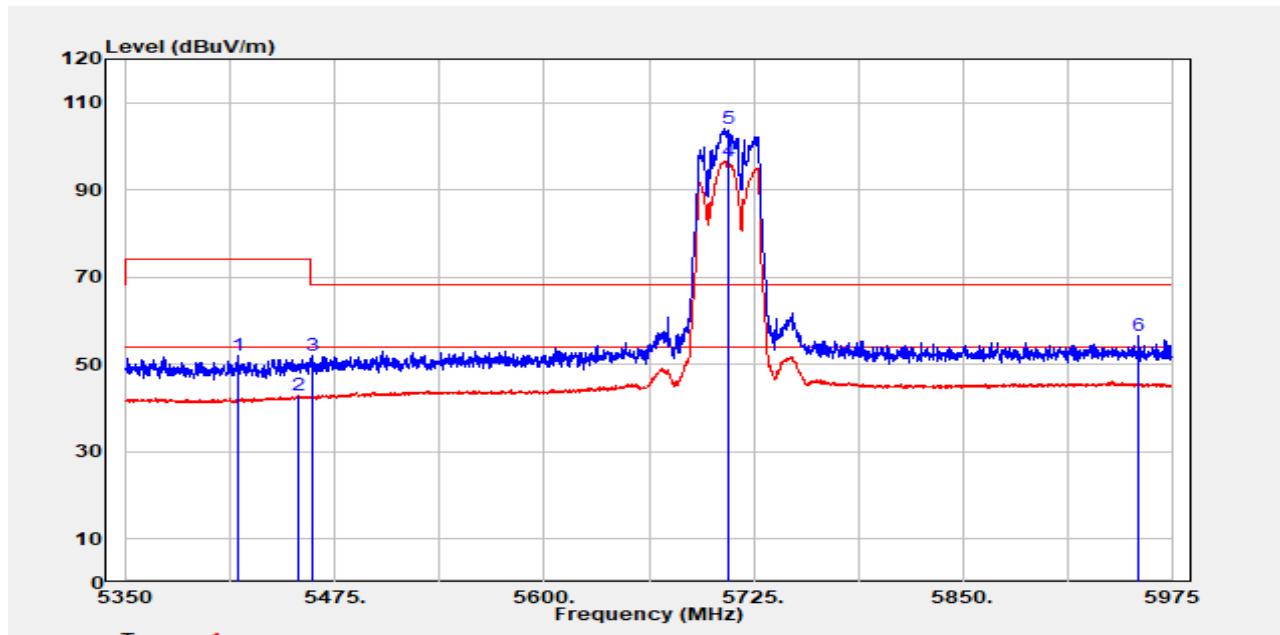
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Report Number :TERF2501000052E2
Operation Mode :802.11n40
Test Frequency :5710 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC G Chamber
Test Date :2025-02-21
Temp./Humi. :21.8°C/54%
Antenna Pol. :Vertical
Engineer :Temo Chen



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
5416.27	Peak	48.04	3.90	51.94	74.00	-22.06
5452.74	Average	38.57	4.33	42.90	54.00	-11.10
5461.50	Peak	47.49	4.41	51.90	68.20	-16.30
5710.00	Average	91.43	5.13	96.56	-	-
5710.00	Peak	98.81	5.13	103.94	-	-
5955.20	Peak	50.37	6.15	56.52	68.20	-11.68

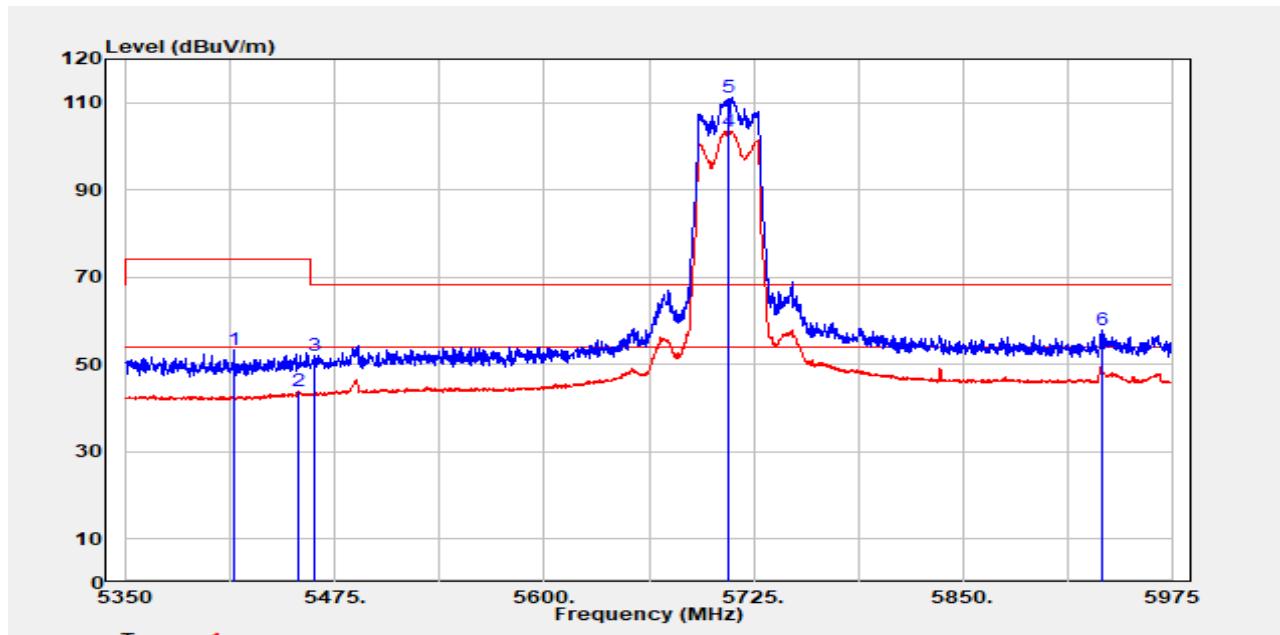
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Report Number :TERF2501000052E2
Operation Mode :802.11n40
Test Frequency :5710 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC G Chamber
Test Date :2025-02-21
Temp./Humi. :21.8°C/54%
Antenna Pol. :Horizontal
Engineer :Temo Chen



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
5414.40	Peak	49.43	3.88	53.31	74.00	-20.69
5452.95	Average	39.69	4.33	44.02	54.00	-9.98
5462.33	Peak	47.51	4.42	51.93	68.20	-16.27
5710.00	Average	98.36	5.13	103.49	-	-
5710.00	Peak	106.24	5.13	111.37	-	-
5932.90	Peak	51.62	6.19	57.81	68.20	-10.39

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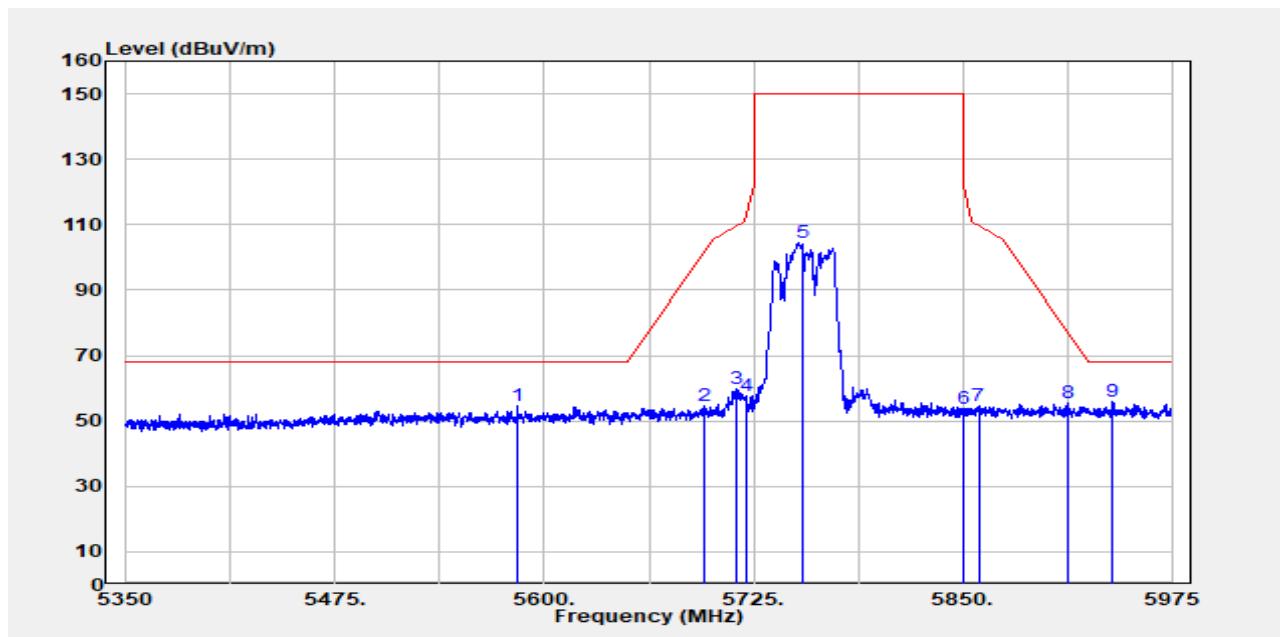
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Report Number :TERF2501000052E2
Operation Mode :802.11n40
Test Frequency :5755 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC G Chamber
Test Date :2025-02-21
Temp./Humi. :21.8°C/54%
Antenna Pol. :Vertical
Engineer :Temo Chen



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
5583.41	Peak	50.22	4.26	54.48	68.20	-13.72
5695.74	Peak	49.51	5.03	54.54	102.05	-47.51
5714.91	Peak	54.70	5.15	59.85	109.38	-49.53
5720.54	Peak	52.52	5.18	57.70	112.03	-54.33
5755.00	Peak	98.96	5.34	104.30	-	-
5851.00	Peak	48.14	5.79	53.93	119.92	-65.99
5859.55	Peak	48.55	5.87	54.42	109.53	-55.11
5912.48	Peak	49.15	6.23	55.38	77.47	-22.09
5939.99	Peak	49.60	6.18	55.78	68.20	-12.42

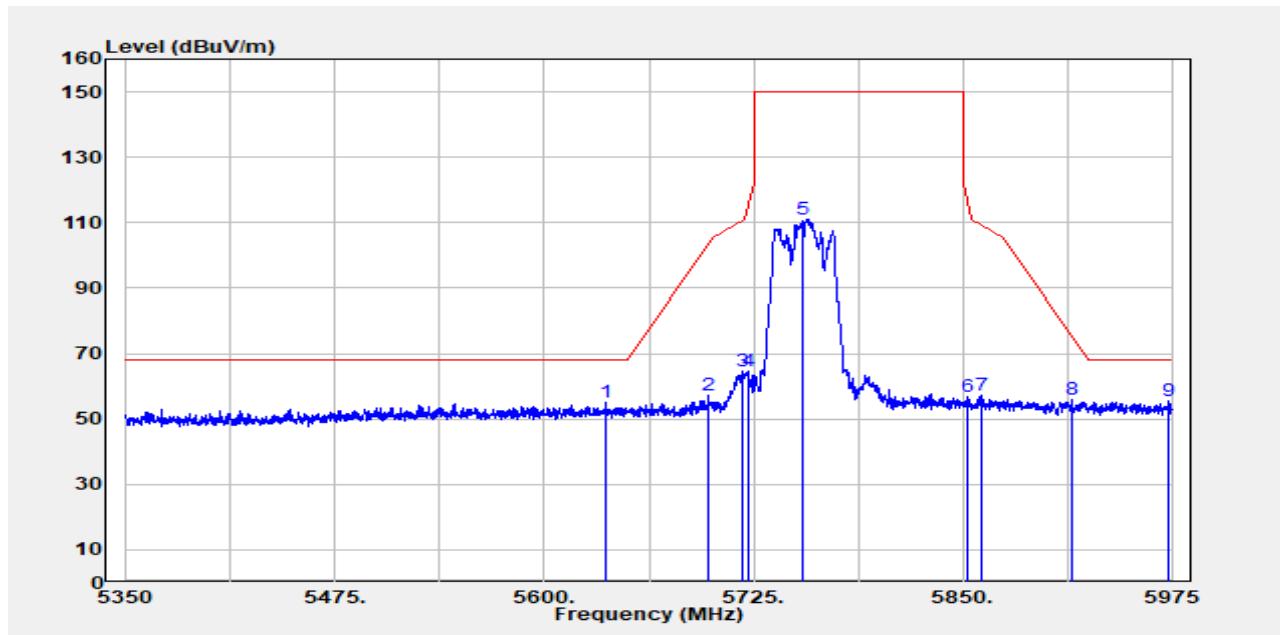
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Report Number :TERF2501000052E2
Operation Mode :802.11n40
Test Frequency :5755 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC G Chamber
Test Date :2025-02-21
Temp./Humi. :21.8°C/54%
Antenna Pol. :Horizontal
Engineer :Temo Chen



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
5636.76	Peak	50.56	4.48	55.04	68.20	-13.16
5698.03	Peak	52.12	5.06	57.18	103.74	-46.56
5718.67	Peak	59.24	5.17	64.41	110.43	-46.02
5721.58	Peak	59.29	5.19	64.48	114.41	-49.93
5755.00	Peak	105.88	5.34	111.22	-	-
5853.29	Peak	50.80	5.81	56.61	114.69	-58.08
5861.42	Peak	51.34	5.88	57.22	109.00	-51.78
5915.40	Peak	49.52	6.23	55.75	75.31	-19.56
5973.33	Peak	49.35	6.11	55.46	68.20	-12.74

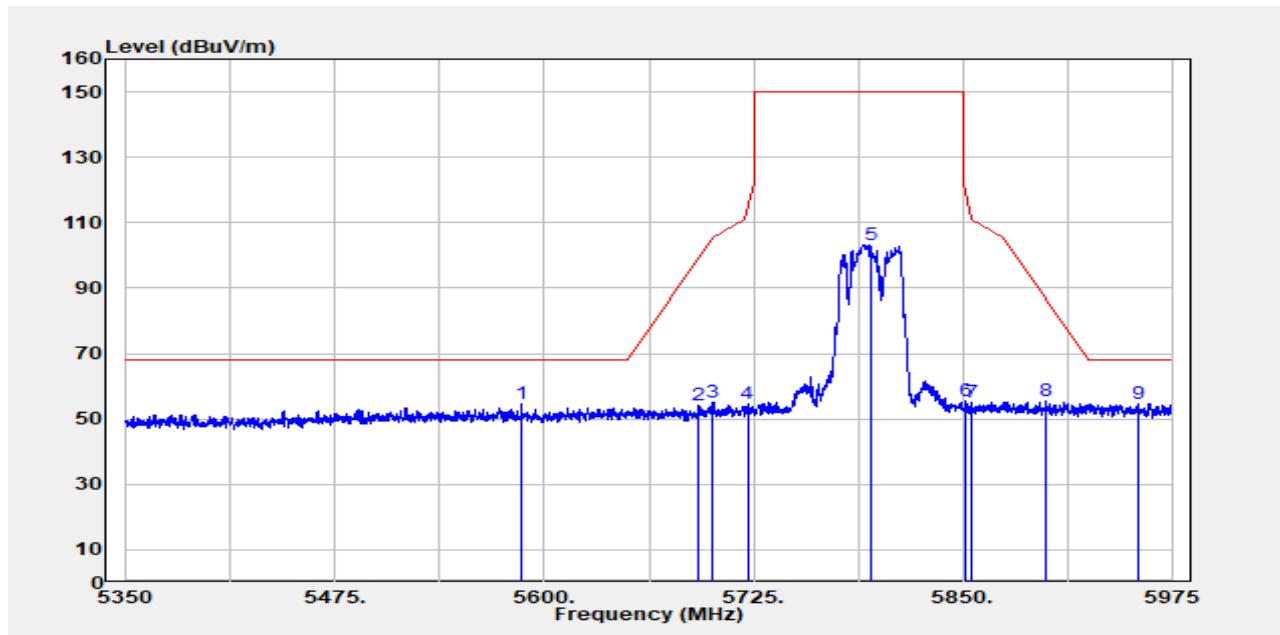
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Report Number :TERF2501000052E2 Test Site :SAC G Chamber
Operation Mode :802.11n40 Test Date :2025-02-21
Test Frequency :5795 MHz Temp./Humi. :21.8°C/54%
Test Mode :Bandedge Antenna Pol. :Vertical
EUT Pol :E2 Plane Engineer :Temo Chen



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
5586.33	Peak	50.58	4.26	54.84	68.20	-13.36
5691.99	Peak	49.20	5.00	54.20	99.27	-45.07
5700.74	Peak	50.17	5.08	55.25	105.41	-50.16
5721.37	Peak	49.57	5.19	54.76	113.93	-59.17
5795.00	Peak	97.95	5.39	103.34	-	-
5851.63	Peak	49.59	5.79	55.38	118.50	-63.12
5855.59	Peak	49.40	5.83	55.23	110.64	-55.41
5899.98	Peak	49.45	6.26	55.71	86.72	-31.01
5955.20	Peak	48.55	6.15	54.70	68.20	-13.50

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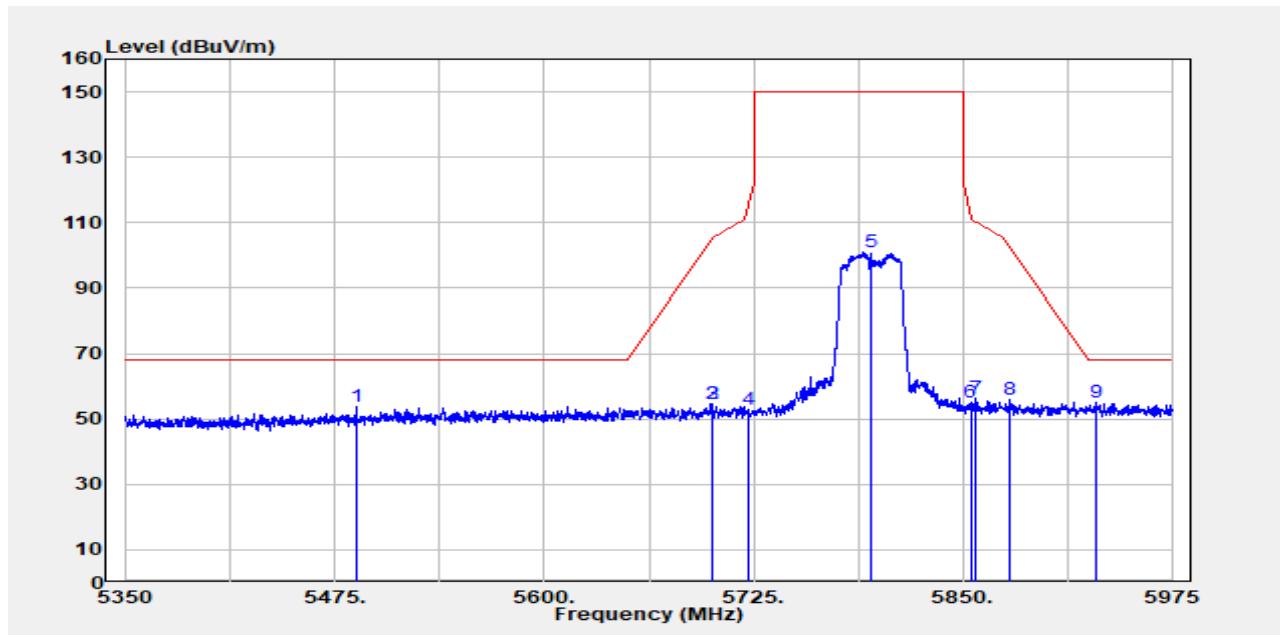
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Report Number :TERF2501000052E2
Operation Mode :802.11n40
Test Frequency :5795 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC G Chamber
Test Date :2025-02-21
Temp./Humi. :21.8°C/54%
Antenna Pol. :Horizontal
Engineer :Temo Chen



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
5487.34	Peak	49.19	4.67	53.86	68.20	-14.34
5699.91	Peak	49.63	5.08	54.71	105.13	-50.42
5699.91	Peak	49.63	5.08	54.71	105.13	-50.42
5721.79	Peak	47.66	5.19	52.85	114.88	-62.03
5795.00	Peak	95.63	5.39	101.02	-	-
5854.75	Peak	49.30	5.82	55.12	111.37	-56.25
5858.09	Peak	50.63	5.85	56.48	109.94	-53.46
5878.51	Peak	49.94	6.05	55.99	102.60	-46.61
5929.57	Peak	48.73	6.20	54.93	68.20	-13.27

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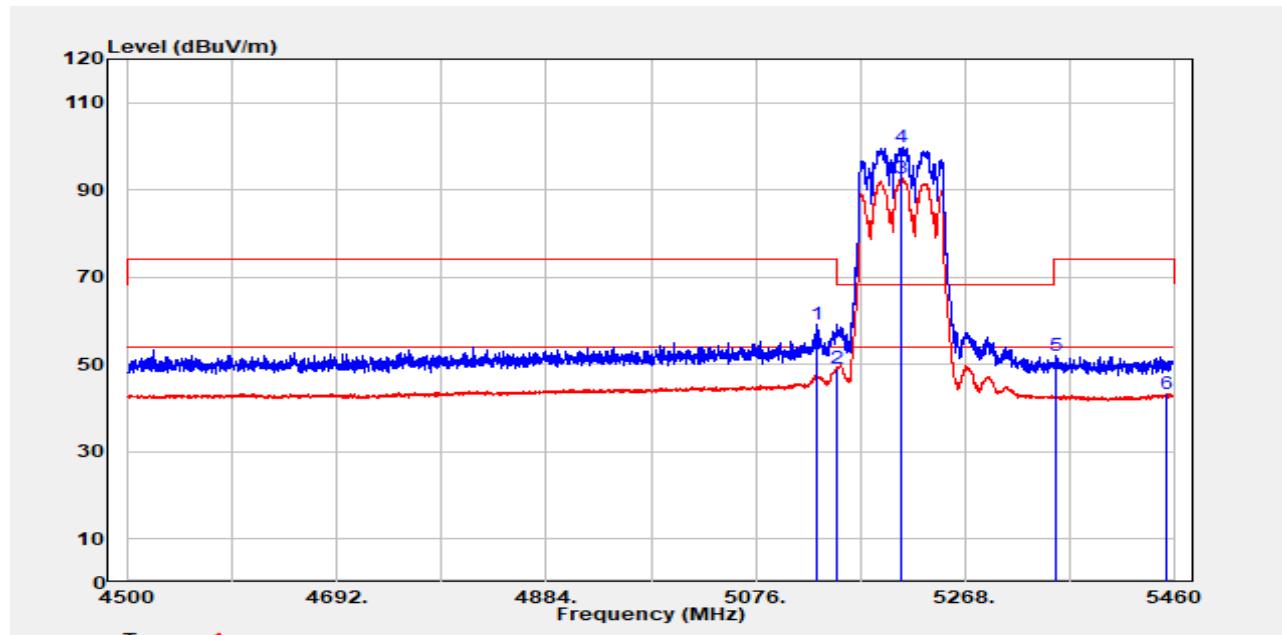
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Report Number :TERF2501000052E2
Operation Mode :802.11ac80
Test Frequency :5210 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC G Chamber
Test Date :2025-02-21
Temp./Humi. :21.8°C/54%
Antenna Pol. :Vertical
Engineer :Temo Chen



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
5132.08	Peak	55.07	4.10	59.17	74.00	-14.83
5150.00	Average	45.01	4.01	49.02	54.00	-4.98
5210.00	Average	89.03	3.75	92.78	-	-
5210.00	Peak	96.17	3.75	99.92	-	-
5352.69	Peak	48.17	3.72	51.89	74.00	-22.11
5452.80	Average	38.83	4.33	43.16	54.00	-10.84

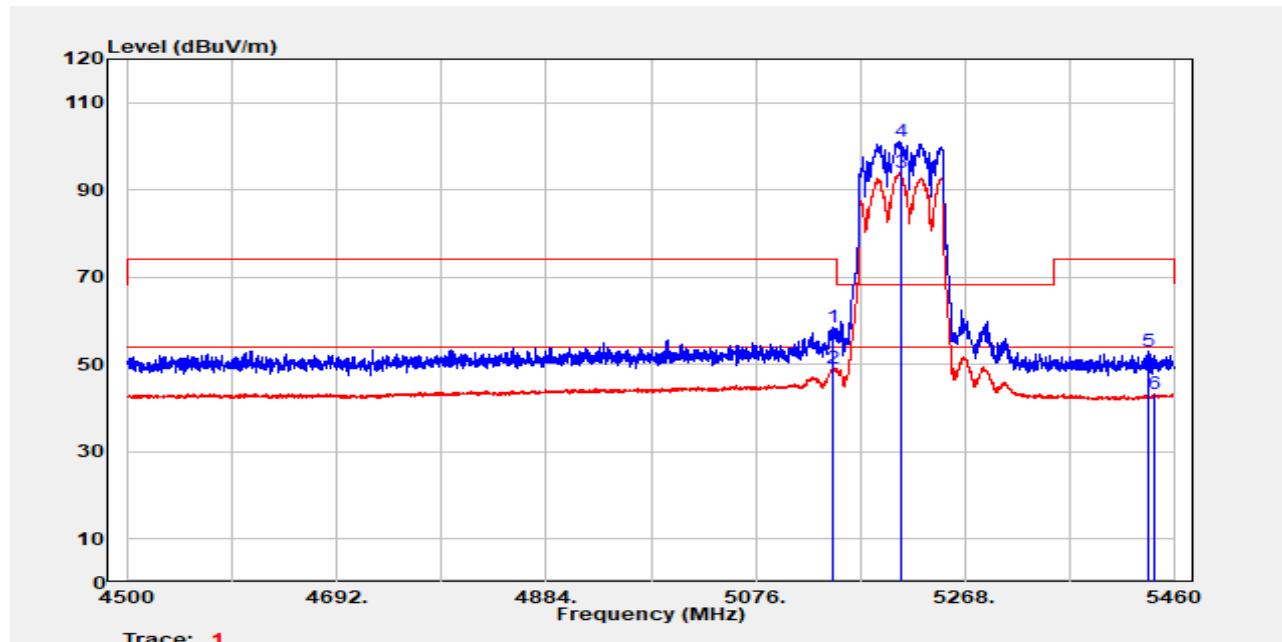
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Report Number :TERF2501000052E2
Operation Mode :802.11ac80
Test Frequency :5210 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC G Chamber
Test Date :2025-02-21
Temp./Humi. :21.8°C/54%
Antenna Pol. :Horizontal
Engineer :Temo Chen



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
5146.96	Peak	54.54	4.02	58.56	74.00	-15.44
5147.68	Average	45.25	4.01	49.26	54.00	-4.74
5210.00	Average	90.12	3.75	93.87	-	-
5210.00	Peak	97.49	3.75	101.24	-	-
5437.67	Peak	48.78	4.16	52.94	74.00	-21.06
5442.00	Average	39.03	4.20	43.23	54.00	-10.77

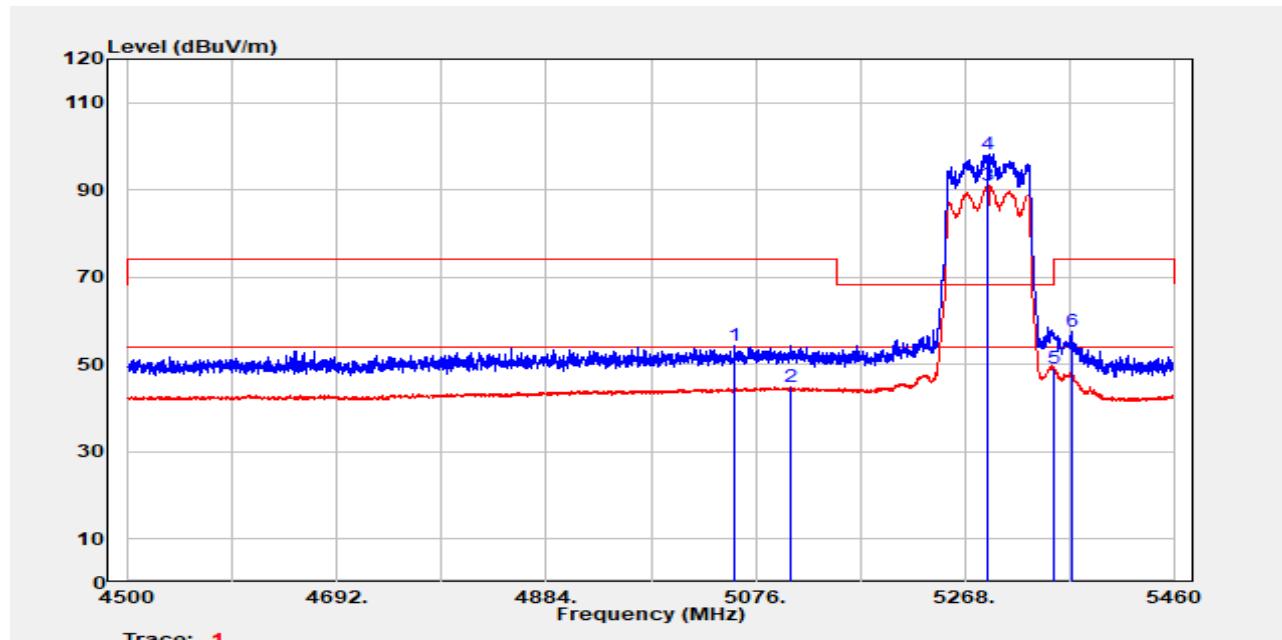
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Report Number :TERF2501000052E2
Operation Mode :802.11ac80
Test Frequency :5290 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC G Chamber
Test Date :2025-02-21
Temp./Humi. :21.8°C/54%
Antenna Pol. :Vertical
Engineer :Temo Chen



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
5056.70	Peak	50.29	4.10	54.39	74.00	-19.61
5107.83	Average	40.56	4.21	44.77	54.00	-9.23
5290.00	Average	87.22	3.73	90.95	-	-
5290.00	Peak	94.44	3.73	98.17	-	-
5350.53	Average	45.34	3.72	49.06	54.00	-4.94
5366.14	Peak	53.67	3.73	57.40	74.00	-16.60

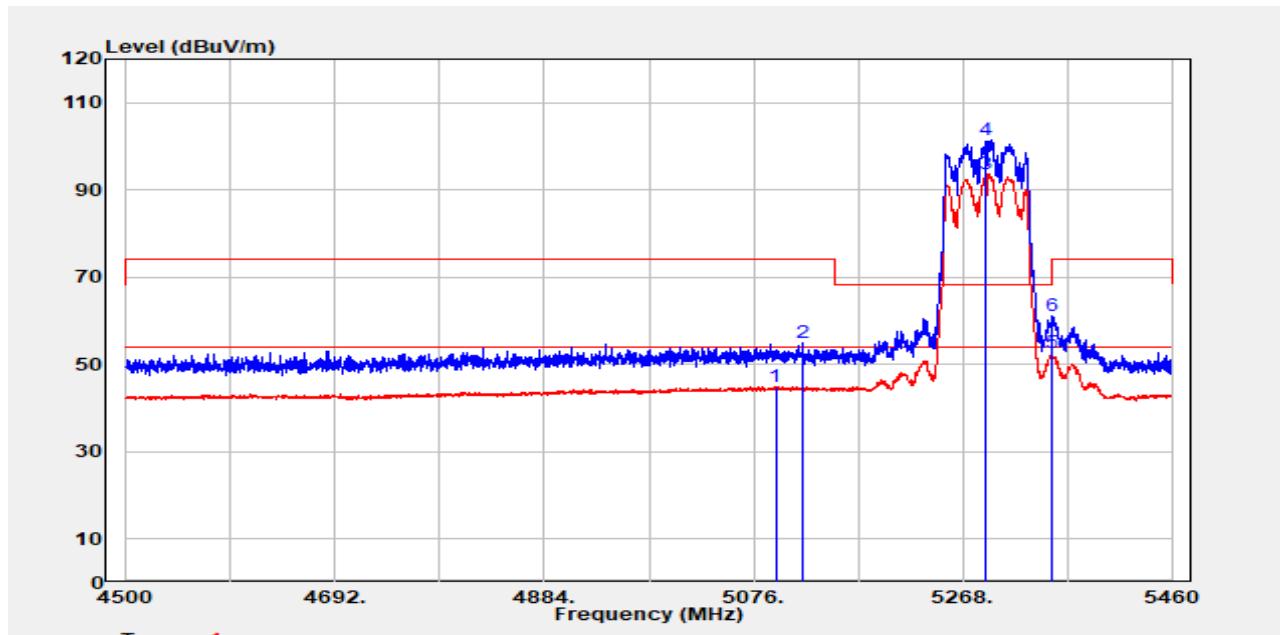
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Report Number :TERF2501000052E2
Operation Mode :802.11ac80
Test Frequency :5290 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC G Chamber
Test Date :2025-02-21
Temp./Humi. :21.8°C/54%
Antenna Pol. :Horizontal
Engineer :Temo Chen



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
5096.31	Average	40.69	4.24	44.93	54.00	-9.07
5121.28	Peak	50.80	4.15	54.95	74.00	-19.05
5290.00	Average	90.07	3.73	93.80	-	-
5290.00	Peak	97.59	3.73	101.32	-	-
5350.05	Average	48.93	3.72	52.65	54.00	-1.35
5350.77	Peak	57.36	3.72	61.08	74.00	-12.92

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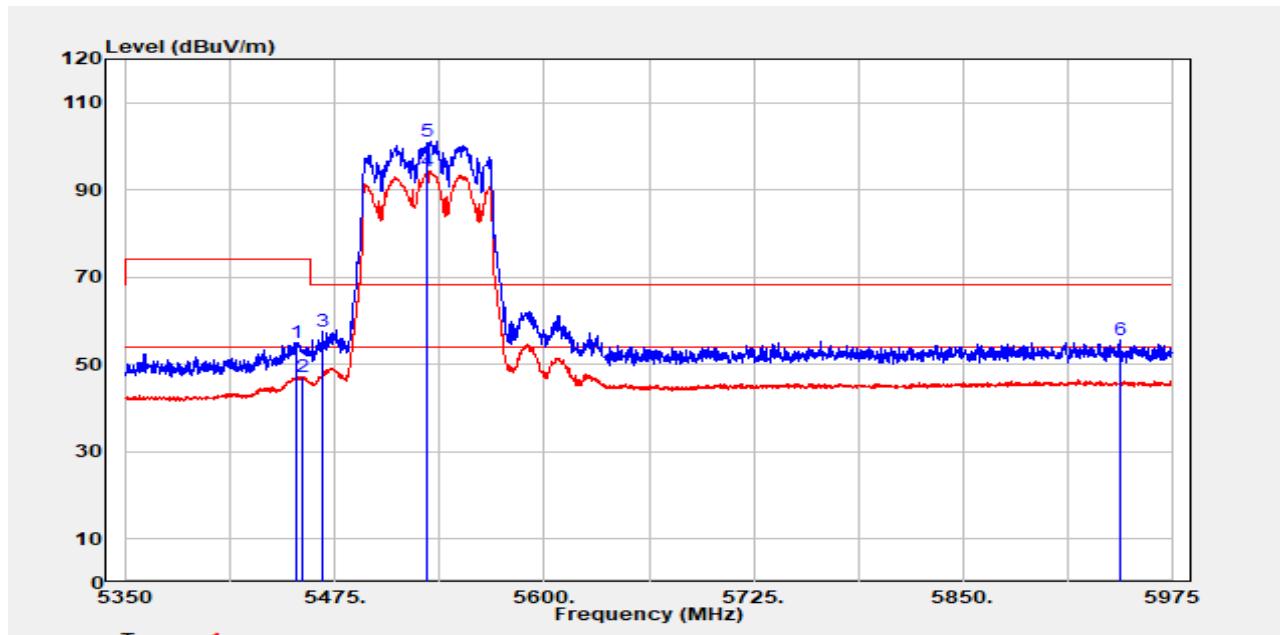
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Report Number :TERF2501000052E2 Test Site :SAC G Chamber
 Operation Mode :802.11ac80 Test Date :2025-02-21
 Test Frequency :5530 MHz Temp./Humi. :21.8°C/54%
 Test Mode :Bandedge Antenna Pol. :Vertical
 EUT Pol :E2 Plane Engineer :Temo Chen



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
5451.91	Peak	50.74	4.32	55.06	74.00	-18.94
5455.04	Average	42.90	4.35	47.25	54.00	-6.75
5467.12	Peak	53.14	4.47	57.61	68.20	-10.59
5530.00	Average	89.72	4.57	94.29	-	-
5530.00	Peak	96.57	4.57	101.14	-	-
5943.74	Peak	49.41	6.18	55.59	68.20	-12.61

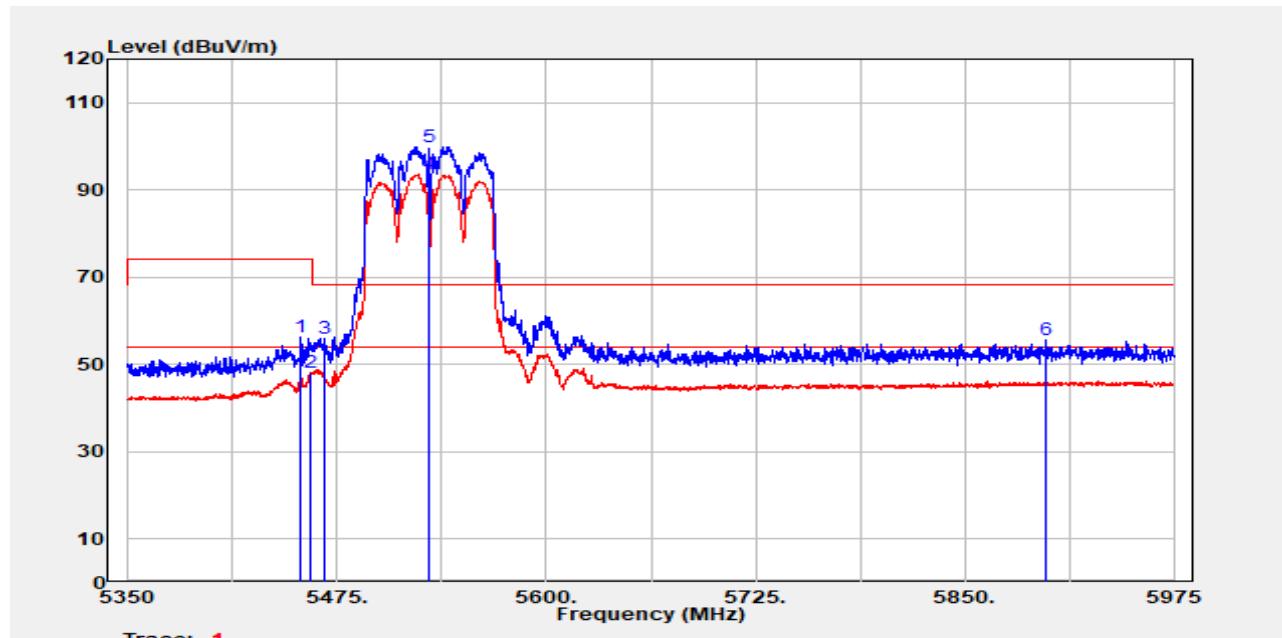
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Report Number :TERF2501000052E2
Operation Mode :802.11ac80
Test Frequency :5530 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC G Chamber
Test Date :2025-02-21
Temp./Humi. :21.8°C/54%
Antenna Pol. :Horizontal
Engineer :Temo Chen



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
5452.74	Peak	52.07	4.33	56.40	74.00	-17.60
5458.58	Average	43.74	4.37	48.11	54.00	-5.89
5467.12	Peak	51.54	4.47	56.01	68.20	-12.19
5530.00	Average	88.94	4.57	93.51	-	-
5530.00	Peak	95.36	4.57	99.93	-	-
5898.93	Peak	49.28	6.25	55.53	68.20	-12.67

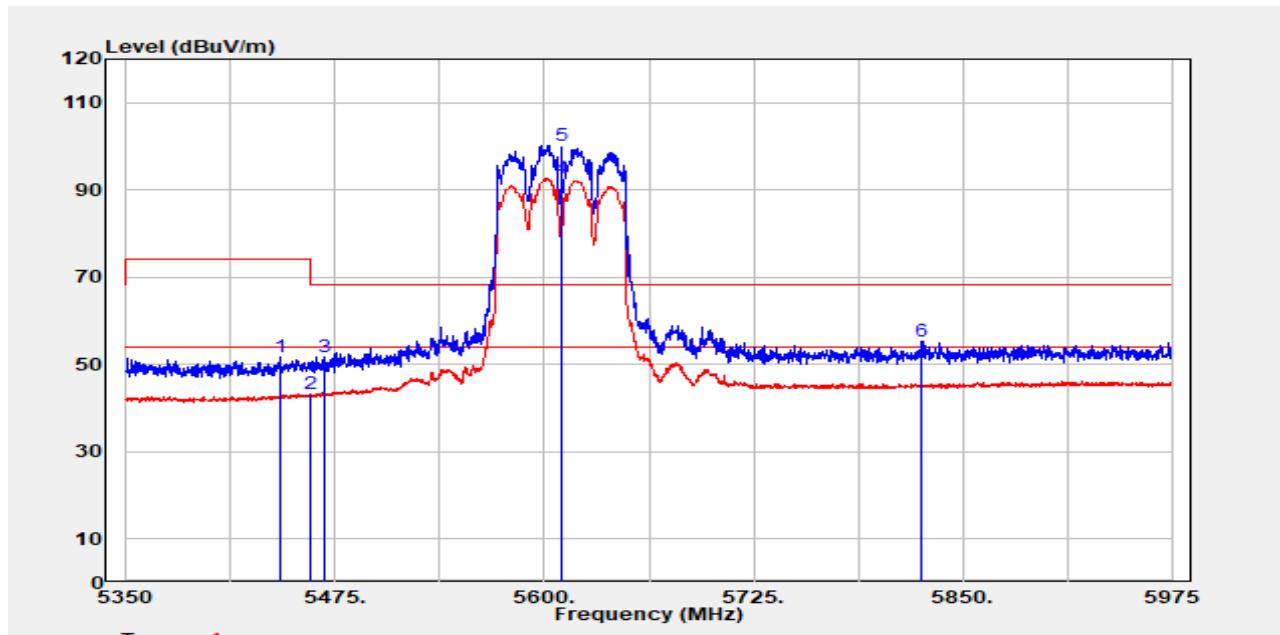
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Report Number :TERF2501000052E2
Operation Mode :802.11ac80
Test Frequency :5610 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC G Chamber
Test Date :2025-02-21
Temp./Humi. :21.8°C/54%
Antenna Pol. :Vertical
Engineer :Temo Chen



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
5442.11	Peak	47.55	4.20	51.75	74.00	-22.25
5459.83	Average	38.95	4.39	43.34	54.00	-10.66
5468.58	Peak	47.38	4.48	51.86	68.20	-16.34
5610.00	Average	88.43	4.26	92.69	-	-
5610.00	Peak	95.93	4.26	100.19	-	-
5825.78	Peak	49.82	5.59	55.41	68.20	-12.79

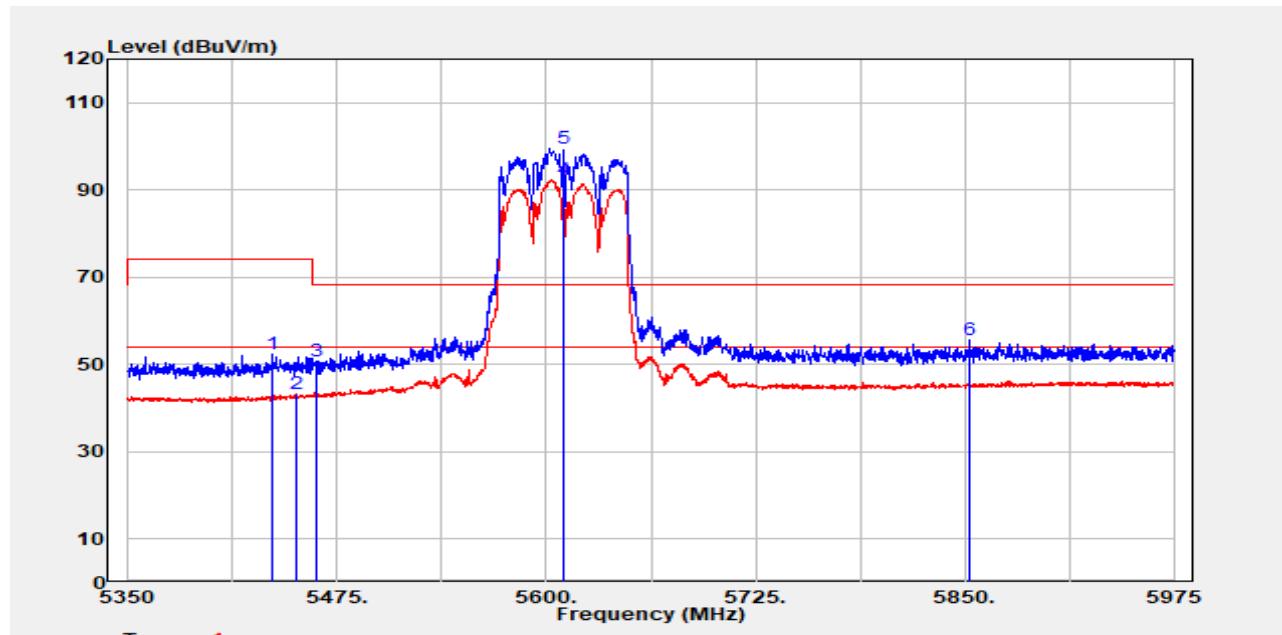
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Report Number :TERF2501000052E2
Operation Mode :802.11ac80
Test Frequency :5610 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC G Chamber
Test Date :2025-02-21
Temp./Humi. :21.8°C/54%
Antenna Pol. :Horizontal
Engineer :Temo Chen



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
5435.86	Peak	48.21	4.14	52.35	74.00	-21.65
5450.66	Average	38.80	4.30	43.10	54.00	-10.90
5461.91	Peak	46.39	4.42	50.81	68.20	-17.39
5610.00	Average	88.20	4.26	92.46	-	-
5610.00	Peak	95.29	4.26	99.55	-	-
5852.88	Peak	49.82	5.81	55.63	68.20	-12.57

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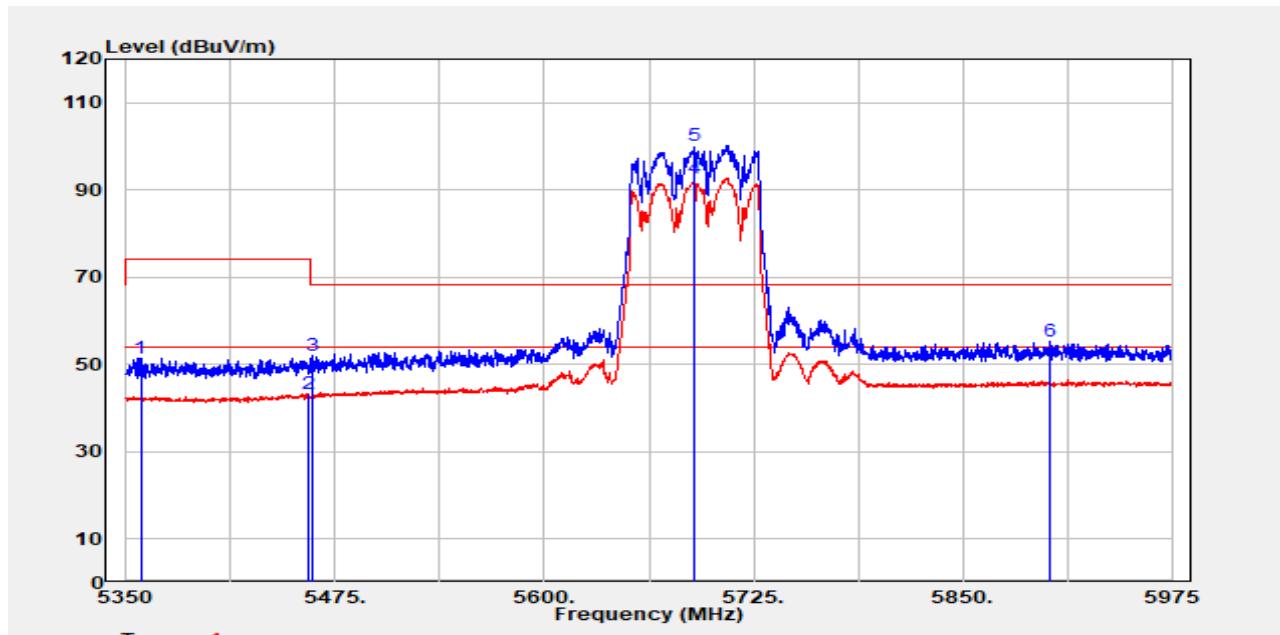
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Member of SGS Group

Report Number :TERF2501000052E2
Operation Mode :802.11ac80
Test Frequency :5690 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC G Chamber
Test Date :2025-02-21
Temp./Humi. :21.8°C/54%
Antenna Pol. :Vertical
Engineer :Temo Chen



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
5358.54	Peak	47.70	3.72	51.42	74.00	-22.58
5458.37	Average	38.97	4.37	43.34	54.00	-10.66
5460.87	Peak	47.48	4.40	51.88	68.20	-16.32
5690.00	Average	87.59	4.98	92.57	-	-
5690.00	Peak	95.28	4.98	100.26	-	-
5902.68	Peak	48.96	6.25	55.21	68.20	-12.99

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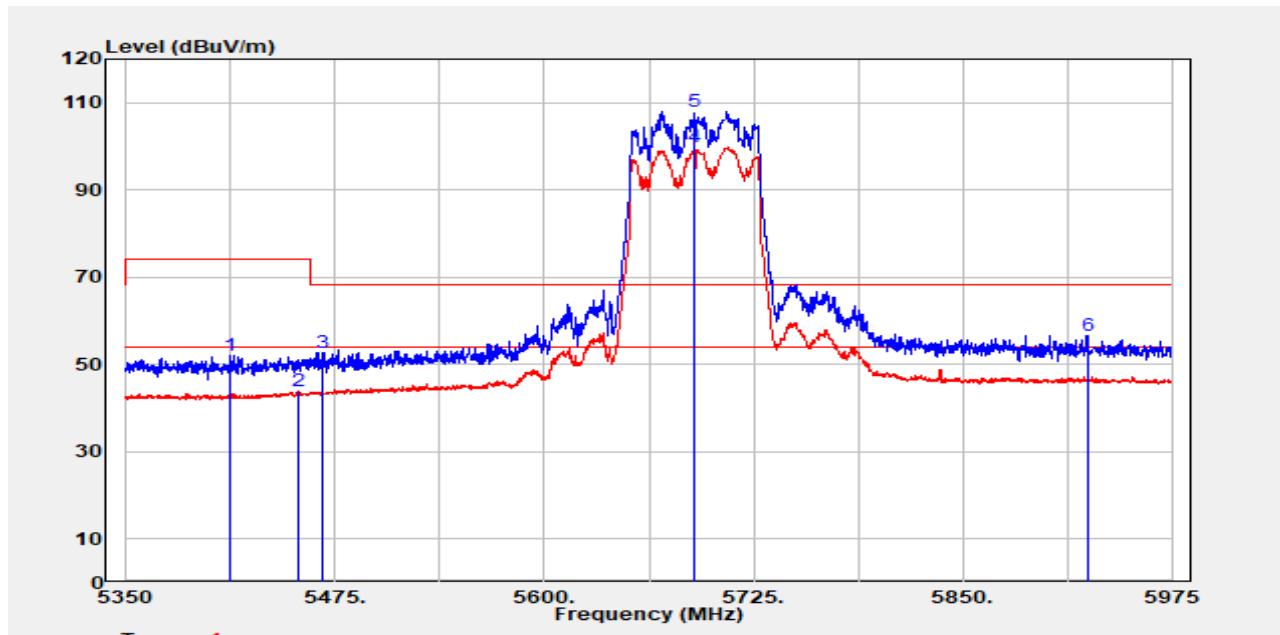
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Member of SGS Group

Report Number :TERF2501000052E2
Operation Mode :802.11ac80
Test Frequency :5690 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC G Chamber
Test Date :2025-02-21
Temp./Humi. :21.8°C/54%
Antenna Pol. :Horizontal
Engineer :Temo Chen



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
5412.10	Peak	48.18	3.85	52.03	74.00	-21.97
5452.74	Average	39.48	4.33	43.81	54.00	-10.19
5467.75	Peak	48.35	4.47	52.82	68.20	-15.38
5690.00	Average	94.79	4.98	99.77	-	-
5690.00	Peak	103.02	4.98	108.00	-	-
5924.57	Peak	50.39	6.21	56.60	68.20	-11.60

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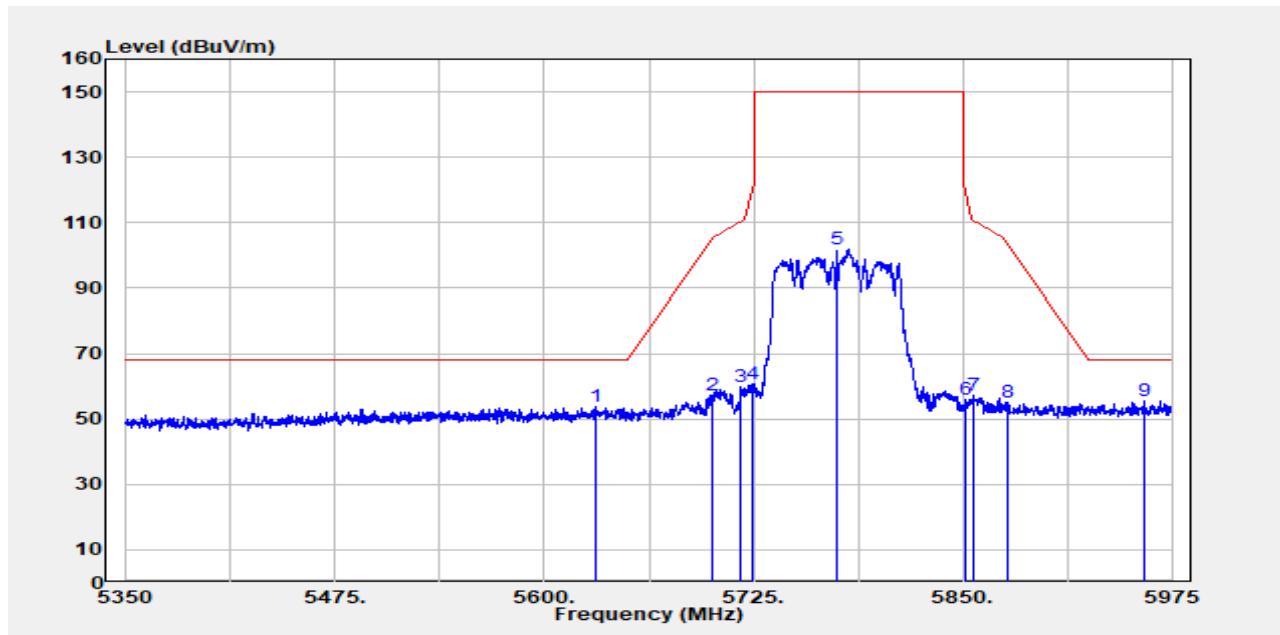
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Report Number :TERF2501000052E2
Operation Mode :802.11ac80
Test Frequency :5775 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC G Chamber
Test Date :2025-02-21
Temp./Humi. :21.8°C/54%
Antenna Pol. :Vertical
Engineer :Temo Chen



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
5630.30	Peak	49.15	4.42	53.57	68.20	-14.63
5699.91	Peak	52.14	5.08	57.22	105.13	-47.91
5717.21	Peak	54.60	5.16	59.76	110.02	-50.26
5724.92	Peak	55.52	5.20	60.72	122.01	-61.29
5775.00	Peak	96.67	5.36	102.03	-	-
5851.63	Peak	50.01	5.79	55.80	118.50	-62.70
5856.63	Peak	51.23	5.83	57.06	110.34	-53.28
5876.63	Peak	48.95	6.03	54.98	103.99	-49.01
5958.12	Peak	49.49	6.14	55.63	68.20	-12.57

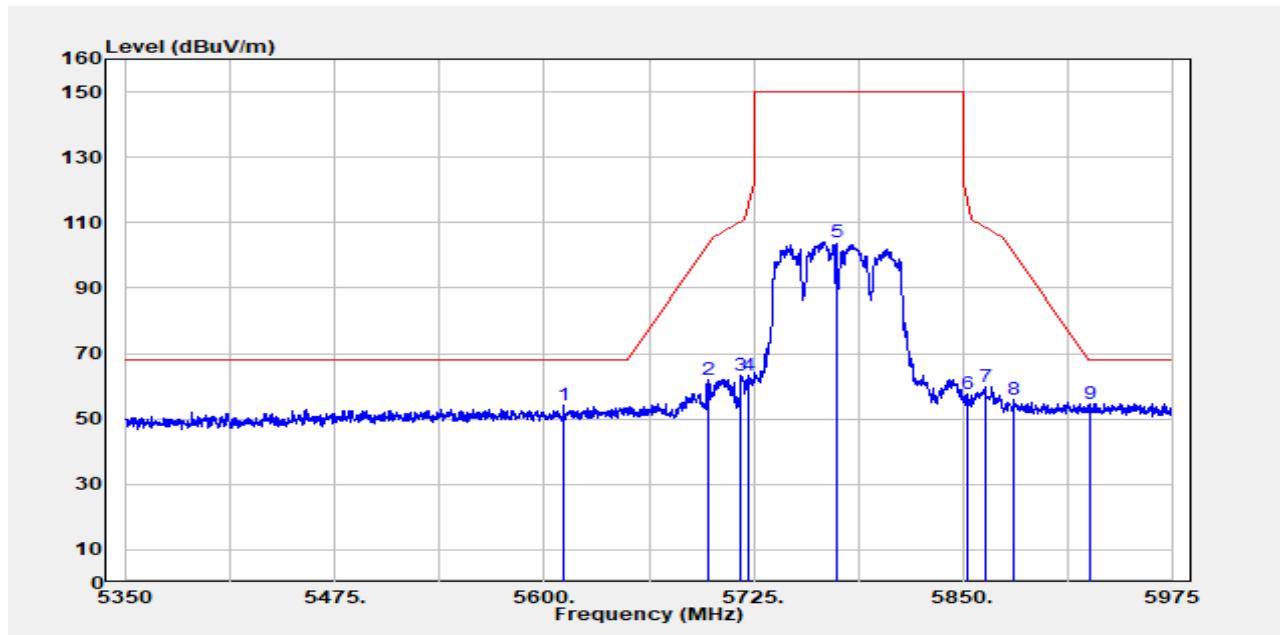
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Report Number :TERF2501000052E2
Operation Mode :802.11ac80
Test Frequency :5775 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC G Chamber
Test Date :2025-02-21
Temp./Humi. :21.8°C/54%
Antenna Pol. :Horizontal
Engineer :Temo Chen



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
5611.75	Peak	49.74	4.28	54.02	68.20	-14.18
5697.62	Peak	57.02	5.06	62.08	103.44	-41.36
5717.62	Peak	58.03	5.17	63.20	110.13	-46.93
5721.79	Peak	58.04	5.19	63.23	114.88	-51.65
5775.00	Peak	98.91	5.36	104.27	-	-
5853.29	Peak	51.67	5.81	57.48	114.69	-57.21
5863.71	Peak	53.99	5.91	59.90	108.36	-48.46
5880.59	Peak	49.94	6.08	56.02	101.06	-45.04
5926.65	Peak	48.57	6.21	54.78	68.20	-13.42

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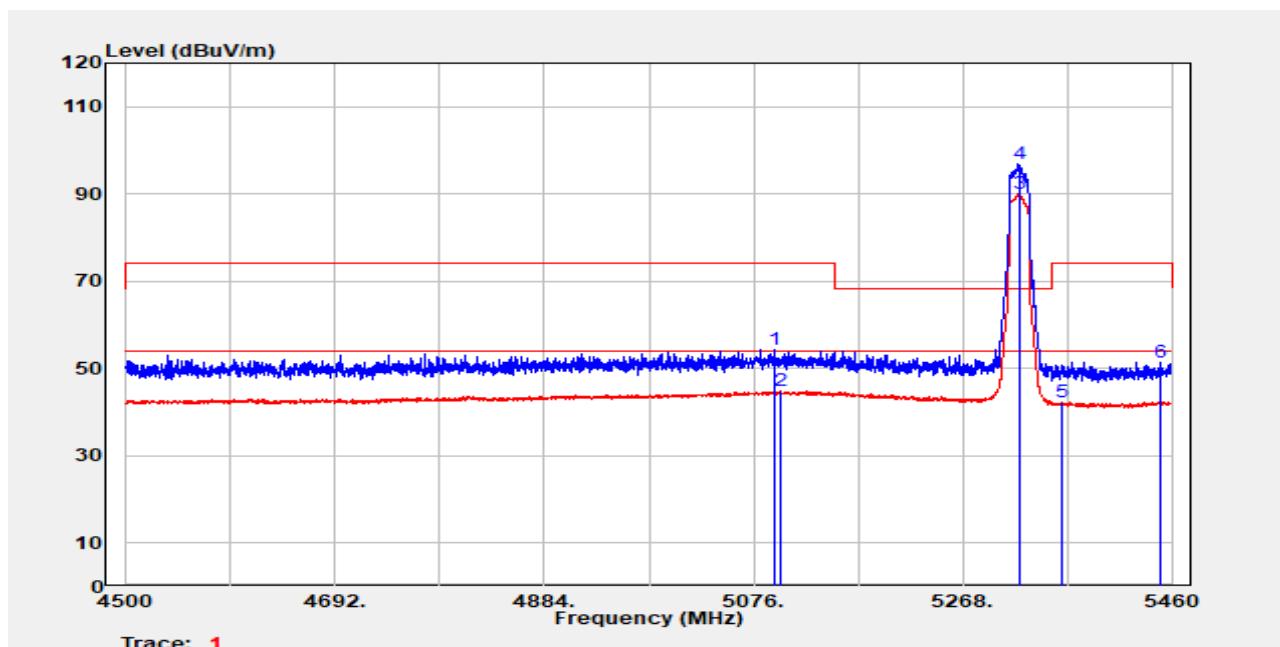
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Model: C505

Report Number	:TERF2501000052E2	Test Site	:SAC G Chamber
Operation Mode	:802.11n20	Test Date	:2025-02-22
Test Frequency	:5320 MHz	Temp./Humi.	:21.8°C/54%
Test Mode	:Bandedge	Antenna Pol.	:Vertical
EUT Pol	:NB Mode	Engineer	:Temo Chen



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
5094.87	Peak	50.12	4.23	54.35	74.00	-19.65
5101.11	Average	40.55	4.25	44.80	54.00	-9.20
5320.00	Average	86.34	3.73	90.07	-	-
5320.00	Peak	93.13	3.73	96.86	-	-
5359.90	Average	38.71	3.72	42.43	54.00	-11.57
5449.44	Peak	47.24	4.30	51.54	74.00	-22.46

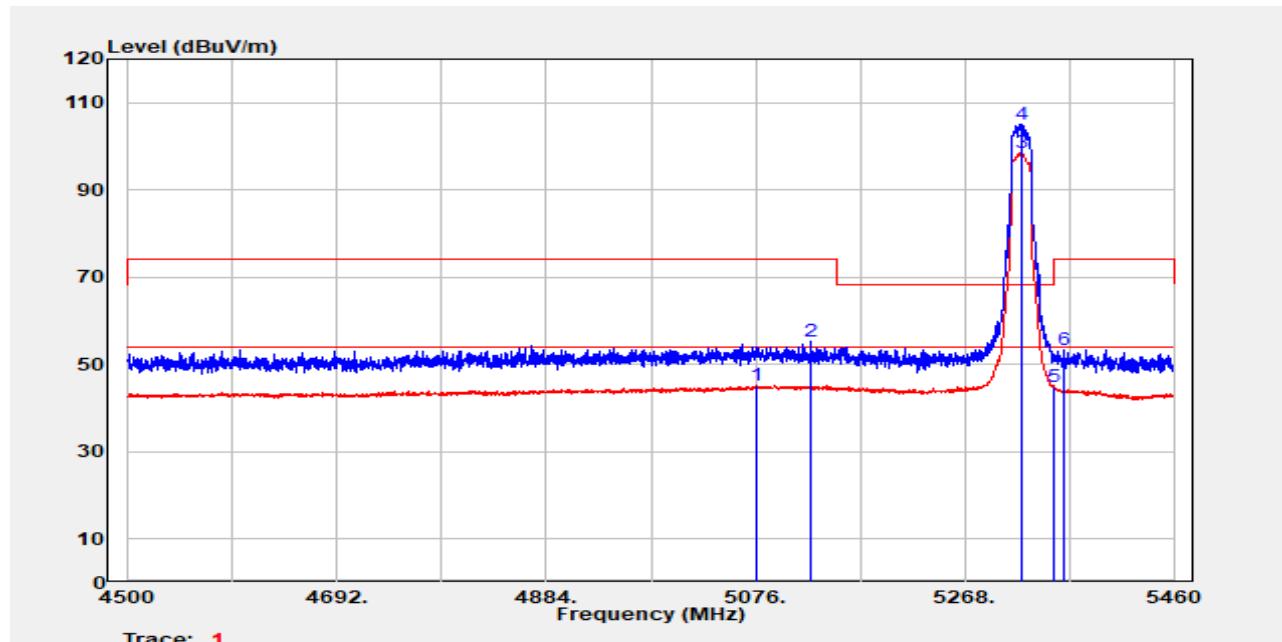
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Report Number :TERF2501000052E2
Operation Mode :802.11n20
Test Frequency :5320 MHz
Test Mode :Bandedge
EUT Pol :NB Mode

Test Site :SAC G Chamber
Test Date :2025-02-22
Temp./Humi. :21.8°C/54%
Antenna Pol. :Horizontal
Engineer :Temo Chen



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
5077.10	Average	41.02	4.17	45.19	54.00	-8.81
5127.28	Peak	51.07	4.12	55.19	74.00	-18.81
5320.00	Average	94.91	3.73	98.64	-	-
5320.00	Peak	101.36	3.73	105.09	-	-
5350.05	Average	41.03	3.72	44.75	54.00	-9.25
5359.42	Peak	49.59	3.72	53.31	74.00	-20.69

~ End of Report ~

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