

ELECTROMAGNETIC EMISSIONS COMPLIANCE CLASS II PERMISSIVE CHANGE REPORT



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Manufacturer: MFP MICHELIN
23 Place des Carmes-Deschaux - 63040 Clermont-Fd
Cedex9 - France

Product Name: WiFi Module

Brand Name: MICHELIN

Model No.: MI5-TI01

Model Difference: N/A

Report Number: ER/2021/A0048

FCC ID FI5-WL18DBMOD

IC: 5056A-WL18DBMOD

Issue Date: April 6, 2022

Date of Test: October 7, 2021 ~ October 12, 2021

Date of EUT Received: October 5, 2021

Approved By _____

Blue Yang

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10:2013 and the energy emitted by the sample EUT comply with FCC rule part §15.407, 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
ER/2021/A0048	00	Original.	April 6, 2022	Karen Huang	*
ER/2021/A0048	01	Update FCC applicant address and product name and add manufacturer information.	June 23, 2022	Susan Lin	*

Note:

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

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1 GENERAL INFORMATION

1.1 Product Description of Host

Product Name:	WiFi Module
Brand Name:	MICHELIN
Model No.:	MI5-TI01
Model Difference:	N/A
Hardware Version:	model RV5-01
Firmware Version:	S.4.1.x
EUT Series No.:	050748
Power Supply:	24Vdc

1.2 Modulation & Data Rate

Modulation type:	64QAM, 16QAM, QPSK, BPSK for OFDM
Transition Rate:	802.11 a: 6 - 54 Mbps
	802.11 n_20MHz: 6.5 - 72.2 Mbps
	802.11 n_40MHz: 13.5 - 150 Mbps

1.3 Antenna Designation

Antenna Type	Freq. (MHz)	Peak Antenna Gain (dBi)	Worst Antenna Gain
All-In-One	5150~5250	-3.2	-
	5250~5350		
	5470~5725		
	5725~5850		
Note:			
1. Antenna information is provided by the applicant.			

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1.4 FCC

Wi-Fi	Frequency Range	Channels	Rated Power(Avg) (dBm) (Worst Case)	Modulation Technology
a/ n_HT 20M	5180~5240	4	15.43 dBm	OFDM
	5260~5320	4	13.51 dBm	OFDM
	5500~5700	11	16.02 dBm	OFDM
	5745-5825	5	15.96 dBm	OFDM
n_HT 40M	5190~5230	2	13.05 dBm	OFDM
	5270~5310	2	13.00 dBm	OFDM
	5510~5670	5	12.92 dBm	OFDM
	5755-5795	2	13.50 dBm	OFDM

1.5 ISED
WLAN 5 GHz for ISED(Slave)

Wi-Fi	Frequency Range	Channels	EIRP/Avg	Rated Power(EIRP/Avg) (dBm) (Worst Case)	Modulation Technology
a/ n_HT 20M	5180~5240	4	EIRP	12.23 dBm	OFDM
	5260~5320	4	Avg	13.51 dBm	OFDM
	5500~5700	11	Avg	16.02 dBm	OFDM
	5745-5825	5	Avg	15.96 dBm	OFDM
n_HT 40M	5190~5230	2	EIRP	9.85 dBm	OFDM
	5270~5310	2	Avg	13.00 dBm	OFDM
	5510~5670	5	Avg	12.92 dBm	OFDM
	5755-5795	2	Avg	13.50 dBm	OFDM

Note: As per guidance in presentation 2018-04-10-03 IC Certification updates of April 2018 TCB workshop, Client (Slave mode) devices without active scanning function, but with the capability of operating in 5600-5650 MHz solely under the control of a certified master device meeting the requirement of RSS-247, are allowed in Canada.

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1.6 Test Methodology of Applied Standards

FCC Part 15, Subpart E §15.407
 FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01
 FCC KDB 662911 D01 Multiple Transmitter Output v02r01
 RSS-247 issue 2 Feb. 2017
 RSS-Gen Issue 5, Amendment 2, February 2021
 ANSI C63.10:2013

1.7 Test Facility

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

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

1.8 Special Accessories

There are no special accessories used while test was conducted.

1.9 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

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

2.2 EUT Exercise

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

2.3 Test Procedure

2.3.1 Conducted 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.

2.3.2 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.

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.

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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.

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2.5 Configuration of Tested System

Fig. 2-1 Radiated Emission Configuration

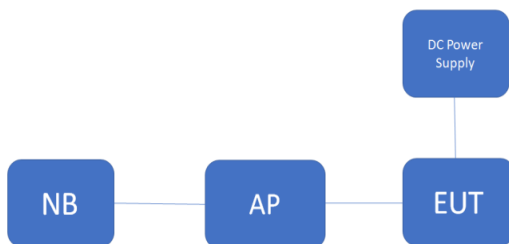


Fig. 2-2 Conducted (Antenna Port) Emission Configuration

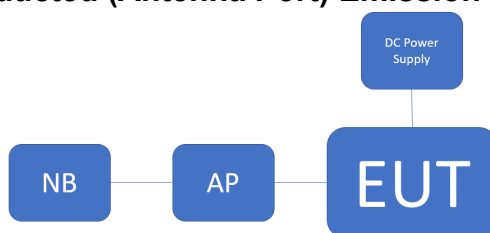


Table 2-1 Equipment Used in Tested System

Radiated Emission Test Site: SAC 3					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Notebook	Lenovo	L440	R9-00W5LW 14/03	N/A	N/A
Accece Ponit	ASUS	RT-AX89U	K4IUHP000296	N/A	N/A

Conducted Emission Test Site: Conducted 2					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Notebook	Lenovo	T440P	PC-089AH5	N/A	N/A

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3 SUMMARY OF TEST RESULT

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

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4 DESCRIPTION OF TEST MODES

4.1 802.11a/n operated in U-NII Bands

Operated band in 5150 MHz ~5250 MHz:

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

Operated band in 5250 MHz ~5350 MHz:

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

Operated band in 5470 MHz ~5725 MHz:

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

Operated band in 5745 MHz ~5850 MHz:

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

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4.2 The Worst Test Modes and Channel Details

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

Modulation	Transmission Chain				Single Transmission Spatial	Multiple Transmission Spatial
<input checked="" type="checkbox"/> 802.11 a	<input checked="" type="checkbox"/> Ch0	<input type="checkbox"/> Ch1	<input type="checkbox"/> Ch2	<input type="checkbox"/> Ch3	<input checked="" type="checkbox"/> 1TX	<input type="checkbox"/> 2TX
<input checked="" type="checkbox"/> 802.11 n	<input checked="" type="checkbox"/> Ch0	<input type="checkbox"/> Ch1	<input type="checkbox"/> Ch2	<input type="checkbox"/> Ch3	<input checked="" type="checkbox"/> SISO	<input type="checkbox"/> MIMO
<input type="checkbox"/> 802.11 ac	<input type="checkbox"/> Ch0	<input type="checkbox"/> Ch1	<input type="checkbox"/> Ch2	<input type="checkbox"/> Ch3	<input type="checkbox"/> SISO	<input type="checkbox"/> MIMO
<input type="checkbox"/> 802.11 ax	<input type="checkbox"/> Ch0	<input type="checkbox"/> Ch1	<input type="checkbox"/> Ch2	<input type="checkbox"/> Ch3	<input type="checkbox"/> SISO	<input type="checkbox"/> MIMO

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4.2.1 RADIATED EMISSION TEST:

RADIATED EMISSION TEST (BELOW 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	44	OFDM	6	ch0
	5260~5320	52 to 64	60			
	5500~5700	100 to 140	116			
	5745~5825	149 to 165	157			

RADIATED EMISSION TEST (ABOVE 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	ch0
	5260~5320	52 to 64	52,60,64			
	5500~5700	100 to 140	100,116,140			
	5745~5825	149 to 165	149,157,165			
802.11n_HT20	5180~5240	36 to 48	36,44,48	OFDM	MCS0	ch0
	5260~5320	52 to 64	52,60,64			
	5500~5700	100 to 140	100,116,140			
	5745~5825	149 to 165	149,157,165			
802.11n_HT40	5190~5230	38 to 46	38,46	OFDM	MCS0	ch0
	5270~5310	54 to 62	54,62			
	5510~5670	102 to 134	102,110,134			
	5755~5795	151 to 159	151,159			

Note:

The field strength of radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for 802.11a/n WLAN Transmitter for channel Low, Mid and High, the worst case H position was reported.

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4.2.2 ANTENNA PORT CONDUCTED MEASUREMENT:

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			
	5500~5700	100 to 140	100,116,140			
	5745~5825	149 to 165	149,157,165			
802.11n_HT20	5180~5240	36 to 48	36,44,48	OFDM	MCS0	ch0
	5260~5320	52 to 64	52,60,64			
	5500~5700	100 to 140	100,116,140			
	5745~5825	149 to 165	149,157,165			
802.11n_HT40	5190~5230	38 to 46	38,46	OFDM	MCS0	ch0
	5270~5310	54 to 62	54,62			
	5510~5670	102 to 134	102,110,134			
	5755~5795	151 to 159	151,159			

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5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 2.34 dB
Emission Bandwidth	+/- 1.53 Hz
The Maximum Output Power Measurement	+/- 1 dB
Peak Power Spectral Density Measurement	+/- 1.53 dB
Frequency Stability	+/- 1.53 Hz
Temperature	+/- 0.4 °C
Humidity	+/- 3.5 %
DC / AC Power Source	+/- 1 %

Radiated Spurious Emission Measurement Uncertainty			
Polarization: Vertical	+/-	2.64 dB	9kHz~30MHz
	+/-	4.93 dB	30MHz - 1000MHz
	+/-	4.81 dB	1GHz - 18GHz
	+/-	4.52 dB	18GHz - 40GHz
Polarization: Horizontal	+/-	2.64 dB	9kHz~30MHz
	+/-	4.45 dB	30MHz - 1000MHz
	+/-	4.81 dB	1GHz - 18GHz
	+/-	4.52 dB	18GHz - 40GHz

Note:

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

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6 MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

6.1 Standard Applicable

FCC

OPERZTION Band	EUT CATEGORY	LIMIT
U-NII-1	Access Point (Master device)	1 Watt(30dBm)
	Fixed point-to-point Access Ponit	1 Watt(30dBm)
	√ Mobile and portable client device	250mW(23.98dBm)
U-NII-2A	√	250mW(23.98dBm) or 11dBm+10 log B
U-NII-2C	√	250mW(23.98dBm) or 11dBm+10 log B
U-NII-3	√	1 Watt(30dBm)

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 direction-al gain of the antenna exceeds 6 dBi.

ISED

OPERZTION FREQUENCY BAND	LIMIT
5150~5250 MHz	EIRP shall not exceed 200 mW or 10 + 10 log ₁₀ B, dBm
5250~5350 MHz	Conducted output power shall not exceed 250 mW or 11 +10 log ₁₀ B EIRP shall not exceed 1.0 W or 17 + 10 log ₁₀ B, dBm
5470-5600 MHz and 5650-5725 MHz	Conducted output power shall not exceed 250 mW or 11 +10 log ₁₀ B EIRP shall not exceed 1.0 W or 17 + 10 log ₁₀ B, dBm
5725~5850 MHz	Conducted output power shall not exceed 1 W

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.

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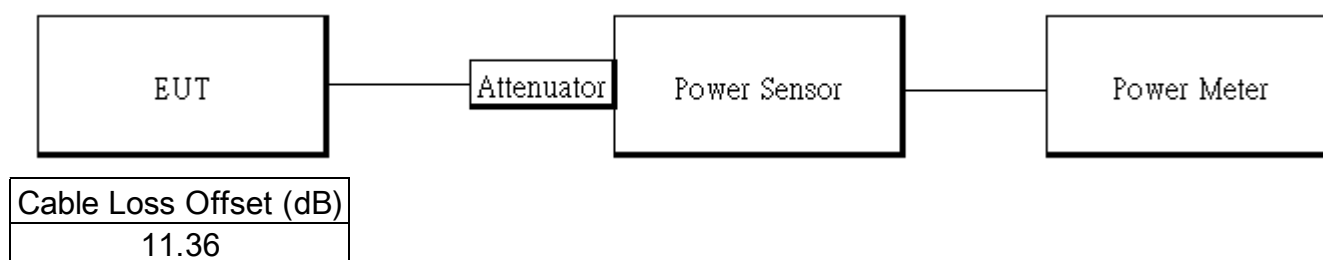
6.2 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter
4. Power Meter is used as the auxiliary test equipment to conduct the output power measurement.
5. Record the max. reading and add 10 log(1/duty cycle).
6. Repeat above procedures until all frequency (low, middle, and high channel) measured were complete.

6.3 Measurement Equipment Used

Conducted Emission Test Site: Conducted 2					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY60242081	09/30/2021	09/29/2022
Test Software	SGS	Radio Test Software	Ver. 21	N.C.R	N.C.R
Power Meter	Anritsu	ML2496A	1804001	03/02/2021	03/01/2022
Power Sensor	Anritsu	MA2411B	1726104	03/02/2021	03/01/2022
Power Sensor	Anritsu	MA2411B	1726107	03/02/2021	03/01/2022
Attenuator	Mini-Circuit	BW-S10W2+	4	12/16/2020	12/15/2021
DC Block	Mini-Circuits	BLK-18-S+	1	12/16/2020	12/15/2021
Coaxial Cable	Woken	00100A1F1A196S	N/A	N/A	N/A

6.4 Test Set-up



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6.5 Measurement Result

6.5.1 Conducted output power (FCC)

802.11a_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	6	20000	15.43	34.876	23.98	PASS
44	5220	6	20000	15.42	34.796	23.98	PASS
48	5240	6	20000	15.30	33.848	23.98	PASS
52	5260	6	18000	13.21	20.919	23.98	PASS
60	5300	6	16000	13.22	20.967	23.98	PASS
64	5320	6	16000	13.18	20.775	23.98	PASS
100	5500	6	18000	14.31	26.948	23.98	PASS
116	5580	6	20000	16.02	39.951	23.98	PASS
140	5700	6	14000	11.46	13.981	23.98	PASS
149	5745	6	15000	12.33	17.082	30	PASS
157	5785	6	20000	15.96	39.403	30	PASS
165	5825	6	18000	14.01	25.150	30	PASS

802.11n_HT20_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	20000	14.78	30.059	23.98	PASS
44	5220	MCS0	20000	15.05	31.987	23.98	PASS
48	5240	MCS0	20000	14.86	30.618	23.98	PASS
52	5260	MCS0	18000	13.15	20.653	23.98	PASS
60	5300	MCS0	18000	13.51	22.438	23.98	PASS
64	5320	MCS0	18000	13.31	21.428	23.98	PASS
100	5500	MCS0	19000	14.75	29.852	23.98	PASS
116	5580	MCS0	20000	15.17	32.883	23.98	PASS
140	5700	MCS0	16000	11.92	15.559	23.98	PASS
149	5745	MCS0	17000	12.24	16.748	30	PASS
157	5785	MCS0	20000	15.33	34.117	30	PASS
165	5825	MCS0	19000	13.83	24.153	30	PASS

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802.11n_HT40_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	17000	11.69	14.772	23.98	PASS
46	5230	MCS0	20000	13.05	20.204	23.98	PASS
54	5270	MCS0	20000	13.00	19.973	23.98	PASS
62	5310	MCS0	17000	12.21	16.651	23.98	PASS
102	5510	MCS0	15000	10.77	11.952	23.98	PASS
110	5550	MCS0	20000	12.92	19.608	23.98	PASS
134	5670	MCS0	18000	12.78	18.986	23.98	PASS
151	5755	MCS0	15500	10.26	10.628	30	PASS
159	5795	MCS0	20000	13.50	22.410	30	PASS

6.5.2 ISED EIRP
802.11a_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	15.43	-3.20	12.23	16.711	23.01	PASS
44	5220	15.42	-3.20	12.22	16.672	23.01	PASS
48	5240	15.30	-3.20	12.10	16.218	23.01	PASS
52	5260	13.21	-3.20	10.01	10.023	30	PASS
60	5300	13.22	-3.20	10.02	10.046	30	PASS
64	5320	13.18	-3.20	9.98	9.954	30	PASS
100	5500	14.31	-3.20	11.11	12.912	30	PASS
116	5580	16.02	-3.20	12.82	19.143	30	PASS
140	5700	11.46	-3.20	8.26	6.699	30	PASS

802.11n_HT20_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	14.78	-3.20	11.58	14.388	23.01	PASS
44	5220	15.05	-3.20	11.85	15.311	23.01	PASS
48	5240	14.86	-3.20	11.66	14.655	23.01	PASS
52	5260	13.15	-3.20	9.95	9.886	30	PASS
60	5300	13.51	-3.20	10.31	10.740	30	PASS
64	5320	13.31	-3.20	10.11	10.257	30	PASS
100	5500	14.75	-3.20	11.55	14.289	30	PASS
116	5580	15.17	-3.20	11.97	15.740	30	PASS
140	5700	11.92	-3.20	8.72	7.447	30	PASS

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802.11n_HT40_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	11.69	-3.20	8.49	7.063	23.01	PASS
46	5230	13.05	-3.20	9.85	9.661	23.01	PASS
54	5270	13.00	-3.20	9.80	9.550	30	PASS
62	5310	12.21	-3.20	9.01	7.962	30	PASS
102	5510	10.77	-3.20	7.57	5.715	30	PASS
110	5550	12.92	-3.20	9.72	9.376	30	PASS
134	5670	12.78	-3.20	9.58	9.078	30	PASS

6.5.3 Conducted output power (ISED)

802.11a_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	13.21	20.919	23.98	PASS
60	5300	13.22	20.967	23.98	PASS
64	5320	13.18	20.775	23.98	PASS
100	5500	14.31	26.948	23.98	PASS
116	5580	16.02	39.951	23.98	PASS
140	5700	11.46	13.981	23.98	PASS
149	5745	12.33	17.082	30	PASS
157	5785	15.96	39.403	30	PASS
165	5825	14.01	25.150	30	PASS

802.11n_HT20_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	13.15	20.653	23.98	PASS
60	5300	13.51	22.438	23.98	PASS
64	5320	13.31	21.428	23.98	PASS
100	5500	14.75	29.852	23.98	PASS
116	5580	15.17	32.883	23.98	PASS
140	5700	11.92	15.559	23.98	PASS
149	5745	12.24	16.748	30	PASS
157	5785	15.33	34.117	30	PASS
165	5825	13.83	24.153	30	PASS

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802.11n_HT40_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
54	5270	13.00	19.973	23.98	PASS
62	5310	12.21	16.651	23.98	PASS
102	5510	10.77	11.952	23.98	PASS
110	5550	12.92	19.608	23.98	PASS
134	5670	12.78	18.986	23.98	PASS
151	5755	10.26	10.628	30	PASS
159	5795	13.50	22.410	30	PASS

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7 UNDESIRABLE RADIATED EMISSION MEASUREMENT

7.1 Standard Applicable

7.1.1 Band Edge

The maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

1. For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
2. For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

APPLICABLE TO	EIRP LIMIT	FIELD STRENGTH AT 3m
15.407(b)(1) RSS-247 §6.2.1.2	PK: -27 (dBm/MHz)	PK: 68.2 (dBµV/m)
15.407(b)(2) RSS-247 §6.2.2.2		
15.407(b)(3) RSS-247 §6.2.3.2		
15.407(b)(4)(i) RSS-247 §6.2.4.2	PK:-27 (dBm/MHz) *1 PK:10 (dBm/MHz) *2 PK:15.6 (dBm/MHz) *3 PK:27 (dBm/MHz) *4	PK: 68.2 (dBµV/m) *1 PK:105.2 (dBµV/m) *2 PK: 110.8(dBµV/m) *3 PK:122.2 (dBµV/m) *4
<p>*1 beyond 75 MHz or more above of the bandedge. *2 below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above. *3 below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above. *4 from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.</p>		

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

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7.1.2 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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7.2 Measurement Equipment Used

Radiated Emission Test Site: SAC 3					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Horn Antenna	SCHWARZ-BECK	BBHA9170	184	12/11/2020	12/10/2021
Horn Antenna	SCHWARZ-BECK	BBHA9120D	1441	09/27/2021	09/26/2022
Bi-log Antenna	SCHWARZ-BECK	VULB9168	378	08/20/2021	08/19/2022
Loop Antenna	ETS.LIND-GREN	6502	148045	10/19/2020	10/18/2021
PXA Spectrum Analyzer	Agilent	N9030A	MY53120760	04/27/2021	04/26/2022
EMI Test Receiver	R&S	ESCI 7	100759	08/26/2021	08/25/2022
Pre-Amplifier	HP	8449B	3008A00578	12/16/2020	12/15/2021
Pre-Amplifier	EMC Instruments	EMC184045B	980135	10/27/2020	10/26/2021
Pre-Amplifier	HP	8447D	2944A07676	12/16/2020	12/15/2021
Attenuator	Mini-Circuit	BW-S10W2+	4	12/16/2020	12/15/2021
Filter 5150-5350 MHz	Micro-Tronics	BRM50703	1	12/16/2020	12/15/2021
Filter 5470-5725 MHz	Micro-Tronics	BRM50704	1	12/16/2020	12/15/2021
Filter 5725-5875 MHz	Micro-Tronics	BRM50705	1	12/16/2020	12/15/2021
High Pass Filter	WI	WHKX7.0/18G-8SS	45	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY2636/2	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 104	340057/4	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 104PEA	800052/2	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY2621/2	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY2617/2	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY2630/2	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY22962/2	12/16/2020	12/15/2021
Site Cal	SGS	SAC 3	N/A	01/01/2021	12/31/2021
Test Software	audix	e3	Ver. 9 210322	N.C.R	N.C.R
DC Power Supply	Gwinstek	SPS-3610	GEV856761	09/18/2021	09/17/2022

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

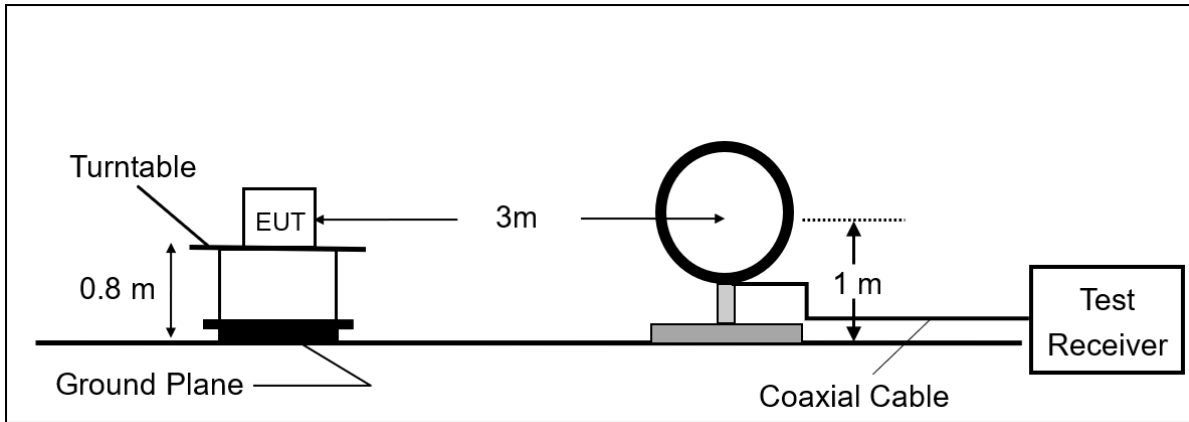
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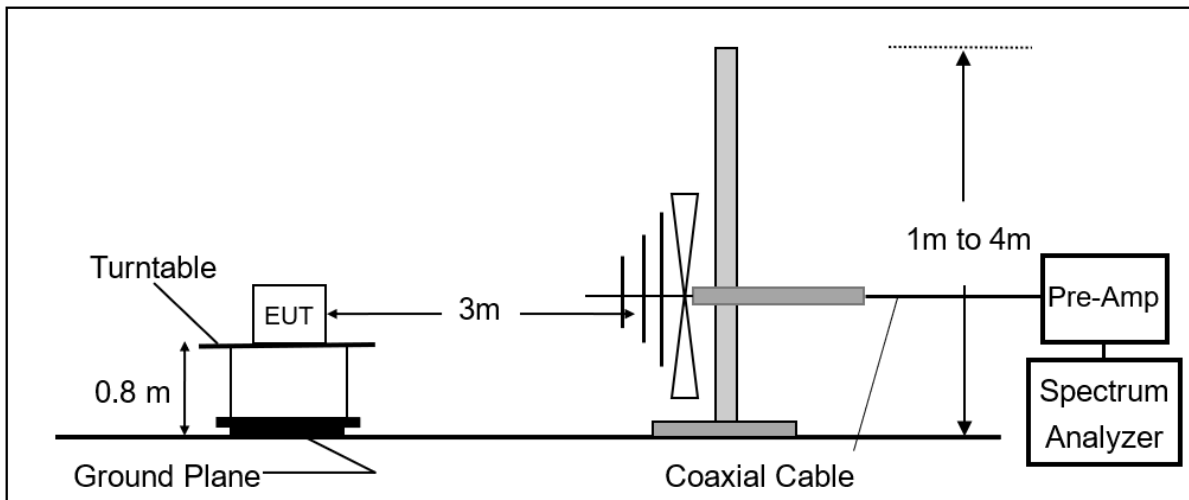
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7.3 Test SET-UP

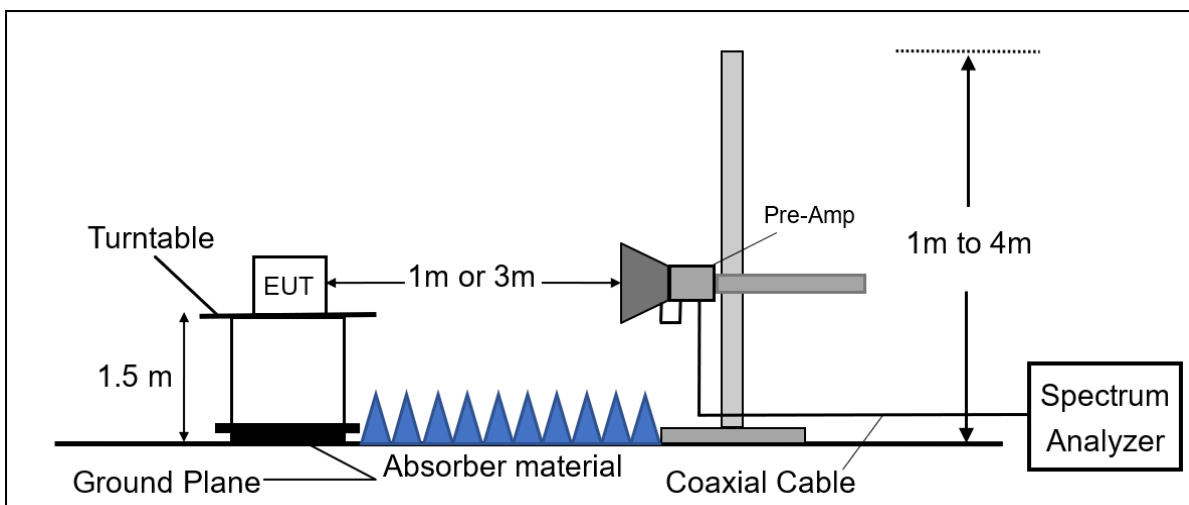
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



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



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



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7.4 Measurement Procedure

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
3. The EUT was placed on a turn table with 0.8m for frequency < 1GHz and 1.5m for frequency > 1GHz above ground plane.
4. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
5. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
6. Set the spectrum analyzer as RBW=100 kHz and VBW=300 kHz for Peak Detector (PK) at frequency between 30MHz and 1 GHz.
7. Use receiver mode as RBW=120 kHz for Quasi-peak (QP) at frequency between 30MHz and 1 GHz.
8. At frequency above 1 GHz, Set the spectrum analyzer:
 - A. RBW=1 MHz, VBW=3 MHz for **Peak** Detector.
 - B. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW $\geq 1/T$ (Duty cycle < 98%) for **Average** Detector.
9. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
10. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
11. Repeat above procedures until all frequency measured were complete.

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7.5 Field Strength Calculation

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

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

Where *FS* = Field Strength *CL* = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude *AG* = Amplifier Gain
AF = Antenna Factor

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

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

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

7.6 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.

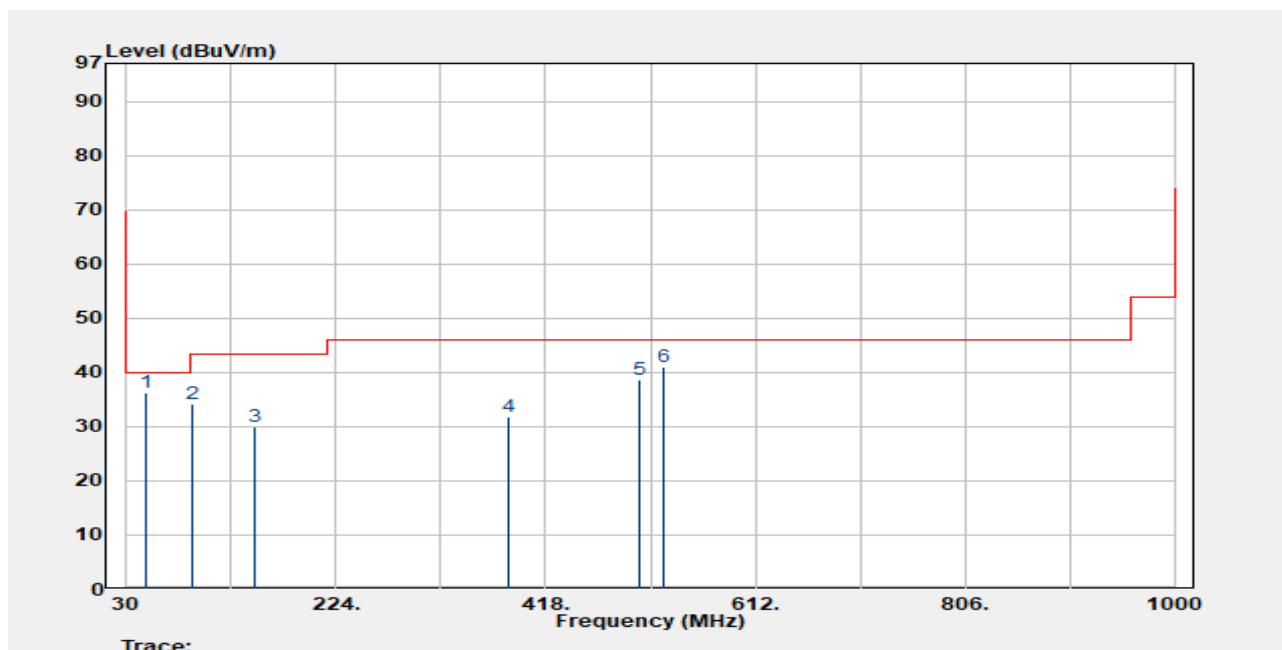
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7.7 Radiated Spurious Emission Measurement Result

7.7.1 Below 1GHz Worst-Case Data:

Report Number	:ER-2021-A0048	Test Site	:SAC 3
Operation Mode	:802.11a	Test Date	:2021-10-07
Test Frequency	:5220 MHz	Temp./Humi.	:26.2/60
Test Mode	:Tx CH Mid	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
48.010	QP	44.47	-8.16	36.31	40.00	-3.69
90.140	Peak	48.26	-14.08	34.17	43.50	-9.33
149.310	Peak	37.28	-7.36	29.92	43.50	-13.58
384.050	Peak	36.42	-4.53	31.89	46.00	-14.11
504.330	Peak	41.45	-2.94	38.52	46.00	-7.48
528.000	QP	43.57	-2.69	40.88	46.00	-5.12

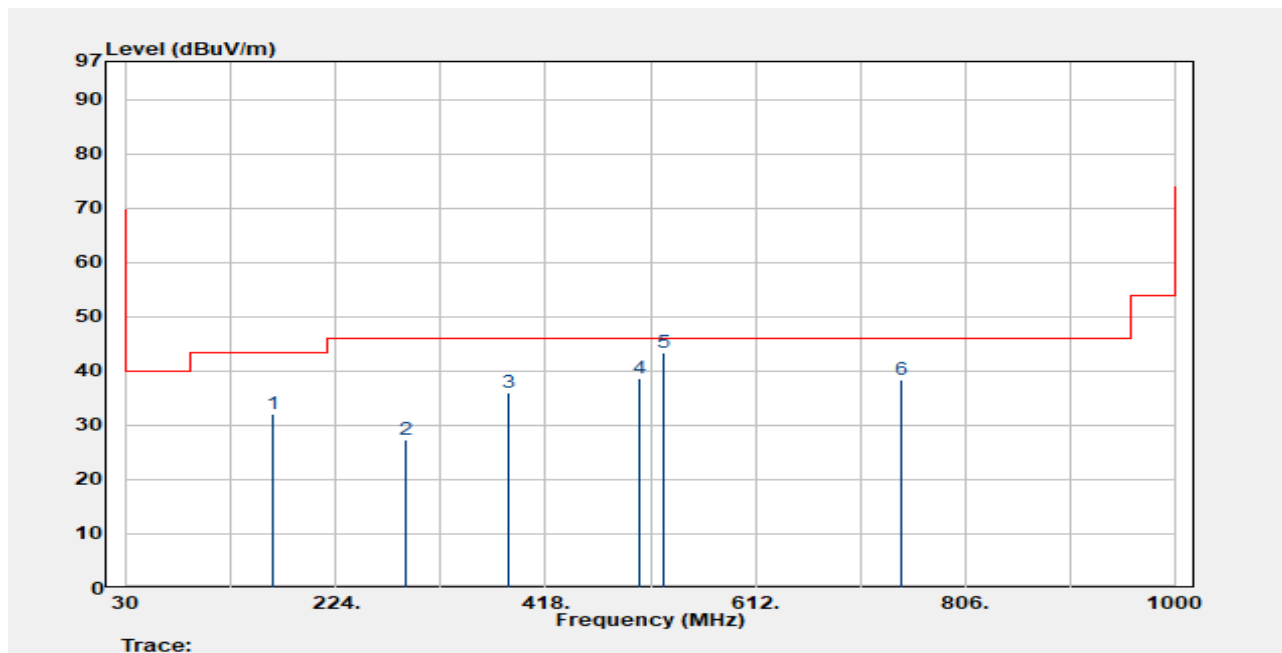
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Report Number :ER-2021-A0048
 Operation Mode :802.11a
 Test Frequency :5220 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-07
 Temp./Humi. :26.2/60
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
164.830	Peak	39.41	-7.36	32.05	43.50	-11.45
288.020	Peak	33.74	-6.34	27.40	46.00	-18.60
384.050	Peak	40.51	-4.53	35.98	46.00	-10.02
504.330	Peak	41.70	-2.94	38.76	46.00	-7.24
527.610	QP	46.03	-2.71	43.32	46.00	-2.68
746.830	Peak	36.84	1.63	38.47	46.00	-7.53

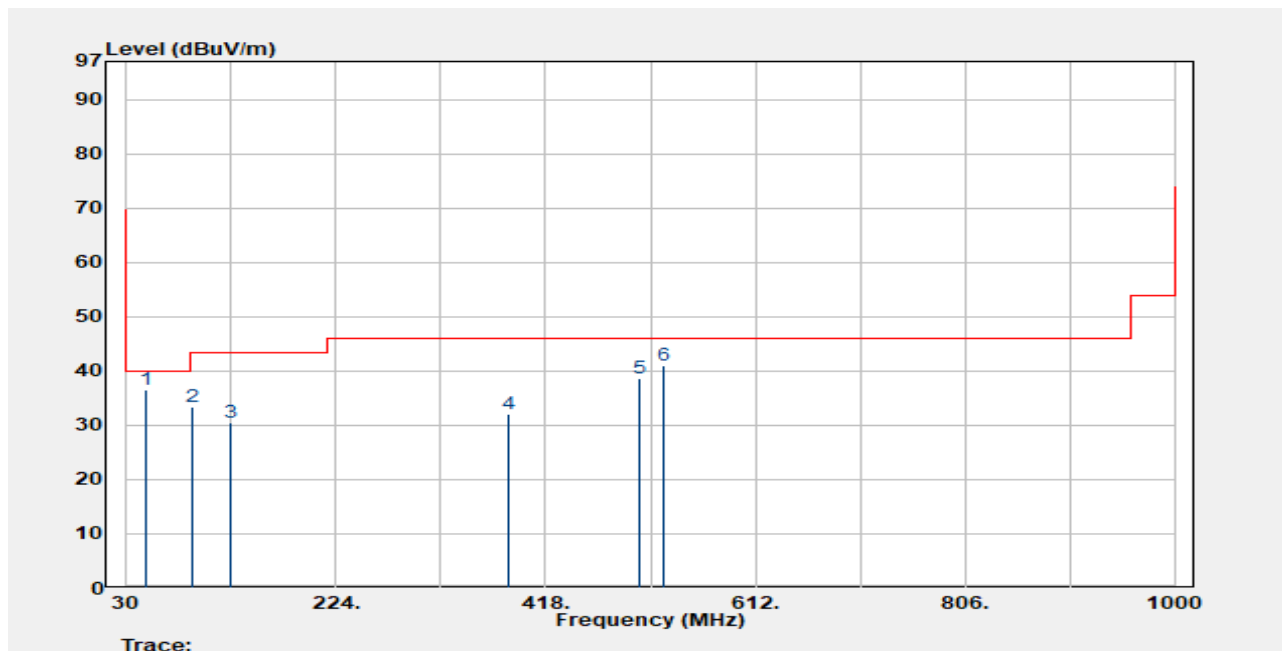
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Report Number :ER-2021-A0048
 Operation Mode :802.11a
 Test Frequency :5300 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-07
 Temp./Humi. :26.2/60
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



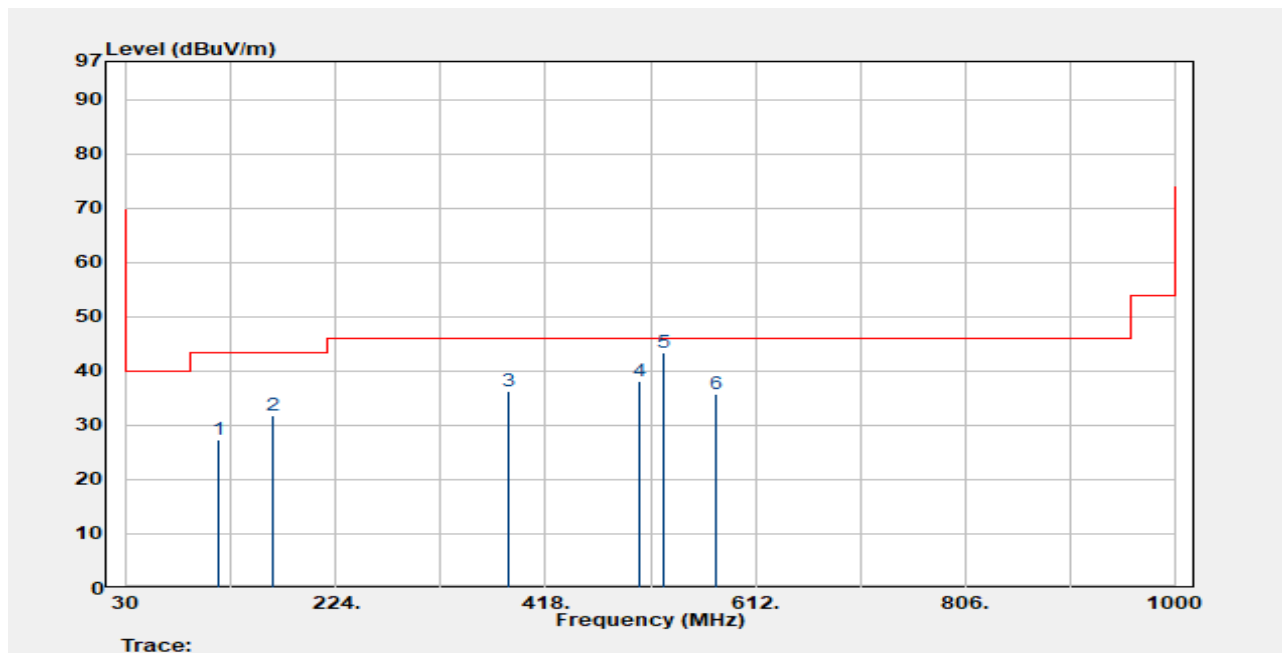
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
48.010	QP	44.73	-8.16	36.57	40.00	-3.43
90.140	Peak	47.54	-14.08	33.46	43.50	-10.04
127.000	Peak	39.47	-8.87	30.60	43.50	-12.90
384.050	Peak	36.63	-4.53	32.10	46.00	-13.90
504.330	Peak	41.46	-2.94	38.52	46.00	-7.48
527.610	QP	43.78	-2.71	41.07	46.00	-4.93

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Report Number :ER-2021-A0048
 Operation Mode :802.11a
 Test Frequency :5300 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-07
 Temp./Humi. :26.2/60
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
114.390	Peak	37.64	-10.30	27.34	43.50	-16.16
164.830	Peak	39.23	-7.36	31.87	43.50	-11.63
384.050	Peak	40.84	-4.53	36.31	46.00	-9.69
504.330	Peak	41.16	-2.94	38.22	46.00	-7.78
527.610	QP	46.11	-2.71	43.40	46.00	-2.60
576.110	Peak	36.26	-0.42	35.84	46.00	-10.16

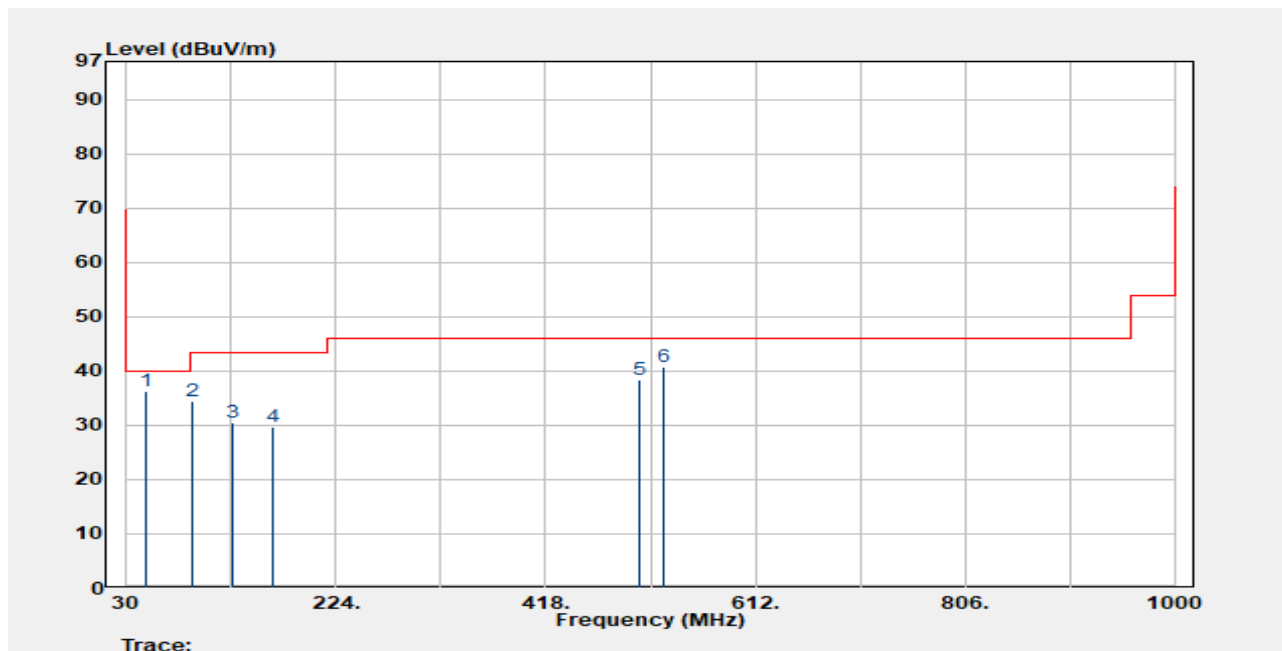
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Report Number :ER-2021-A0048
 Operation Mode :802.11a
 Test Frequency :5580 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-07
 Temp./Humi. :26.2/60
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
48.430	QP	44.37	-8.12	36.25	40.00	-3.75
90.140	Peak	48.47	-14.08	34.39	43.50	-9.11
127.970	Peak	39.28	-8.86	30.42	43.50	-13.08
164.830	Peak	37.15	-7.36	29.79	43.50	-13.71
504.330	Peak	41.35	-2.94	38.42	46.00	-7.58
527.610	QP	43.49	-2.71	40.78	46.00	-5.22

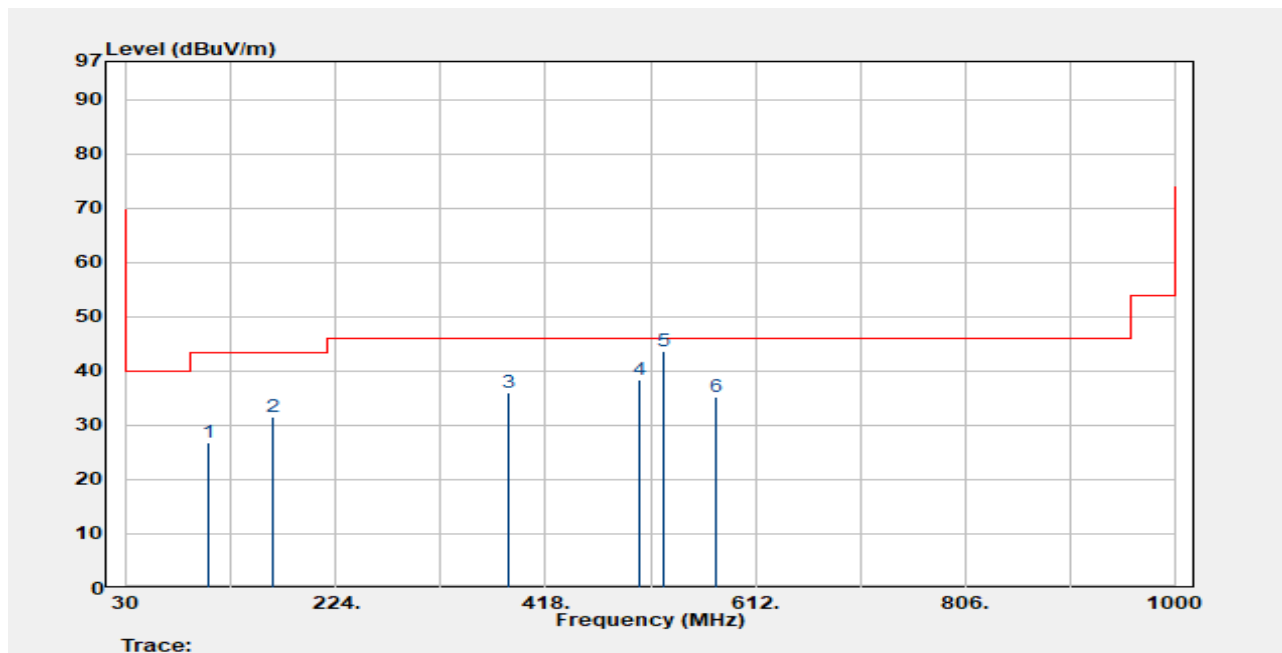
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Report Number :ER-2021-A0048
 Operation Mode :802.11a
 Test Frequency :5580 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-07
 Temp./Humi. :26.2/60
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
106.630	Peak	38.11	-11.40	26.71	43.50	-16.79
164.830	Peak	38.94	-7.36	31.58	43.50	-11.92
384.050	Peak	40.55	-4.53	36.02	46.00	-9.98
504.330	Peak	41.40	-2.94	38.46	46.00	-7.54
527.610	QP	46.31	-2.71	43.60	46.00	-2.40
576.110	Peak	35.62	-0.42	35.20	46.00	-10.80

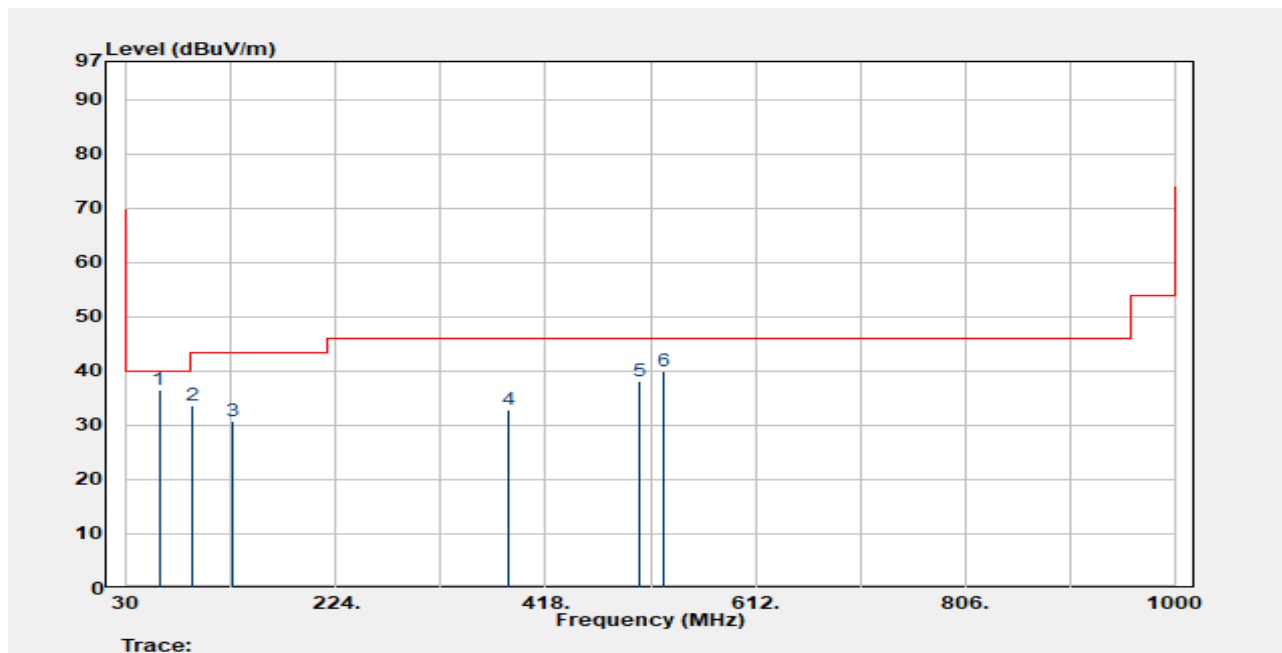
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Report Number :ER-2021-A0048
 Operation Mode :802.11a
 Test Frequency :5785 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-07
 Temp./Humi. :26.2/60
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
60.070	QP	45.41	-8.80	36.61	40.00	-3.39
90.140	Peak	47.75	-14.08	33.67	43.50	-9.83
127.970	Peak	39.67	-8.86	30.81	43.50	-12.69
384.050	Peak	37.37	-4.53	32.84	46.00	-13.16
504.330	Peak	41.11	-2.94	38.18	46.00	-7.82
527.610	QP	42.73	-2.71	40.02	46.00	-5.98

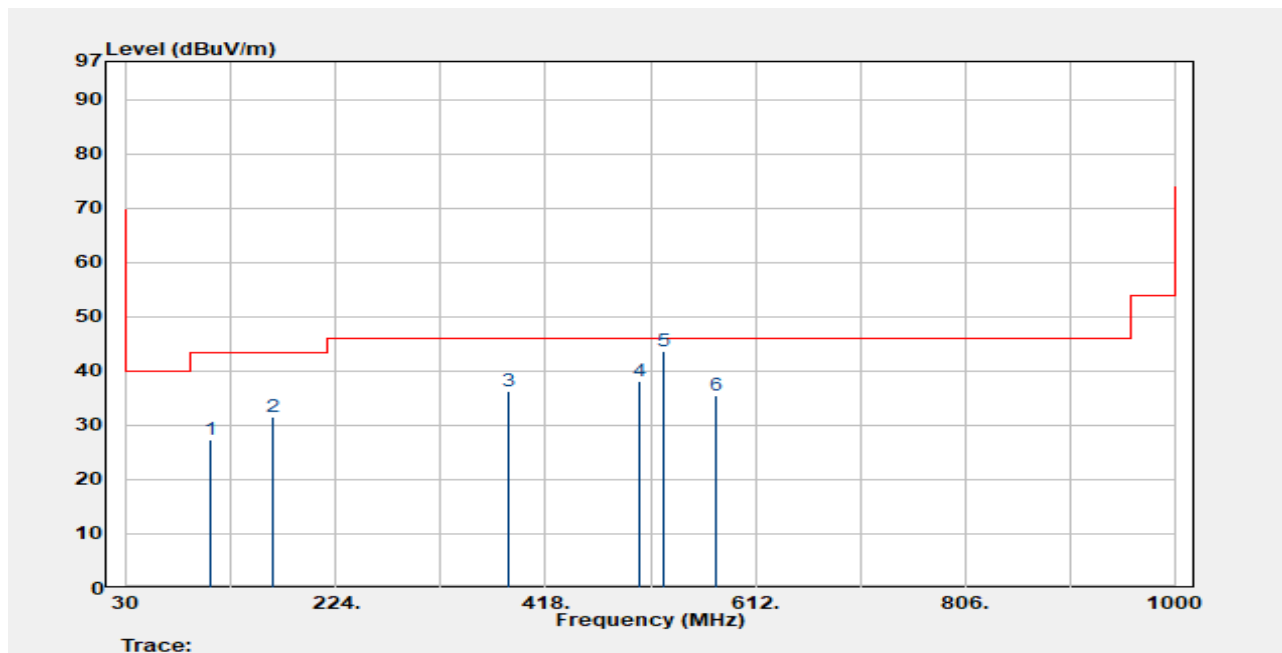
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Report Number :ER-2021-A0048
 Operation Mode :802.11a
 Test Frequency :5785 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-07
 Temp./Humi. :26.2/60
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
107.600	Peak	38.47	-11.26	27.21	43.50	-16.29
164.830	Peak	39.02	-7.36	31.66	43.50	-11.84
384.050	Peak	40.84	-4.53	36.31	46.00	-9.69
504.330	Peak	41.10	-2.94	38.17	46.00	-7.83
527.610	QP	46.32	-2.71	43.61	46.00	-2.39
576.110	Peak	35.88	-0.42	35.46	46.00	-10.54

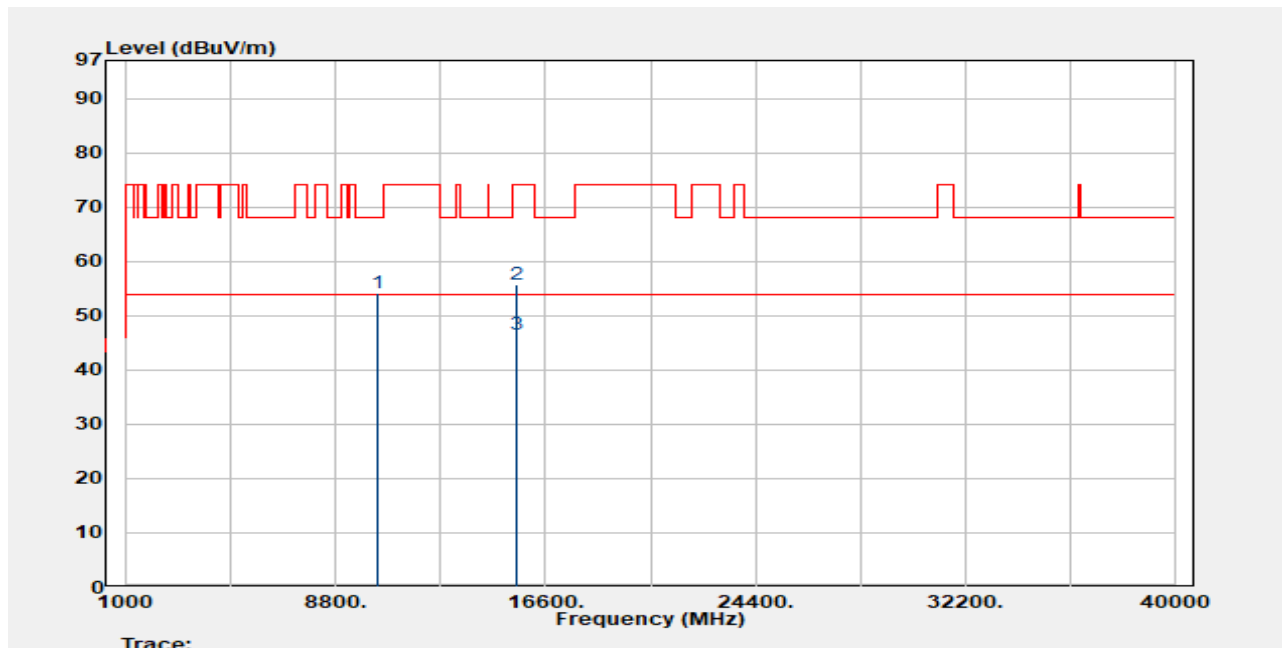
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7.7.2 Above 1GHz Worst-Case Data:

Report Number	:ER-2021-A0048	Test Site	:SAC 3
Operation Mode	:802.11a	Test Date	:2021-10-07
Test Frequency	:5180 MHz	Temp./Humi.	:26.2/60
Test Mode	:Tx CH Low	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10360.000	Peak	33.72	20.53	54.26	68.20	-13.94
15540.000	Peak	32.40	23.22	55.62	74.00	-18.38
15540.000	Average	23.33	23.22	46.55	54.00	-7.45

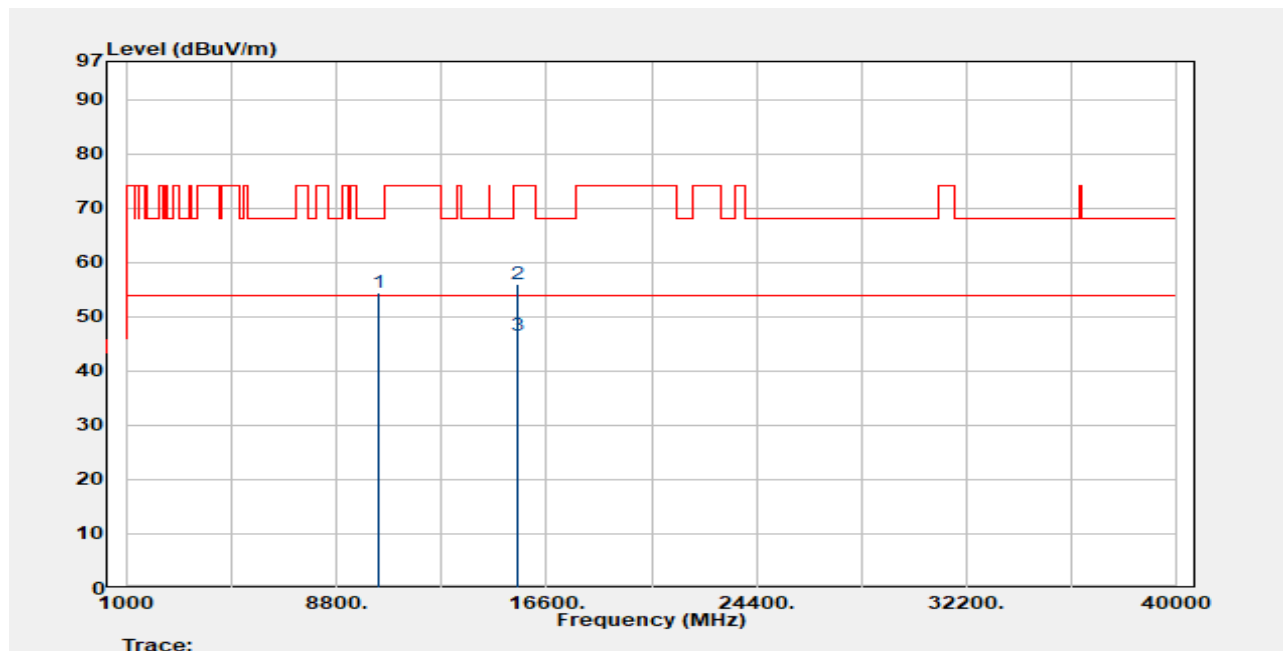
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Report Number :ER-2021-A0048
 Operation Mode :802.11a
 Test Frequency :5180 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-07
 Temp./Humi. :26.2/60
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10360.000	Peak	34.23	20.13	54.36	68.20	-13.84
15540.000	Peak	32.78	23.19	55.97	74.00	-18.03
15540.000	Average	23.24	23.19	46.43	54.00	-7.57

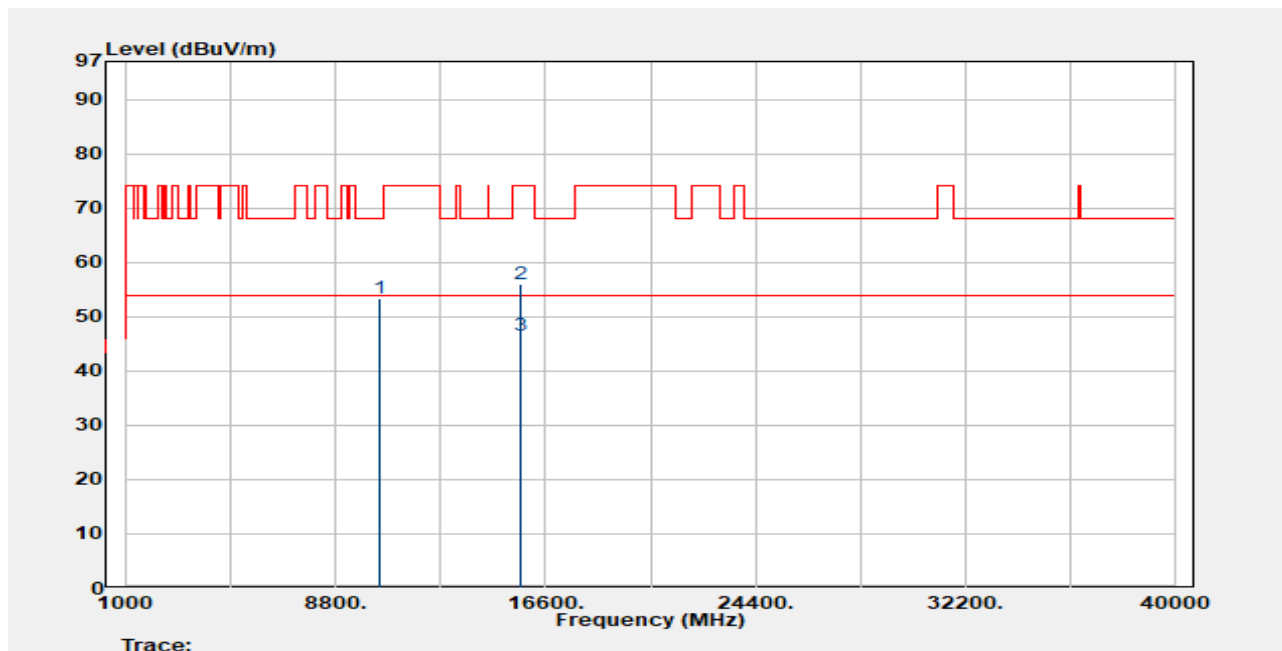
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Report Number :ER-2021-A0048
 Operation Mode :802.11a
 Test Frequency :5220 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-07
 Temp./Humi. :26.2/60
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10440.000	Peak	32.91	20.33	53.25	68.20	-14.95
15660.000	Peak	33.08	22.86	55.93	74.00	-18.07
15660.000	Average	23.62	22.86	46.48	54.00	-7.52

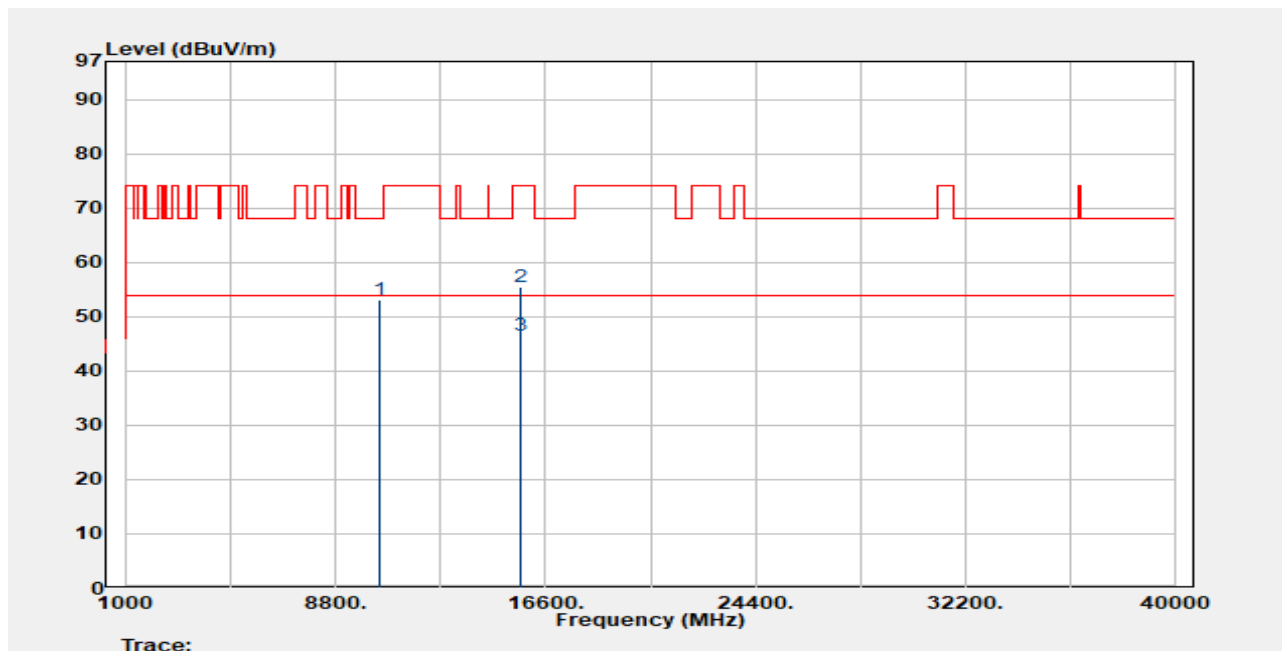
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Report Number :ER-2021-A0048
 Operation Mode :802.11a
 Test Frequency :5220 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-07
 Temp./Humi. :26.2/60
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10440.000	Peak	32.77	20.42	53.19	68.20	-15.01
15660.000	Peak	32.45	22.97	55.42	74.00	-18.58
15660.000	Average	23.66	22.97	46.63	54.00	-7.37

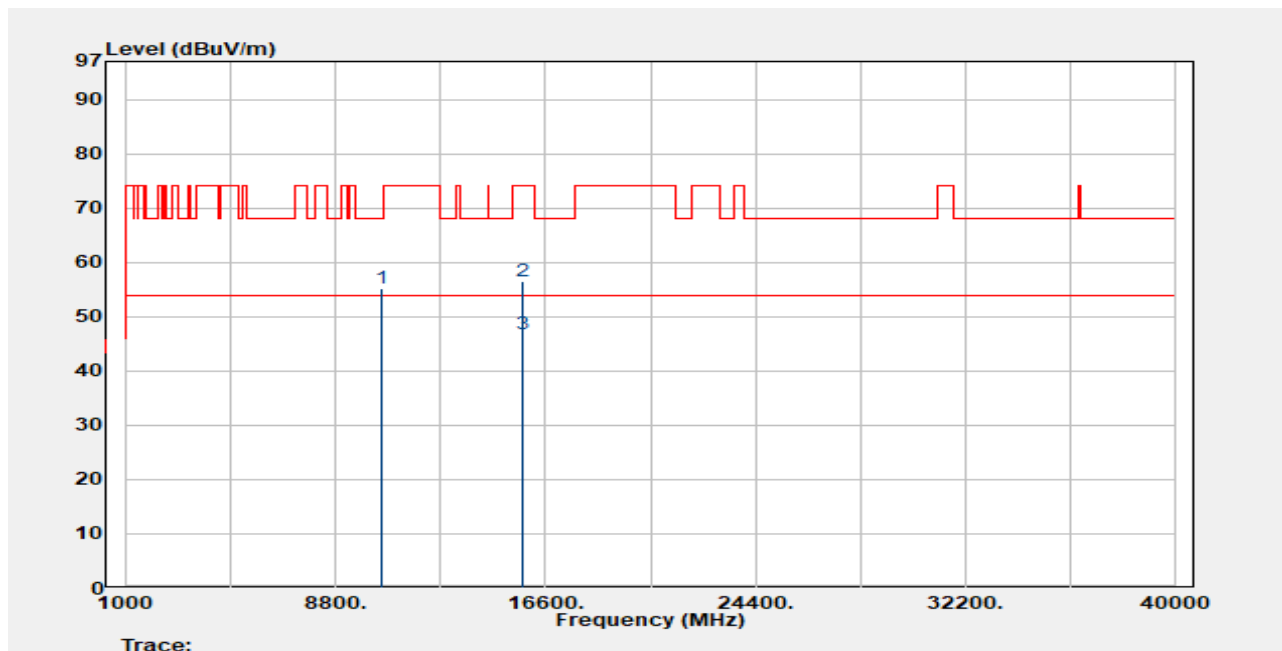
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Report Number :ER-2021-A0048
 Operation Mode :802.11a
 Test Frequency :5240 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-07
 Temp./Humi. :26.2/60
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10480.000	Peak	34.07	21.20	55.28	68.20	-12.92
15720.000	Peak	33.41	23.12	56.53	74.00	-17.47
15720.000	Average	23.59	23.12	46.71	54.00	-7.29

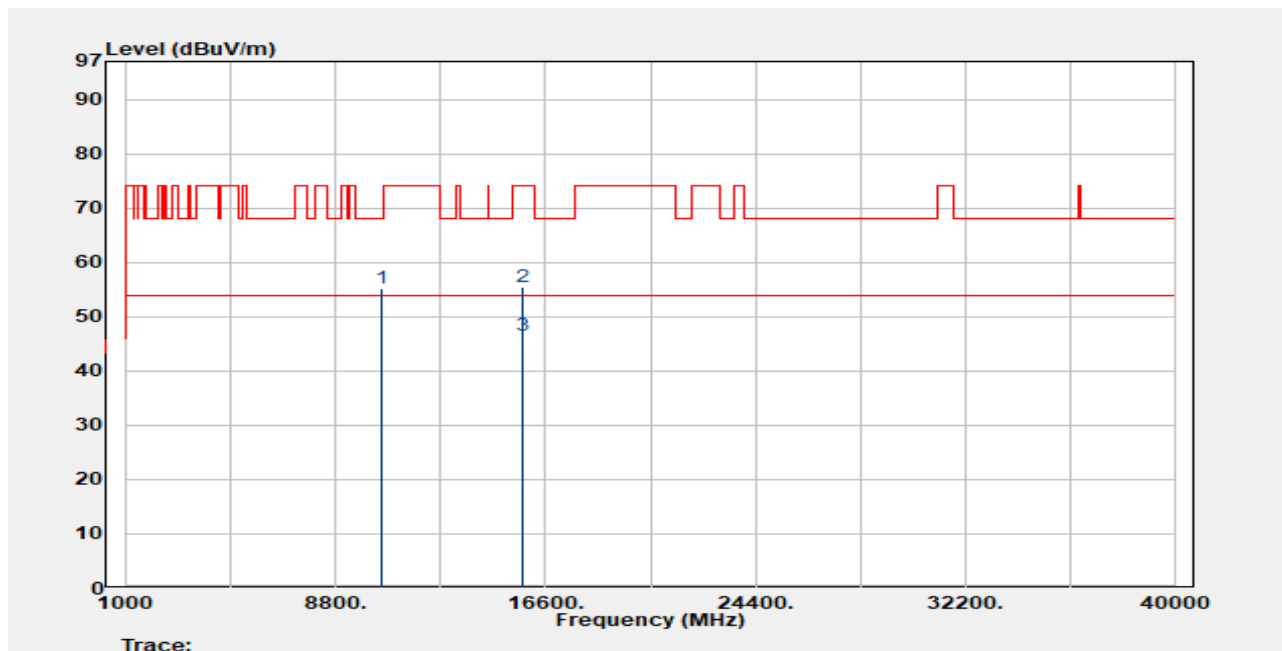
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Report Number :ER-2021-A0048
 Operation Mode :802.11a
 Test Frequency :5240 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-07
 Temp./Humi. :26.2/60
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Trace:	Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
	10480.000	Peak	34.33	20.76	55.09	68.20	-13.11
	15720.000	Peak	32.36	23.01	55.36	74.00	-18.64
	15720.000	Average	23.53	23.01	46.54	54.00	-7.46

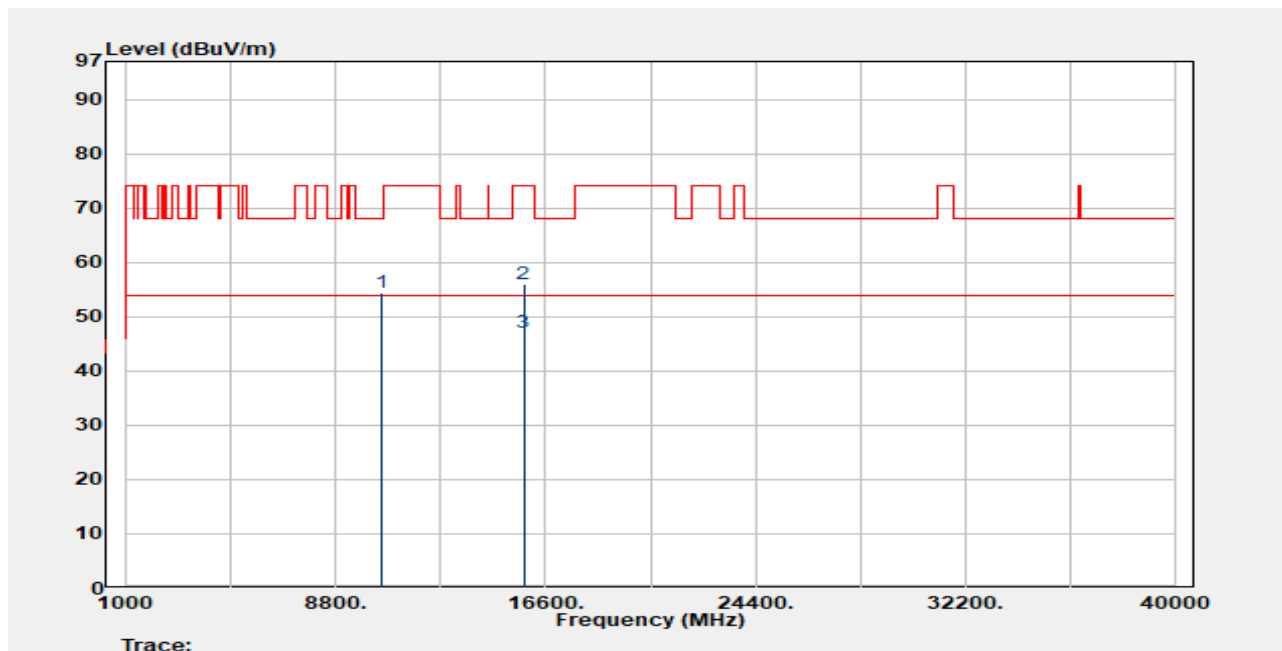
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Report Number :ER-2021-A0048
 Operation Mode :802.11a
 Test Frequency :5260 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-07
 Temp./Humi. :26.2/60
 Antenna Pol. :Vertical
 Engineer :Ricky 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
10520.000	Peak	32.81	21.49	54.30	68.20	-13.90
15780.000	Peak	32.56	23.44	56.00	74.00	-18.00
15780.000	Average	23.63	23.44	47.07	54.00	-6.93

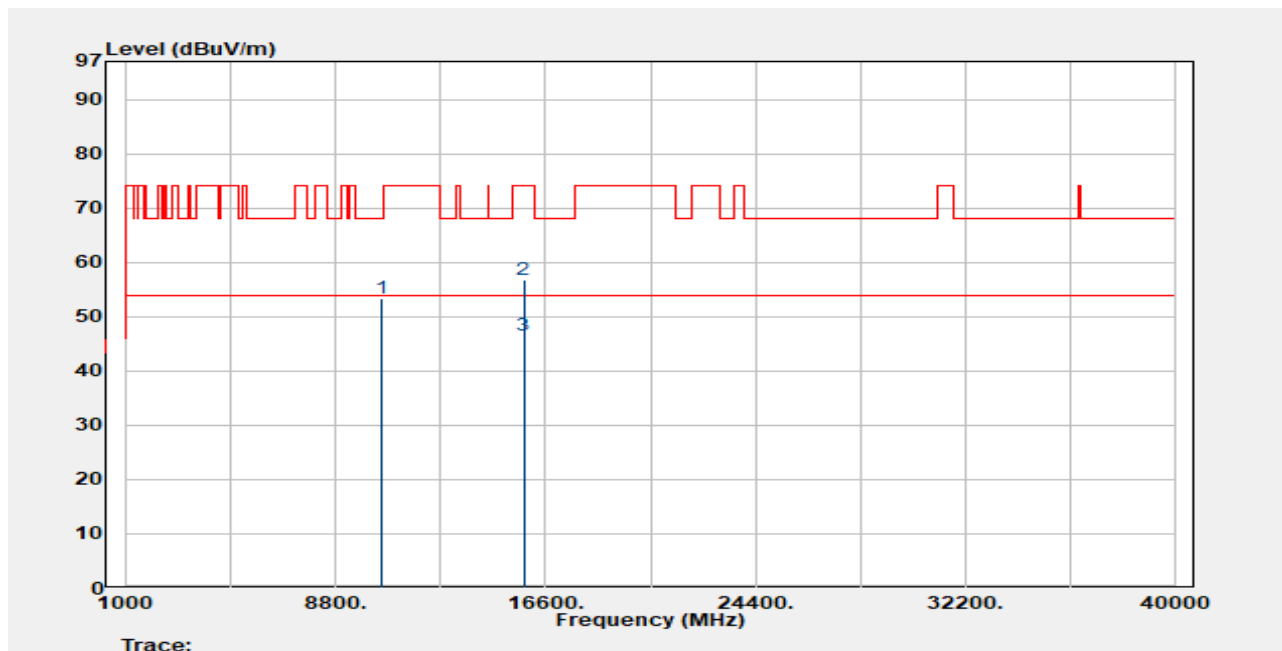
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Report Number :ER-2021-A0048
 Operation Mode :802.11a
 Test Frequency :5260 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-07
 Temp./Humi. :26.2/60
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10520.000	Peak	32.42	20.87	53.29	68.20	-14.91
15780.000	Peak	33.81	23.08	56.89	74.00	-17.11
15780.000	Average	23.55	23.08	46.63	54.00	-7.37

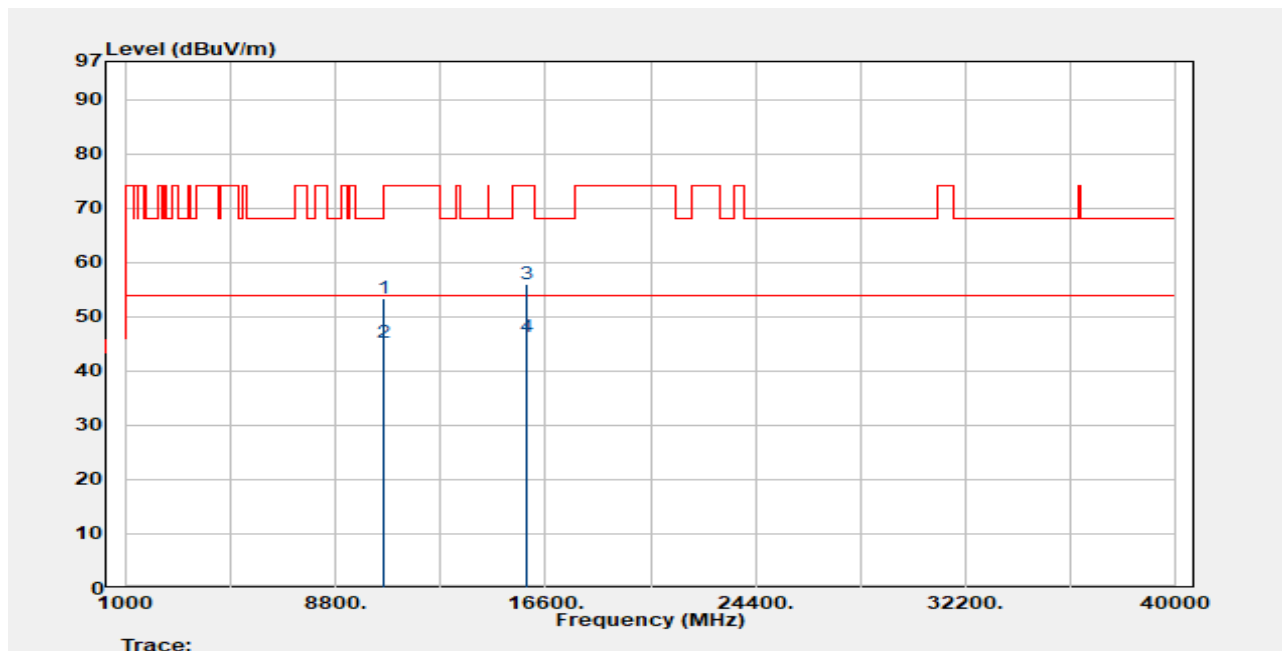
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Report Number :ER-2021-A0048
 Operation Mode :802.11a
 Test Frequency :5300 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-07
 Temp./Humi. :26.2/60
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10600.000	Peak	32.76	20.66	53.42	74.00	-20.58
10600.000	Average	24.46	20.66	45.12	54.00	-8.88
15900.000	Peak	33.03	22.90	55.92	74.00	-18.08
15900.000	Average	23.32	22.90	46.22	54.00	-7.78

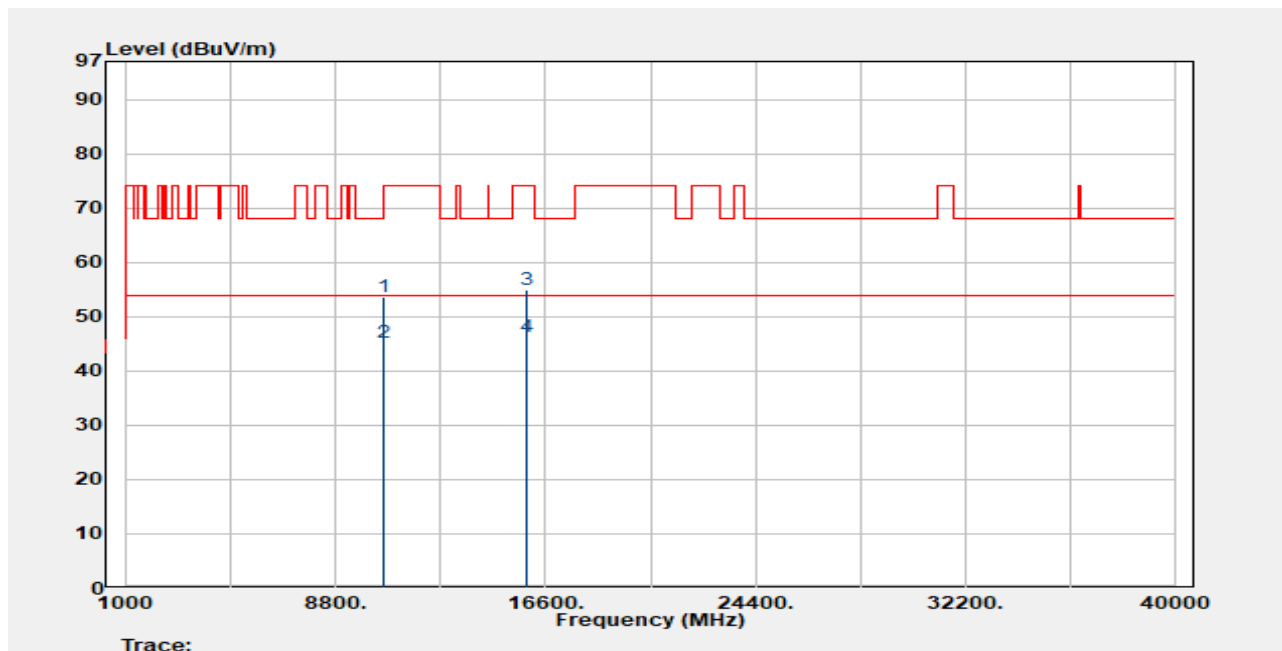
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Report Number :ER-2021-A0048
 Operation Mode :802.11a
 Test Frequency :5300 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-07
 Temp./Humi. :26.2/60
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10600.000	Peak	32.96	20.64	53.59	74.00	-20.41
10600.000	Average	24.50	20.64	45.14	54.00	-8.86
15900.000	Peak	31.95	23.03	54.98	74.00	-19.02
15900.000	Average	23.26	23.03	46.29	54.00	-7.71

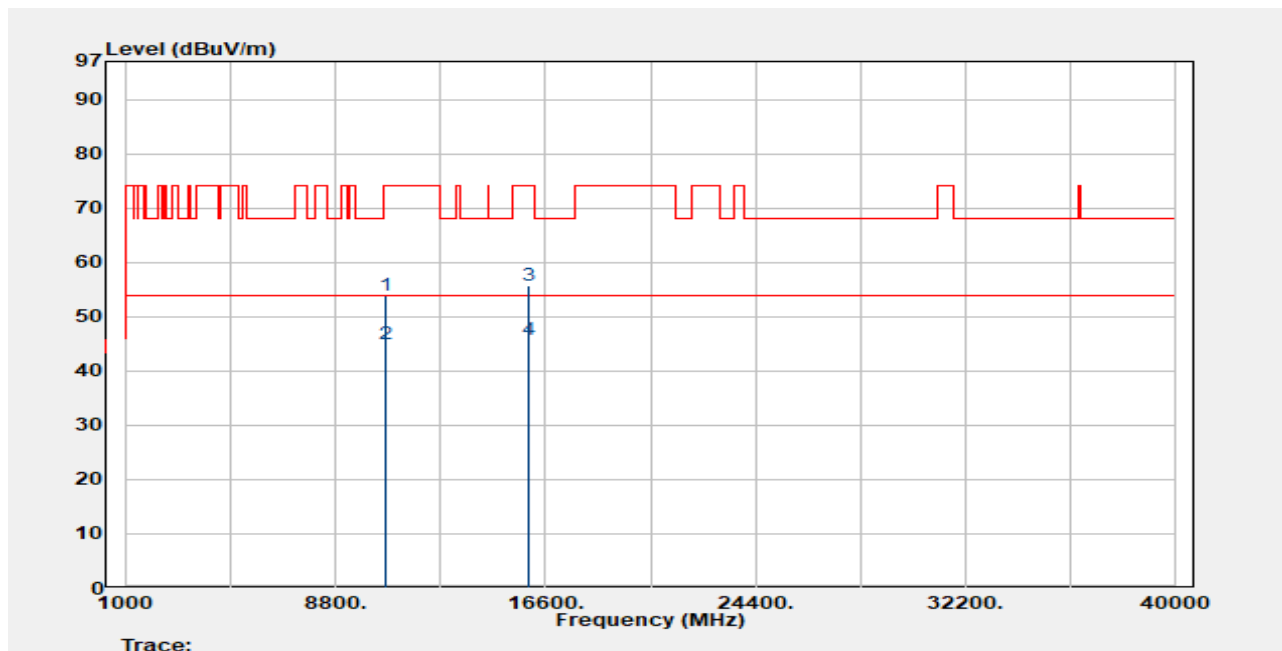
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Report Number :ER-2021-A0048
 Operation Mode :802.11a
 Test Frequency :5320 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-07
 Temp./Humi. :26.2/60
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10640.000	Peak	32.96	20.89	53.84	74.00	-20.16
10640.000	Average	24.07	20.89	44.96	54.00	-9.04
15960.000	Peak	33.53	22.07	55.61	74.00	-18.39
15960.000	Average	23.59	22.07	45.66	54.00	-8.34

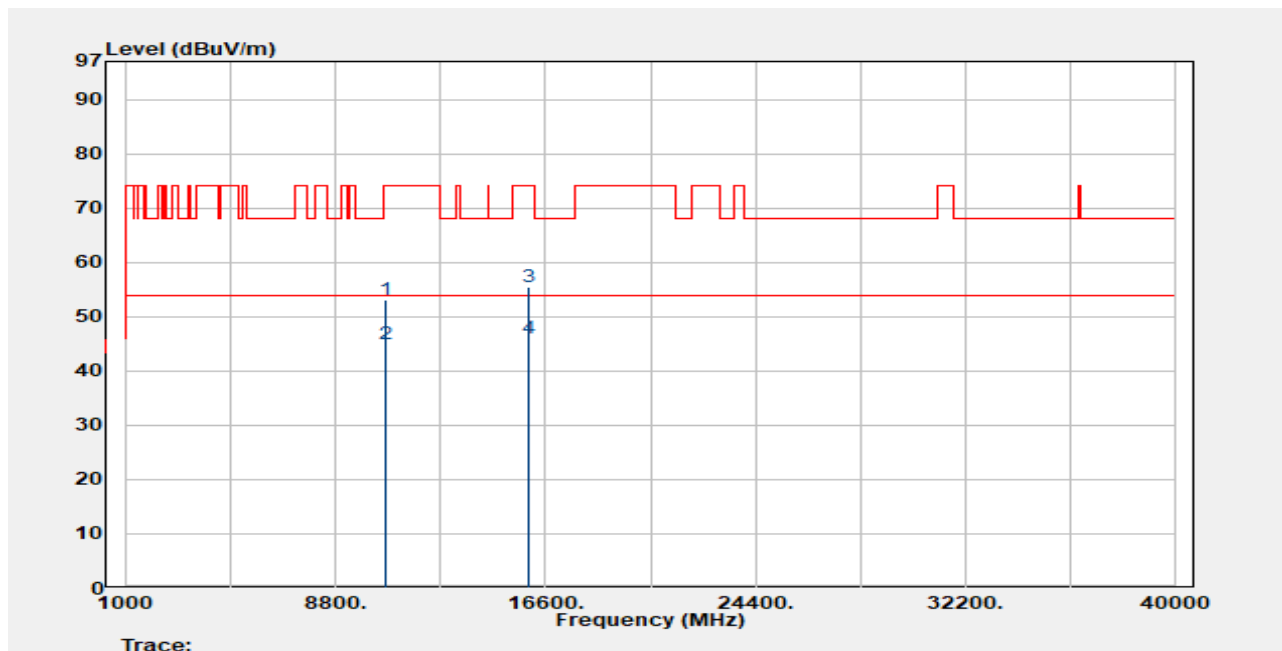
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Report Number :ER-2021-A0048
 Operation Mode :802.11a
 Test Frequency :5320 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-07
 Temp./Humi. :26.2/60
 Antenna Pol. :Horizontal
 Engineer :Ricky 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
10640.000	Peak	32.32	20.77	53.09	74.00	-20.91
10640.000	Average	24.09	20.77	44.86	54.00	-9.14
15960.000	Peak	32.95	22.59	55.54	74.00	-18.46
15960.000	Average	23.49	22.59	46.08	54.00	-7.92

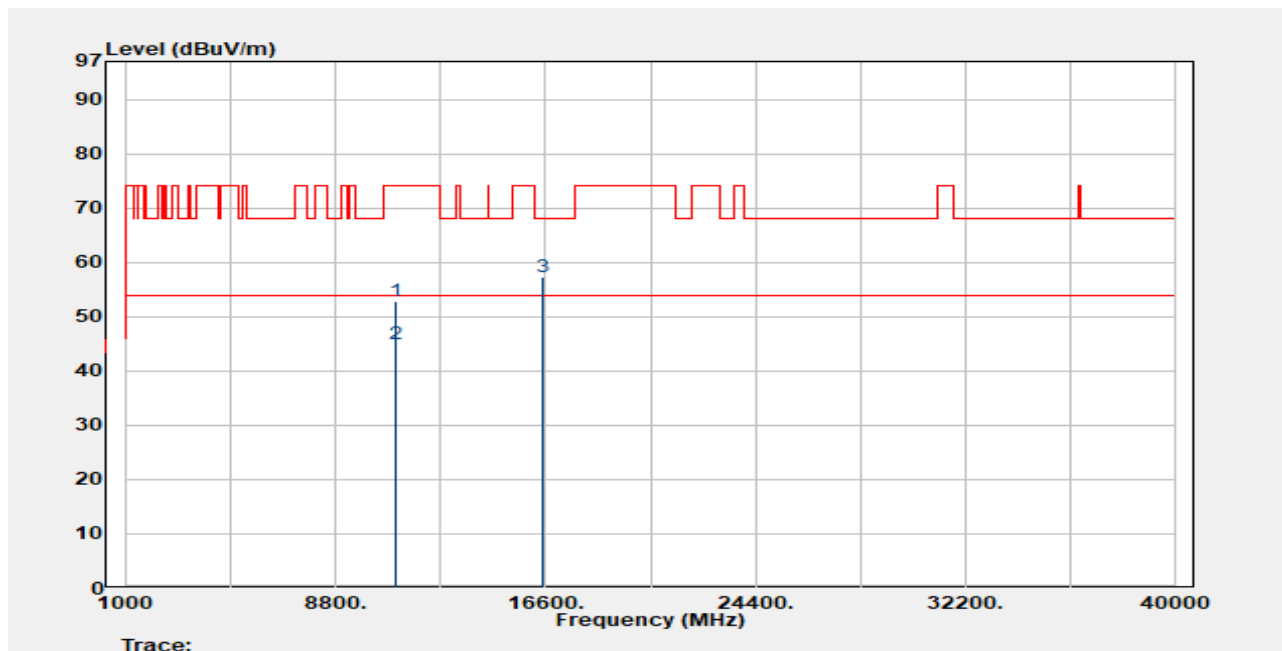
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Report Number :ER-2021-A0048
 Operation Mode :802.11a
 Test Frequency :5500 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-07
 Temp./Humi. :26.2/60
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11000.000	Peak	32.13	20.81	52.94	74.00	-21.06
11000.000	Average	24.19	20.81	45.00	54.00	-9.00
16500.000	Peak	32.40	24.95	57.35	68.20	-10.85

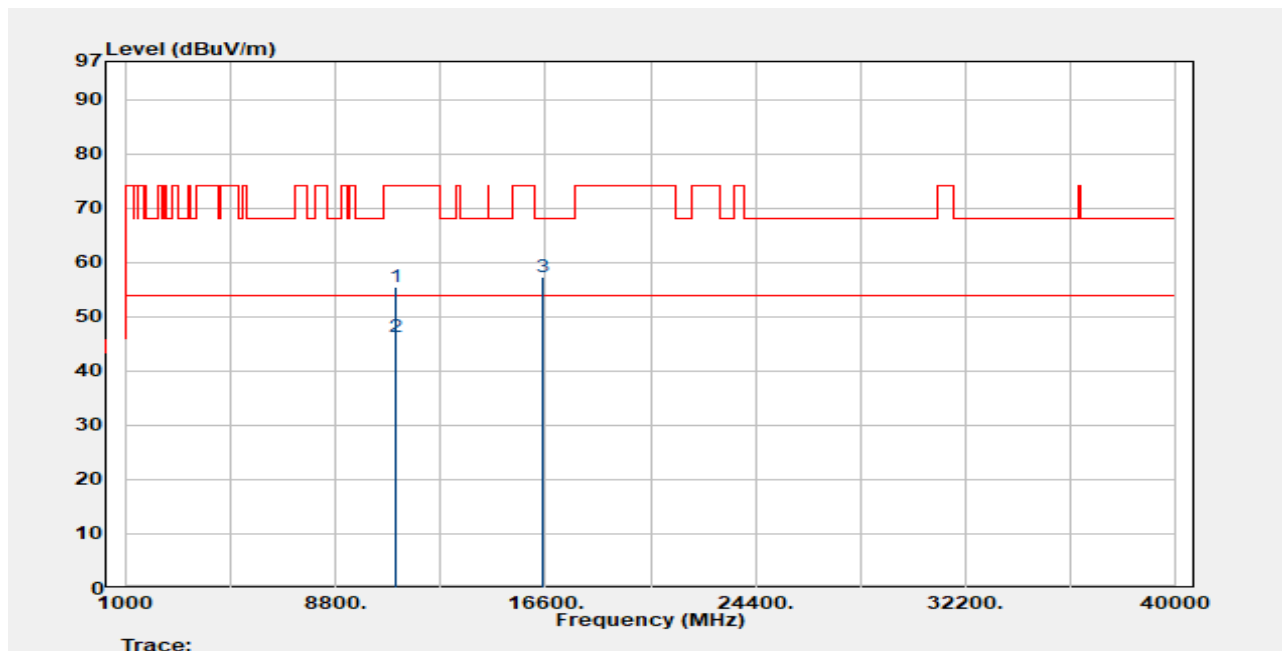
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Report Number :ER-2021-A0048
 Operation Mode :802.11a
 Test Frequency :5500 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-07
 Temp./Humi. :26.2/60
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11000.000	Peak	33.22	22.24	55.46	74.00	-18.54
11000.000	Average	24.06	22.24	46.30	54.00	-7.70
16500.000	Peak	31.89	25.33	57.22	68.20	-10.98

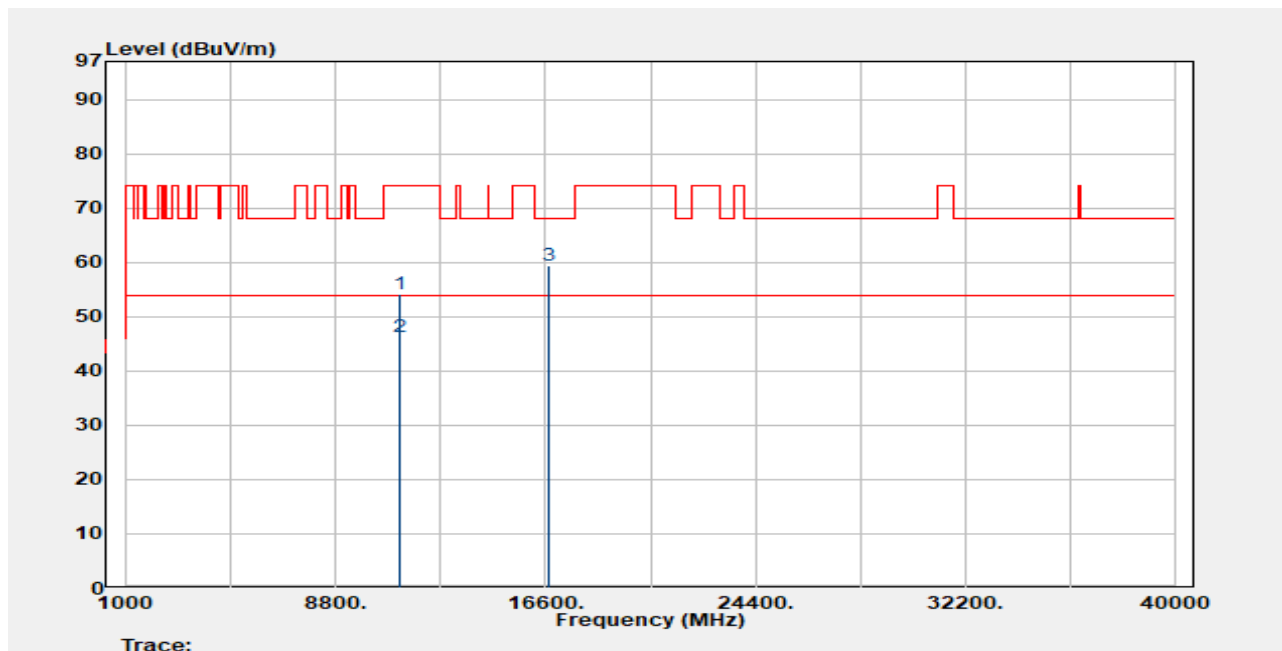
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Report Number :ER-2021-A0048
 Operation Mode :802.11a
 Test Frequency :5580 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-07
 Temp./Humi. :26.2/60
 Antenna Pol. :Vertical
 Engineer :Ricky 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
11160.000	Peak	32.55	21.59	54.14	74.00	-19.86
11160.000	Average	24.65	21.59	46.24	54.00	-7.76
16740.000	Peak	31.88	27.42	59.30	68.20	-8.90

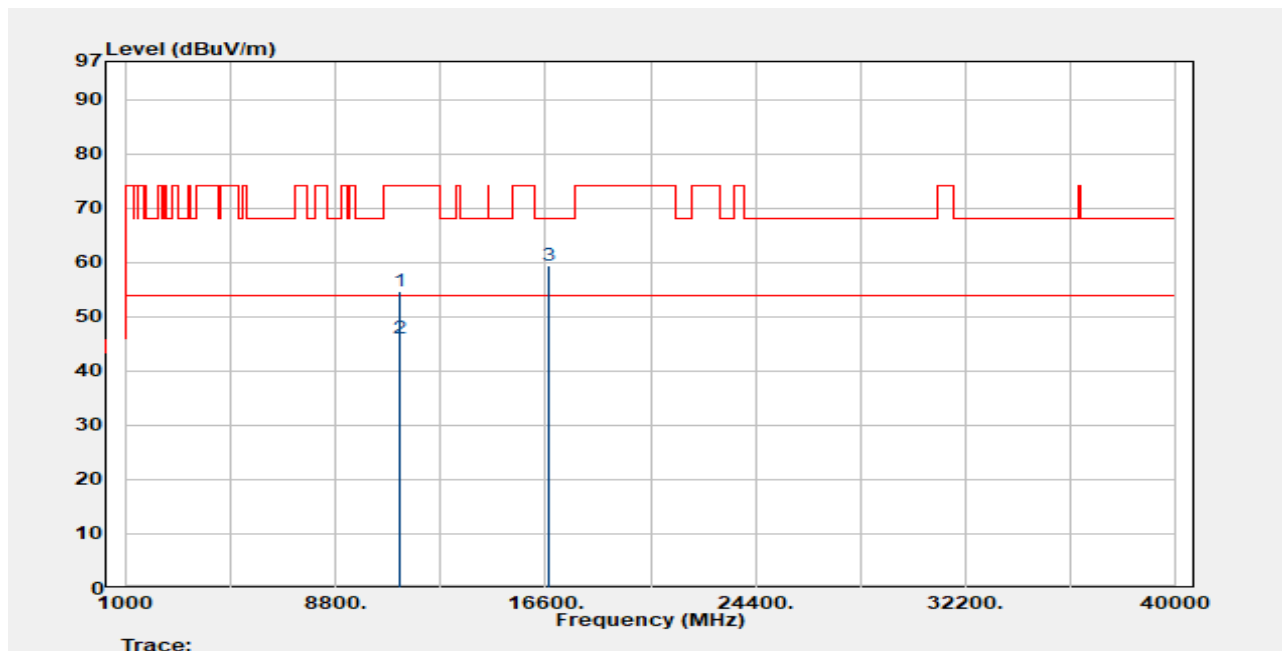
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Report Number :ER-2021-A0048
 Operation Mode :802.11a
 Test Frequency :5580 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-07
 Temp./Humi. :26.2/60
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Trace:	Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
	11160.000	Peak	33.14	21.48	54.63	74.00	-19.37
	11160.000	Average	24.55	21.48	46.03	54.00	-7.97
	16740.000	Peak	32.49	27.01	59.49	68.20	-8.71

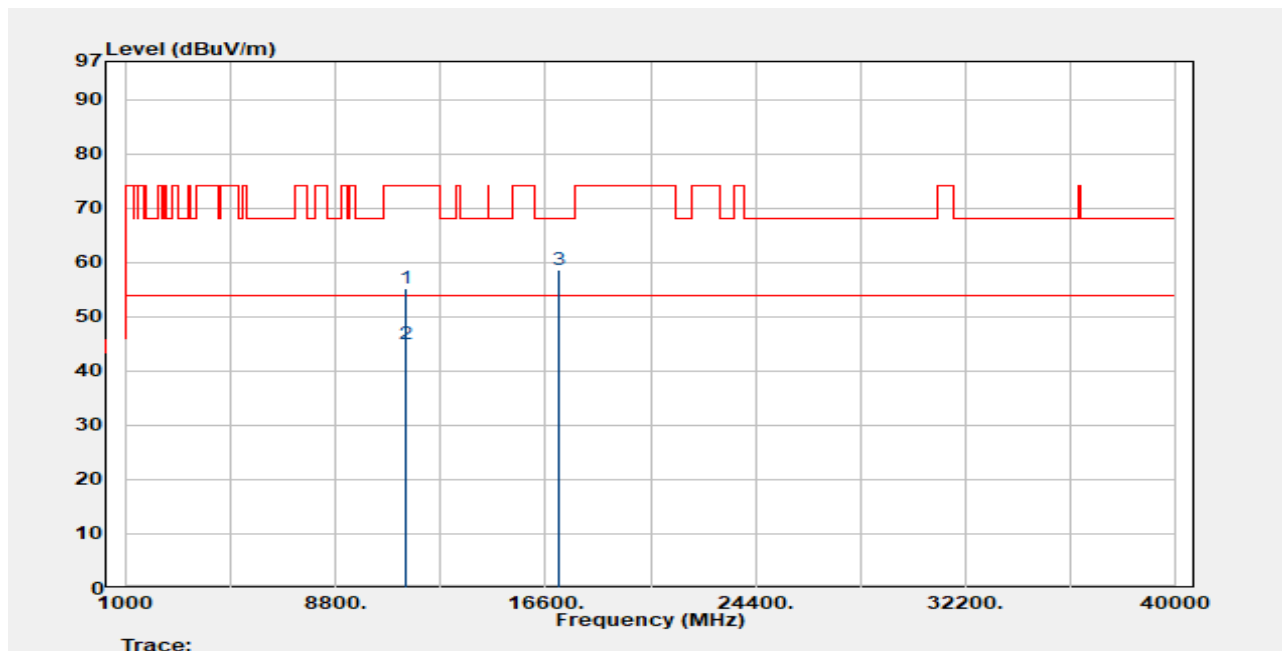
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Report Number :ER-2021-A0048
 Operation Mode :802.11a
 Test Frequency :5700 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-07
 Temp./Humi. :26.2/60
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11400.000	Peak	34.48	20.80	55.28	74.00	-18.72
11400.000	Average	24.06	20.80	44.86	54.00	-9.14
17100.000	Peak	31.82	26.77	58.60	68.20	-9.60

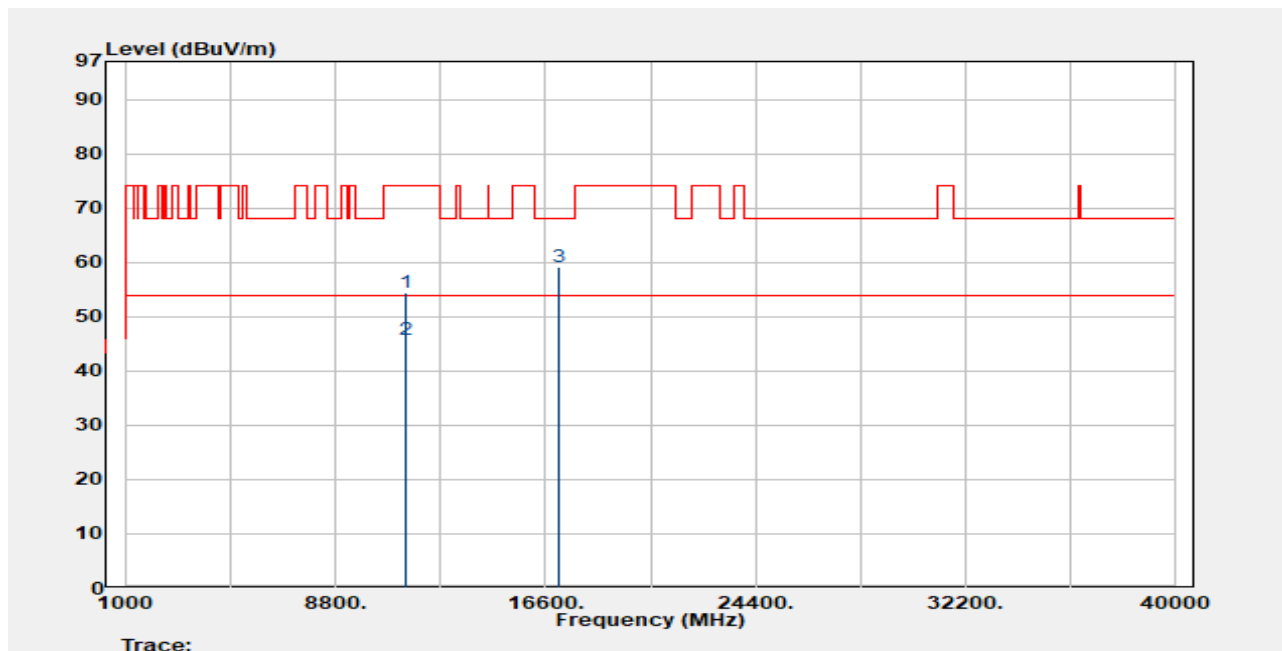
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Report Number :ER-2021-A0048
 Operation Mode :802.11a
 Test Frequency :5700 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-07
 Temp./Humi. :26.2/60
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11400.000	Peak	32.57	21.83	54.40	74.00	-19.60
11400.000	Average	23.99	21.83	45.82	54.00	-8.18
17100.000	Peak	31.79	27.23	59.03	68.20	-9.17

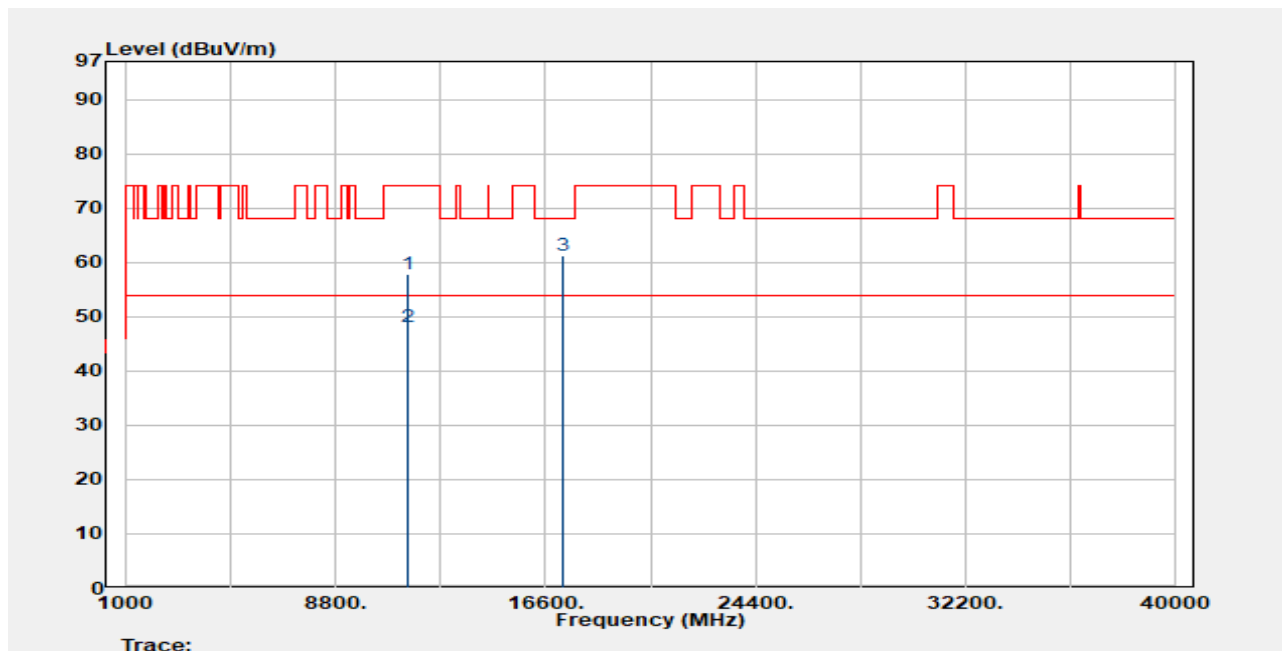
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Report Number :ER-2021-A0048
 Operation Mode :802.11a
 Test Frequency :5745 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-07
 Temp./Humi. :26.2/60
 Antenna Pol. :Vertical
 Engineer :Ricky 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
11490.000	Peak	33.80	23.98	57.78	74.00	-16.22
11490.000	Average	24.20	23.98	48.18	54.00	-5.82
17235.000	Peak	33.20	28.13	61.33	68.20	-6.87

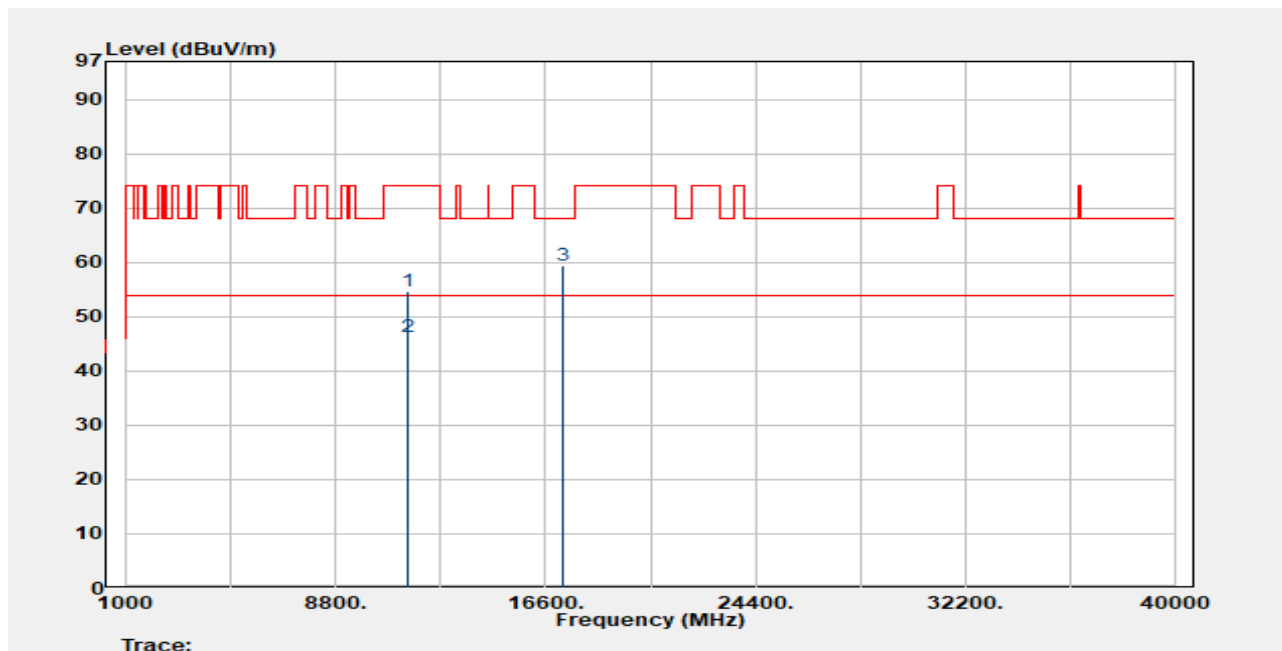
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Report Number :ER-2021-A0048
 Operation Mode :802.11a
 Test Frequency :5745 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-07
 Temp./Humi. :26.2/60
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Trace:	Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
	11490.000	Peak	32.38	22.21	54.59	74.00	-19.41
	11490.000	Average	24.03	22.21	46.24	54.00	-7.76
	17235.000	Peak	31.19	28.20	59.39	68.20	-8.81

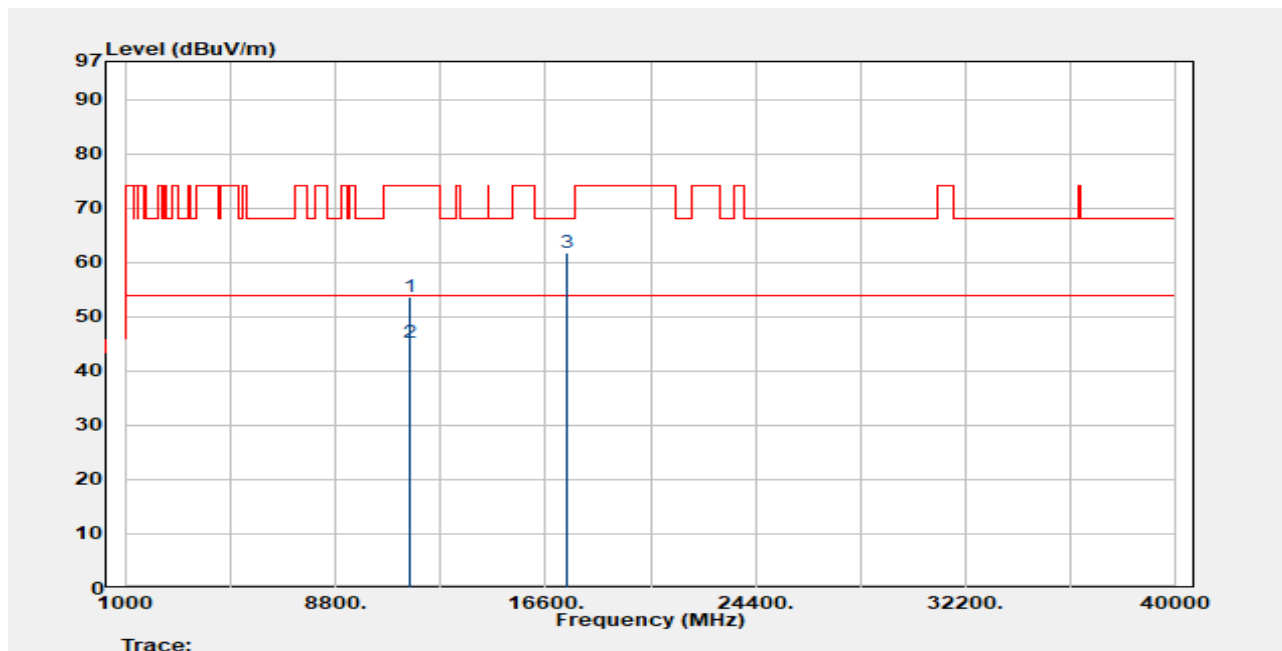
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Report Number :ER-2021-A0048
 Operation Mode :802.11a
 Test Frequency :5785 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-07
 Temp./Humi. :26.2/60
 Antenna Pol. :Vertical
 Engineer :Ricky 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
11570.000	Peak	32.45	21.18	53.64	74.00	-20.36
11570.000	Average	24.11	21.18	45.29	54.00	-8.71
17355.000	Peak	31.94	29.74	61.68	68.20	-6.52

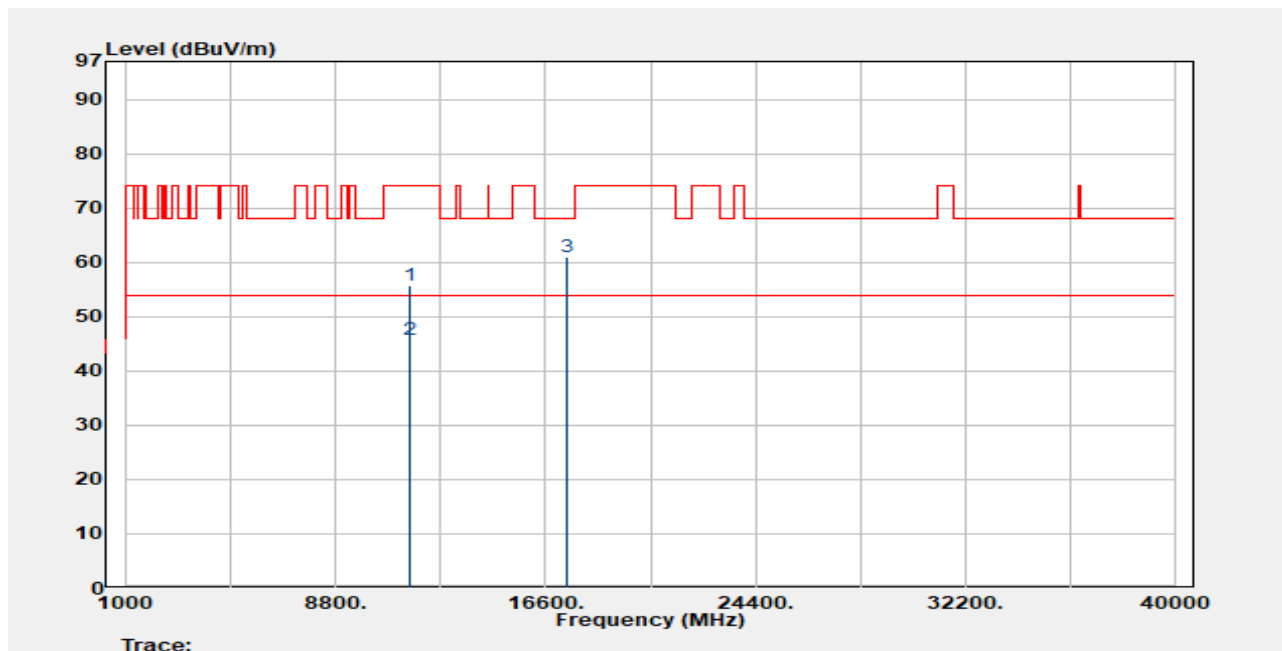
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Report Number :ER-2021-A0048
 Operation Mode :802.11a
 Test Frequency :5785 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-07
 Temp./Humi. :26.2/60
 Antenna Pol. :Horizontal
 Engineer :Ricky 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
11570.000	Peak	34.09	21.72	55.81	74.00	-18.19
11570.000	Average	24.03	21.72	45.75	54.00	-8.25
17355.000	Peak	32.00	28.99	60.99	68.20	-7.21

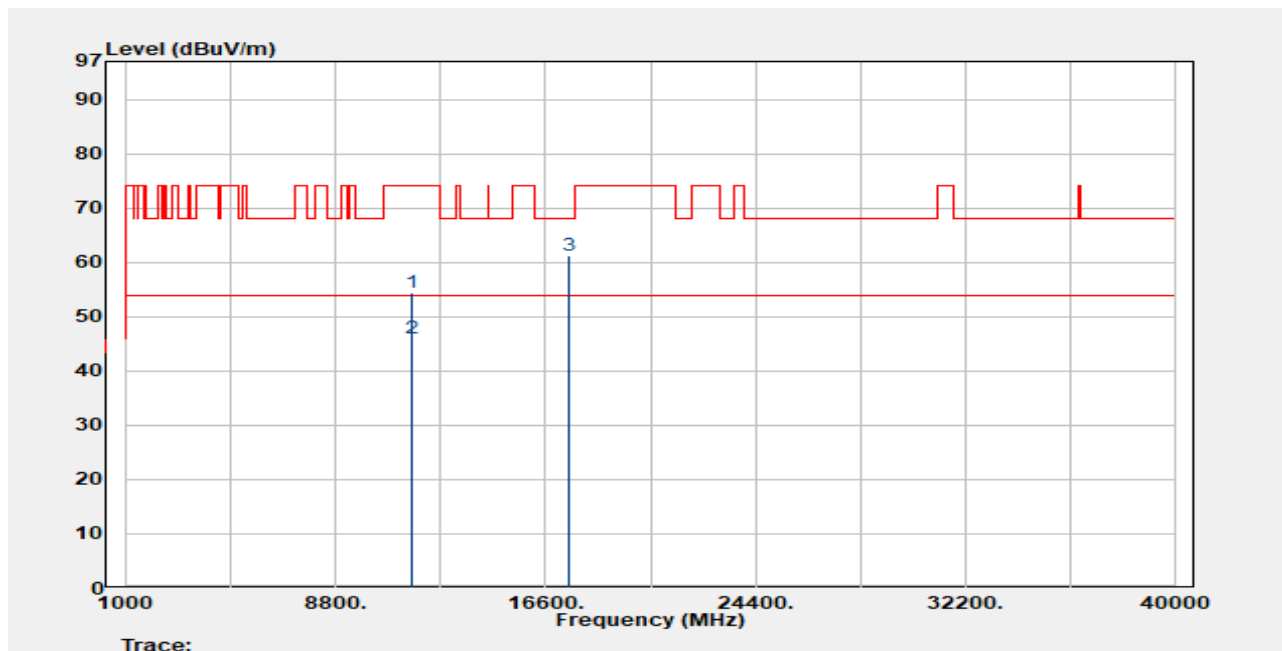
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Report Number :ER-2021-A0048
 Operation Mode :802.11a
 Test Frequency :5825 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-07
 Temp./Humi. :26.2/60
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11650.000	Peak	32.84	21.71	54.54	74.00	-19.46
11650.000	Average	24.32	21.71	46.03	54.00	-7.97
17475.000	Peak	31.51	29.72	61.23	68.20	-6.97

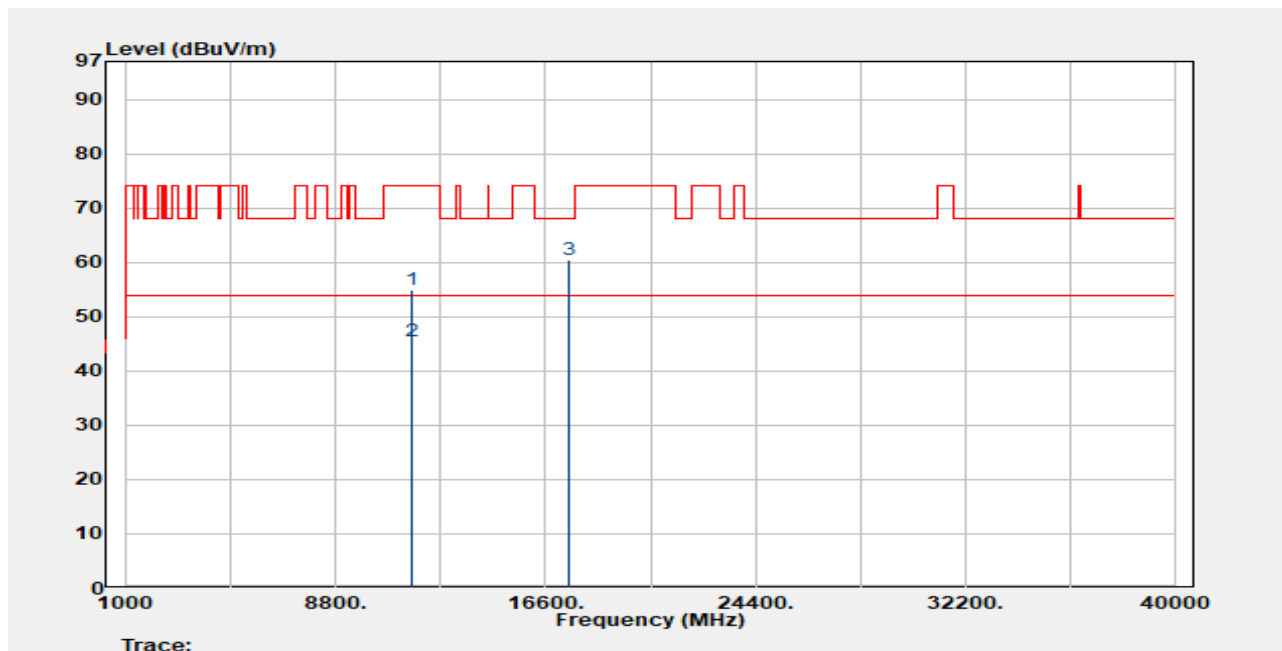
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Report Number :ER-2021-A0048
 Operation Mode :802.11a
 Test Frequency :5825 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-07
 Temp./Humi. :26.2/60
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Trace:	Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
	11650.000	Peak	33.50	21.47	54.98	74.00	-19.02
	11650.000	Average	24.13	21.47	45.60	54.00	-8.40
	17475.000	Peak	31.16	29.31	60.47	68.20	-7.73

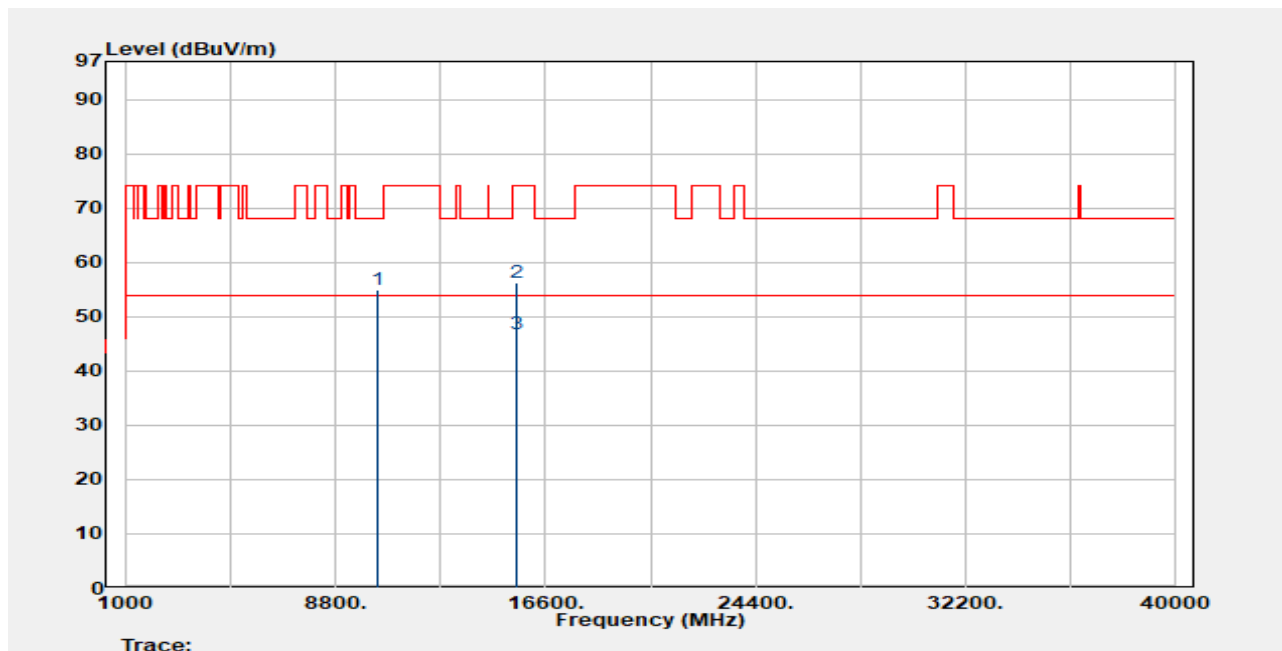
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Report Number :ER-2021-A0048
 Operation Mode :802.11n20
 Test Frequency :5180 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-07
 Temp./Humi. :26.2/60
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10360.000	Peak	34.45	20.53	54.98	68.20	-13.22
15540.000	Peak	33.08	23.22	56.30	74.00	-17.70
15540.000	Average	23.46	23.22	46.68	54.00	-7.32

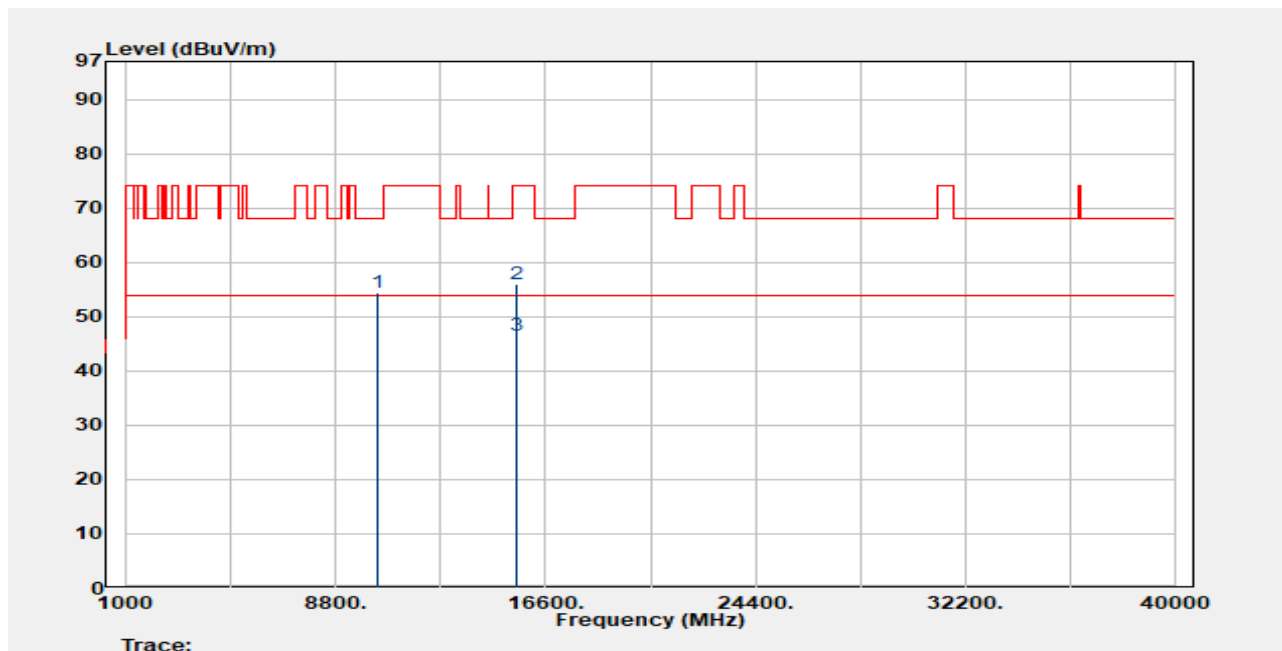
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Report Number :ER-2021-A0048
 Operation Mode :802.11n20
 Test Frequency :5180 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-07
 Temp./Humi. :26.2/60
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10360.000	Peak	34.16	20.13	54.29	68.20	-13.91
15540.000	Peak	32.90	23.19	56.09	74.00	-17.91
15540.000	Average	23.35	23.19	46.54	54.00	-7.46

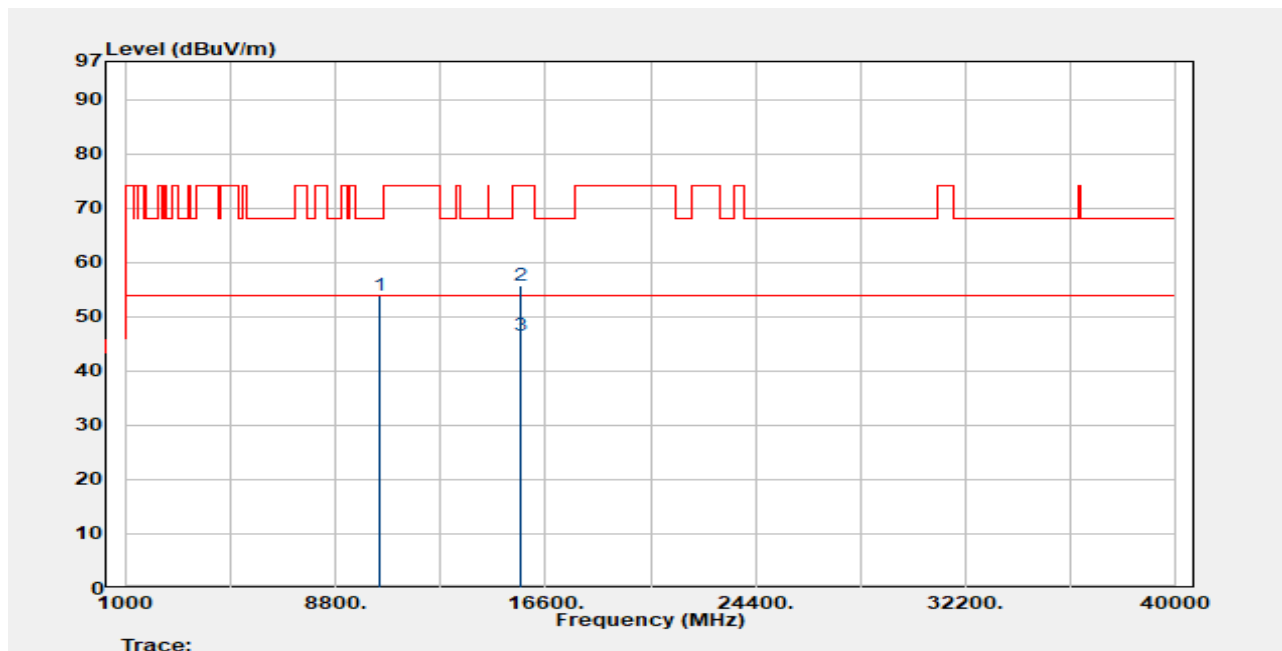
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Report Number :ER-2021-A0048
 Operation Mode :802.11n20
 Test Frequency :5220 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-07
 Temp./Humi. :26.2/60
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10440.000	Peak	33.63	20.33	53.96	68.20	-14.24
15660.000	Peak	32.83	22.86	55.69	74.00	-18.31
15660.000	Average	23.56	22.86	46.42	54.00	-7.58

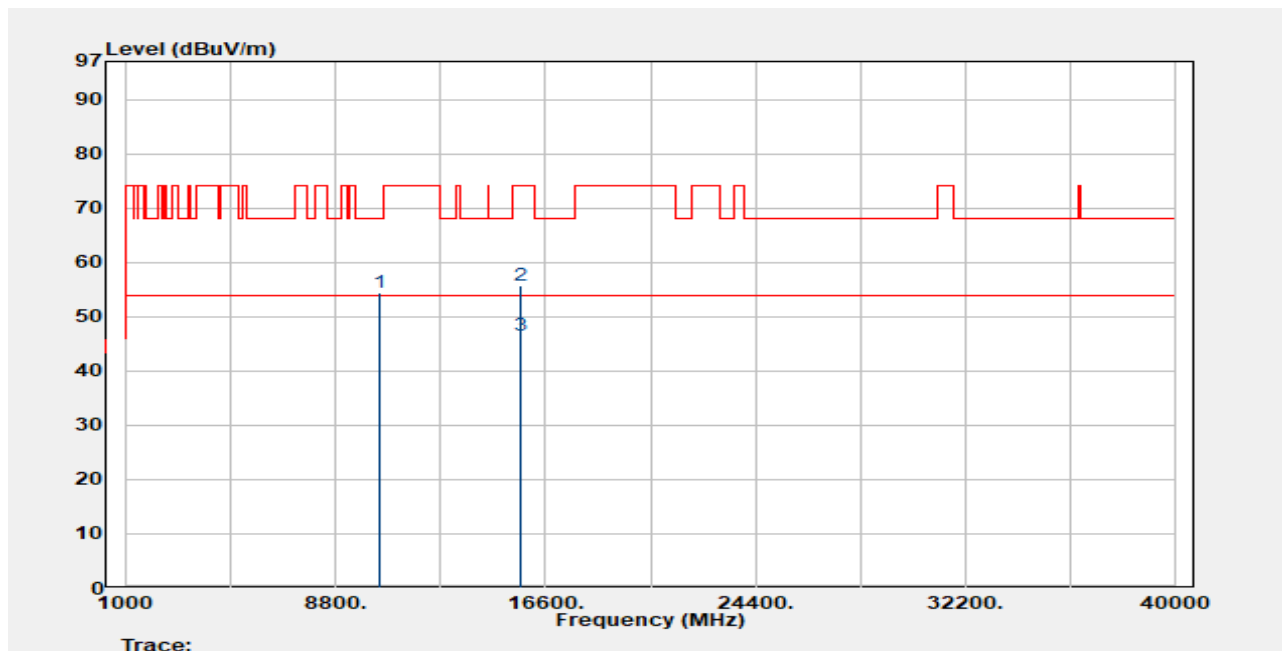
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Report Number :ER-2021-A0048
 Operation Mode :802.11n20
 Test Frequency :5220 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-07
 Temp./Humi. :26.2/60
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10440.000	Peak	34.01	20.42	54.43	68.20	-13.77
15660.000	Peak	32.72	22.97	55.68	74.00	-18.32
15660.000	Average	23.46	22.97	46.43	54.00	-7.57

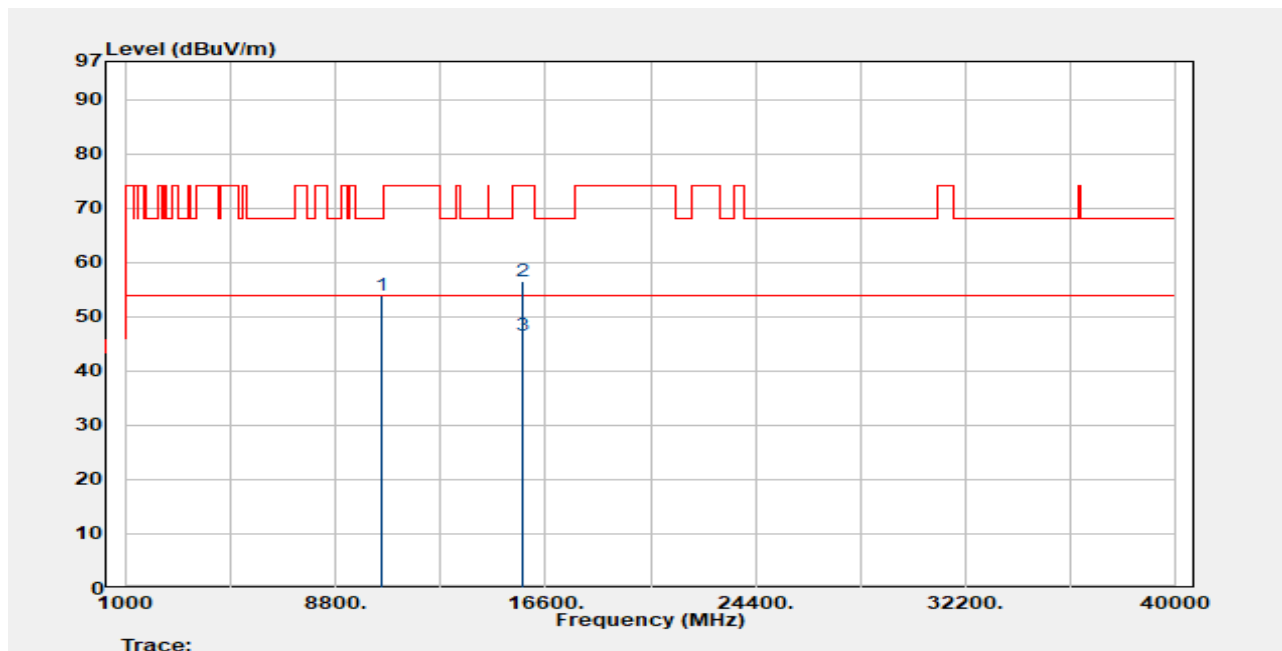
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Report Number :ER-2021-A0048
 Operation Mode :802.11n20
 Test Frequency :5240 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-07
 Temp./Humi. :26.2/60
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10480.000	Peak	32.69	21.20	53.89	68.20	-14.31
15720.000	Peak	33.50	23.12	56.62	74.00	-17.38
15720.000	Average	23.42	23.12	46.54	54.00	-7.46

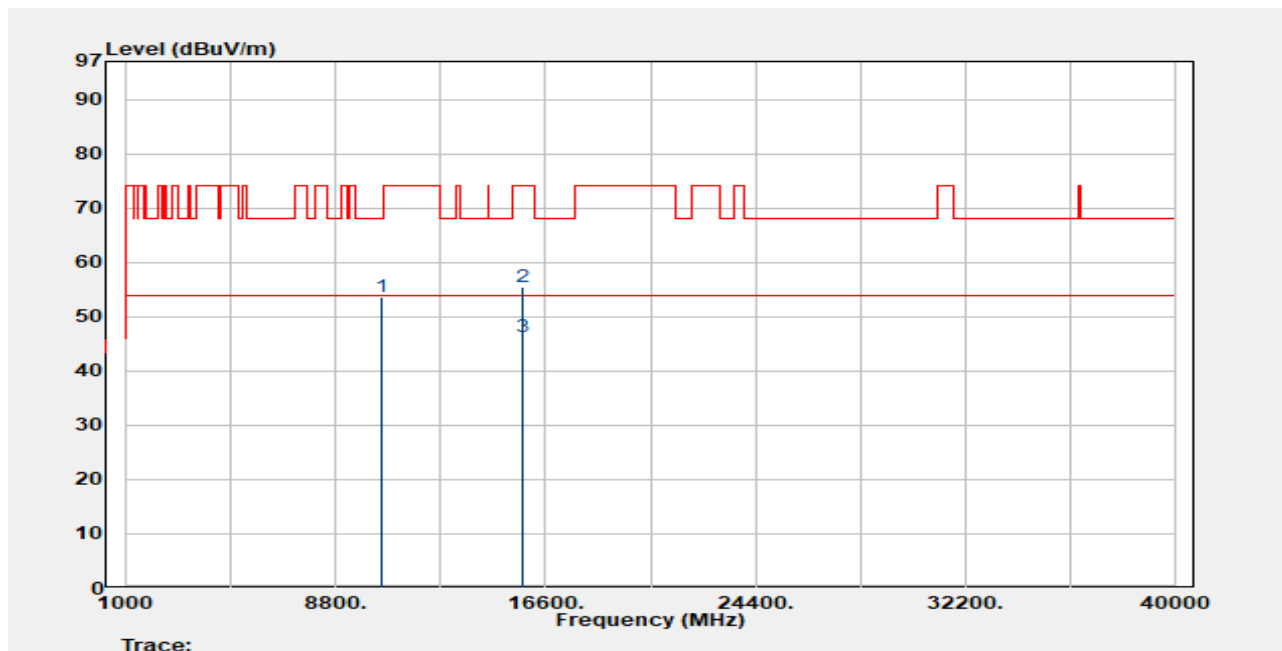
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Report Number :ER-2021-A0048
 Operation Mode :802.11n20
 Test Frequency :5240 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-07
 Temp./Humi. :26.2/60
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10480.000	Peak	32.87	20.76	53.63	68.20	-14.57
15720.000	Peak	32.33	23.01	55.34	74.00	-18.66
15720.000	Average	23.38	23.01	46.39	54.00	-7.61

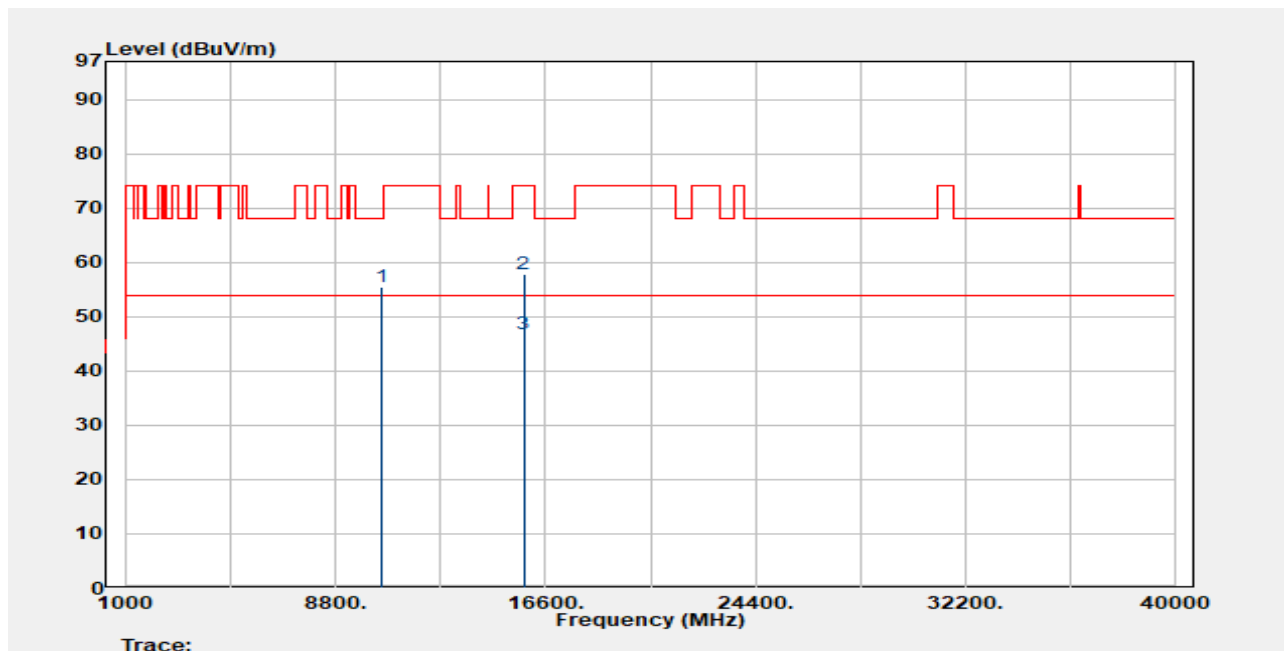
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Report Number :ER-2021-A0048
 Operation Mode :802.11n20
 Test Frequency :5260 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-07
 Temp./Humi. :26.2/60
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10520.000	Peak	33.97	21.49	55.45	68.20	-12.75
15780.000	Peak	34.28	23.44	57.72	74.00	-16.28
15780.000	Average	23.43	23.44	46.87	54.00	-7.13

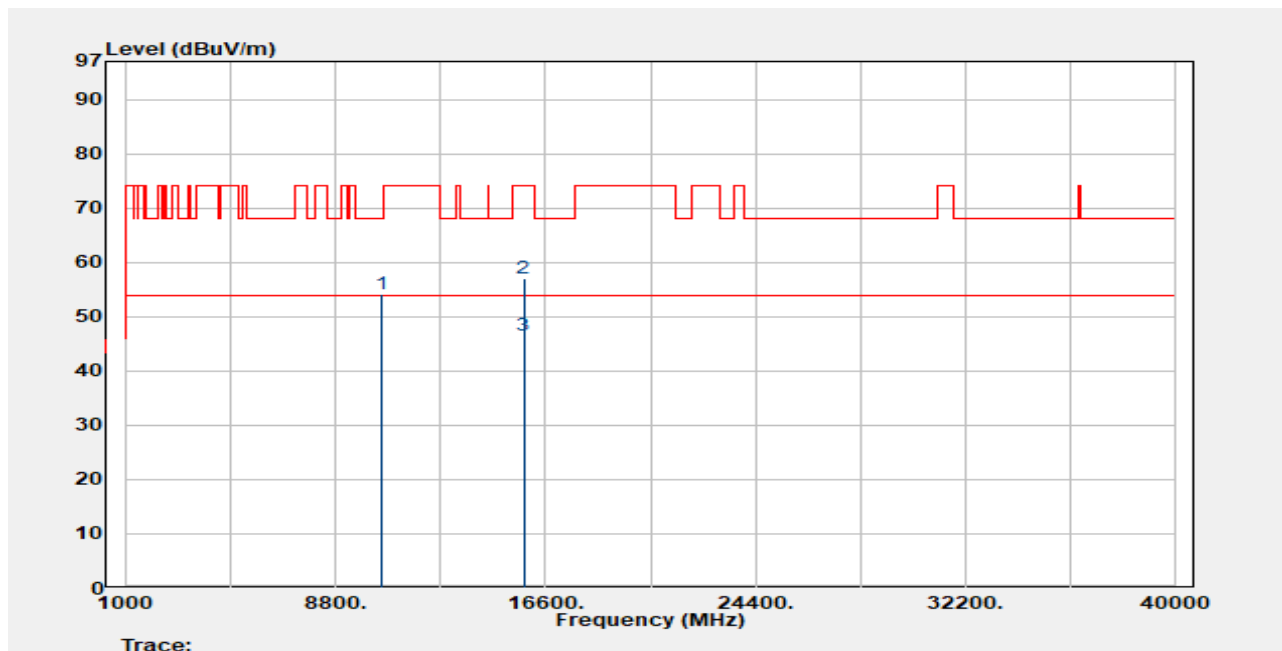
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Report Number :ER-2021-A0048
 Operation Mode :802.11n20
 Test Frequency :5260 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-07
 Temp./Humi. :26.2/60
 Antenna Pol. :Horizontal
 Engineer :Ricky 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
10520.000	Peak	33.21	20.87	54.07	68.20	-14.13
15780.000	Peak	33.99	23.08	57.07	74.00	-16.93
15780.000	Average	23.39	23.08	46.47	54.00	-7.53

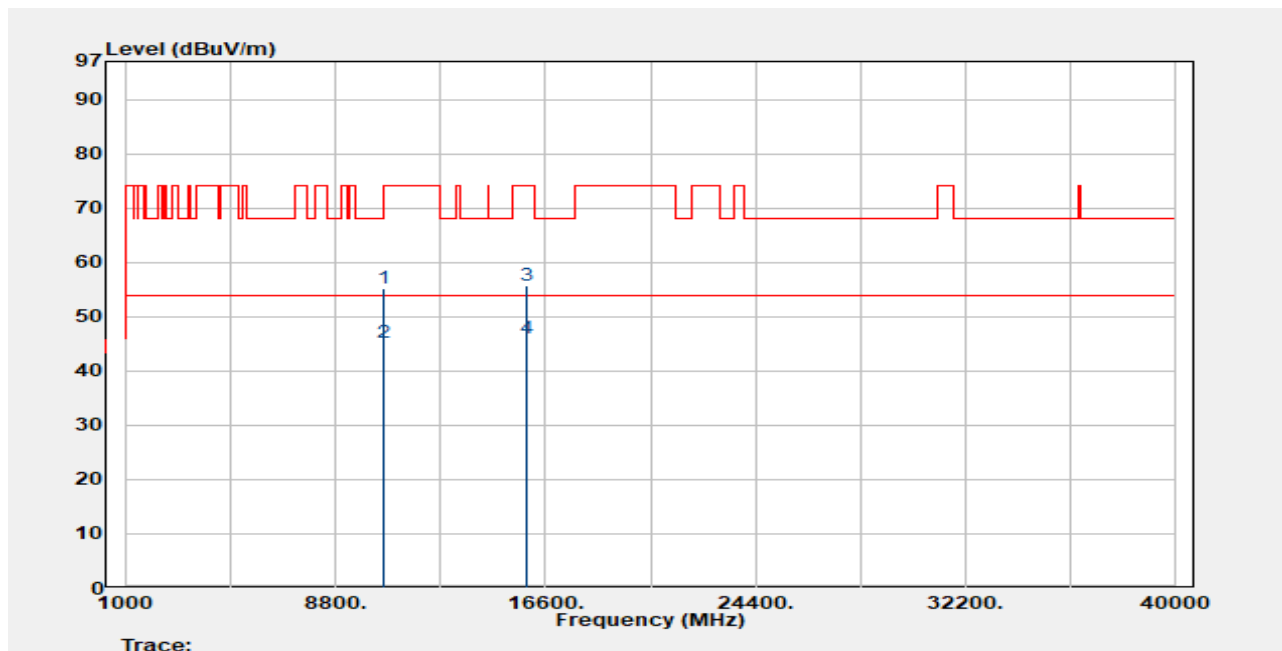
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Report Number :ER-2021-A0048
 Operation Mode :802.11n20
 Test Frequency :5300 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-07
 Temp./Humi. :26.2/60
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10600.000	Peak	34.48	20.66	55.14	74.00	-18.86
10600.000	Average	24.49	20.66	45.15	54.00	-8.85
15900.000	Peak	32.79	22.90	55.69	74.00	-18.31
15900.000	Average	23.21	22.90	46.11	54.00	-7.89

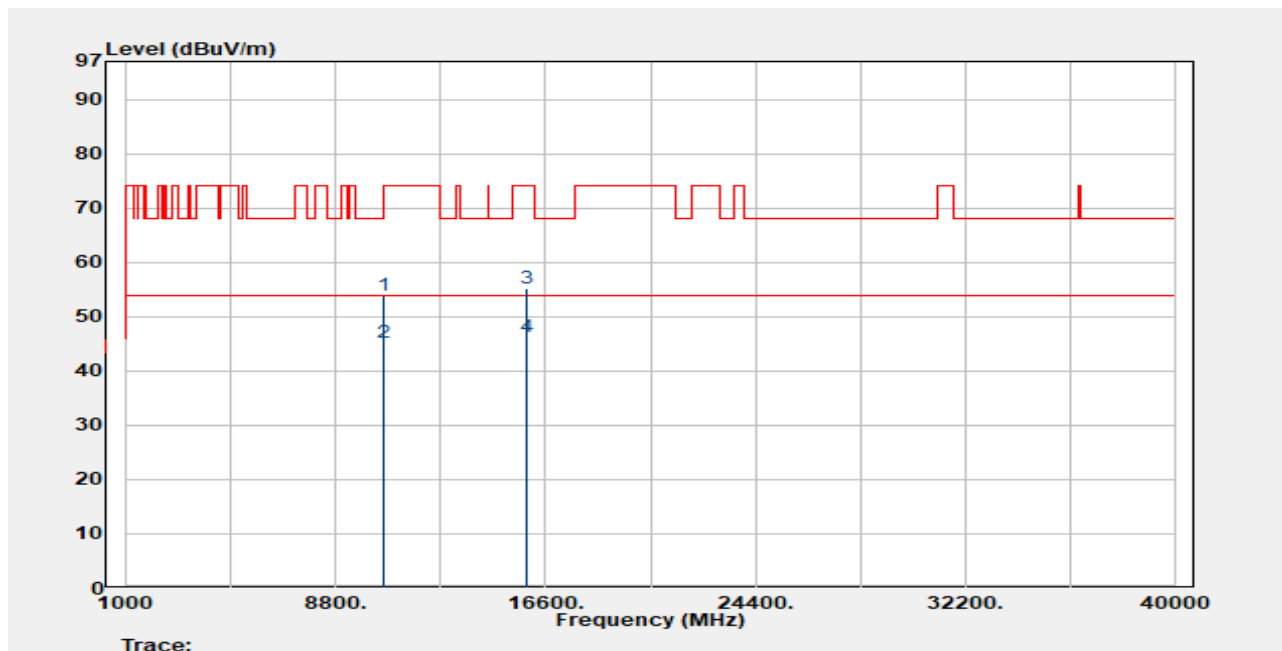
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Report Number :ER-2021-A0048
 Operation Mode :802.11n20
 Test Frequency :5300 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-07
 Temp./Humi. :26.2/60
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10600.000	Peak	33.22	20.64	53.86	74.00	-20.14
10600.000	Average	24.51	20.64	45.15	54.00	-8.85
15900.000	Peak	32.16	23.03	55.19	74.00	-18.81
15900.000	Average	23.16	23.03	46.19	54.00	-7.81

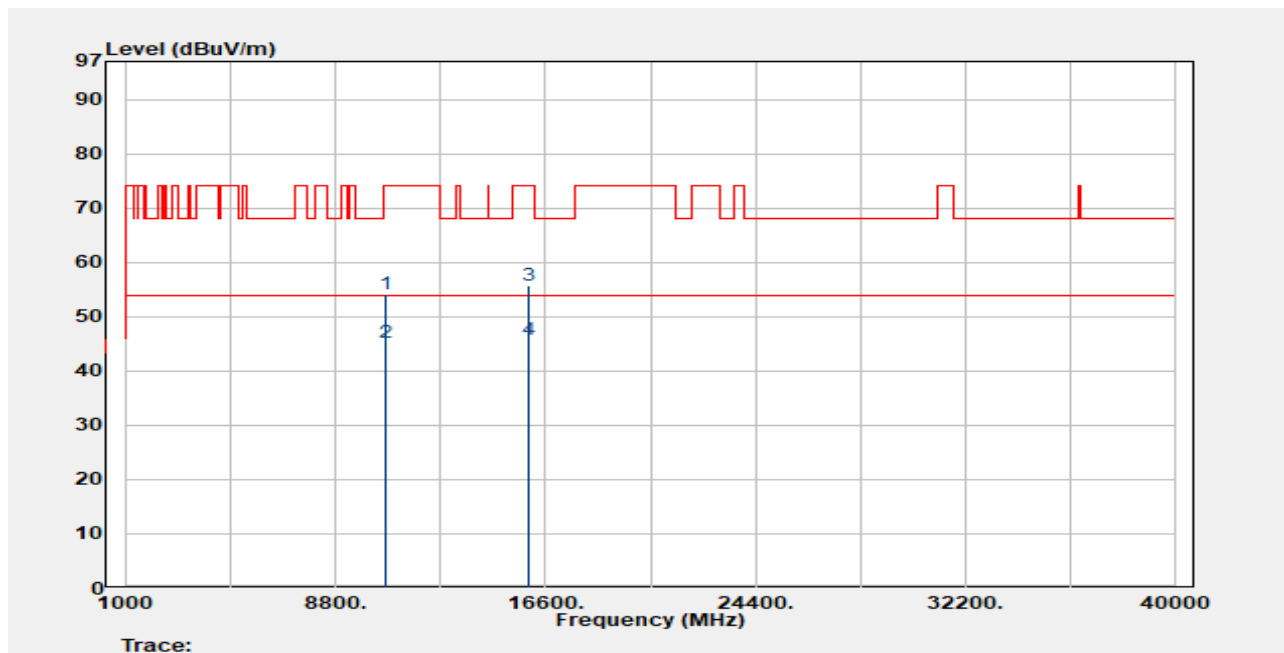
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Report Number :ER-2021-A0048
 Operation Mode :802.11n20
 Test Frequency :5320 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-07
 Temp./Humi. :26.2/60
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10640.000	Peak	33.18	20.89	54.07	74.00	-19.93
10640.000	Average	24.33	20.89	45.22	54.00	-8.78
15960.000	Peak	33.70	22.07	55.77	74.00	-18.23
15960.000	Average	23.56	22.07	45.63	54.00	-8.37

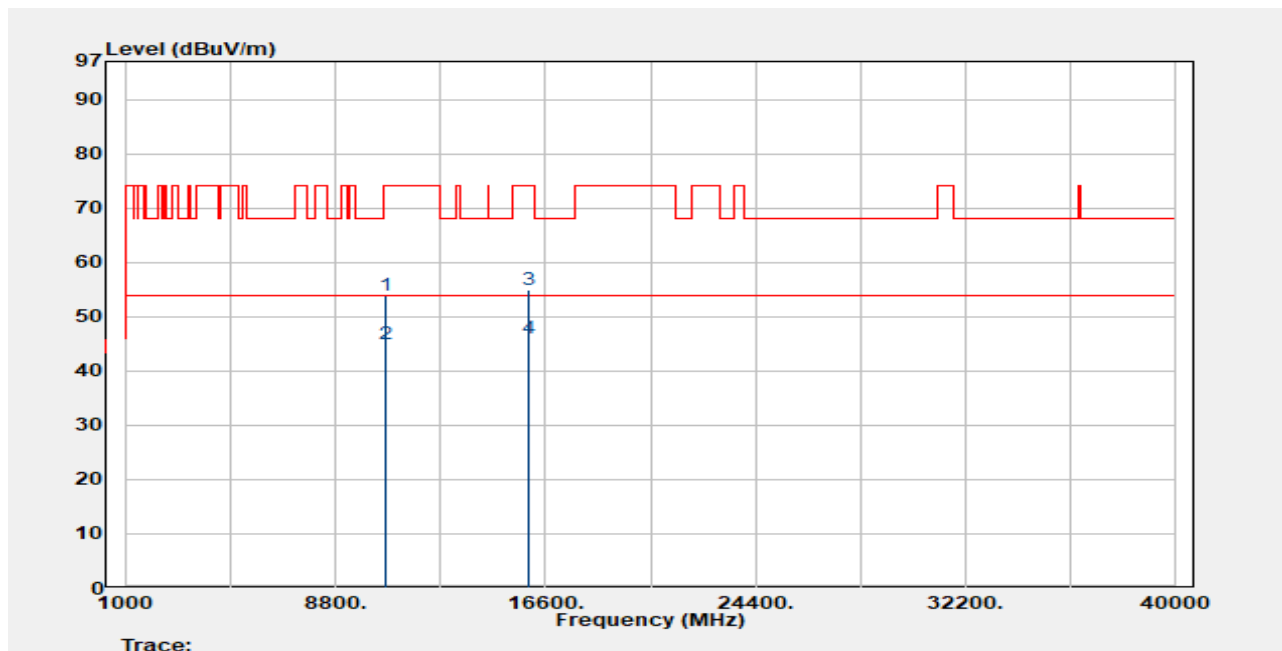
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Report Number :ER-2021-A0048
 Operation Mode :802.11n20
 Test Frequency :5320 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-07
 Temp./Humi. :26.2/60
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10640.000	Peak	33.23	20.77	54.00	74.00	-20.00
10640.000	Average	24.29	20.77	45.06	54.00	-8.94
15960.000	Peak	32.33	22.59	54.92	74.00	-19.08
15960.000	Average	23.39	22.59	45.98	54.00	-8.02

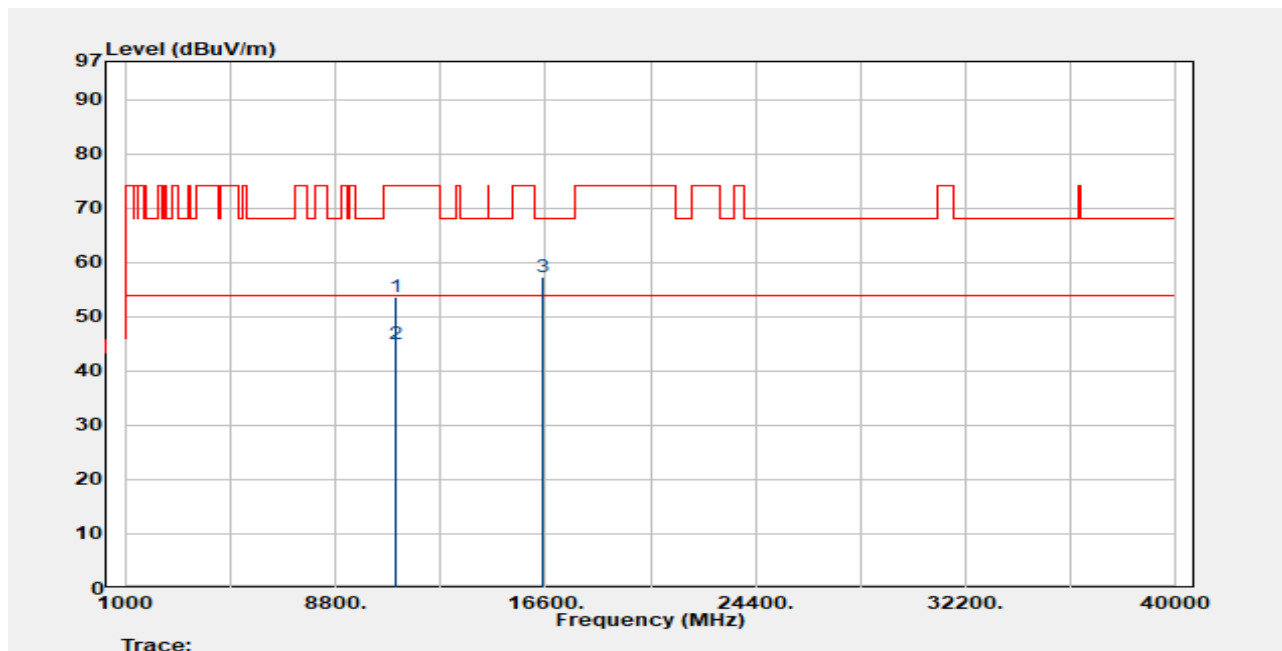
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Report Number :ER-2021-A0048
 Operation Mode :802.11n20
 Test Frequency :5500 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-07
 Temp./Humi. :26.2/60
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11000.000	Peak	32.90	20.81	53.71	74.00	-20.29
11000.000	Average	24.17	20.81	44.98	54.00	-9.02
16500.000	Peak	32.40	24.95	57.36	68.20	-10.84

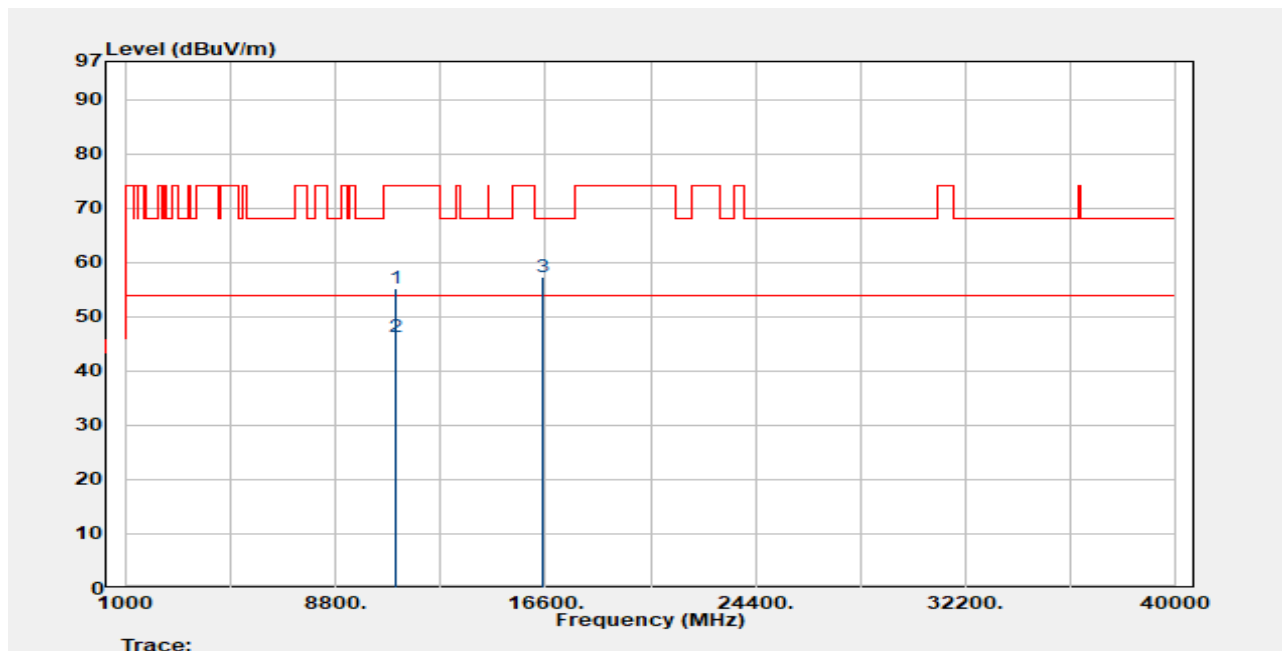
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Report Number :ER-2021-A0048
 Operation Mode :802.11n20
 Test Frequency :5500 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-07
 Temp./Humi. :26.2/60
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11000.000	Peak	32.89	22.24	55.13	74.00	-18.87
11000.000	Average	24.13	22.24	46.37	54.00	-7.63
16500.000	Peak	31.97	25.33	57.30	68.20	-10.90

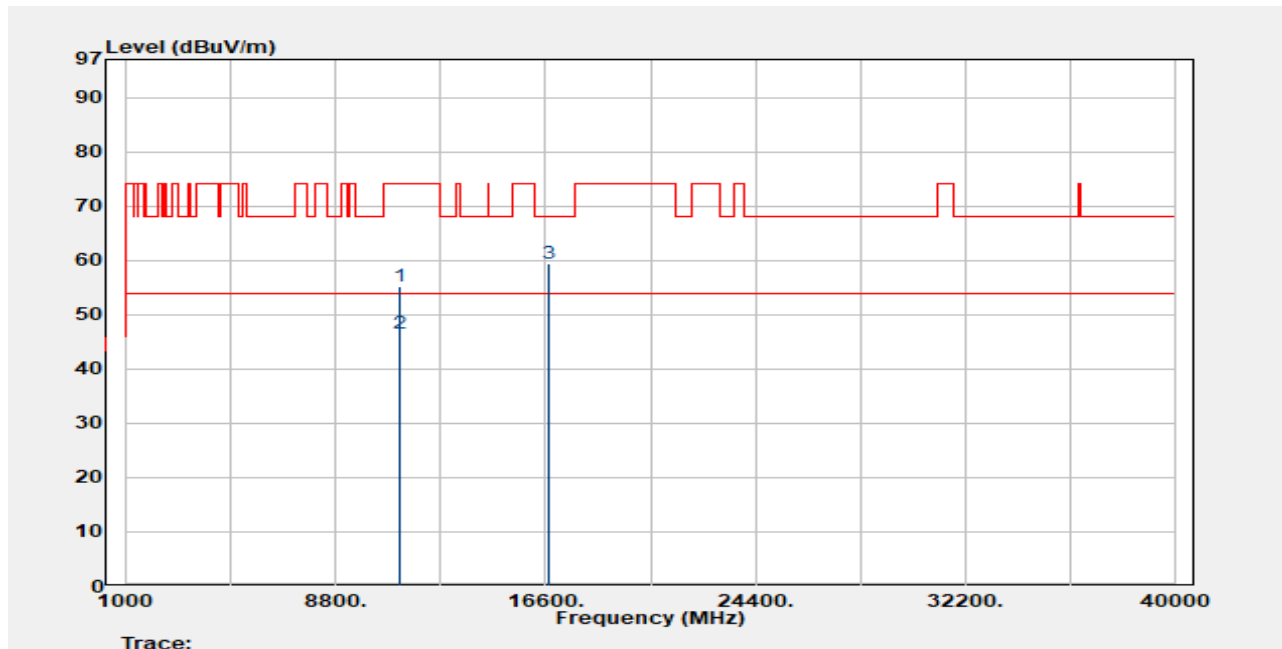
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Report Number :ER-2021-A0048
 Operation Mode :802.11n20
 Test Frequency :5580 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-07
 Temp./Humi. :26.2/60
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11160.000	Peak	33.60	21.59	55.19	74.00	-18.81
11160.000	Average	24.85	21.59	46.44	54.00	-7.56
16740.000	Peak	31.89	27.42	59.31	68.20	-8.89

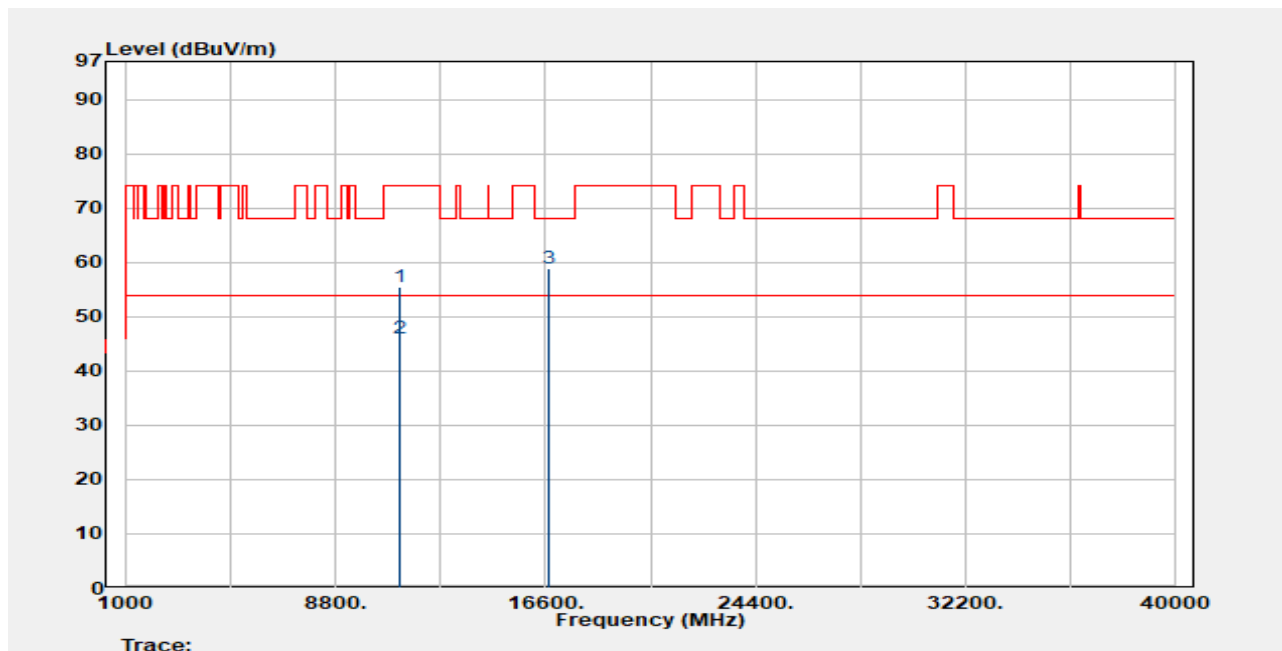
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Report Number :ER-2021-A0048
 Operation Mode :802.11n20
 Test Frequency :5580 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-07
 Temp./Humi. :26.2/60
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11160.000	Peak	33.91	21.48	55.39	74.00	-18.61
11160.000	Average	24.65	21.48	46.13	54.00	-7.87
16740.000	Peak	31.80	27.01	58.81	68.20	-9.39

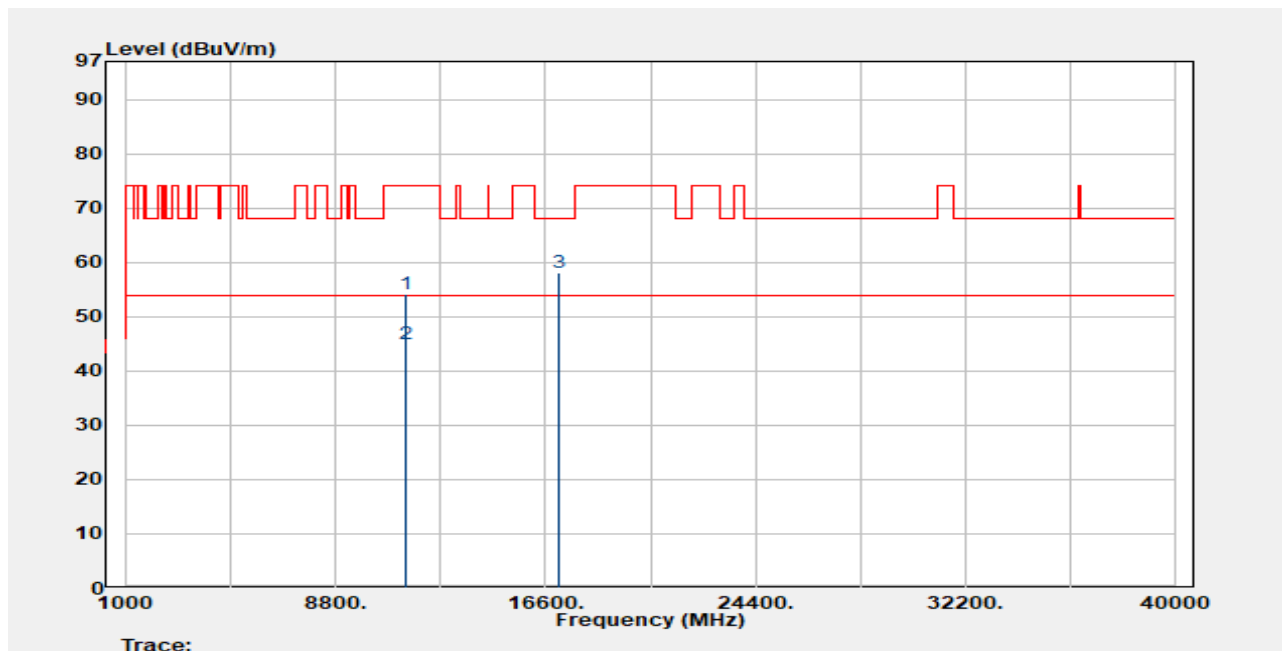
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Report Number :ER-2021-A0048
 Operation Mode :802.11n20
 Test Frequency :5700 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-07
 Temp./Humi. :26.2/60
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Trace:	Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
	11400.000	Peak	33.43	20.80	54.23	74.00	-19.77
	11400.000	Average	24.03	20.80	44.83	54.00	-9.17
	17100.000	Peak	31.21	26.77	57.98	68.20	-10.22

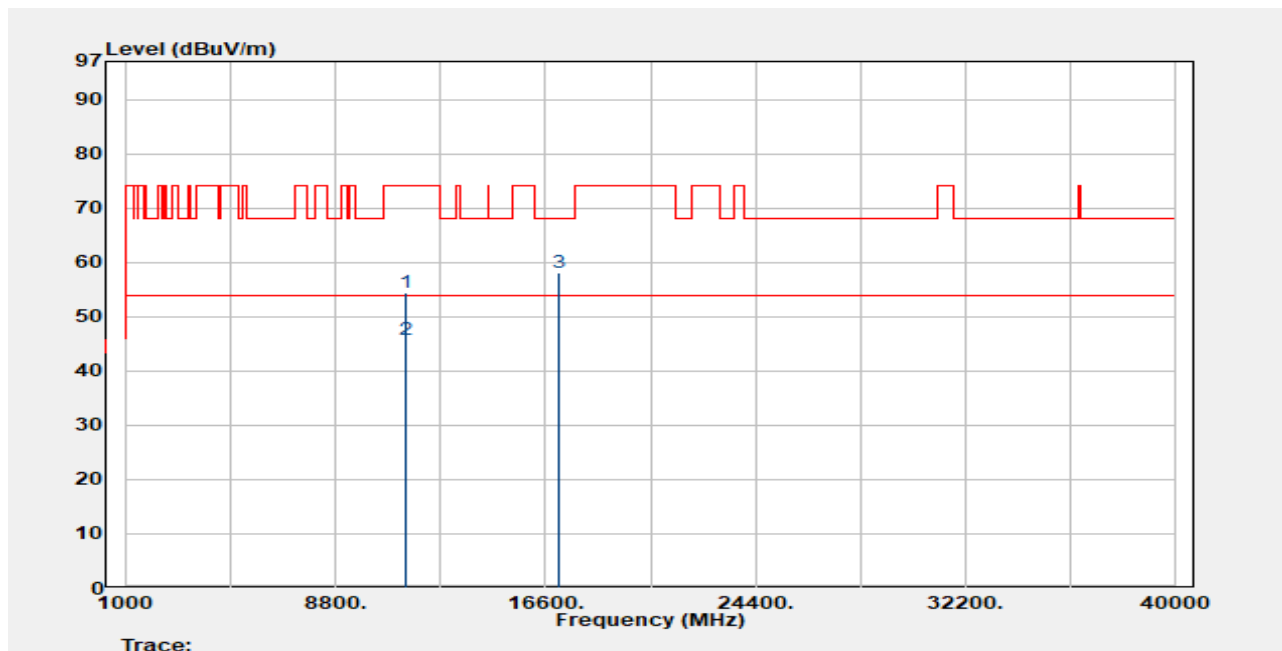
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Report Number :ER-2021-A0048
 Operation Mode :802.11n20
 Test Frequency :5700 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-07
 Temp./Humi. :26.2/60
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11400.000	Peak	32.70	21.83	54.53	74.00	-19.47
11400.000	Average	23.89	21.83	45.72	54.00	-8.28
17100.000	Peak	30.83	27.23	58.06	68.20	-10.14

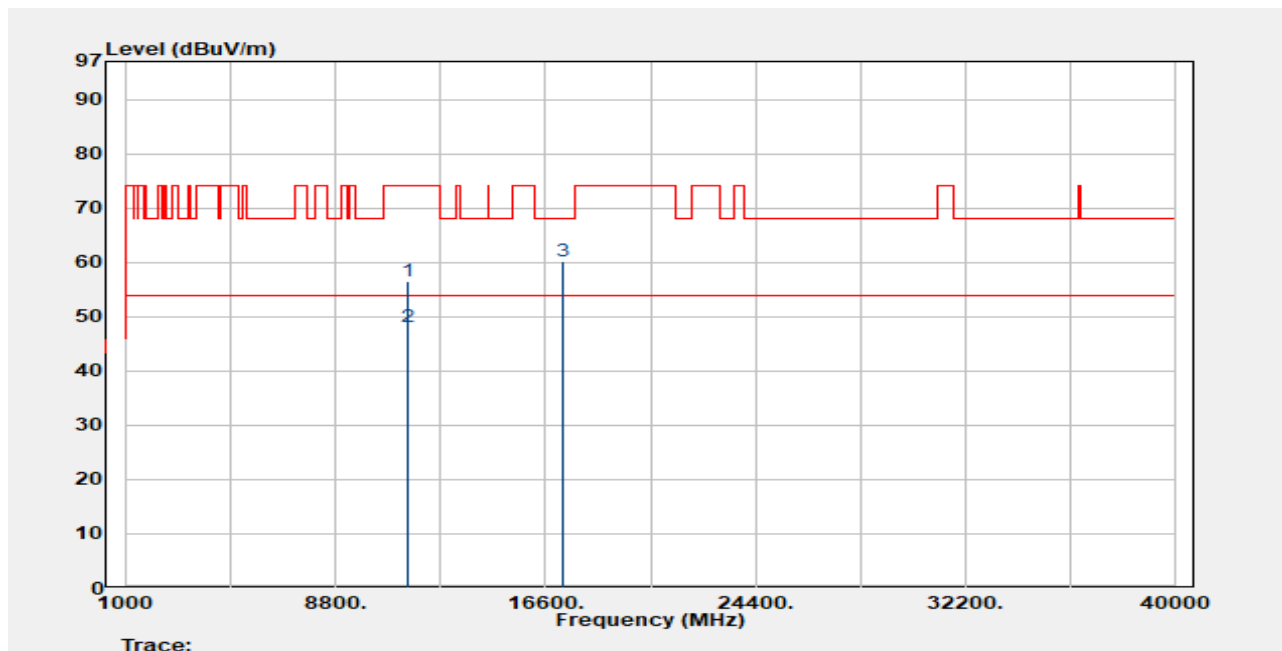
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Report Number :ER-2021-A0048
 Operation Mode :802.11n20
 Test Frequency :5745 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-07
 Temp./Humi. :26.2/60
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11490.000	Peak	32.57	23.98	56.55	74.00	-17.45
11490.000	Average	24.03	23.98	48.01	54.00	-5.99
17235.000	Peak	32.09	28.13	60.22	68.20	-7.98

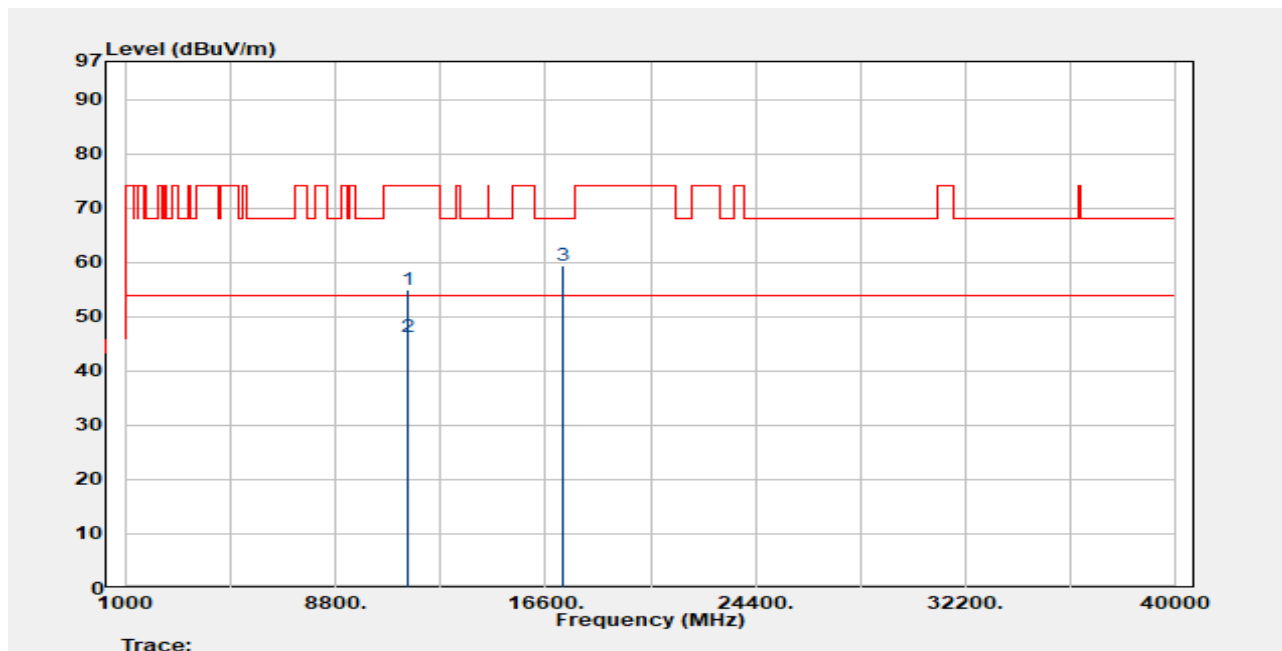
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Report Number :ER-2021-A0048
 Operation Mode :802.11n20
 Test Frequency :5745 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-07
 Temp./Humi. :26.2/60
 Antenna Pol. :Horizontal
 Engineer :Ricky 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
11490.000	Peak	32.73	22.21	54.95	74.00	-19.05
11490.000	Average	23.96	22.21	46.17	54.00	-7.83
17235.000	Peak	31.17	28.20	59.36	68.20	-8.84

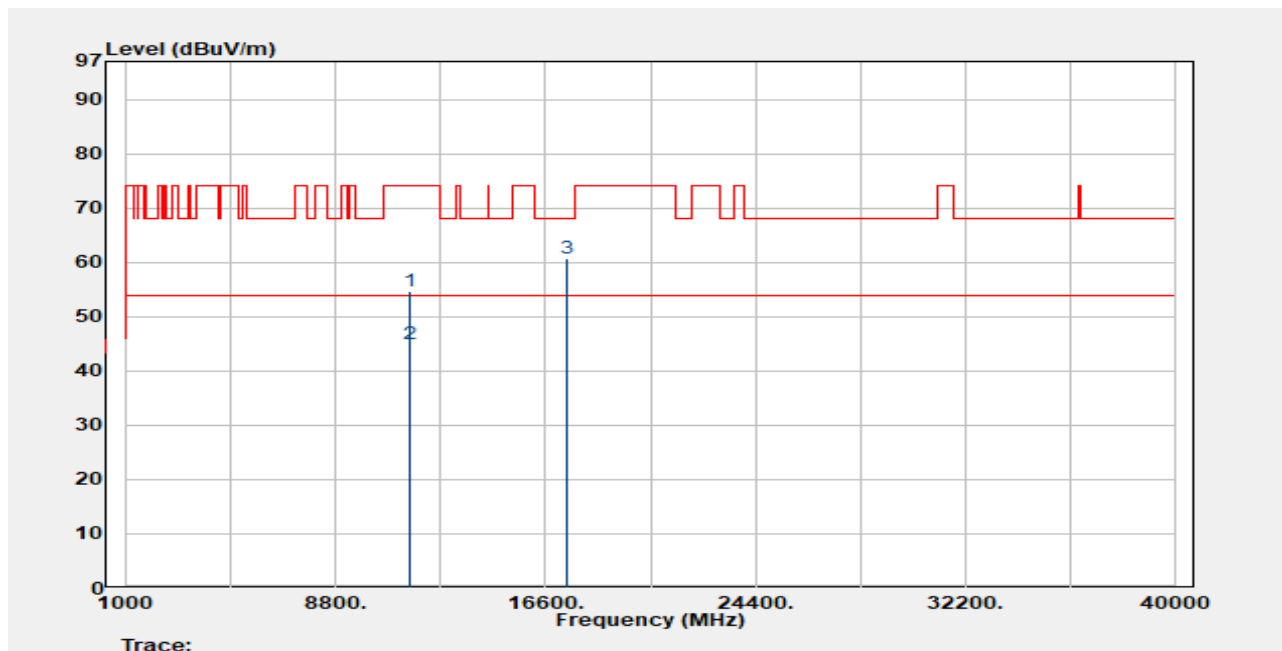
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Report Number :ER-2021-A0048
 Operation Mode :802.11n20
 Test Frequency :5785 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-07
 Temp./Humi. :26.2/60
 Antenna Pol. :Vertical
 Engineer :Ricky 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
11570.000	Peak	33.56	21.18	54.74	74.00	-19.26
11570.000	Average	23.86	21.18	45.04	54.00	-8.96
17355.000	Peak	30.89	29.74	60.63	68.20	-7.57

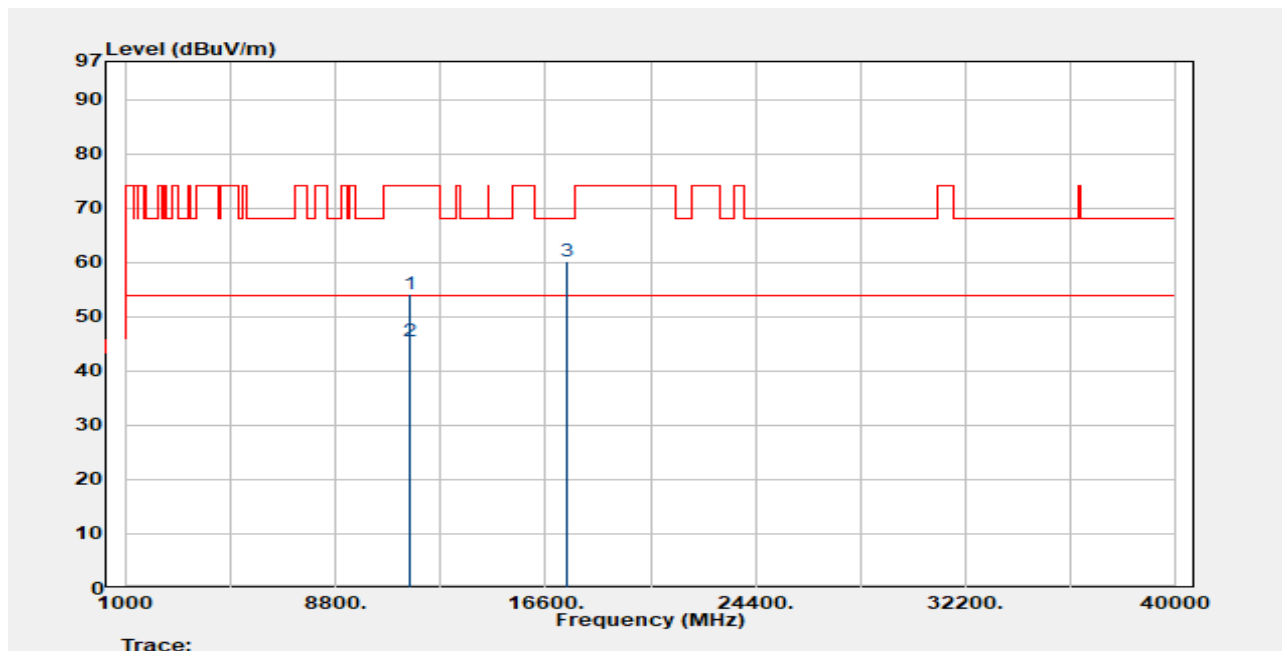
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Report Number :ER-2021-A0048
 Operation Mode :802.11n20
 Test Frequency :5785 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-07
 Temp./Humi. :26.2/60
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11570.000	Peak	32.50	21.72	54.22	74.00	-19.78
11570.000	Average	23.79	21.72	45.51	54.00	-8.49
17355.000	Peak	31.20	28.99	60.19	68.20	-8.01

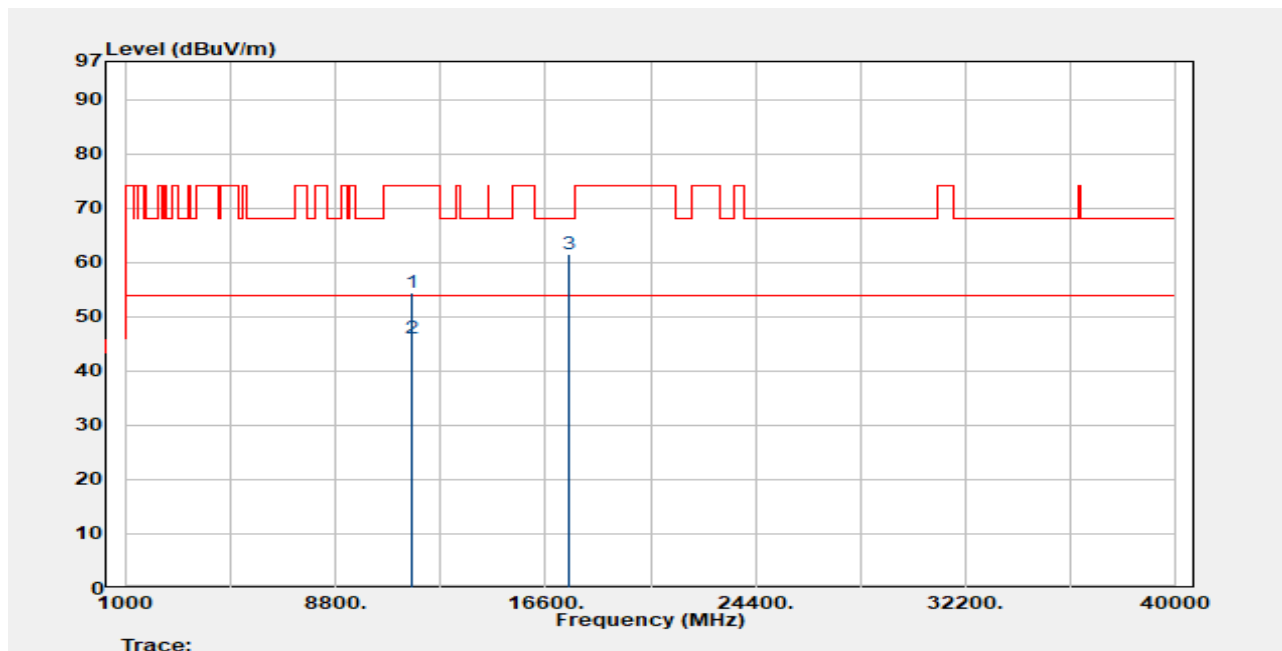
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Report Number :ER-2021-A0048
 Operation Mode :802.11n20
 Test Frequency :5825 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-07
 Temp./Humi. :26.2/60
 Antenna Pol. :Vertical
 Engineer :Ricky 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
11650.000	Peak	32.64	21.71	54.35	74.00	-19.65
11650.000	Average	24.21	21.71	45.92	54.00	-8.08
17475.000	Peak	31.90	29.72	61.61	68.20	-6.59

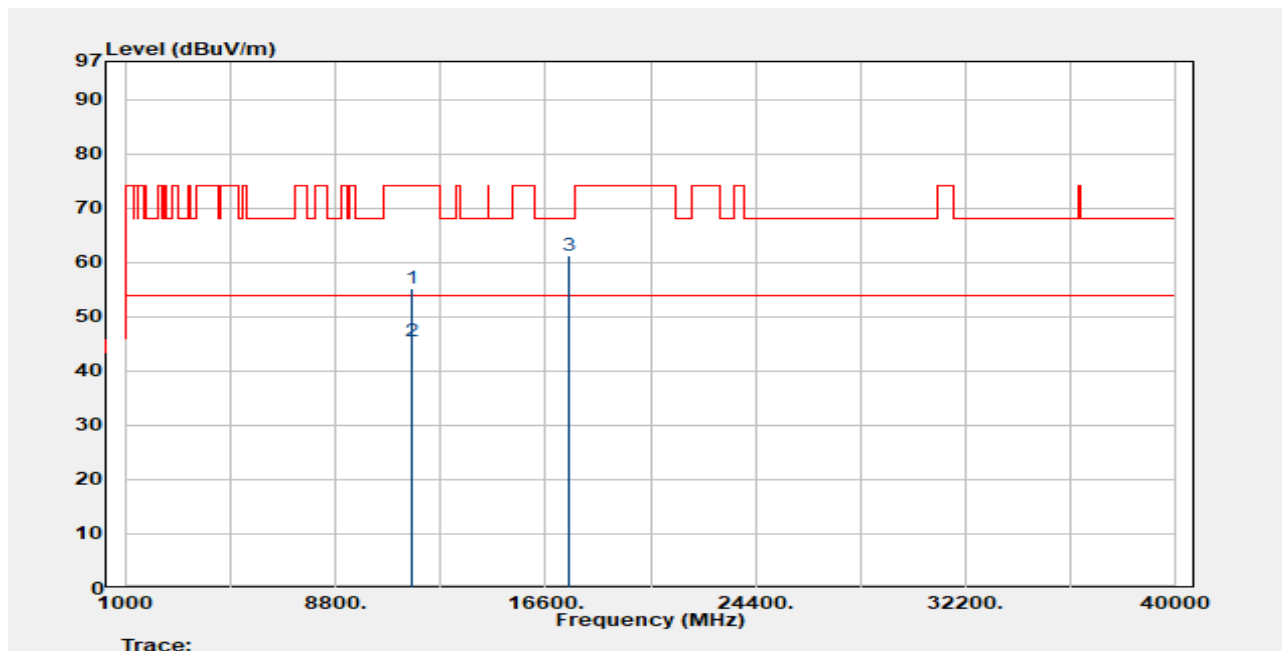
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Report Number :ER-2021-A0048
 Operation Mode :802.11n20
 Test Frequency :5825 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-07
 Temp./Humi. :26.2/60
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Trace:	Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
	11650.000	Peak	33.83	21.47	55.30	74.00	-18.70
	11650.000	Average	23.97	21.47	45.44	54.00	-8.56
	17475.000	Peak	32.05	29.31	61.36	68.20	-6.84

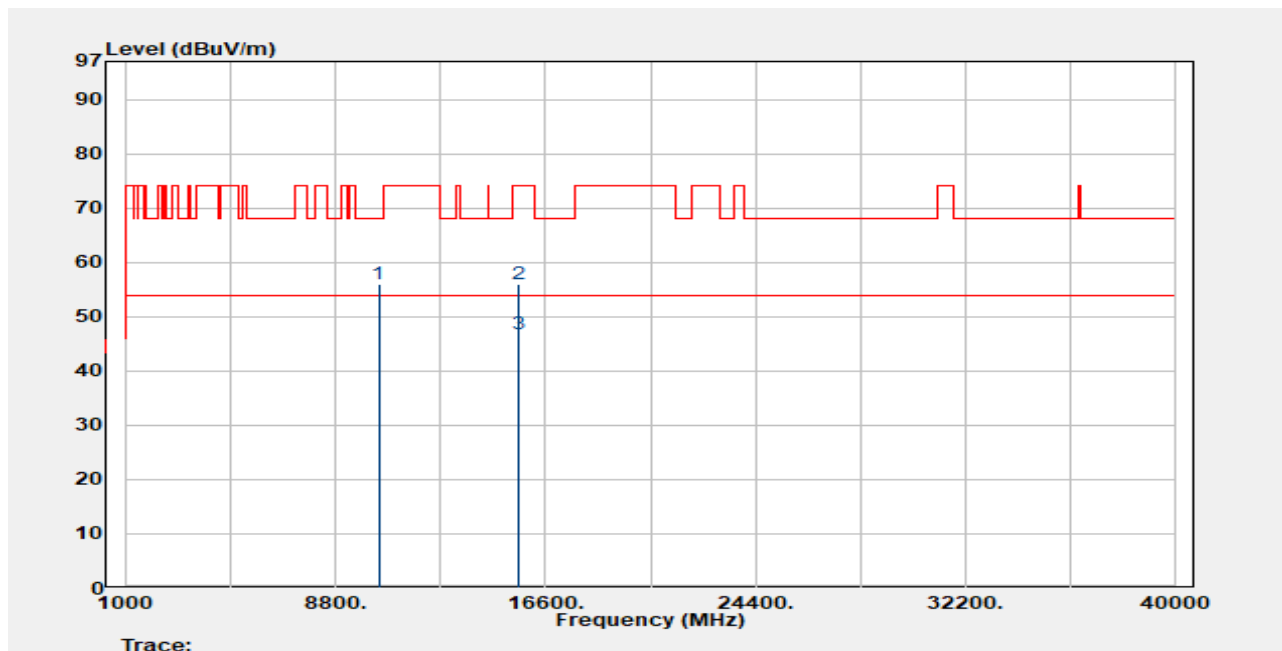
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Report Number :ER-2021-A0048
 Operation Mode :802.11n40
 Test Frequency :5190 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-07
 Temp./Humi. :26.2/60
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10380.000	Peak	35.46	20.41	55.87	68.20	-12.33
15570.000	Peak	32.94	23.17	56.11	74.00	-17.89
15570.000	Average	23.72	23.17	46.89	54.00	-7.11

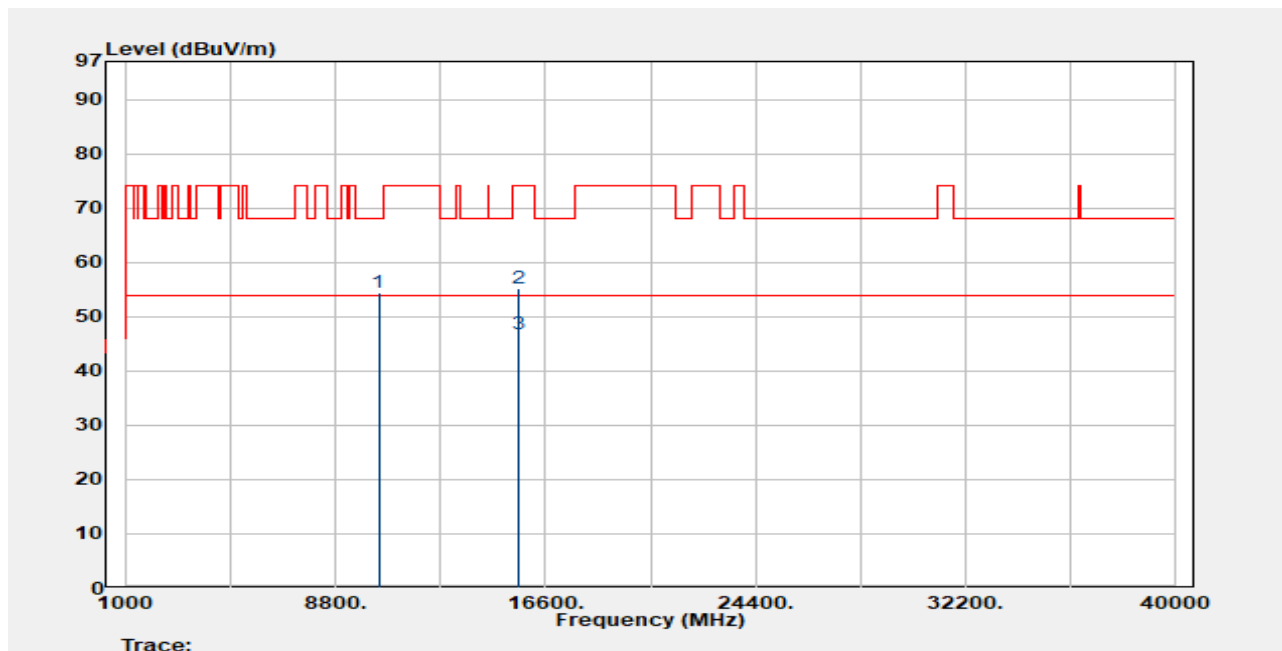
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Report Number :ER-2021-A0048
 Operation Mode :802.11n40
 Test Frequency :5190 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-07
 Temp./Humi. :26.2/60
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10380.000	Peak	34.34	20.10	54.44	68.20	-13.76
15570.000	Peak	32.15	23.07	55.22	74.00	-18.78
15570.000	Average	23.62	23.07	46.69	54.00	-7.31

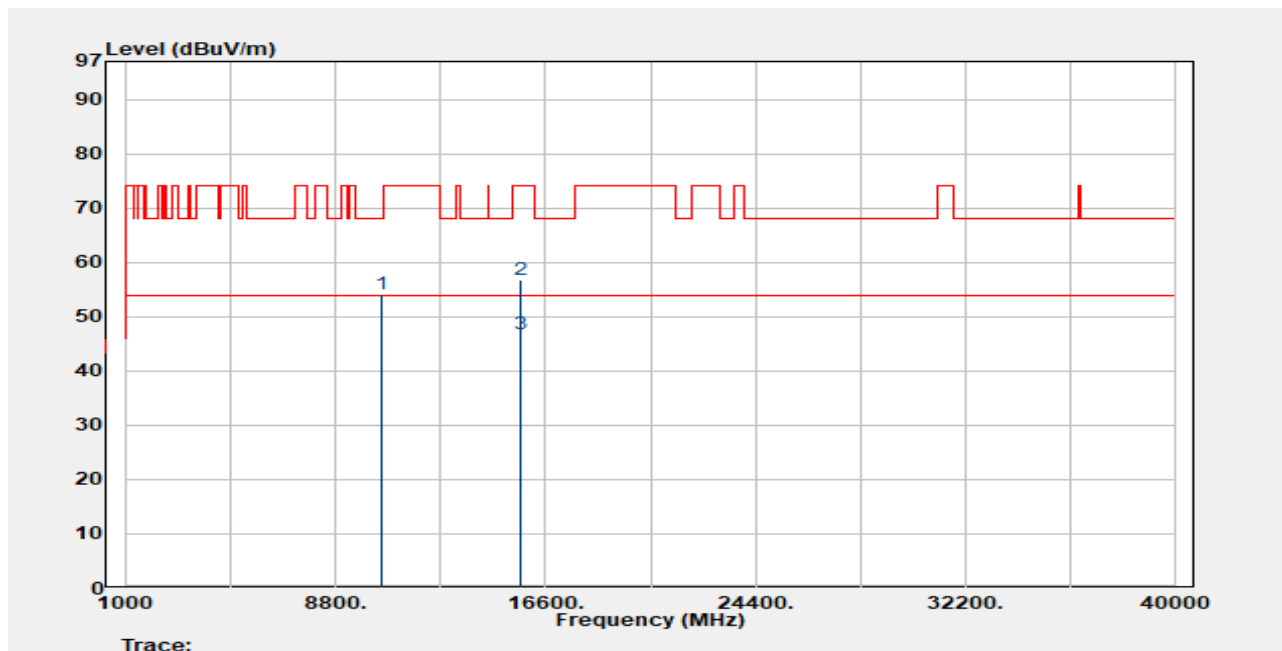
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Report Number :ER-2021-A0048
 Operation Mode :802.11n40
 Test Frequency :5230 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-07
 Temp./Humi. :26.2/60
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10460.000	Peak	33.45	20.63	54.08	68.20	-14.12
15690.000	Peak	33.82	22.90	56.72	74.00	-17.28
15690.000	Average	23.86	22.90	46.76	54.00	-7.24

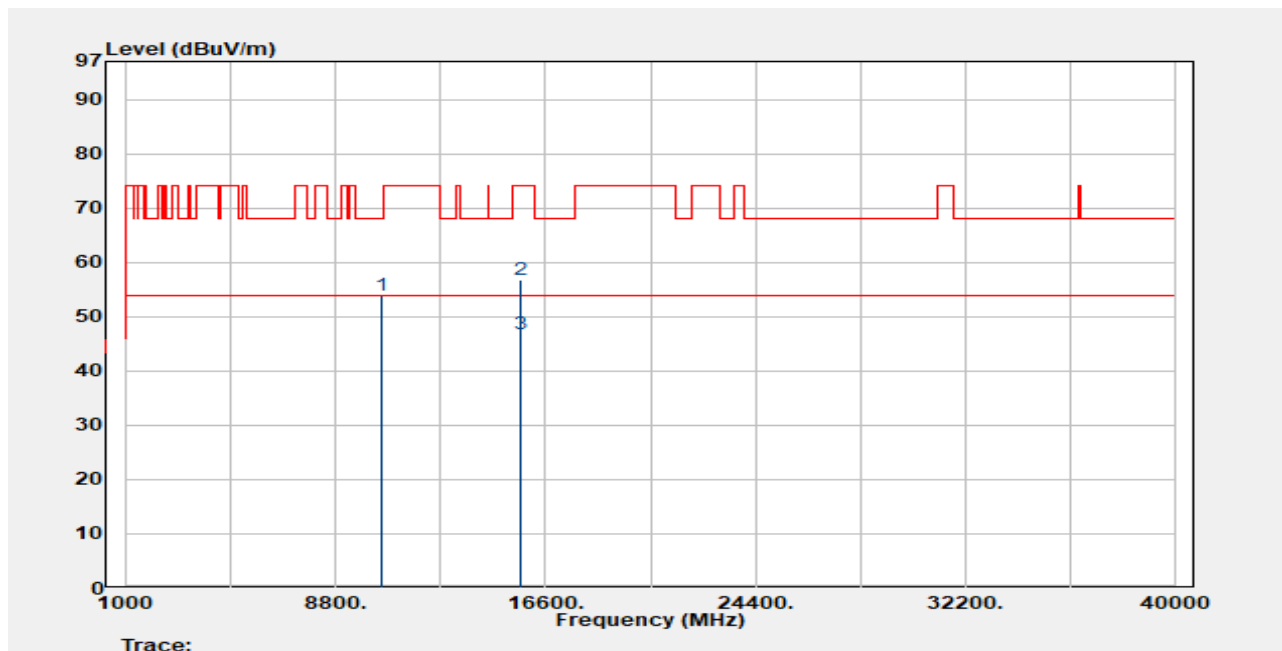
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Report Number :ER-2021-A0048
 Operation Mode :802.11n40
 Test Frequency :5230 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-07
 Temp./Humi. :26.2/60
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10460.000	Peak	33.23	20.59	53.82	68.20	-14.38
15690.000	Peak	33.82	22.98	56.80	74.00	-17.20
15690.000	Average	23.79	22.98	46.77	54.00	-7.23

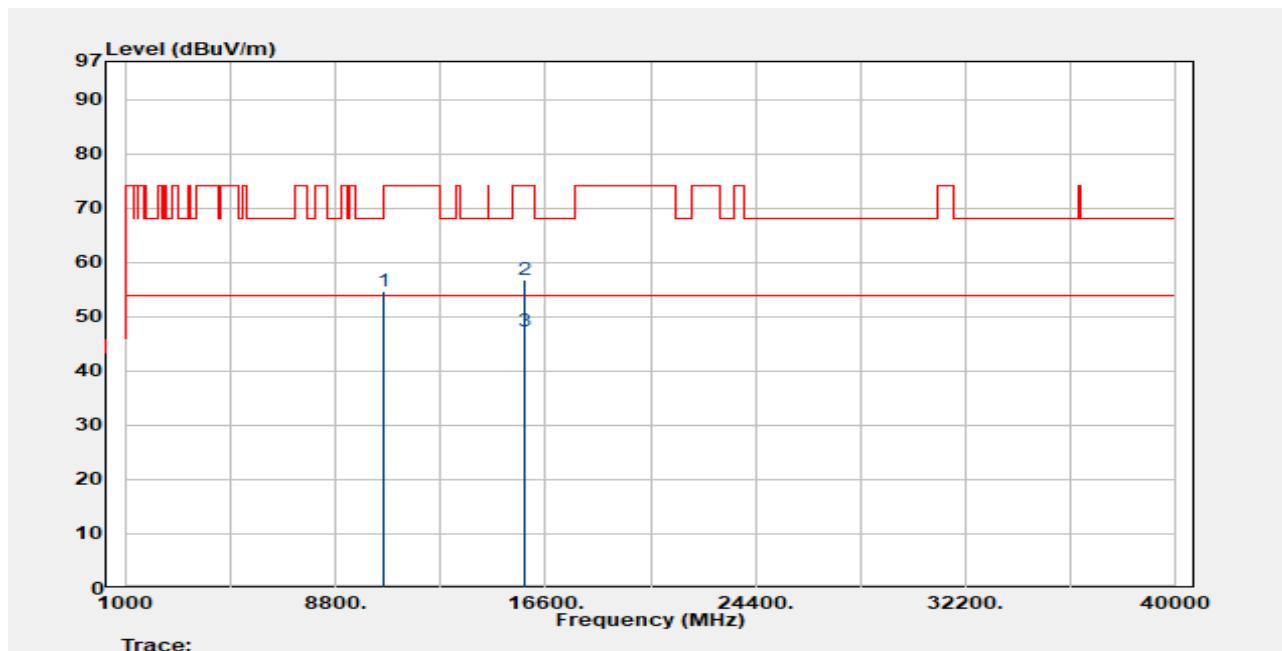
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Report Number :ER-2021-A0048
 Operation Mode :802.11n40
 Test Frequency :5270 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-07
 Temp./Humi. :26.2/60
 Antenna Pol. :Vertical
 Engineer :Ricky 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
10540.000	Peak	33.53	21.21	54.74	68.20	-13.46
15810.000	Peak	33.21	23.48	56.69	74.00	-17.31
15810.000	Average	23.77	23.48	47.25	54.00	-6.75

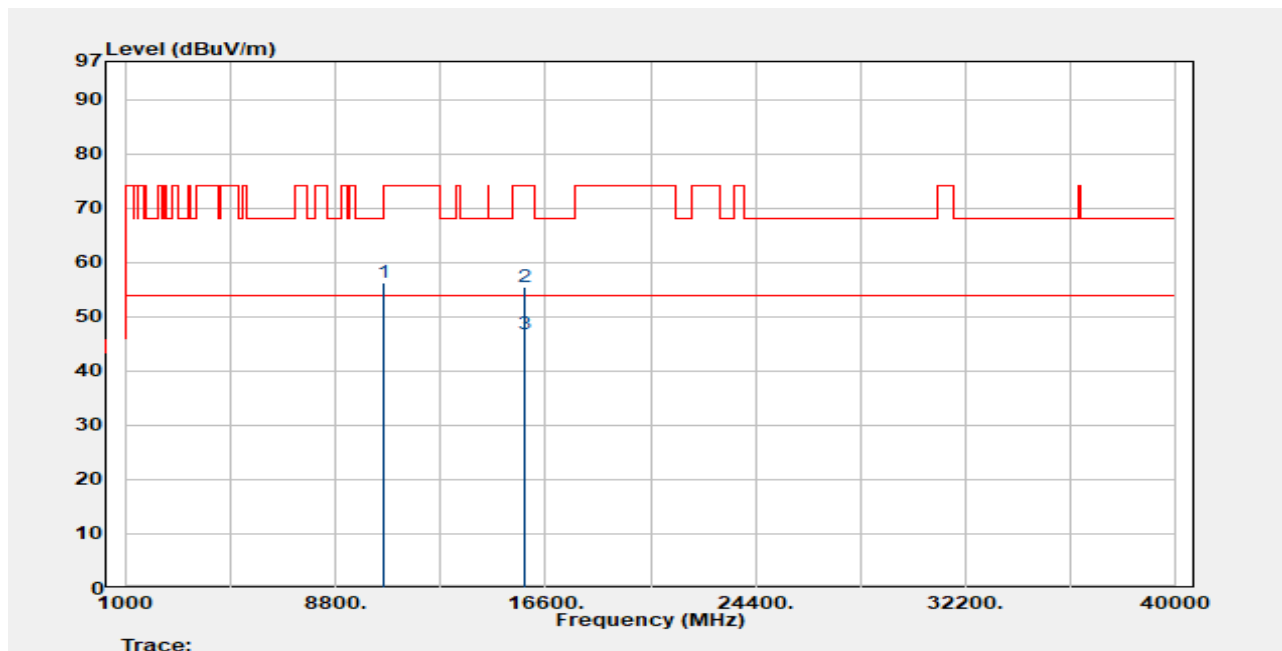
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Report Number :ER-2021-A0048
 Operation Mode :802.11n40
 Test Frequency :5270 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-07
 Temp./Humi. :26.2/60
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10540.000	Peak	35.38	20.81	56.19	68.20	-12.01
15810.000	Peak	32.33	23.10	55.43	74.00	-18.57
15810.000	Average	23.63	23.10	46.73	54.00	-7.27

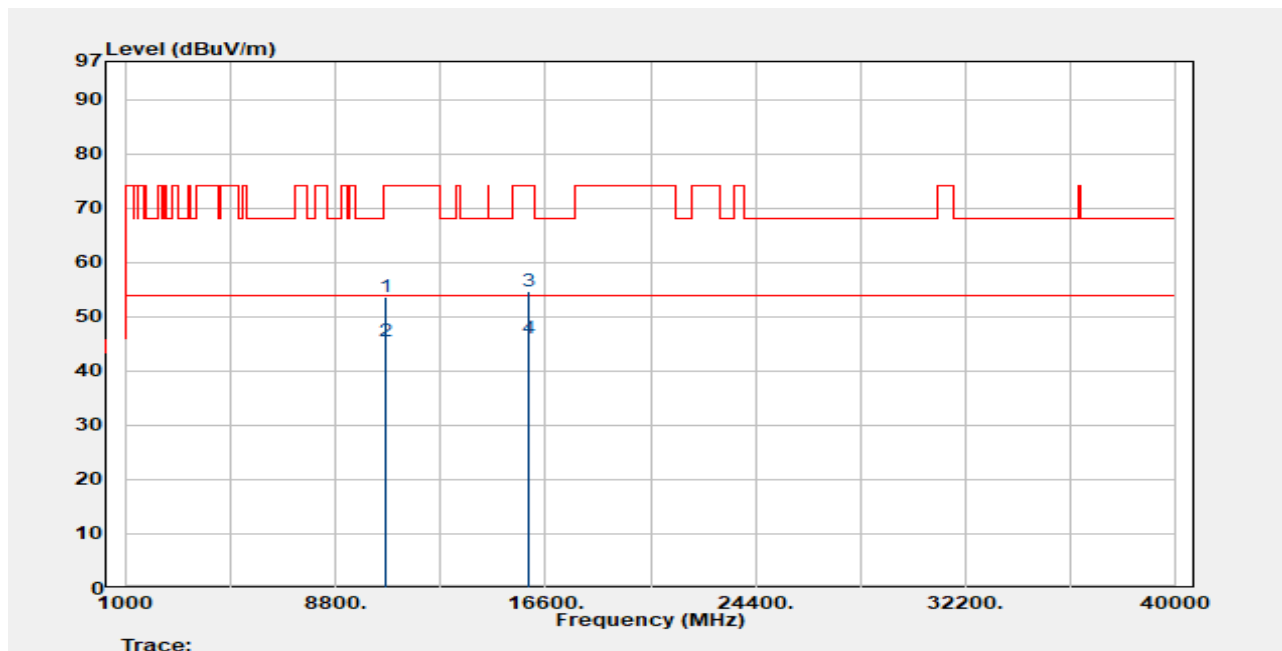
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Report Number :ER-2021-A0048
 Operation Mode :802.11n40
 Test Frequency :5310 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-07
 Temp./Humi. :26.2/60
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10620.000	Peak	32.73	20.77	53.51	74.00	-20.49
10620.000	Average	24.62	20.77	45.39	54.00	-8.61
15930.000	Peak	32.40	22.32	54.72	74.00	-19.28
15930.000	Average	23.59	22.32	45.91	54.00	-8.09

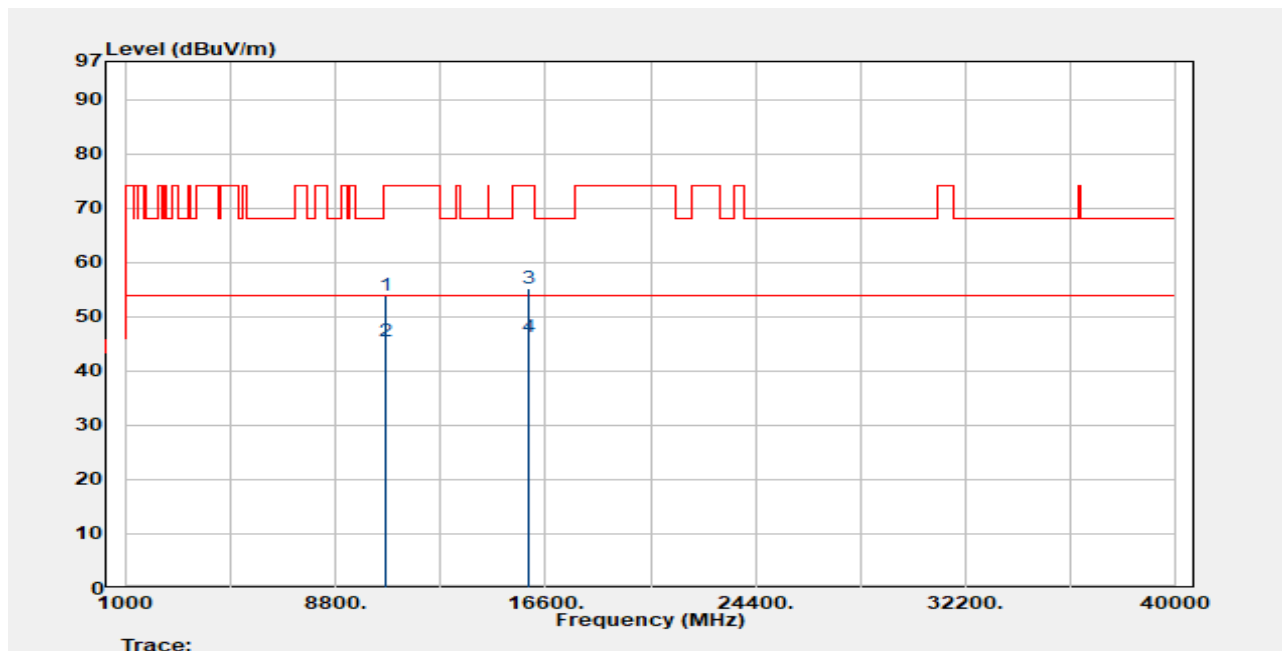
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Report Number :ER-2021-A0048
 Operation Mode :802.11n40
 Test Frequency :5310 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-07
 Temp./Humi. :26.2/60
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10620.000	Peak	33.14	20.70	53.84	74.00	-20.16
10620.000	Average	24.66	20.70	45.36	54.00	-8.64
15930.000	Peak	32.37	22.81	55.18	74.00	-18.82
15930.000	Average	23.46	22.81	46.27	54.00	-7.73

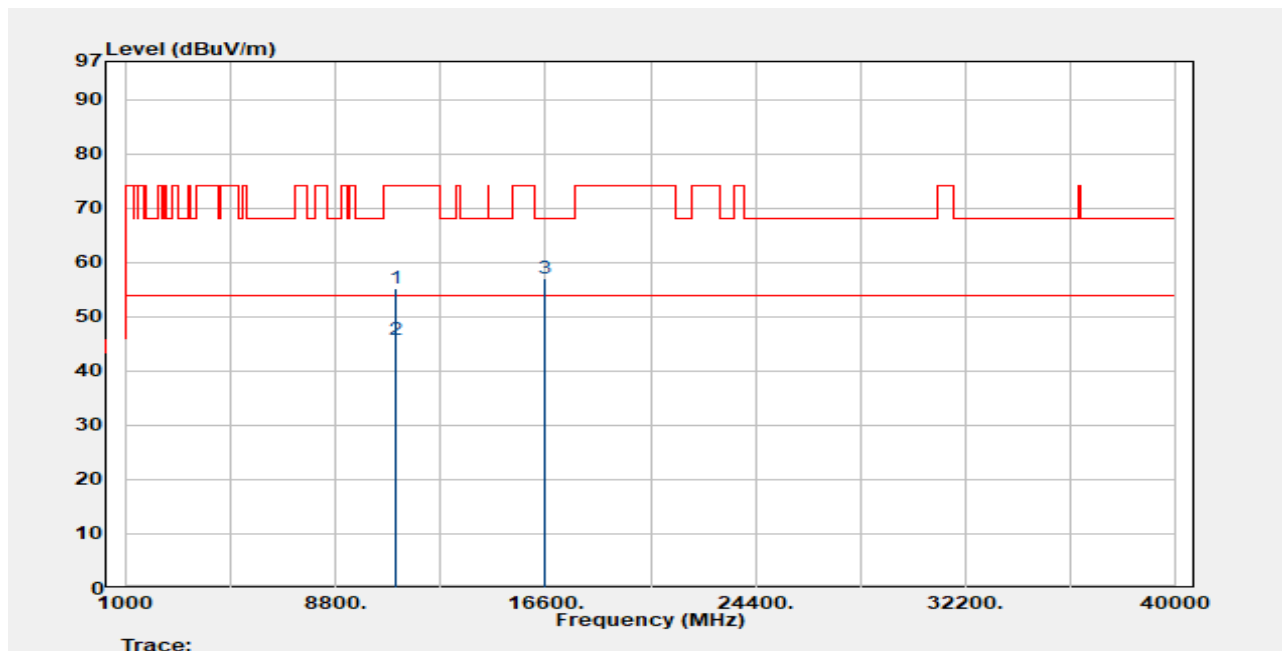
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Report Number :ER-2021-A0048
 Operation Mode :802.11n40
 Test Frequency :5510 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-07
 Temp./Humi. :26.2/60
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11020.000	Peak	33.89	21.44	55.33	74.00	-18.67
11020.000	Average	24.28	21.44	45.72	54.00	-8.28
16530.000	Peak	31.76	25.15	56.92	68.20	-11.28

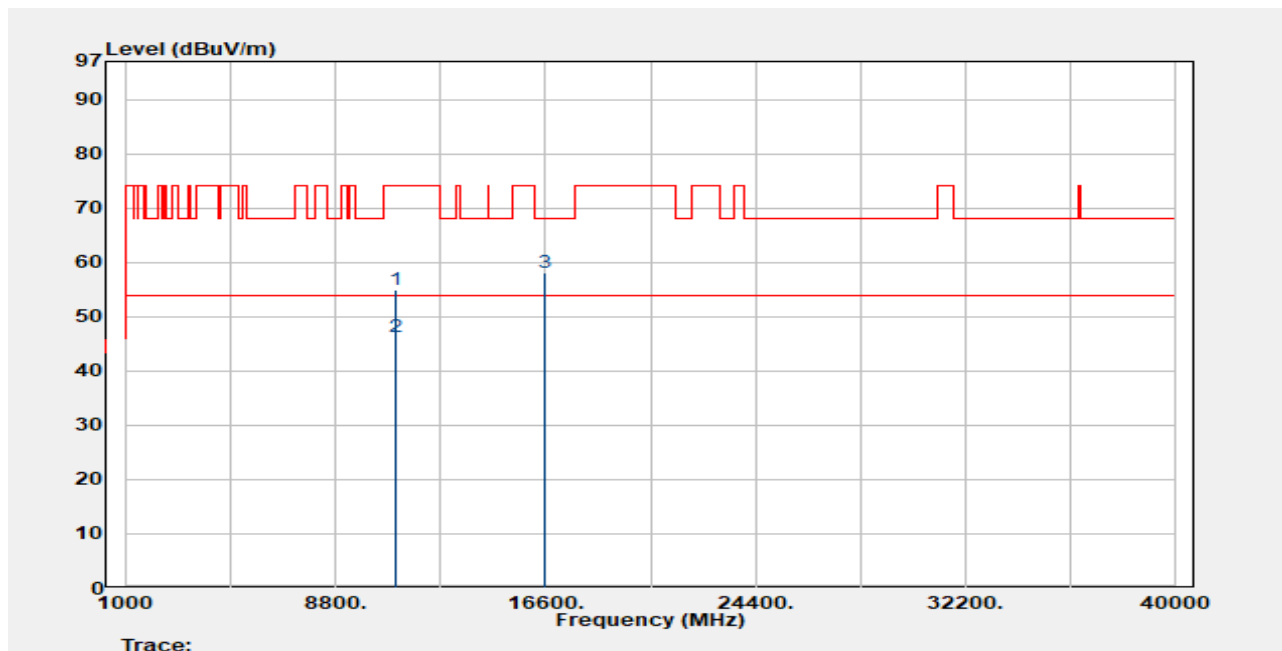
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Report Number :ER-2021-A0048
 Operation Mode :802.11n40
 Test Frequency :5510 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-07
 Temp./Humi. :26.2/60
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11020.000	Peak	32.85	22.05	54.90	74.00	-19.10
11020.000	Average	24.19	22.05	46.24	54.00	-7.76
16530.000	Peak	32.77	25.43	58.21	68.20	-9.99

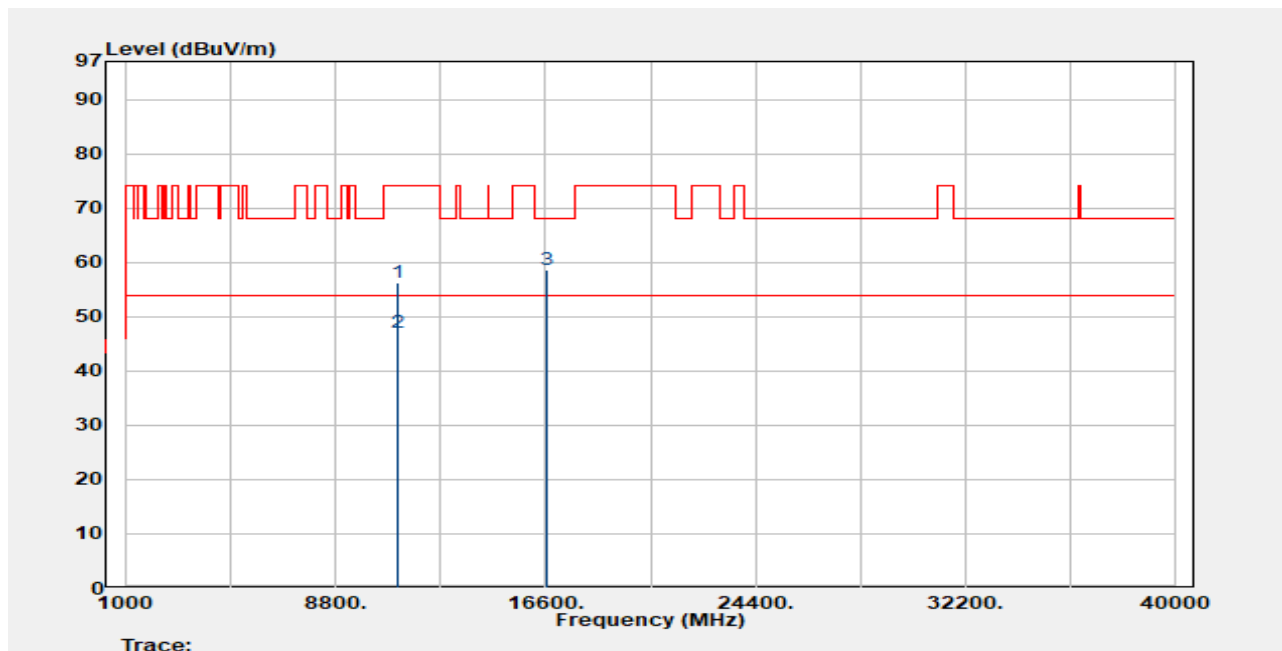
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Report Number :ER-2021-A0048
 Operation Mode :802.11n40
 Test Frequency :5550 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-07
 Temp./Humi. :26.2/60
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Trace:	Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
	11100.000	Peak	33.85	22.37	56.21	74.00	-17.79
	11100.000	Average	24.63	22.37	47.00	54.00	-7.00
	16650.000	Peak	32.78	25.82	58.60	68.20	-9.60

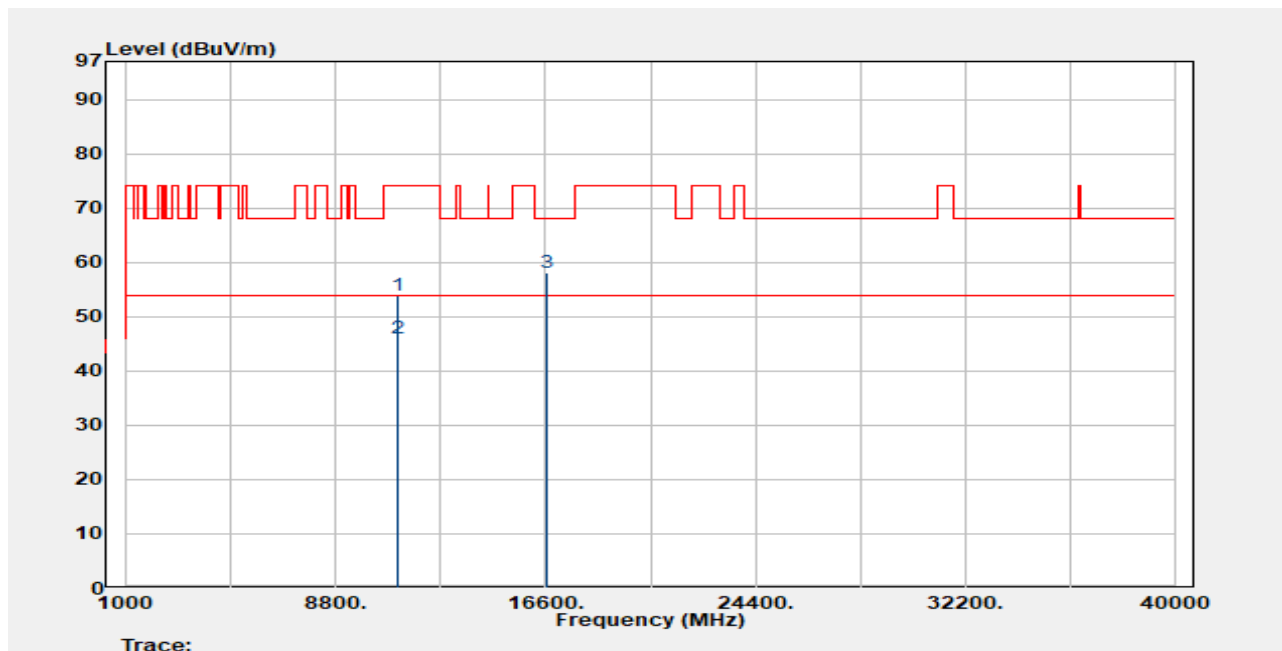
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Report Number :ER-2021-A0048
 Operation Mode :802.11n40
 Test Frequency :5550 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-07
 Temp./Humi. :26.2/60
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11100.000	Peak	32.61	21.31	53.92	74.00	-20.08
11100.000	Average	24.73	21.31	46.04	54.00	-7.96
16650.000	Peak	31.95	26.05	58.00	68.20	-10.20

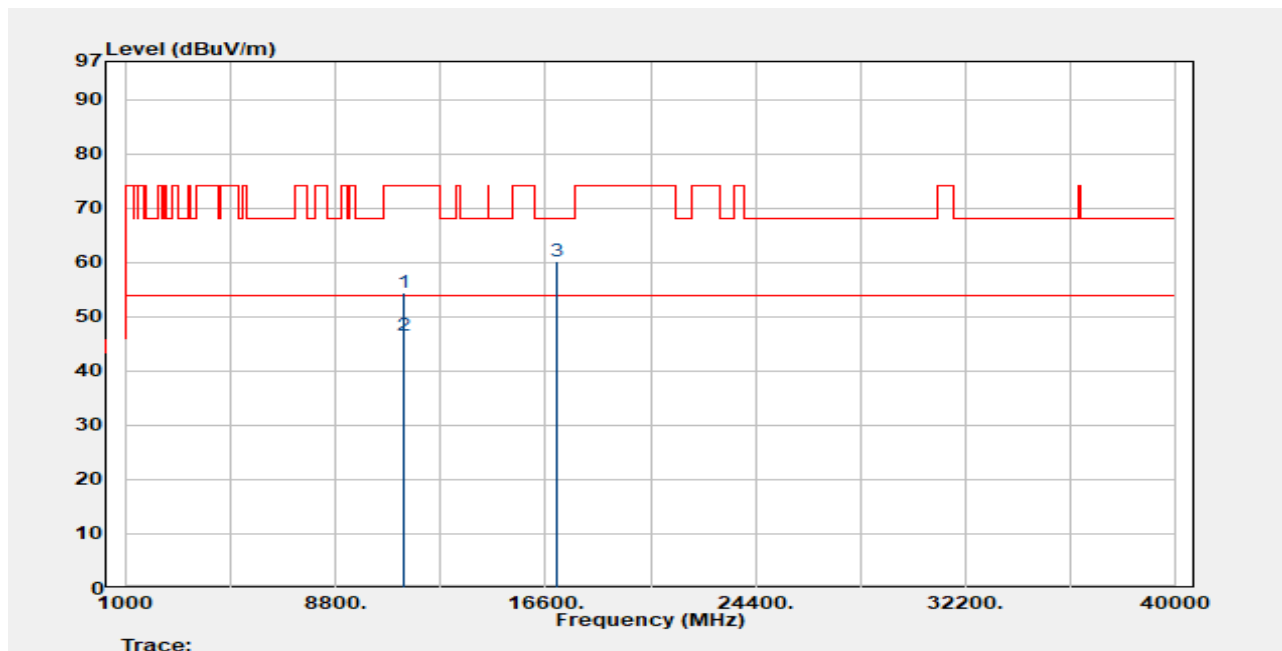
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Report Number :ER-2021-A0048
 Operation Mode :802.11n40
 Test Frequency :5670 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-07
 Temp./Humi. :26.2/60
 Antenna Pol. :Vertical
 Engineer :Ricky 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
11340.000	Peak	32.52	21.96	54.48	74.00	-19.52
11340.000	Average	24.49	21.96	46.45	54.00	-7.55
17010.000	Peak	31.96	28.28	60.24	68.20	-7.96

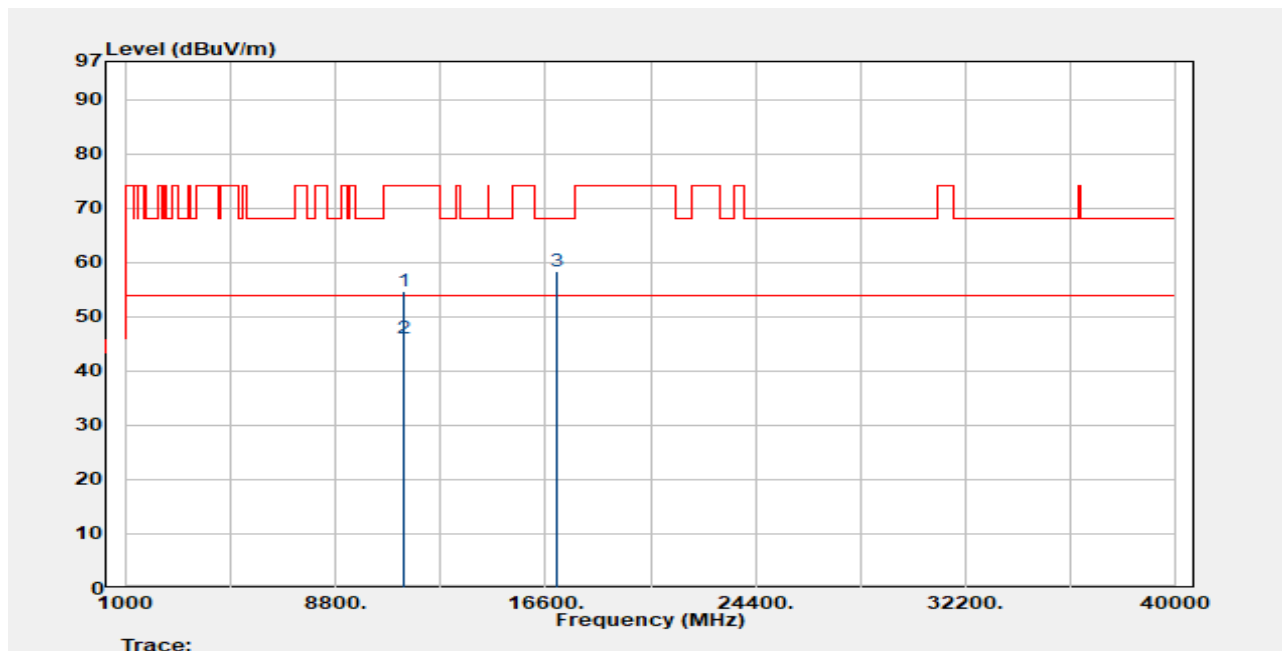
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Report Number :ER-2021-A0048
 Operation Mode :802.11n40
 Test Frequency :5670 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-07
 Temp./Humi. :26.2/60
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11340.000	Peak	33.12	21.62	54.74	74.00	-19.26
11340.000	Average	24.42	21.62	46.04	54.00	-7.96
17010.000	Peak	30.76	27.50	58.26	68.20	-9.94

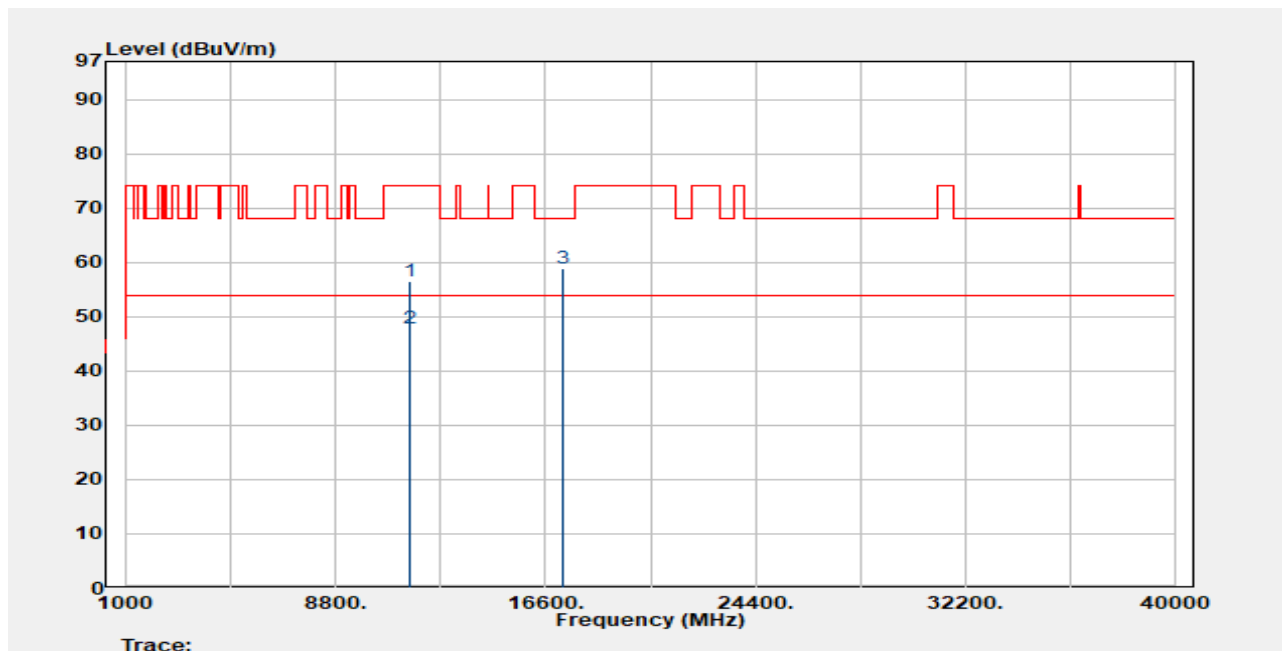
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Report Number :ER-2021-A0048
 Operation Mode :802.11n40
 Test Frequency :5755 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-07
 Temp./Humi. :26.2/60
 Antenna Pol. :Vertical
 Engineer :Ricky 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
11510.000	Peak	32.75	23.86	56.60	74.00	-17.40
11510.000	Average	23.92	23.86	47.78	54.00	-6.22
17265.000	Peak	30.92	28.08	59.01	68.20	-9.19

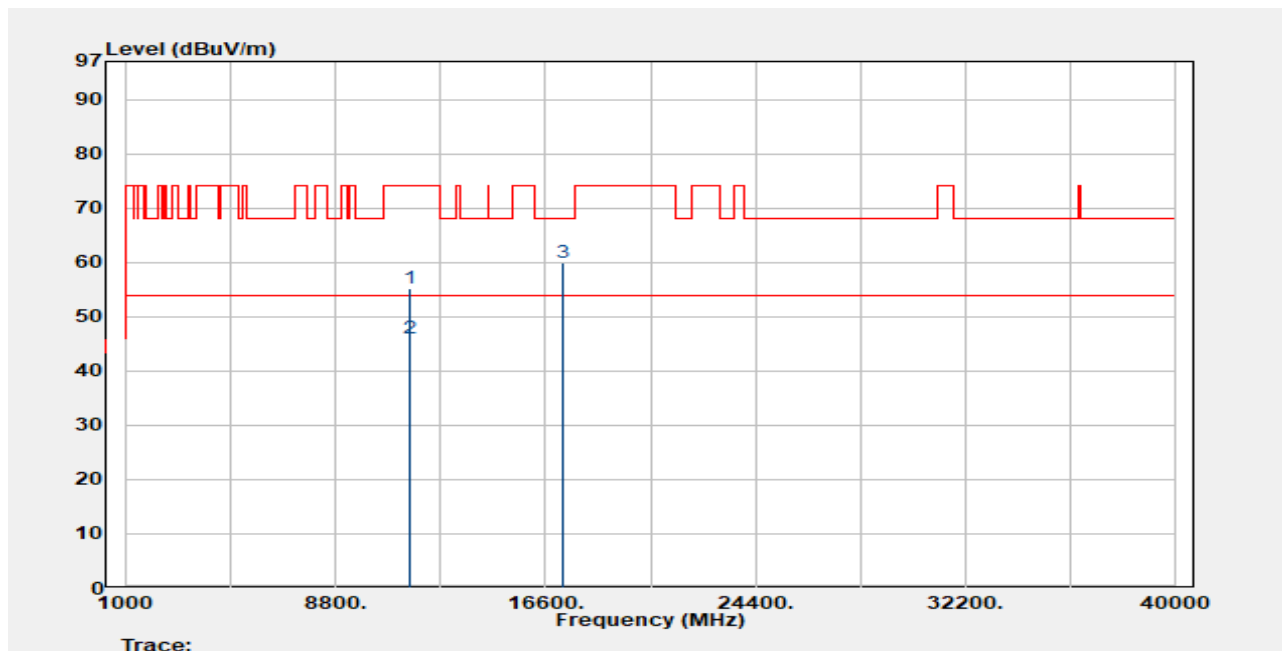
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Report Number :ER-2021-A0048
 Operation Mode :802.11n40
 Test Frequency :5755 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-07
 Temp./Humi. :26.2/60
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Trace:	Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
	11510.000	Peak	32.97	22.18	55.15	74.00	-18.85
	11510.000	Average	23.83	22.18	46.01	54.00	-7.99
	17265.000	Peak	31.71	28.20	59.90	68.20	-8.30

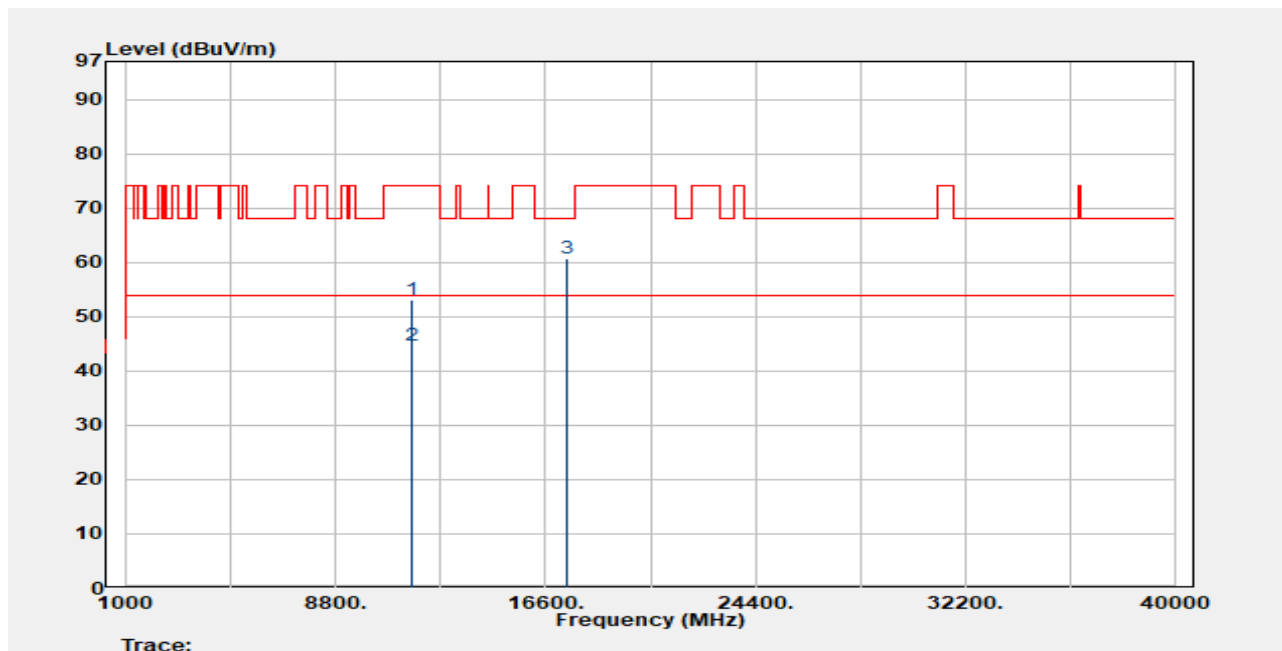
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Report Number :ER-2021-A0048
 Operation Mode :802.11n40
 Test Frequency :5795 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-07
 Temp./Humi. :26.2/60
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11590.000	Peak	32.56	20.44	53.01	74.00	-20.99
11590.000	Average	24.36	20.44	44.80	54.00	-9.20
17385.000	Peak	31.01	29.63	60.64	68.20	-7.56

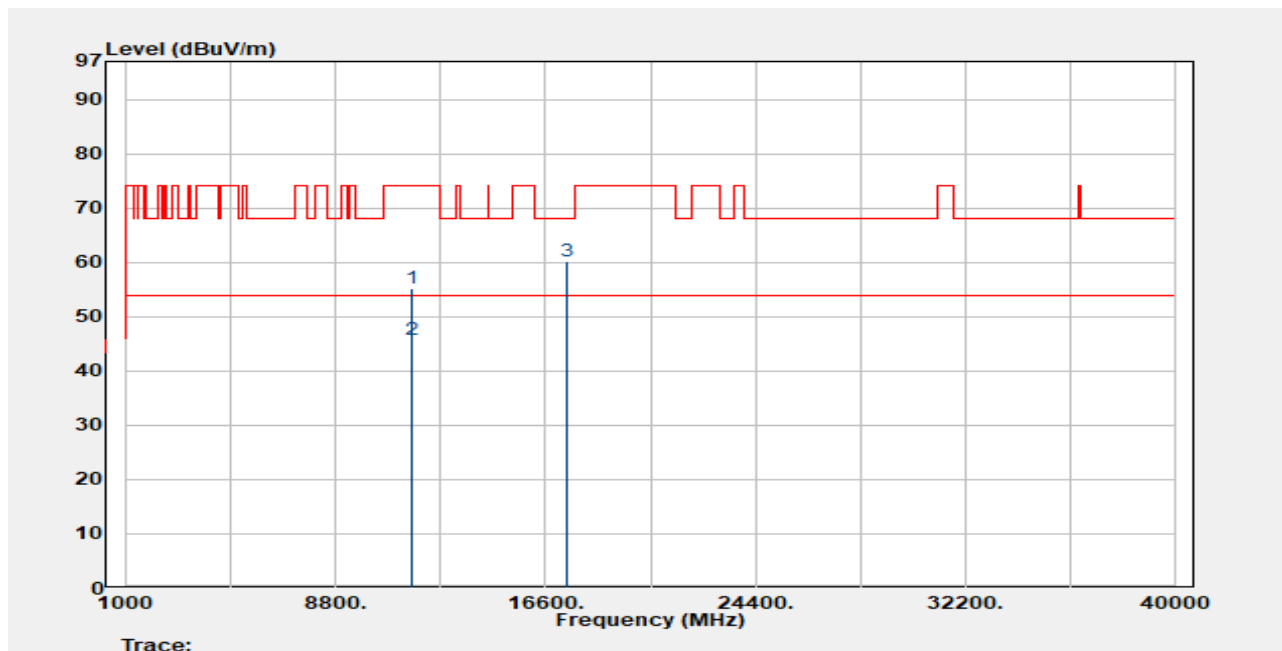
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Report Number :ER-2021-A0048
 Operation Mode :802.11n40
 Test Frequency :5795 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-07
 Temp./Humi. :26.2/60
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11590.000	Peak	33.53	21.57	55.10	74.00	-18.90
11590.000	Average	24.26	21.57	45.83	54.00	-8.17
17385.000	Peak	30.74	29.42	60.16	68.20	-8.04

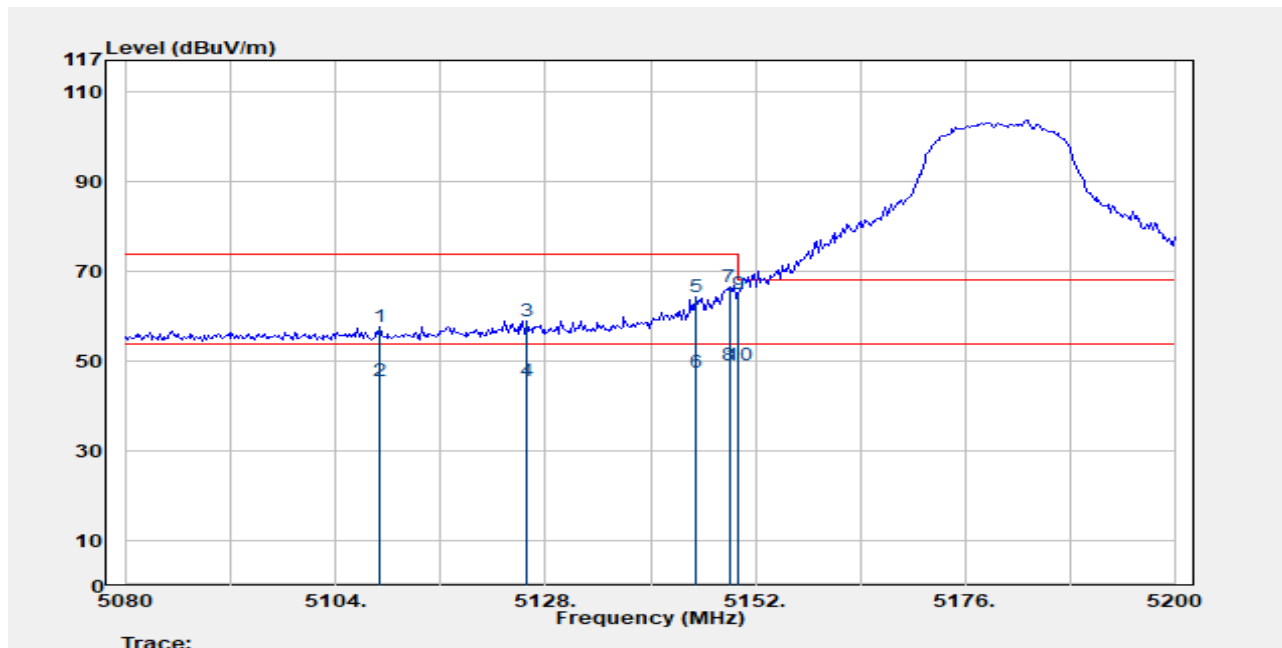
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7.7.3 Band edge falling to restricted band

Report Number	:ER-2021-A0048	Test Site	:SAC 3
Operation Mode	:802.11a	Test Date	:2021-10-09
Test Frequency	:5180 MHz	Temp./Humi.	:25.9/65
Test Mode	:Bandedge CH Low	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5109.000	Peak	48.78	8.81	57.59	74.00	-16.41
5109.000	Average	36.76	8.81	45.57	54.00	-8.43
5125.800	Peak	50.25	8.76	59.00	74.00	-15.00
5125.800	Average	36.99	8.76	45.75	54.00	-8.25
5145.200	Peak	55.57	8.70	64.27	74.00	-9.73
5145.200	Average	38.86	8.70	47.56	54.00	-6.44
5149.000	Peak	58.04	8.69	66.73	74.00	-7.27
5149.000	Average	40.39	8.69	49.08	54.00	-4.92
5150.000	Peak	56.17	8.68	64.86	74.00	-9.14
5150.000	Average	40.56	8.68	49.24	54.00	-4.76

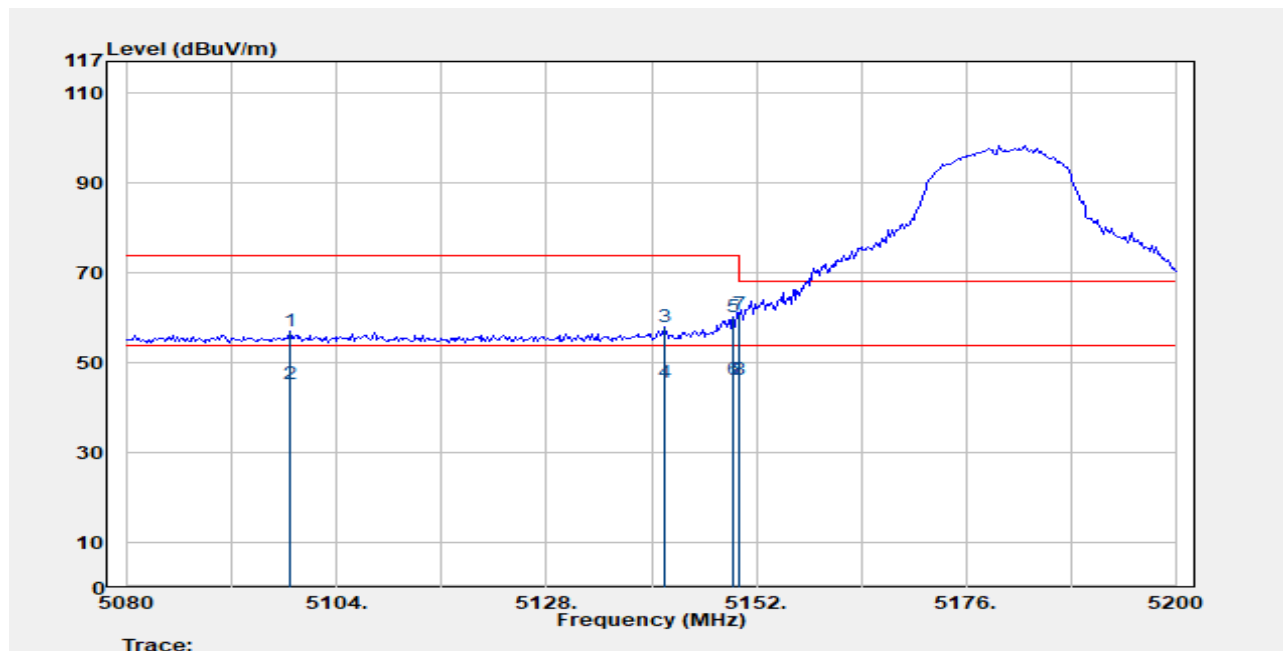
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Report Number :ER-2021-A0048
 Operation Mode :802.11a
 Test Frequency :5180 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-09
 Temp./Humi. :25.9/65
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq. MHz	Detector Mode	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5098.600	Peak	48.30	8.82	57.12	74.00	-16.88
5098.600	Average	36.59	8.82	45.41	54.00	-8.59
5141.400	Peak	49.27	8.71	57.98	74.00	-16.02
5141.400	Average	36.86	8.71	45.57	54.00	-8.43
5149.400	Peak	51.41	8.69	60.09	74.00	-13.91
5149.400	Average	37.49	8.69	46.18	54.00	-7.82
5150.000	Peak	52.25	8.68	60.93	74.00	-13.07
5150.000	Average	37.63	8.68	46.31	54.00	-7.69

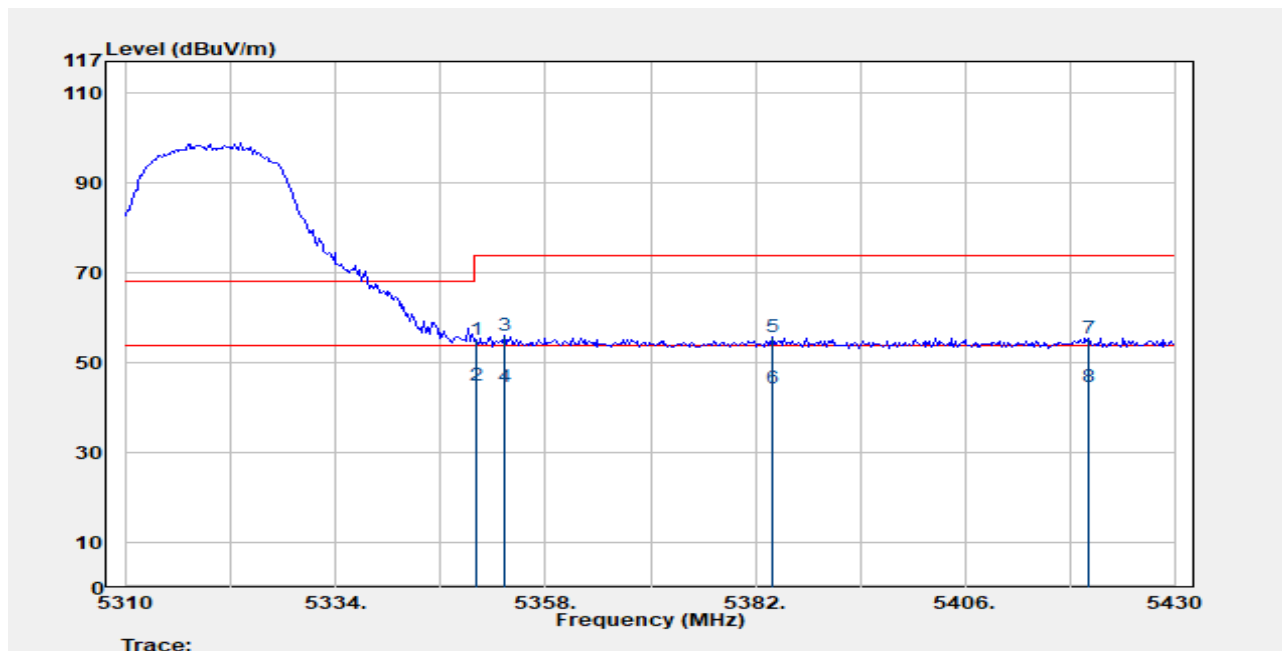
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Report Number :ER-2021-A0048
 Operation Mode :802.11a
 Test Frequency :5320 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-09
 Temp./Humi. :25.9/65
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5350.000	Peak	47.06	8.12	55.19	74.00	-18.81
5350.000	Average	36.81	8.12	44.93	54.00	-9.07
5353.200	Peak	48.00	8.13	56.12	74.00	-17.88
5353.200	Average	36.49	8.13	44.62	54.00	-9.38
5384.000	Peak	47.63	8.13	55.76	74.00	-18.24
5384.000	Average	36.36	8.13	44.49	54.00	-9.51
5420.200	Peak	47.47	8.10	55.57	74.00	-18.43
5420.200	Average	36.49	8.10	44.59	54.00	-9.41

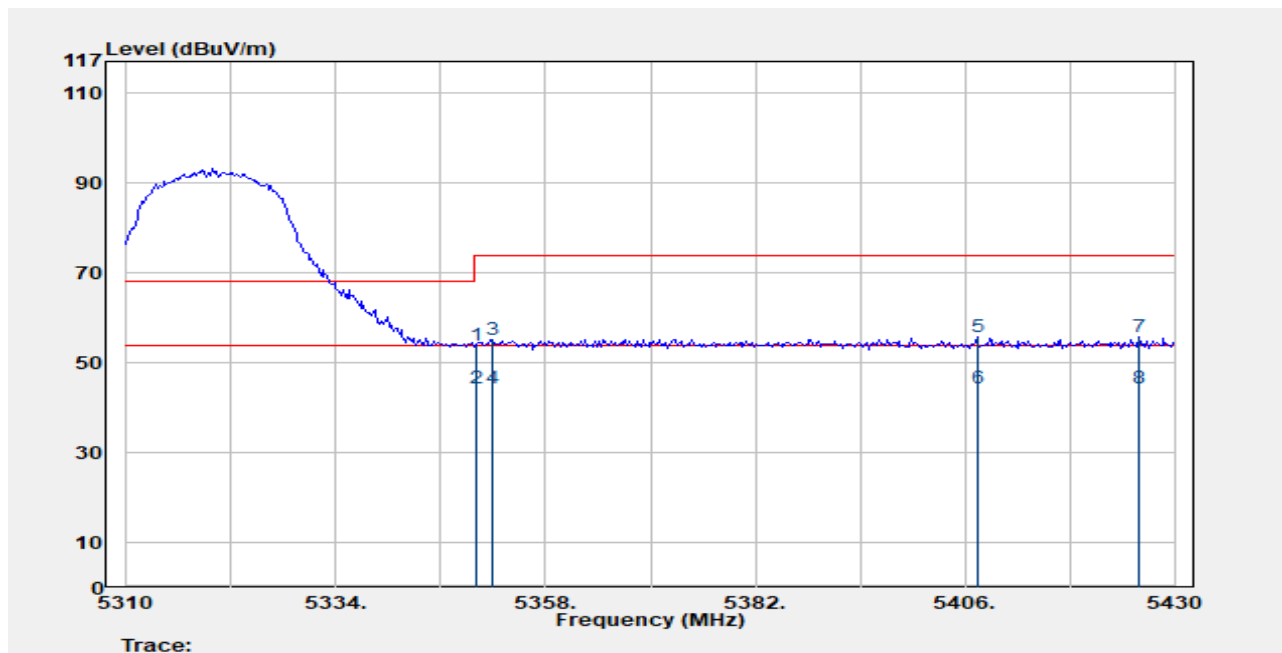
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Report Number :ER-2021-A0048
 Operation Mode :802.11a
 Test Frequency :5320 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-09
 Temp./Humi. :25.9/65
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.000	Peak	45.71	8.12	53.84	74.00	-20.16
5350.000	Average	36.39	8.12	44.51	54.00	-9.49
5352.000	Peak	47.20	8.12	55.32	74.00	-18.68
5352.000	Average	36.33	8.12	44.45	54.00	-9.55
5407.400	Peak	47.81	8.12	55.93	74.00	-18.07
5407.400	Average	36.19	8.12	44.31	54.00	-9.69
5426.000	Peak	47.75	8.09	55.85	74.00	-18.15
5426.000	Average	36.43	8.09	44.52	54.00	-9.48

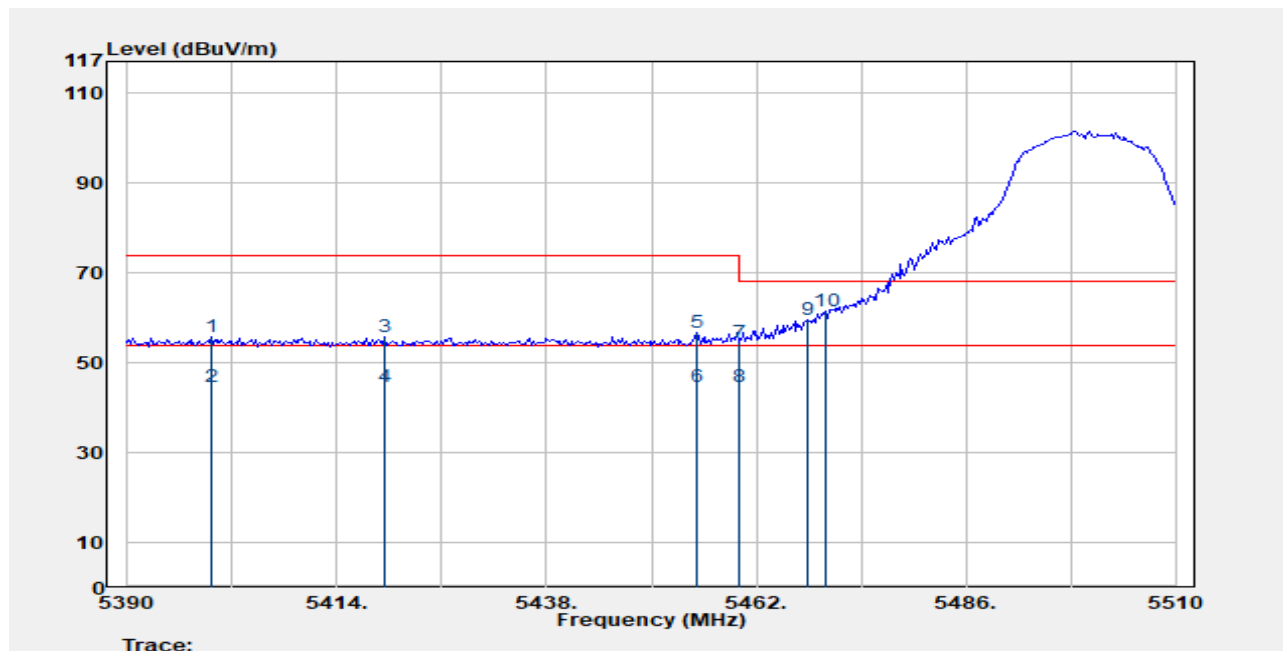
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Report Number :ER-2021-A0048
 Operation Mode :802.11a
 Test Frequency :5500 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-09
 Temp./Humi. :25.9/65
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Freq. MHz	Detector Mode	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5399.600	Peak	47.64	8.13	55.77	74.00	-18.23
5399.600	Average	36.59	8.13	44.72	54.00	-9.28
5419.400	Peak	47.72	8.10	55.82	74.00	-18.18
5419.400	Average	36.53	8.10	44.63	54.00	-9.37
5455.200	Peak	48.66	8.07	56.73	74.00	-17.27
5455.200	Average	36.73	8.07	44.80	54.00	-9.20
5460.000	Peak	46.60	8.07	54.67	74.00	-19.33
5460.000	Average	36.79	8.07	44.86	54.00	-9.14
5467.800	Peak	51.67	8.08	59.74	68.20	-8.46
5470.000	Peak	53.38	8.08	61.46	68.20	-6.74

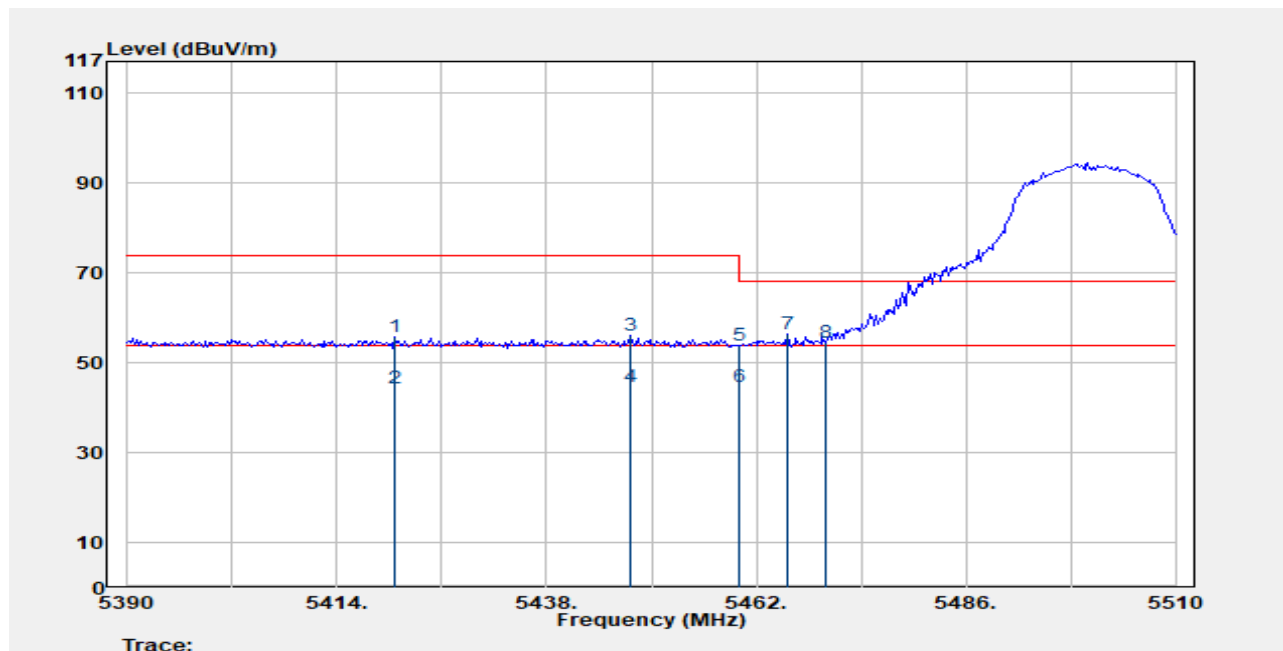
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Report Number :ER-2021-A0048
 Operation Mode :802.11a
 Test Frequency :5500 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-09
 Temp./Humi. :25.9/65
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq. MHz	Detector Mode	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5420.600	Peak	47.73	8.10	55.84	74.00	-18.16
5420.600	Average	36.43	8.10	44.53	54.00	-9.47
5447.600	Peak	47.97	8.07	56.04	74.00	-17.96
5447.600	Average	36.49	8.07	44.56	54.00	-9.44
5460.000	Peak	45.94	8.07	54.01	74.00	-19.99
5460.000	Average	36.52	8.07	44.59	54.00	-9.41
5465.600	Peak	48.25	8.07	56.32	68.20	-11.88
5470.000	Peak	46.48	8.08	54.56	68.20	-13.64

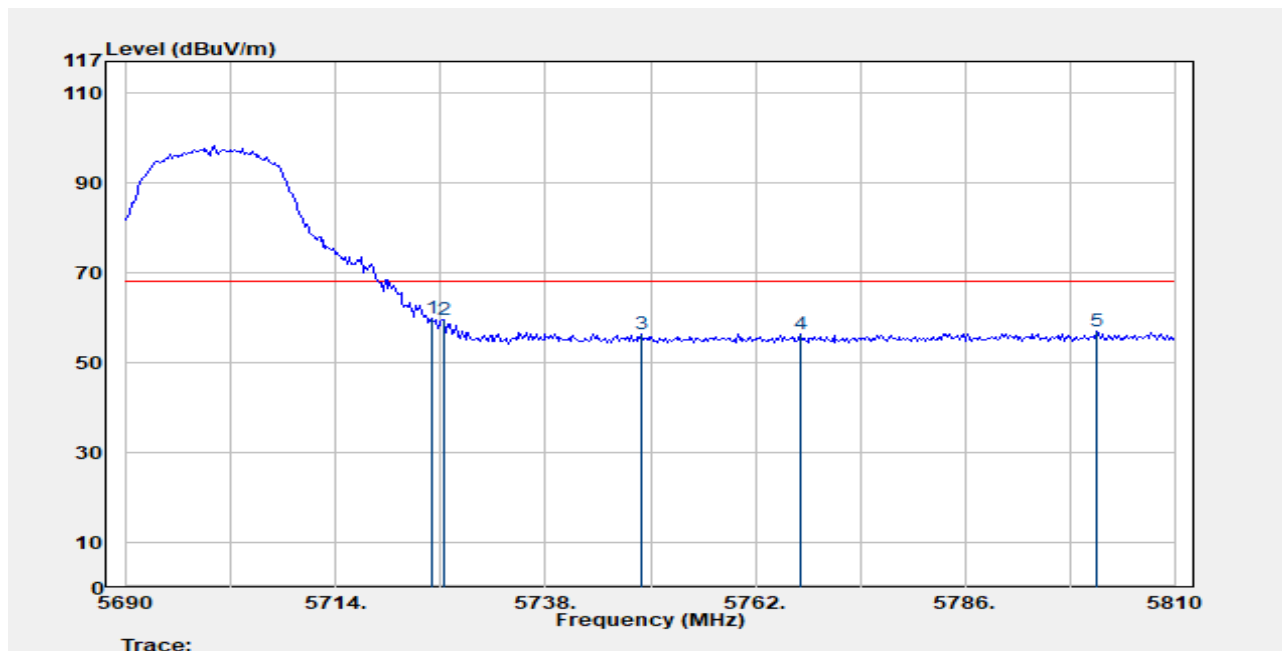
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Report Number :ER-2021-A0048
 Operation Mode :802.11a
 Test Frequency :5700 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-09
 Temp./Humi. :25.9/65
 Antenna Pol. :Vertical
 Engineer :Ricky 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
5725.000	Peak	51.09	8.81	59.90	68.20	-8.30
5726.400	Peak	50.84	8.82	59.65	68.20	-8.55
5749.000	Peak	47.64	8.92	56.56	68.20	-11.64
5767.200	Peak	47.48	9.04	56.53	68.20	-11.67
5801.200	Peak	47.75	9.27	57.02	68.20	-11.18

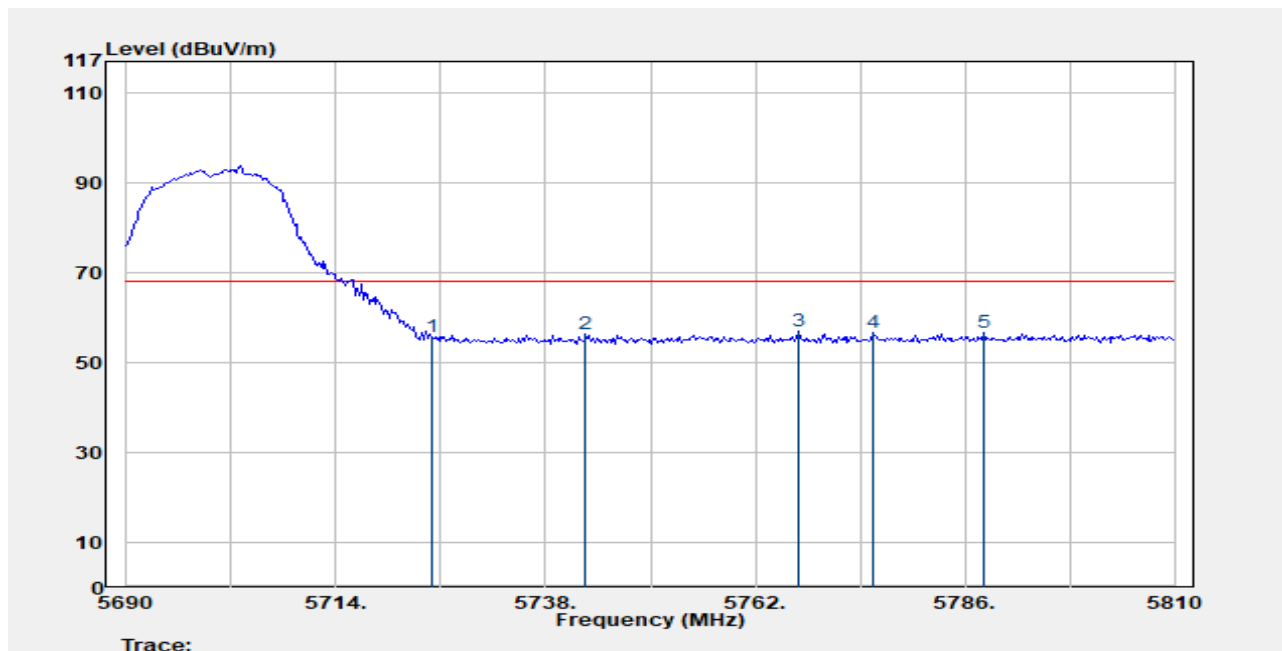
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Report Number :ER-2021-A0048
 Operation Mode :802.11a
 Test Frequency :5700 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-09
 Temp./Humi. :25.9/65
 Antenna Pol. :Horizontal
 Engineer :Ricky 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
5725.000	Peak	47.01	8.81	55.82	68.20	-12.38
5742.600	Peak	47.63	8.89	56.53	68.20	-11.67
5767.000	Peak	48.10	9.04	57.14	68.20	-11.06
5775.400	Peak	47.79	9.10	56.89	68.20	-11.31
5788.200	Peak	47.64	9.19	56.83	68.20	-11.37

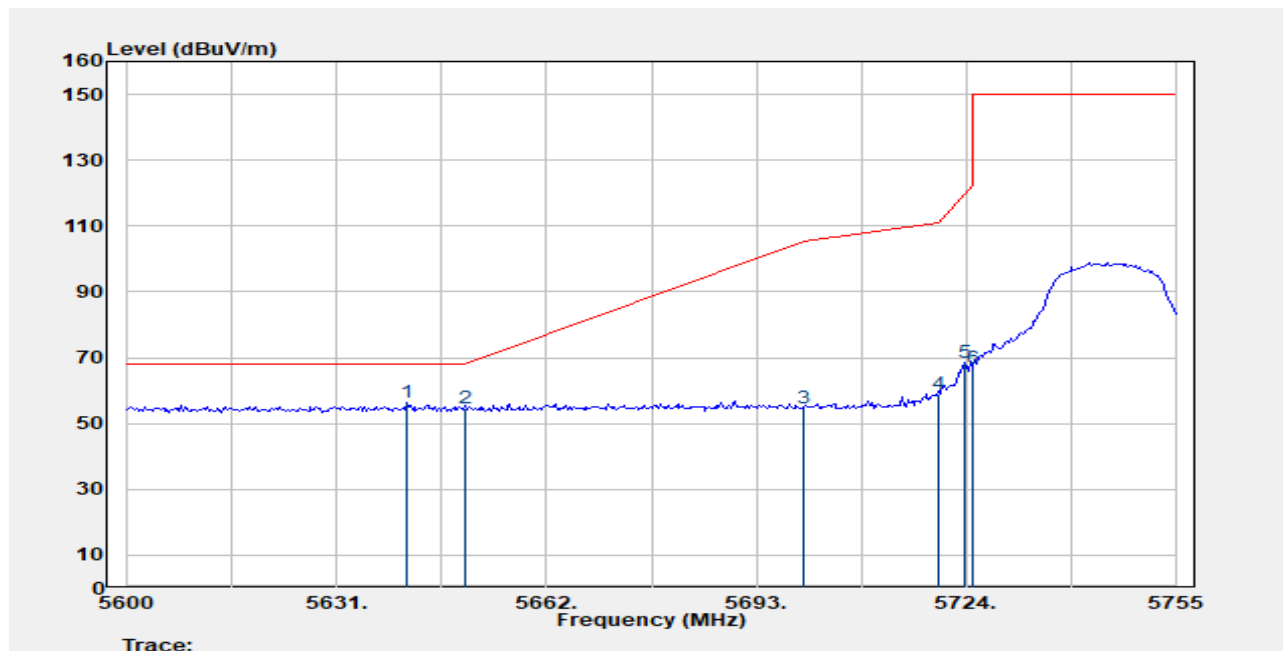
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Report Number :ER-2021-A0048
 Operation Mode :802.11a
 Test Frequency :5745 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-09
 Temp./Humi. :25.9/65
 Antenna Pol. :Vertical
 Engineer :Ricky 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
5641.333	Peak	47.99	8.29	56.29	68.20	-11.91
5650.000	Peak	46.25	8.32	54.57	68.20	-13.63
5700.000	Peak	46.15	8.69	54.84	105.20	-50.36
5720.000	Peak	49.97	8.79	58.75	110.80	-52.05
5723.742	Peak	59.71	8.80	68.51	119.33	-50.82
5725.000	Peak	58.03	8.81	66.84	122.20	-55.36

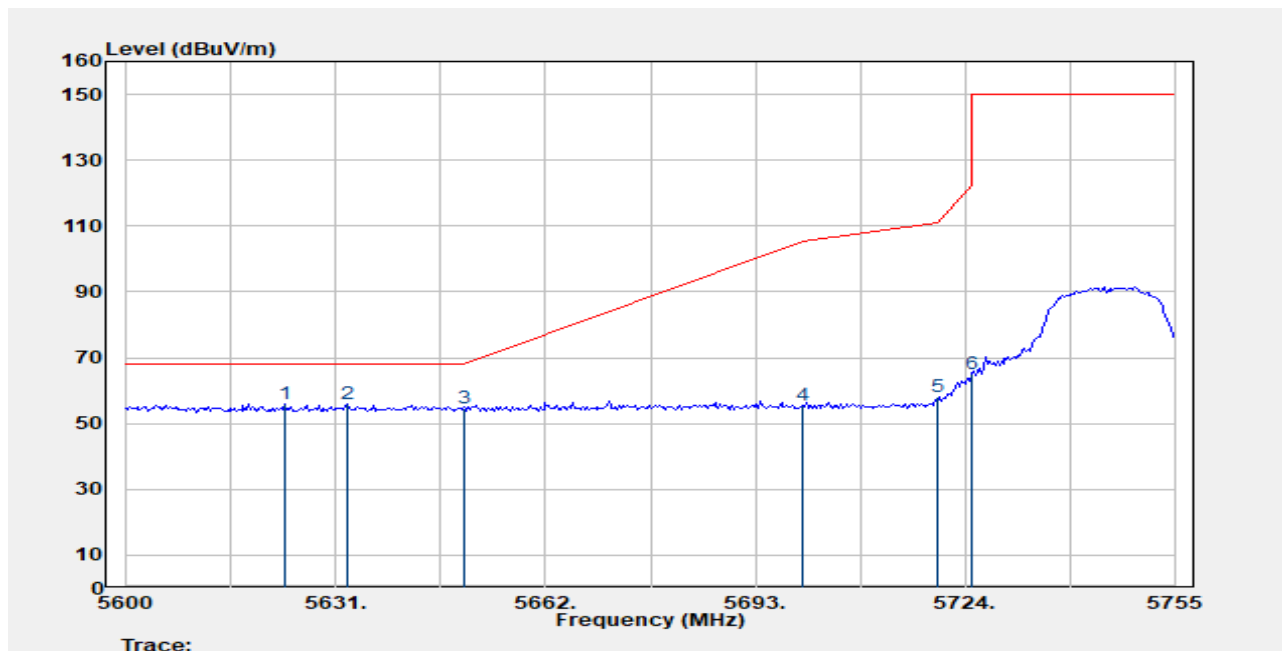
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Report Number :ER-2021-A0048
 Operation Mode :802.11a
 Test Frequency :5745 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-09
 Temp./Humi. :25.9/65
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Trace:	Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
	5623.508	Peak	47.90	8.23	56.13	68.20	-12.07
	5632.550	Peak	47.89	8.26	56.15	68.20	-12.05
	5650.000	Peak	46.46	8.32	54.78	68.20	-13.42
	5700.000	Peak	46.91	8.69	55.60	105.20	-49.60
	5720.000	Peak	49.44	8.79	58.22	110.80	-52.58
	5725.000	Peak	56.44	8.81	65.25	122.20	-56.95

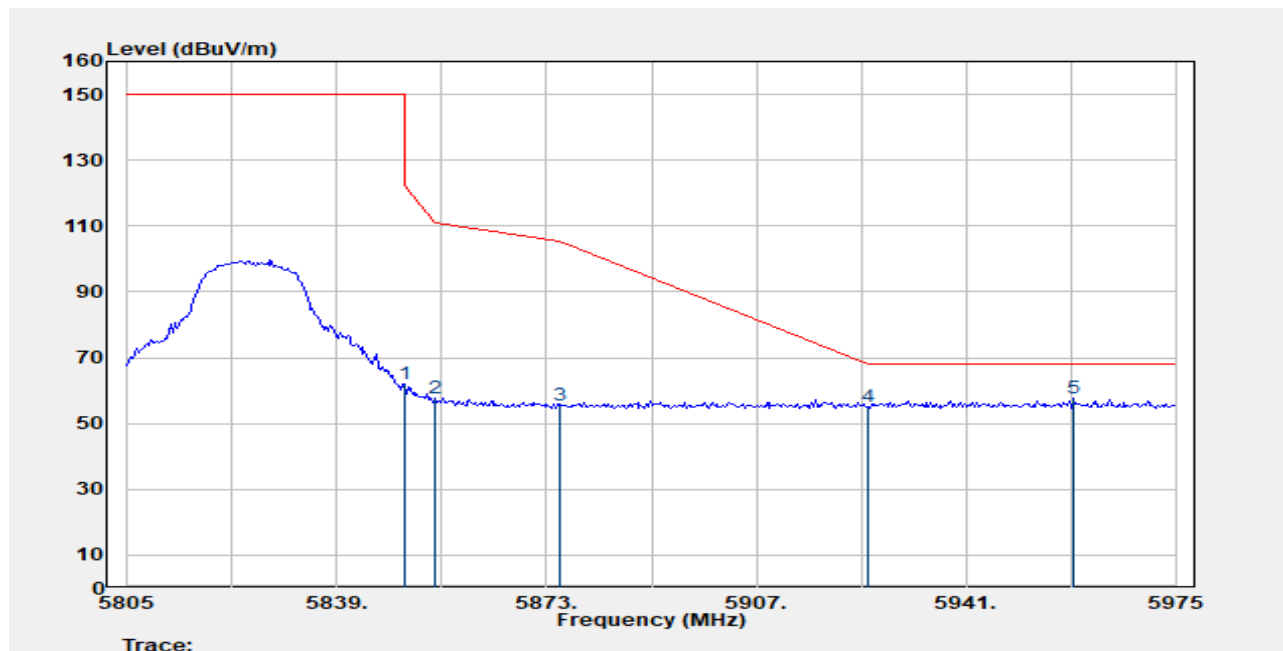
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Report Number :ER-2021-A0048
 Operation Mode :802.11a
 Test Frequency :5825 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-09
 Temp./Humi. :25.9/65
 Antenna Pol. :Vertical
 Engineer :Ricky 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
5850.000	Peak	52.54	9.42	61.96	122.20	-60.24
5855.000	Peak	48.05	9.44	57.49	110.80	-53.31
5875.000	Peak	45.83	9.50	55.33	105.20	-49.87
5925.000	Peak	45.52	9.65	55.17	68.20	-13.03
5958.567	Peak	47.90	9.70	57.60	68.20	-10.60

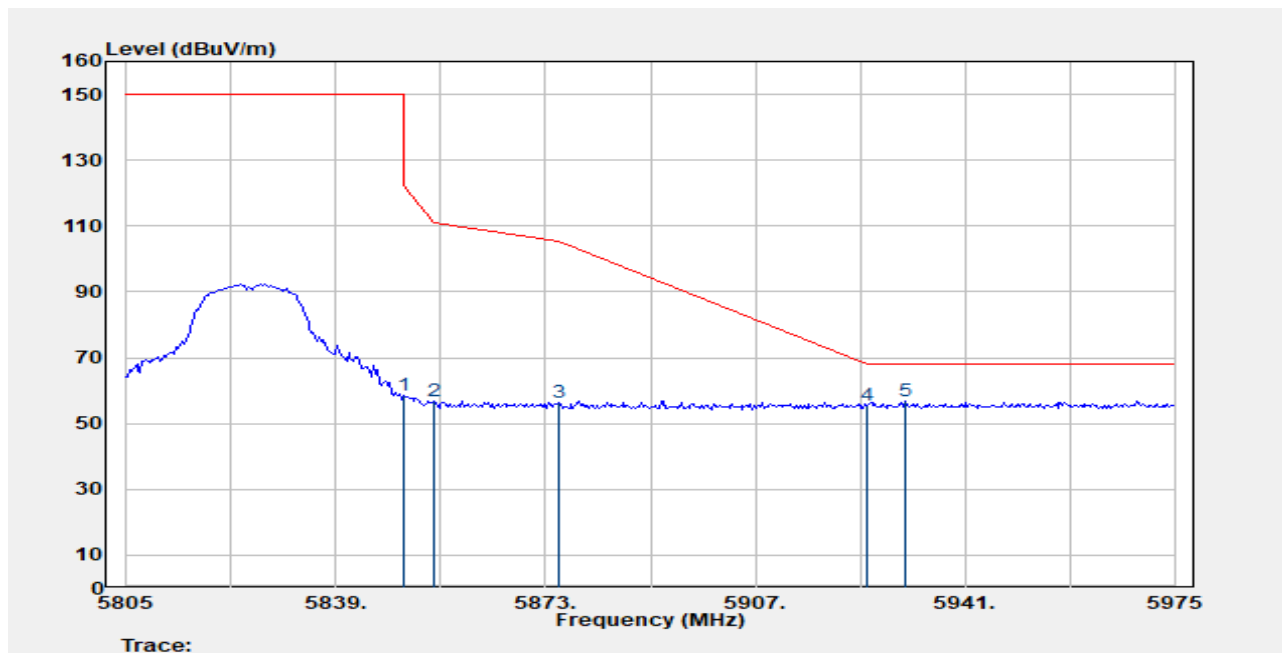
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Report Number :ER-2021-A0048
 Operation Mode :802.11a
 Test Frequency :5825 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-09
 Temp./Humi. :25.9/65
 Antenna Pol. :Horizontal
 Engineer :Ricky 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
5850.000	Peak	49.01	9.42	58.43	122.20	-63.77
5855.000	Peak	47.21	9.44	56.65	110.80	-54.15
5875.000	Peak	46.87	9.50	56.37	105.20	-48.83
5925.000	Peak	45.84	9.65	55.49	68.20	-12.71
5931.367	Peak	47.21	9.66	56.88	68.20	-11.32

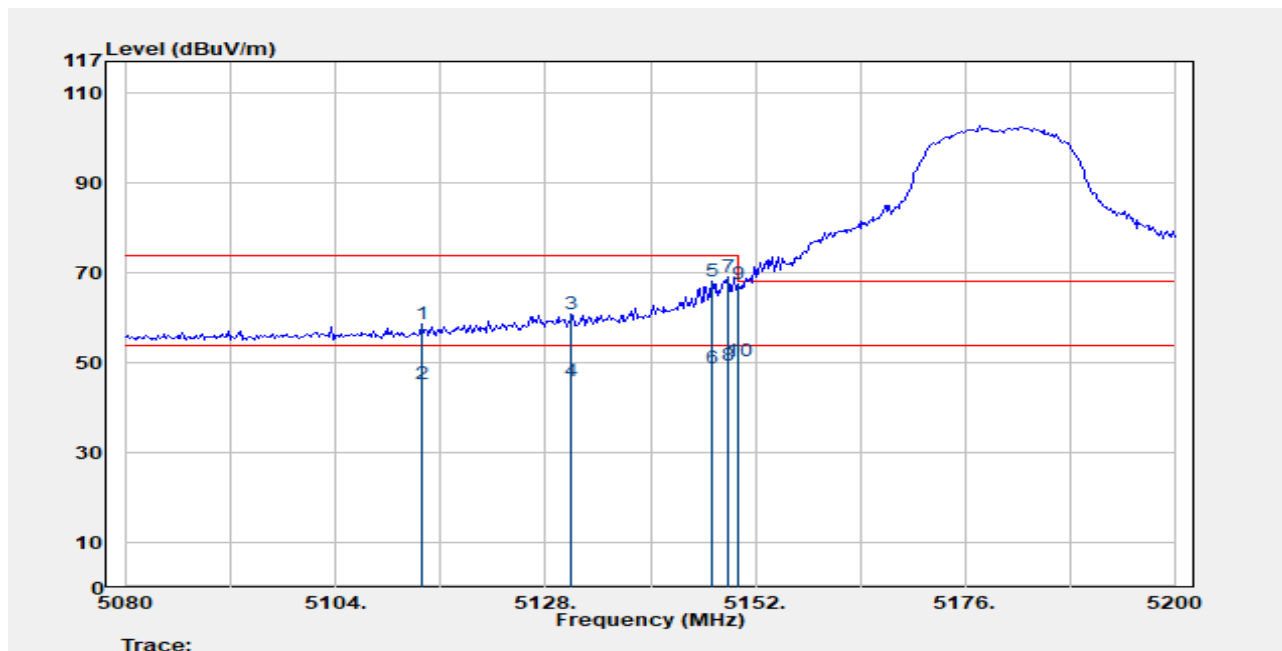
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Report Number :ER-2021-A0048
 Operation Mode :802.11n20
 Test Frequency :5180 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-09
 Temp./Humi. :25.9/65
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Freq. MHz	Detector Mode	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5113.800	Peak	49.97	8.79	58.76	74.00	-15.24
5113.800	Average	36.55	8.79	45.34	54.00	-8.66
5131.000	Peak	52.26	8.74	61.01	74.00	-12.99
5131.000	Average	37.38	8.74	46.12	54.00	-7.88
5147.000	Peak	59.62	8.69	68.31	74.00	-5.69
5147.000	Average	40.28	8.69	48.97	54.00	-5.03
5148.800	Peak	60.29	8.69	68.97	74.00	-5.03
5148.800	Average	40.88	8.69	49.57	54.00	-4.43
5150.000	Peak	58.93	8.68	67.62	74.00	-6.38
5150.000	Average	41.63	8.68	50.31	54.00	-3.69

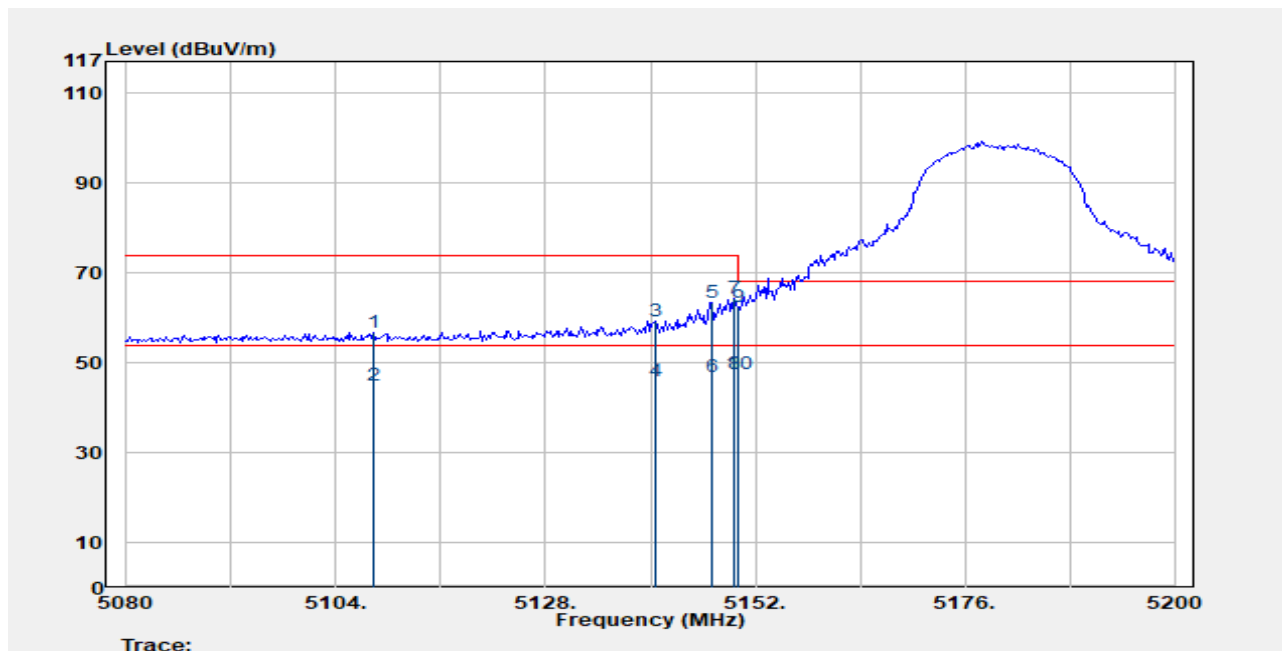
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Report Number :ER-2021-A0048
 Operation Mode :802.11n20
 Test Frequency :5180 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-09
 Temp./Humi. :25.9/65
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5108.200	Peak	47.94	8.81	56.75	74.00	-17.25
5108.200	Average	36.37	8.81	45.18	54.00	-8.82
5140.600	Peak	50.63	8.71	59.34	74.00	-14.66
5140.600	Average	37.26	8.71	45.97	54.00	-8.03
5147.000	Peak	54.79	8.69	63.48	74.00	-10.52
5147.000	Average	38.23	8.69	46.92	54.00	-7.08
5149.600	Peak	55.78	8.69	64.46	74.00	-9.54
5149.600	Average	38.89	8.69	47.58	54.00	-6.42
5150.000	Peak	53.76	8.68	62.44	74.00	-11.56
5150.000	Average	38.89	8.68	47.57	54.00	-6.43

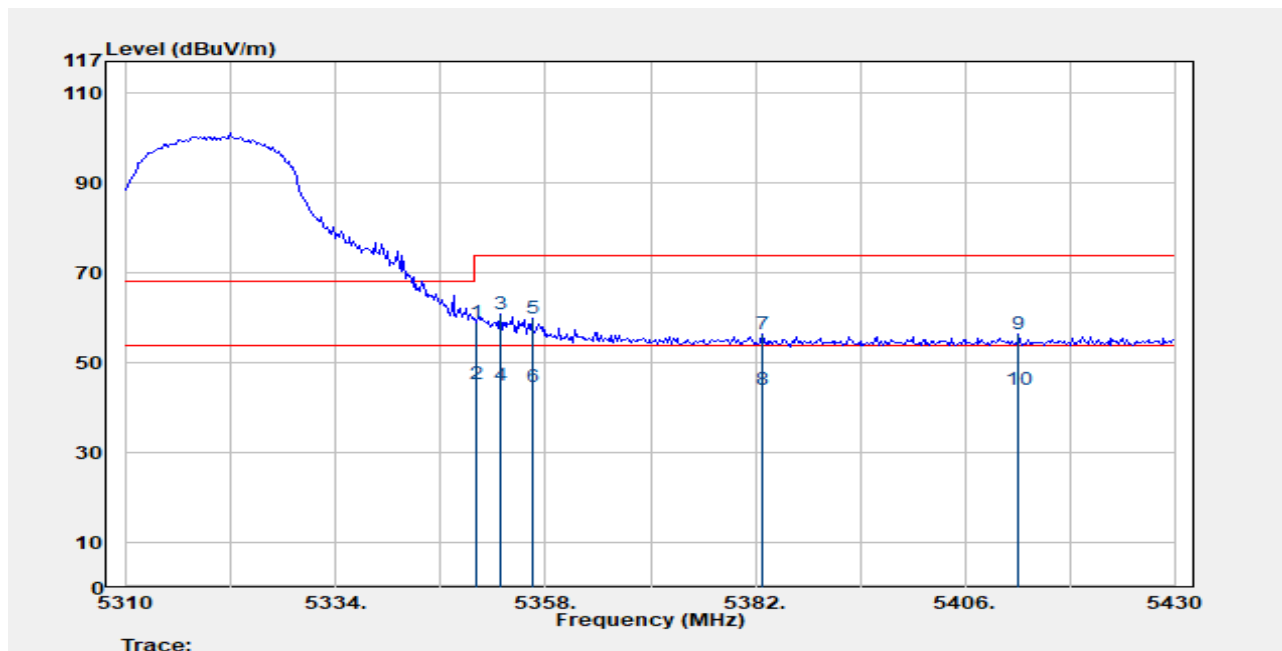
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Report Number :ER-2021-A0048
 Operation Mode :802.11n20
 Test Frequency :5320 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-09
 Temp./Humi. :25.9/65
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5350.000	Peak	50.69	8.12	58.82	74.00	-15.18
5350.000	Average	37.33	8.12	45.45	54.00	-8.55
5352.800	Peak	52.61	8.13	60.73	74.00	-13.27
5352.800	Average	36.86	8.13	44.99	54.00	-9.01
5356.400	Peak	51.86	8.13	59.98	74.00	-14.02
5356.400	Average	36.61	8.13	44.74	54.00	-9.26
5382.800	Peak	48.35	8.13	56.48	74.00	-17.52
5382.800	Average	36.03	8.13	44.16	54.00	-9.84
5412.200	Peak	48.44	8.11	56.55	74.00	-17.45
5412.200	Average	36.09	8.11	44.20	54.00	-9.80

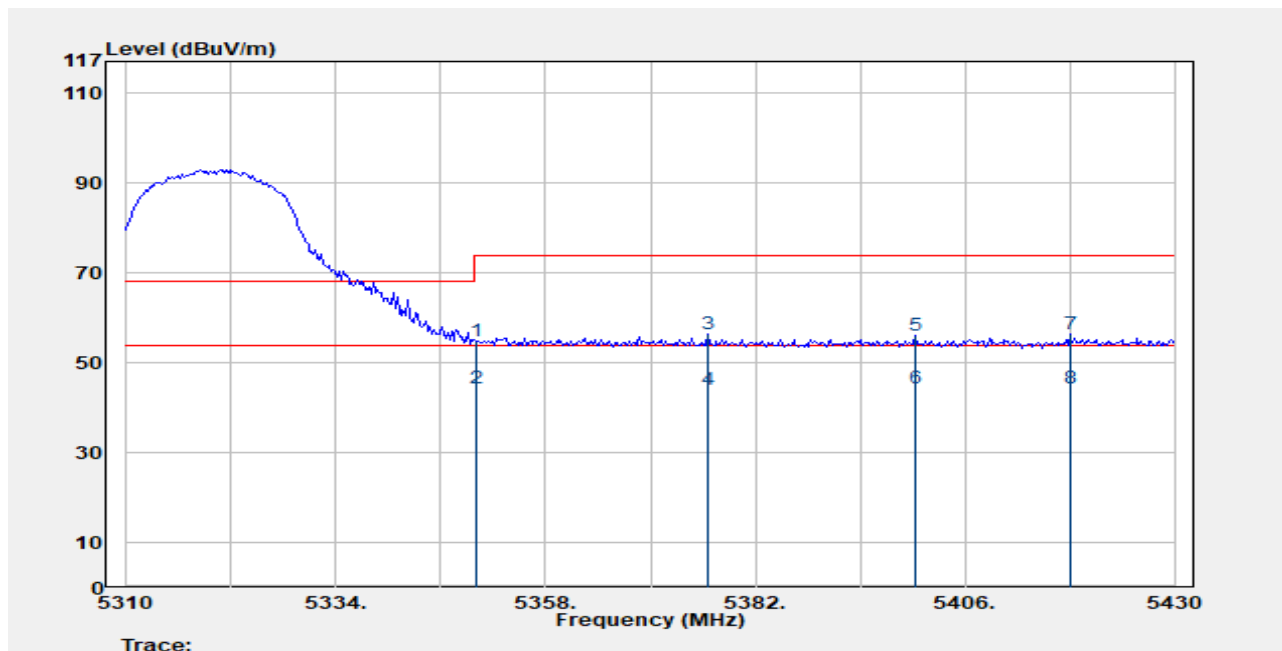
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Report Number :ER-2021-A0048
 Operation Mode :802.11n20
 Test Frequency :5320 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-09
 Temp./Humi. :25.9/65
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5350.000	Peak	46.57	8.12	54.70	74.00	-19.30
5350.000	Average	36.39	8.12	44.51	54.00	-9.49
5376.600	Peak	48.19	8.13	56.32	74.00	-17.68
5376.600	Average	36.06	8.13	44.19	54.00	-9.81
5400.400	Peak	47.91	8.13	56.03	74.00	-17.97
5400.400	Average	36.16	8.13	44.29	54.00	-9.71
5418.000	Peak	48.23	8.10	56.34	74.00	-17.66
5418.000	Average	36.29	8.10	44.39	54.00	-9.61

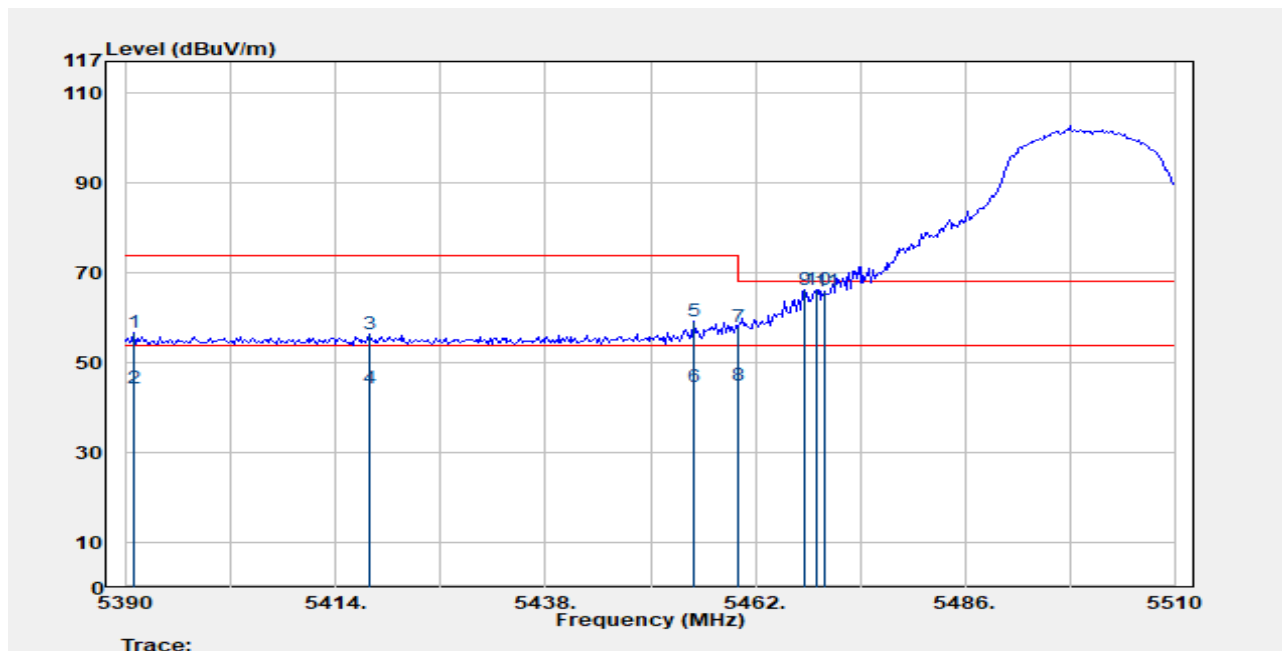
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Report Number :ER-2021-A0048
 Operation Mode :802.11n20
 Test Frequency :5500 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-09
 Temp./Humi. :25.9/65
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5390.800	Peak	48.52	8.13	56.65	74.00	-17.35
5390.800	Average	36.32	8.13	44.45	54.00	-9.55
5417.800	Peak	48.44	8.11	56.55	74.00	-17.45
5417.800	Average	36.32	8.11	44.43	54.00	-9.57
5455.000	Peak	51.11	8.07	59.18	74.00	-14.82
5455.000	Average	36.76	8.07	44.83	54.00	-9.17
5460.000	Peak	50.02	8.07	58.09	74.00	-15.91
5460.000	Average	36.96	8.07	45.03	54.00	-8.97
5467.600	Peak	58.10	8.08	66.18	68.20	-2.02
5469.000	Peak	58.31	8.08	66.39	68.20	-1.81
5470.000	Peak	58.01	8.08	66.09	68.20	-2.11

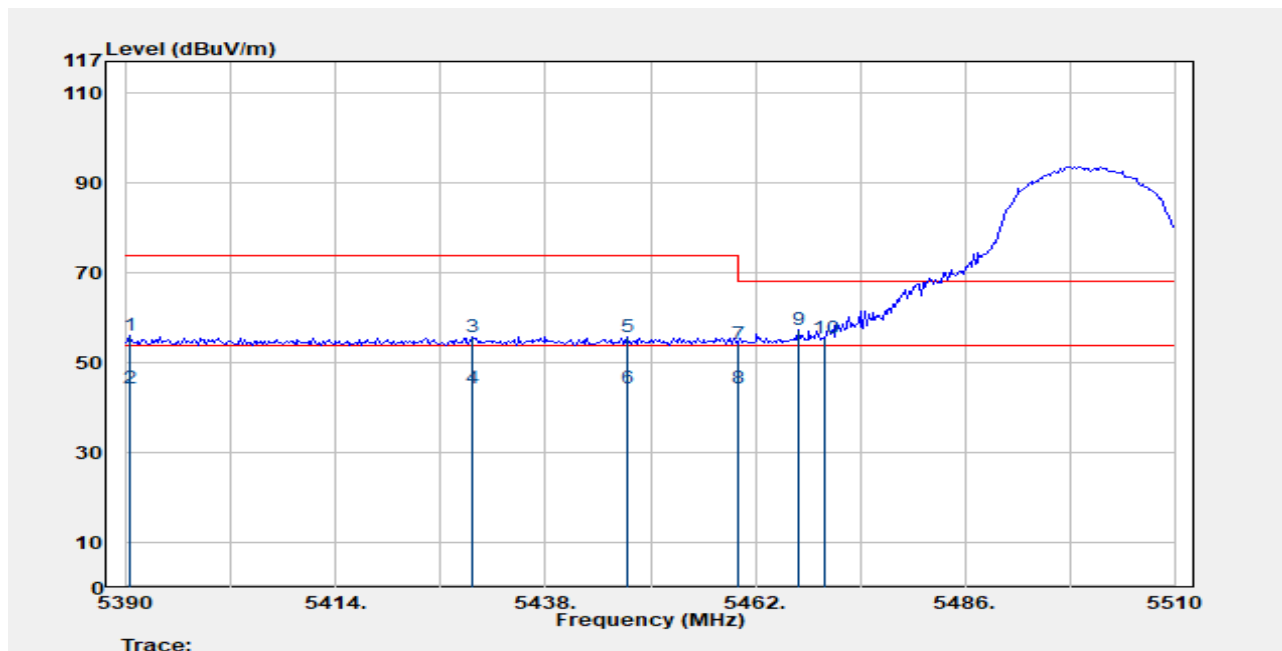
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Report Number :ER-2021-A0048
 Operation Mode :802.11n20
 Test Frequency :5500 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-09
 Temp./Humi. :25.9/65
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5390.400	Peak	47.96	8.13	56.08	74.00	-17.92
5390.400	Average	36.23	8.13	44.36	54.00	-9.64
5429.600	Peak	47.86	8.09	55.95	74.00	-18.05
5429.600	Average	36.33	8.09	44.42	54.00	-9.58
5447.400	Peak	47.87	8.07	55.94	74.00	-18.06
5447.400	Average	36.31	8.07	44.38	54.00	-9.62
5460.000	Peak	46.29	8.07	54.36	74.00	-19.64
5460.000	Average	36.32	8.07	44.39	54.00	-9.61
5467.000	Peak	49.20	8.08	57.27	68.20	-10.93
5470.000	Peak	47.26	8.08	55.34	68.20	-12.86

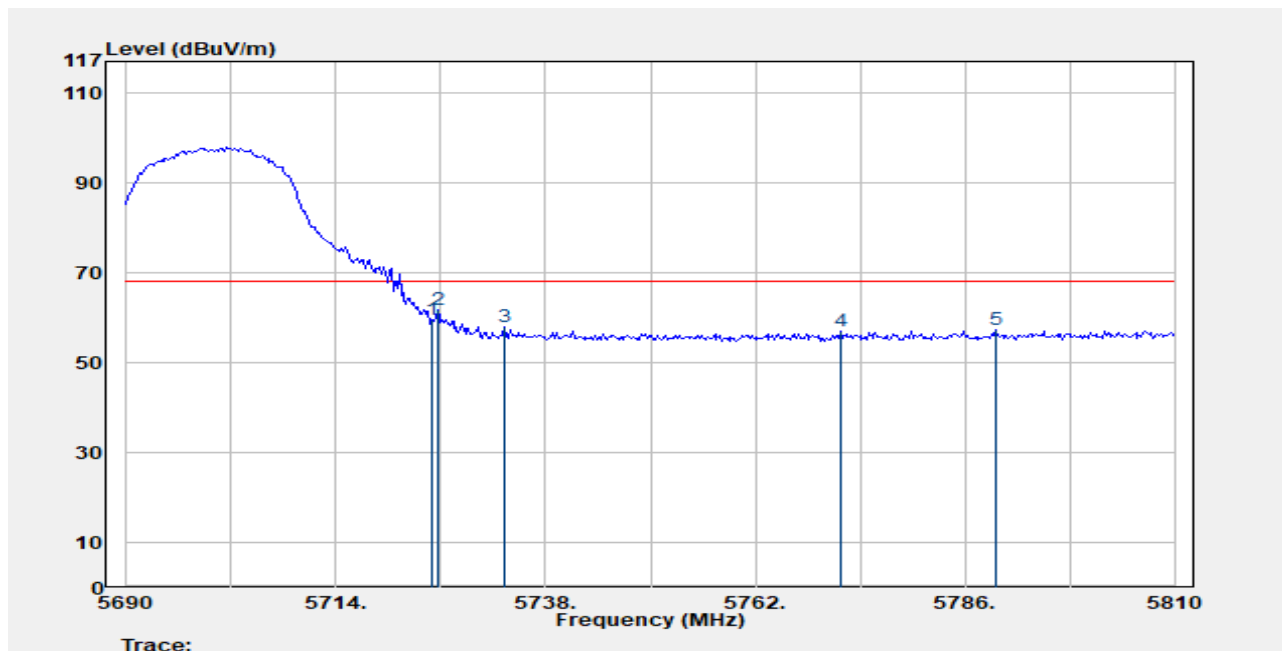
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Report Number :ER-2021-A0048
 Operation Mode :802.11n20
 Test Frequency :5700 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-09
 Temp./Humi. :25.9/65
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Trace:	Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
	5725.000	Peak	50.96	8.81	59.77	68.20	-8.43
	5725.600	Peak	52.95	8.81	61.76	68.20	-6.44
	5733.200	Peak	49.33	8.85	58.18	68.20	-10.02
	5771.800	Peak	47.99	9.08	57.06	68.20	-11.14
	5789.600	Peak	48.19	9.20	57.39	68.20	-10.81

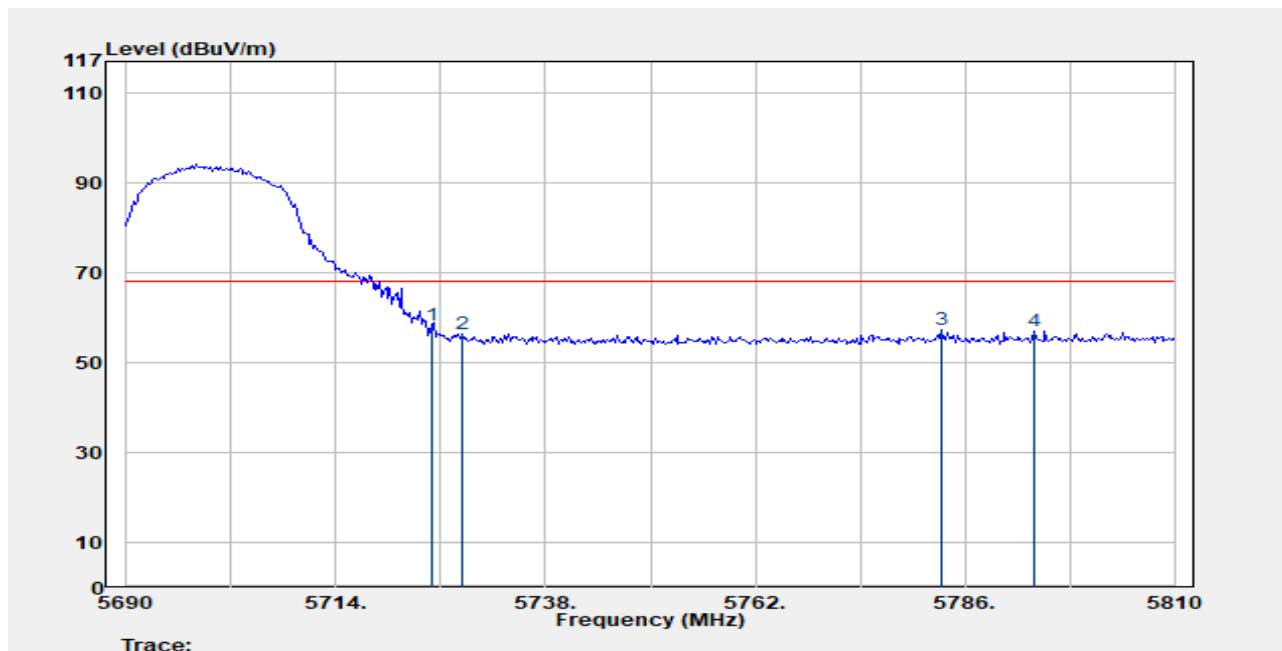
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Report Number :ER-2021-A0048
 Operation Mode :802.11n20
 Test Frequency :5700 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-09
 Temp./Humi. :25.9/65
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Trace:	Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
	5725.000	Peak	49.55	8.81	58.36	68.20	-9.84
	5728.400	Peak	47.60	8.83	56.43	68.20	-11.77
	5783.400	Peak	48.31	9.15	57.47	68.20	-10.73
	5794.000	Peak	47.82	9.23	57.05	68.20	-11.15

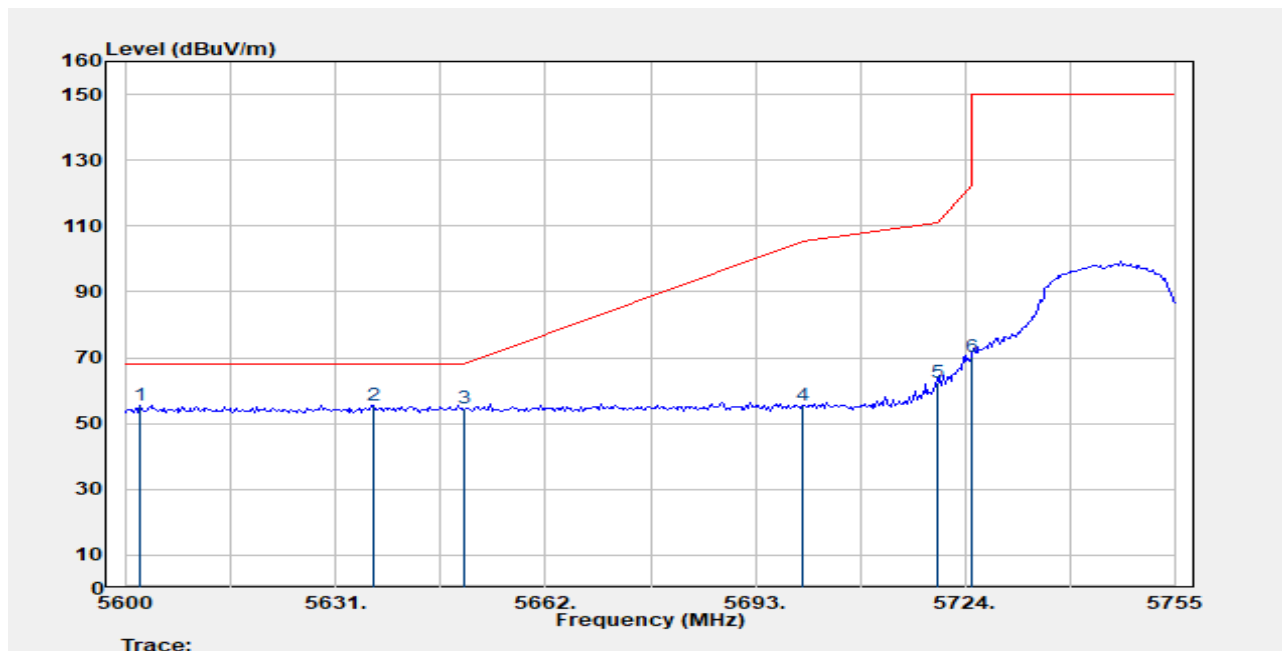
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Report Number :ER-2021-A0048
 Operation Mode :802.11n20
 Test Frequency :5745 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-09
 Temp./Humi. :25.9/65
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5602.067	Peak	47.53	8.16	55.68	68.20	-12.52
5636.425	Peak	47.42	8.28	55.70	68.20	-12.50
5650.000	Peak	46.35	8.32	54.67	68.20	-13.53
5700.000	Peak	47.03	8.69	55.72	105.20	-49.48
5720.000	Peak	53.79	8.79	62.57	110.80	-48.23
5725.000	Peak	61.59	8.81	70.40	122.20	-51.80

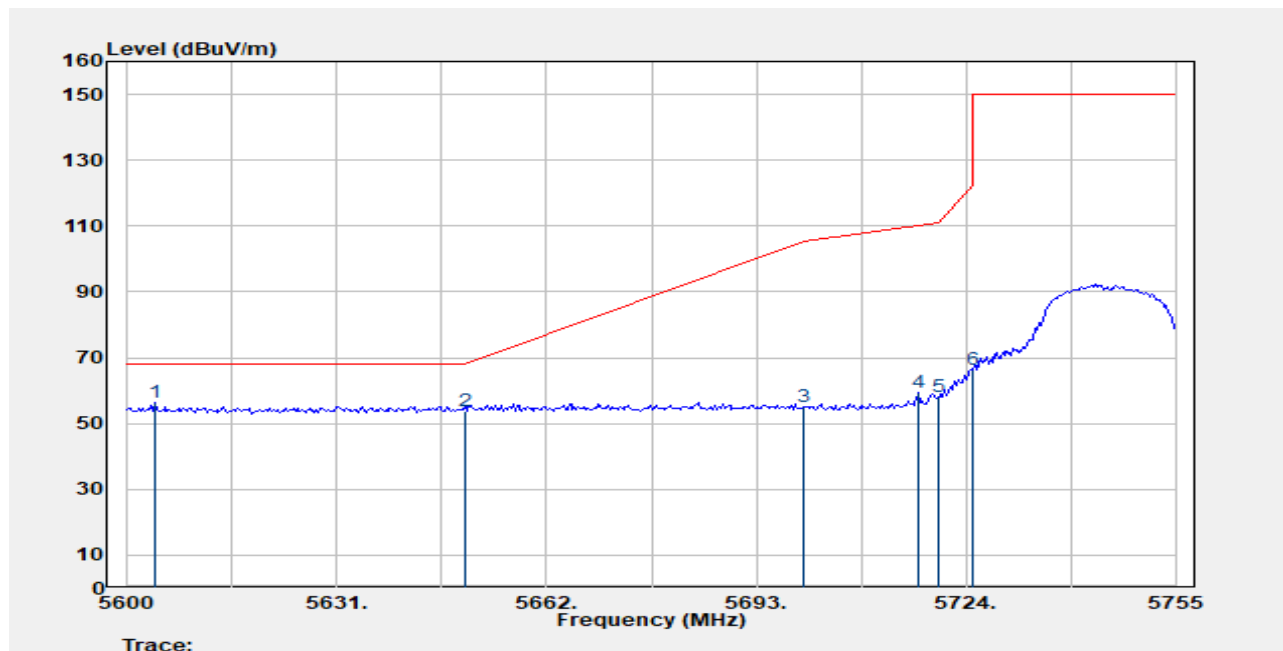
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Report Number :ER-2021-A0048
 Operation Mode :802.11n20
 Test Frequency :5745 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-09
 Temp./Humi. :25.9/65
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5604.133	Peak	48.02	8.17	56.19	68.20	-12.01
5650.000	Peak	45.65	8.32	53.97	68.20	-14.23
5700.000	Peak	46.21	8.69	54.90	105.20	-50.30
5717.025	Peak	50.77	8.77	59.54	109.97	-50.43
5720.000	Peak	49.22	8.79	58.00	110.80	-52.80
5725.000	Peak	57.53	8.81	66.34	122.20	-55.86

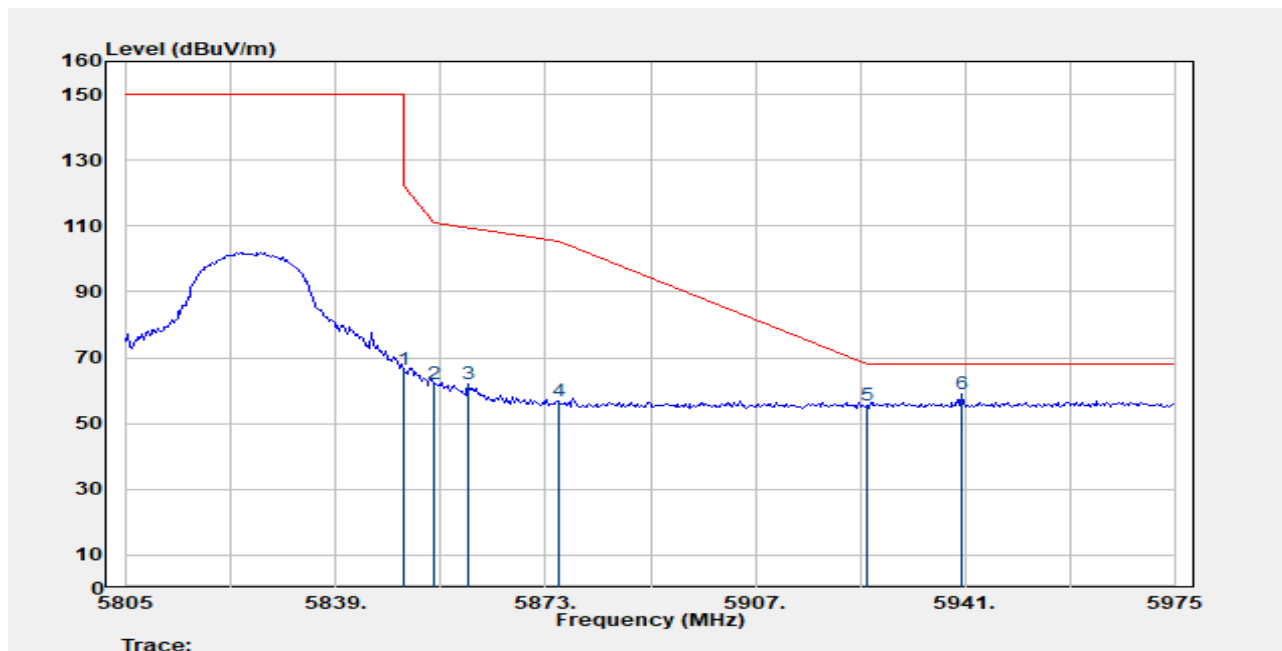
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Report Number :ER-2021-A0048
 Operation Mode :802.11n20
 Test Frequency :5825 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-09
 Temp./Humi. :25.9/65
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5850.000	Peak	56.84	9.42	66.26	122.20	-55.94
5855.000	Peak	52.47	9.44	61.91	110.80	-48.89
5860.533	Peak	52.62	9.46	62.07	109.25	-47.18
5875.000	Peak	47.27	9.50	56.77	105.20	-48.43
5925.000	Peak	45.90	9.65	55.54	68.20	-12.66
5940.433	Peak	49.29	9.69	58.98	68.20	-9.22

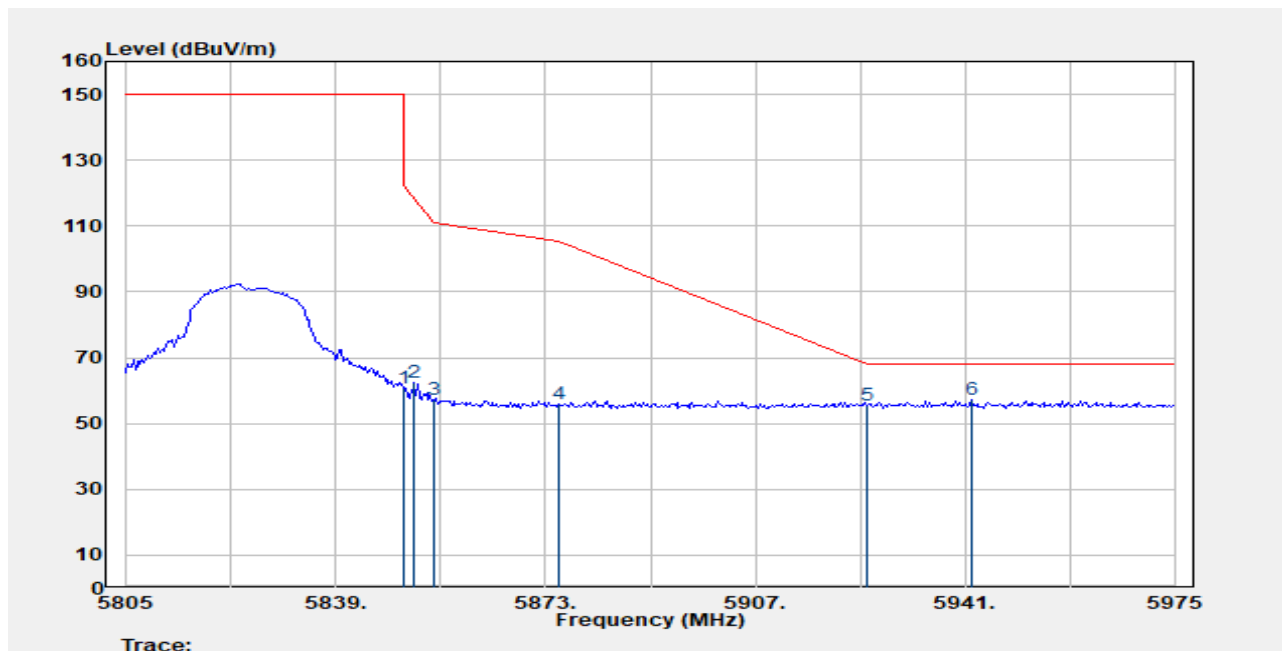
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Report Number :ER-2021-A0048
 Operation Mode :802.11n20
 Test Frequency :5825 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-09
 Temp./Humi. :25.9/65
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



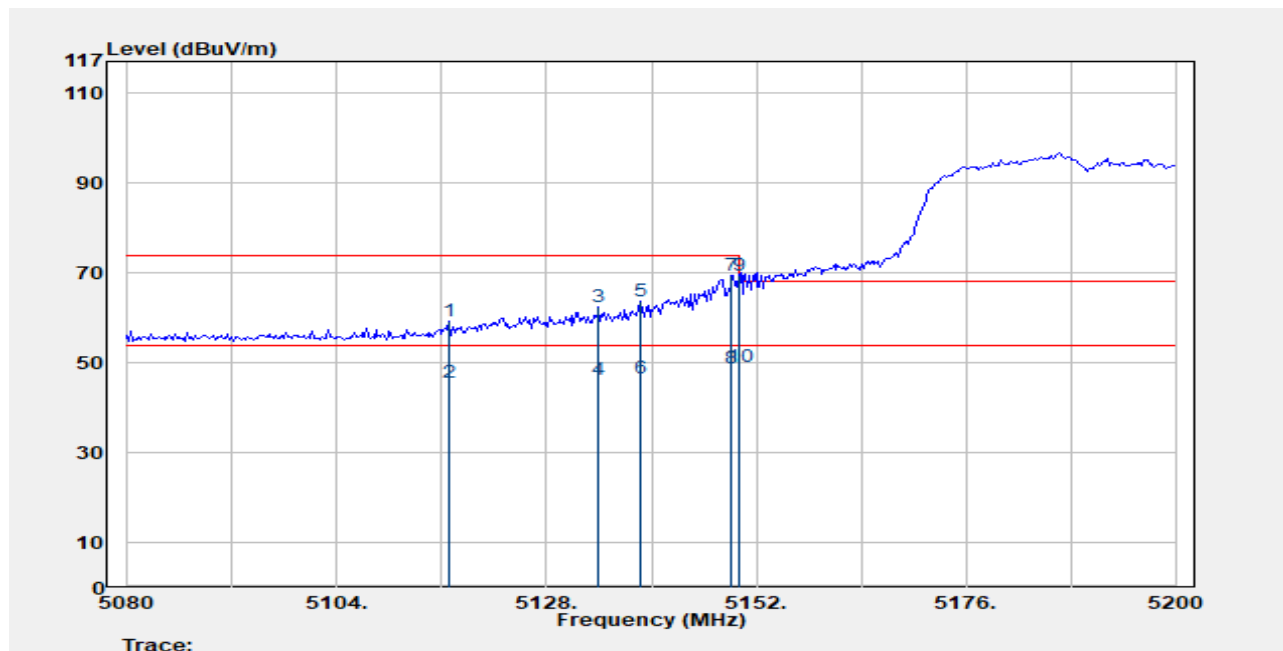
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5850.000	Peak	51.31	9.42	60.73	122.20	-61.47
5851.750	Peak	52.80	9.43	62.23	118.21	-55.98
5855.000	Peak	47.75	9.44	57.18	110.80	-53.62
5875.000	Peak	46.62	9.50	56.12	105.20	-49.08
5925.000	Peak	45.70	9.65	55.35	68.20	-12.85
5942.133	Peak	47.65	9.69	57.35	68.20	-10.85

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Report Number :ER-2021-A0048
 Operation Mode :802.11n40
 Test Frequency :5190 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-09
 Temp./Humi. :25.9/65
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Freq. MHz	Detector Mode	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5116.800	Peak	50.41	8.79	59.20	74.00	-14.80
5116.800	Average	36.83	8.79	45.62	54.00	-8.38
5134.000	Peak	53.66	8.73	62.40	74.00	-11.60
5134.000	Average	37.59	8.73	46.32	54.00	-7.68
5138.800	Peak	54.88	8.72	63.60	74.00	-10.40
5138.800	Average	37.92	8.72	46.64	54.00	-7.36
5149.200	Peak	60.77	8.69	69.45	74.00	-4.55
5149.200	Average	40.23	8.69	48.92	54.00	-5.08
5150.000	Peak	60.60	8.68	69.28	74.00	-4.72
5150.000	Average	40.33	8.68	49.01	54.00	-4.99

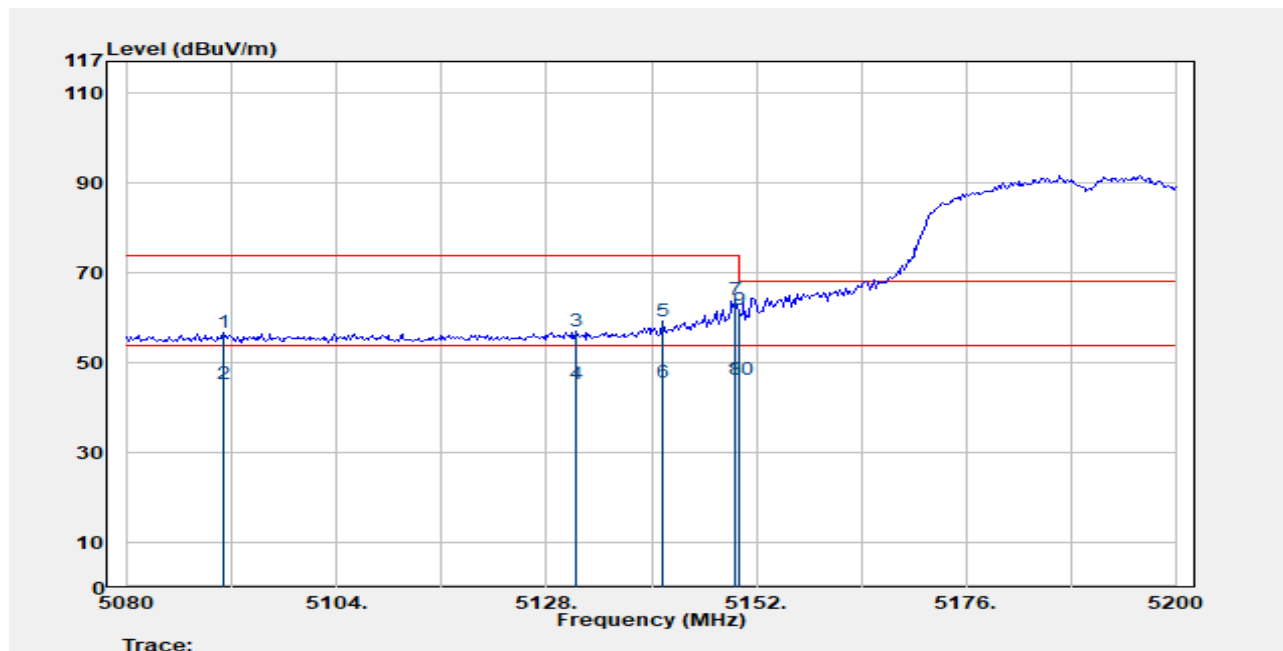
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Report Number :ER-2021-A0048
 Operation Mode :802.11n40
 Test Frequency :5190 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-09
 Temp./Humi. :25.9/65
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5091.000	Peak	48.09	8.73	56.82	74.00	-17.18
5091.000	Average	36.52	8.73	45.25	54.00	-8.75
5131.400	Peak	48.45	8.74	57.19	74.00	-16.81
5131.400	Average	36.59	8.74	45.33	54.00	-8.67
5141.200	Peak	50.55	8.71	59.26	74.00	-14.74
5141.200	Average	36.82	8.71	45.53	54.00	-8.47
5149.600	Peak	55.40	8.69	64.08	74.00	-9.92
5149.600	Average	37.49	8.69	46.18	54.00	-7.82
5150.000	Peak	53.23	8.68	61.91	74.00	-12.09
5150.000	Average	37.56	8.68	46.24	54.00	-7.76

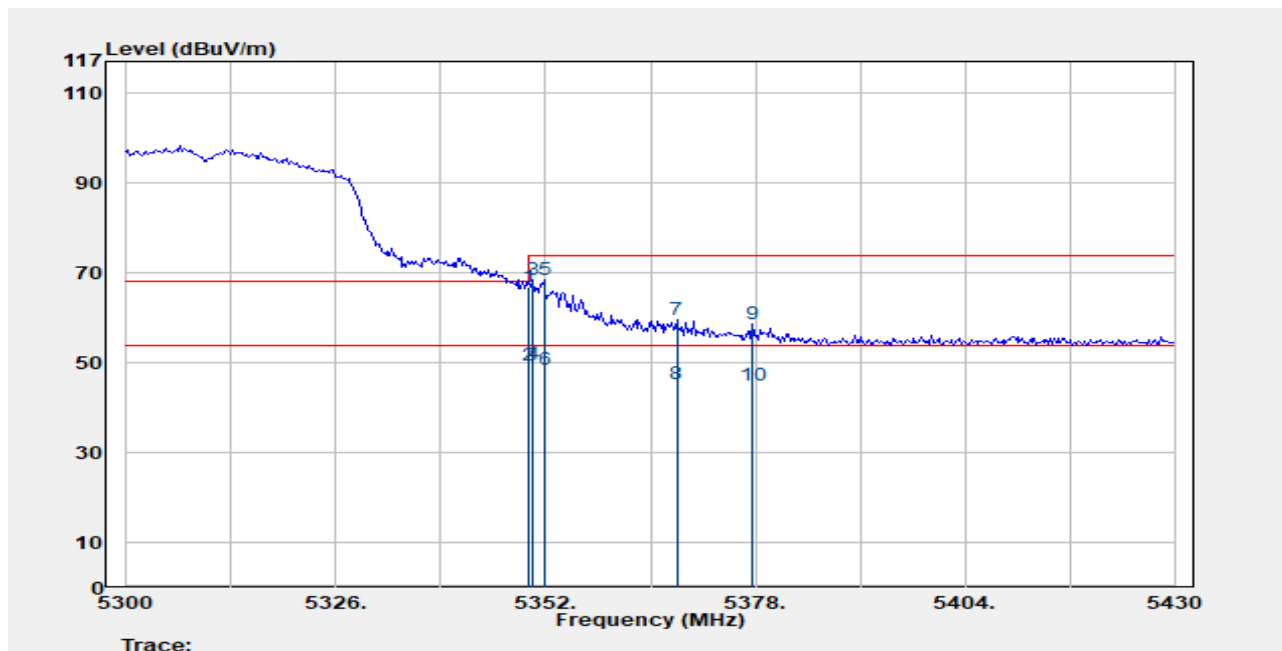
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Report Number :ER-2021-A0048
 Operation Mode :802.11n40
 Test Frequency :5310 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-09
 Temp./Humi. :25.9/65
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5350.000	Peak	58.78	8.12	66.90	74.00	-7.10
5350.000	Average	41.26	8.12	49.38	54.00	-4.62
5350.267	Peak	60.38	8.12	68.51	74.00	-5.49
5350.267	Average	41.53	8.12	49.65	54.00	-4.35
5351.783	Peak	60.40	8.12	68.53	74.00	-5.47
5351.783	Average	40.49	8.12	48.61	54.00	-5.39
5368.250	Peak	51.48	8.13	59.61	74.00	-14.39
5368.250	Average	37.16	8.13	45.29	54.00	-8.71
5377.567	Peak	50.47	8.13	58.60	74.00	-15.40
5377.567	Average	36.86	8.13	44.99	54.00	-9.01

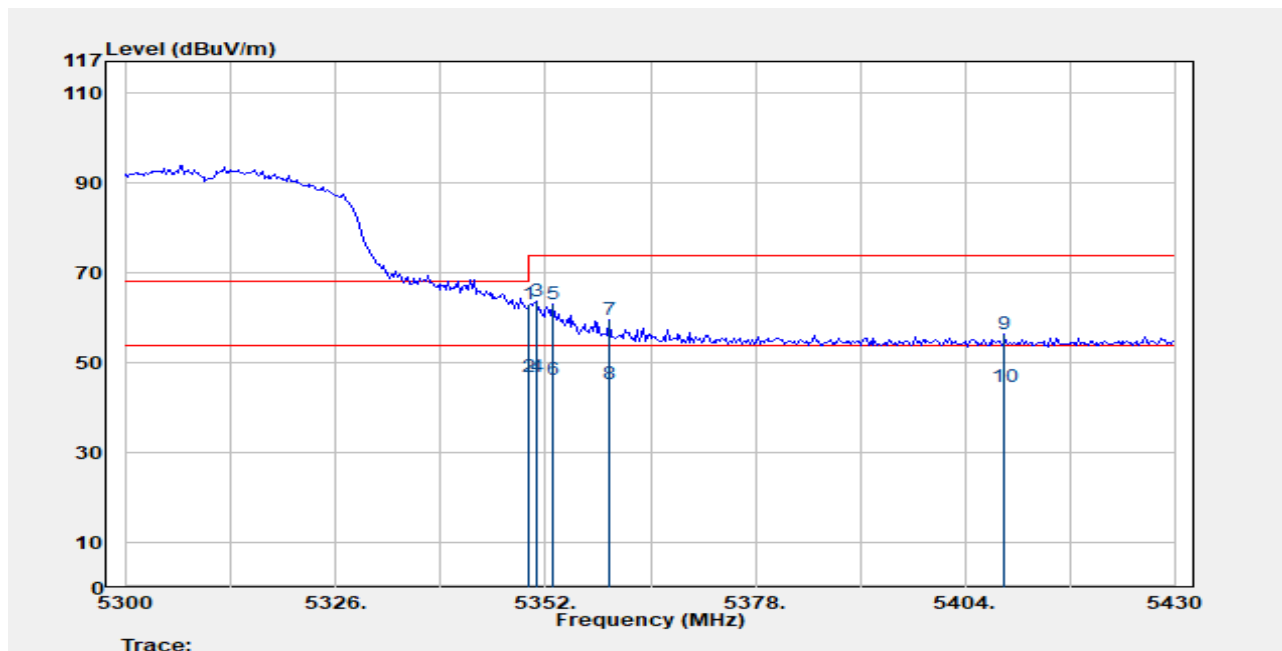
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Report Number :ER-2021-A0048
 Operation Mode :802.11n40
 Test Frequency :5310 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-09
 Temp./Humi. :25.9/65
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5350.000	Peak	54.89	8.12	63.01	74.00	-10.99
5350.000	Average	38.92	8.12	47.04	54.00	-6.96
5350.917	Peak	55.57	8.12	63.70	74.00	-10.30
5350.917	Average	38.72	8.12	46.84	54.00	-7.16
5352.867	Peak	54.93	8.13	63.05	74.00	-10.95
5352.867	Average	38.19	8.13	46.32	54.00	-7.68
5359.800	Peak	51.46	8.13	59.58	74.00	-14.42
5359.800	Average	37.22	8.13	45.35	54.00	-8.65
5408.983	Peak	48.25	8.12	56.37	74.00	-17.63
5408.983	Average	36.51	8.12	44.63	54.00	-9.37

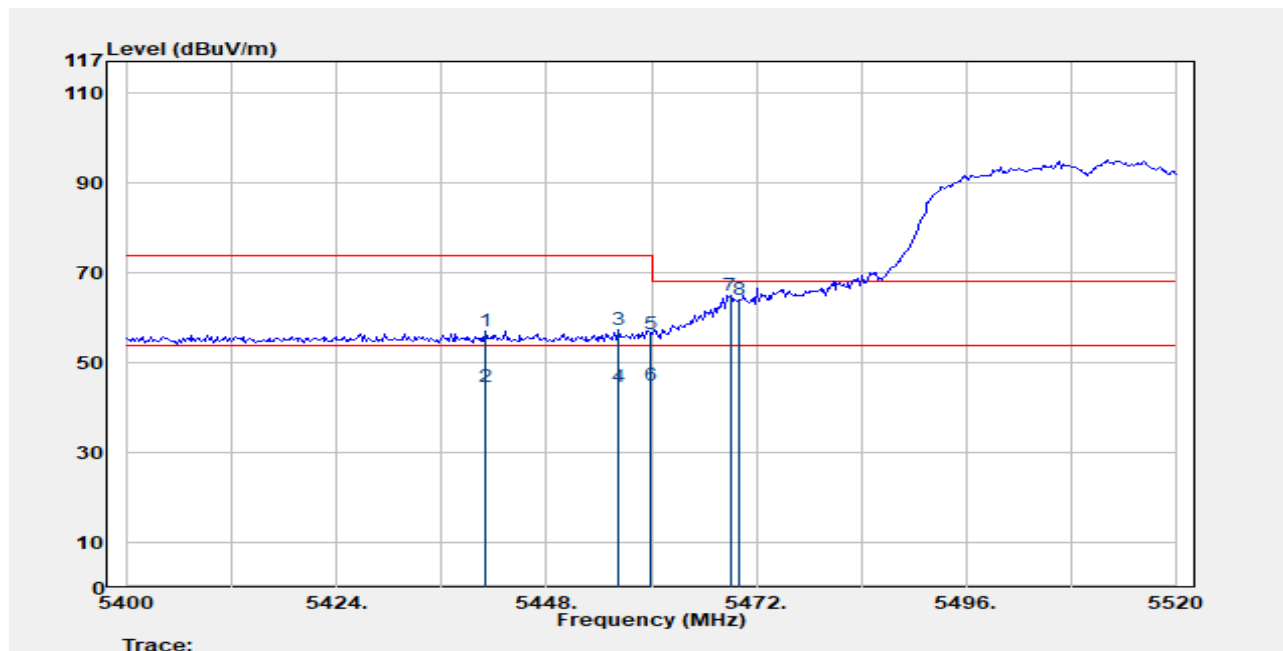
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Report Number :ER-2021-A0048
 Operation Mode :802.11n40
 Test Frequency :5510 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-09
 Temp./Humi. :25.9/65
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Freq. MHz	Detector Mode	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5441.000	Peak	49.07	8.07	57.14	74.00	-16.86
5441.000	Average	36.65	8.07	44.72	54.00	-9.28
5456.200	Peak	49.30	8.07	57.37	74.00	-16.63
5456.200	Average	36.79	8.07	44.86	54.00	-9.14
5460.000	Peak	48.40	8.07	56.47	74.00	-17.53
5460.000	Average	36.91	8.07	44.98	54.00	-9.02
5469.000	Peak	56.91	8.08	64.99	68.20	-3.21
5470.000	Peak	55.92	8.08	63.99	68.20	-4.21

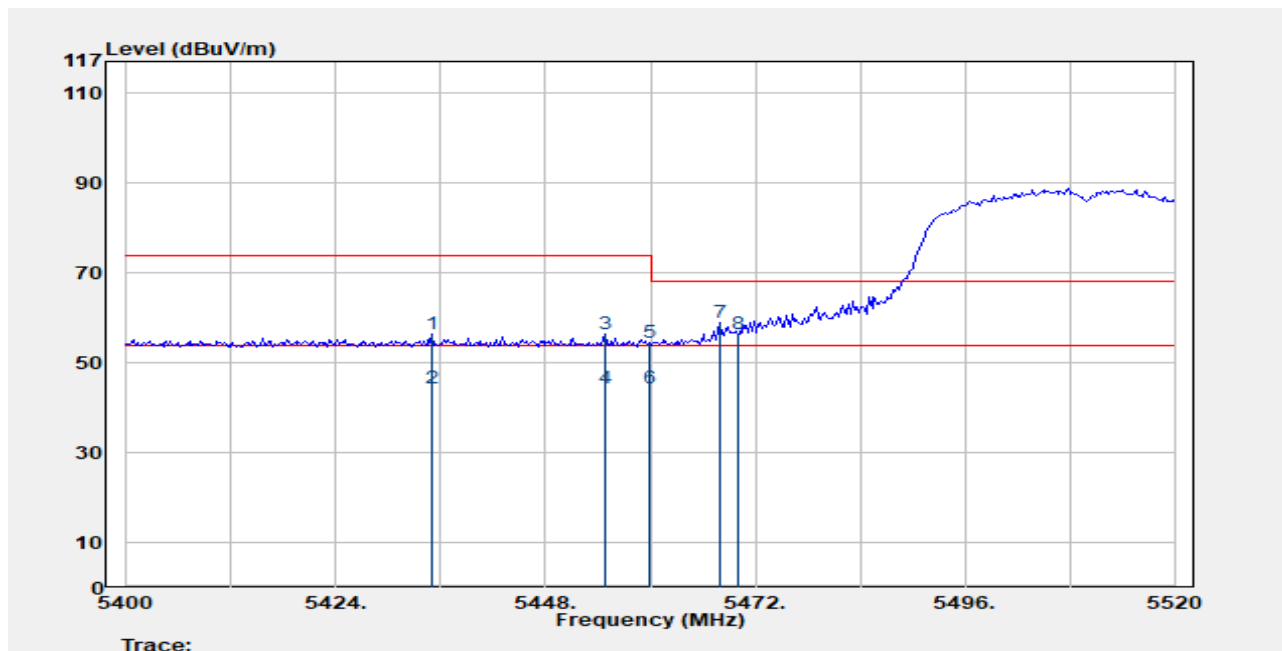
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Report Number :ER-2021-A0048
 Operation Mode :802.11n40
 Test Frequency :5510 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-09
 Temp./Humi. :25.9/65
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5435.000	Peak	48.32	8.08	56.40	74.00	-17.60
5435.000	Average	36.29	8.08	44.37	54.00	-9.63
5454.800	Peak	48.34	8.07	56.41	74.00	-17.59
5454.800	Average	36.39	8.07	44.46	54.00	-9.54
5460.000	Peak	46.42	8.07	54.49	74.00	-19.51
5460.000	Average	36.32	8.07	44.39	54.00	-9.61
5468.000	Peak	50.80	8.08	58.87	68.20	-9.33
5470.000	Peak	48.27	8.08	56.34	68.20	-11.86

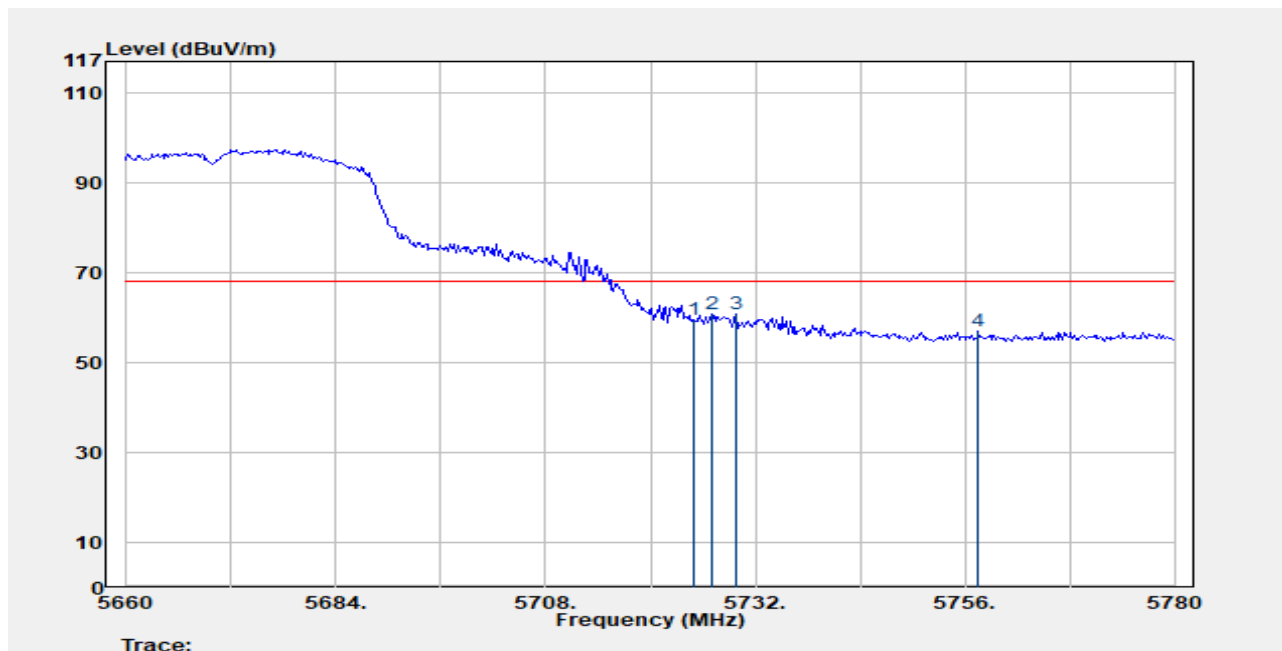
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Report Number :ER-2021-A0048
 Operation Mode :802.11n40
 Test Frequency :5670 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-09
 Temp./Humi. :25.9/65
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



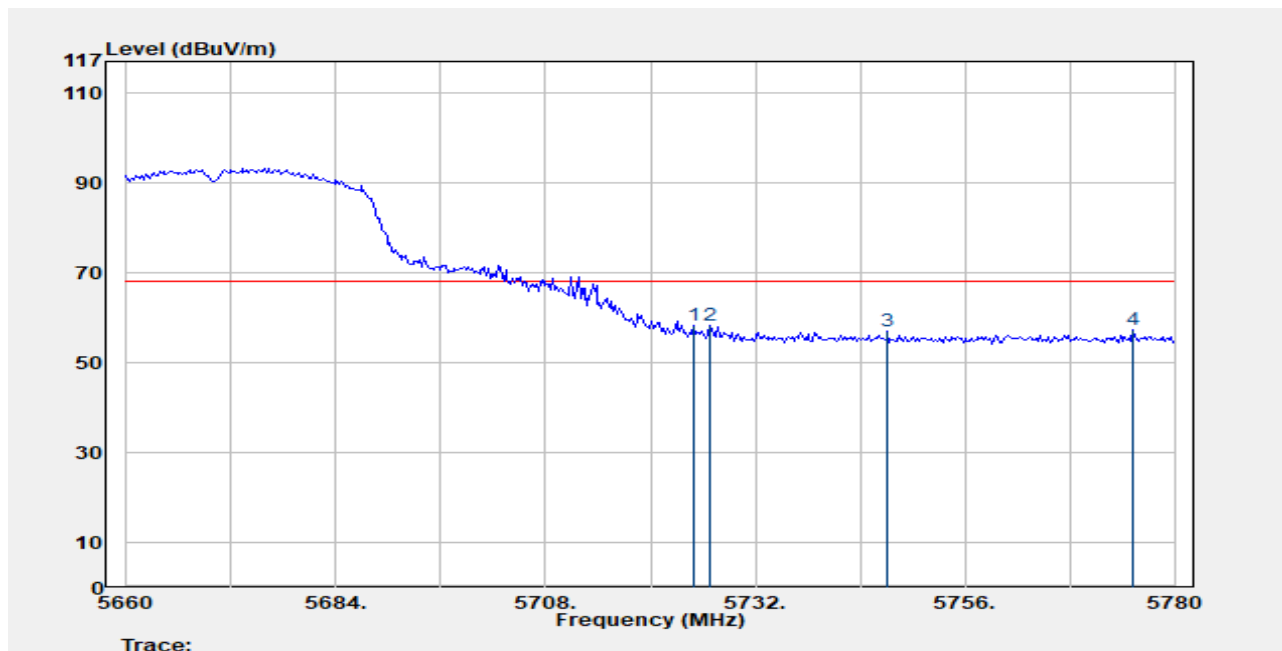
Trace:	Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
	5725.000	Peak	50.94	8.81	59.75	68.20	-8.45
	5727.000	Peak	52.11	8.82	60.93	68.20	-7.27
	5729.800	Peak	51.97	8.83	60.81	68.20	-7.39
	5757.600	Peak	48.14	8.98	57.12	68.20	-11.08

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Report Number	:ER-2021-A0048	Test Site	:SAC 3
Operation Mode	:802.11n40	Test Date	:2021-10-09
Test Frequency	:5670 MHz	Temp./Humi.	:25.9/65
Test Mode	:Bandedge CH High	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Ricky Chen



Trace:	Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
	MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
	5725.000	Peak	49.68	8.81	58.49	68.20	-9.71
	5726.800	Peak	49.44	8.82	58.26	68.20	-9.94
	5747.200	Peak	48.03	8.91	56.95	68.20	-11.25
	5775.200	Peak	48.28	9.10	57.38	68.20	-10.82

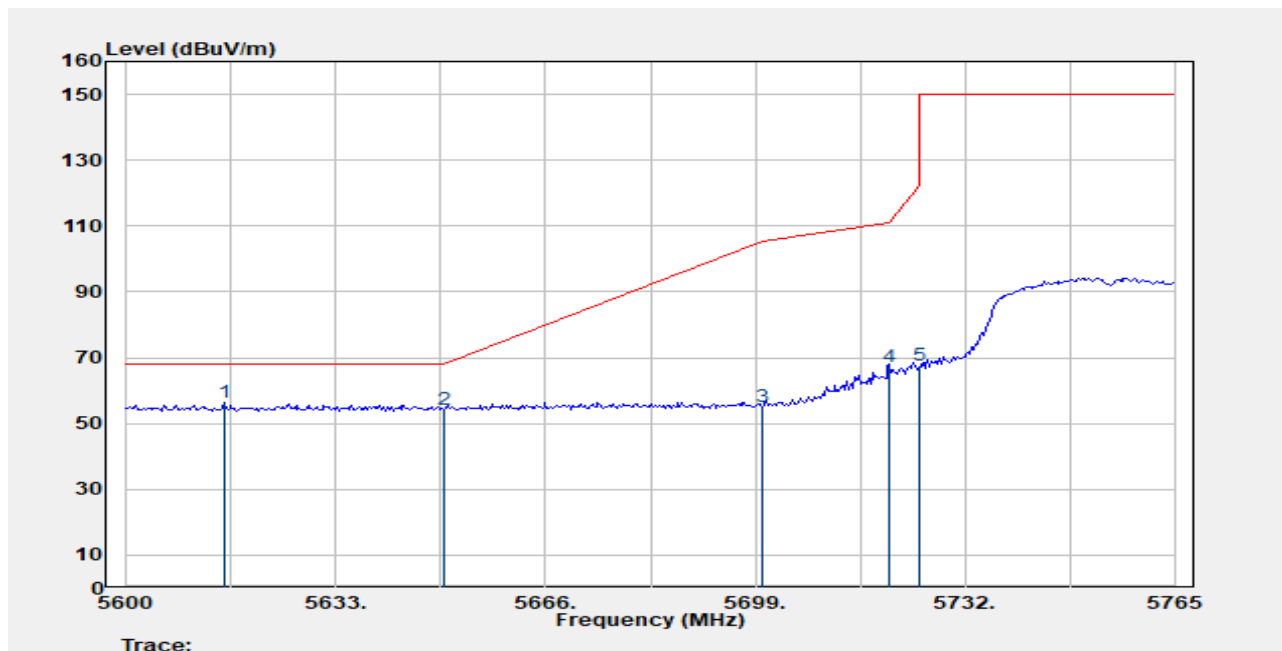
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Report Number :ER-2021-A0048
 Operation Mode :802.11n40
 Test Frequency :5755 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-09
 Temp./Humi. :25.9/65
 Antenna Pol. :Vertical
 Engineer :Ricky 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
5615.400	Peak	47.95	8.20	56.15	68.20	-12.05
5650.000	Peak	45.97	8.32	54.30	68.20	-13.90
5700.000	Peak	46.59	8.69	55.28	105.20	-49.92
5720.000	Peak	58.27	8.79	67.06	110.80	-43.74
5725.000	Peak	58.73	8.81	67.54	122.20	-54.66

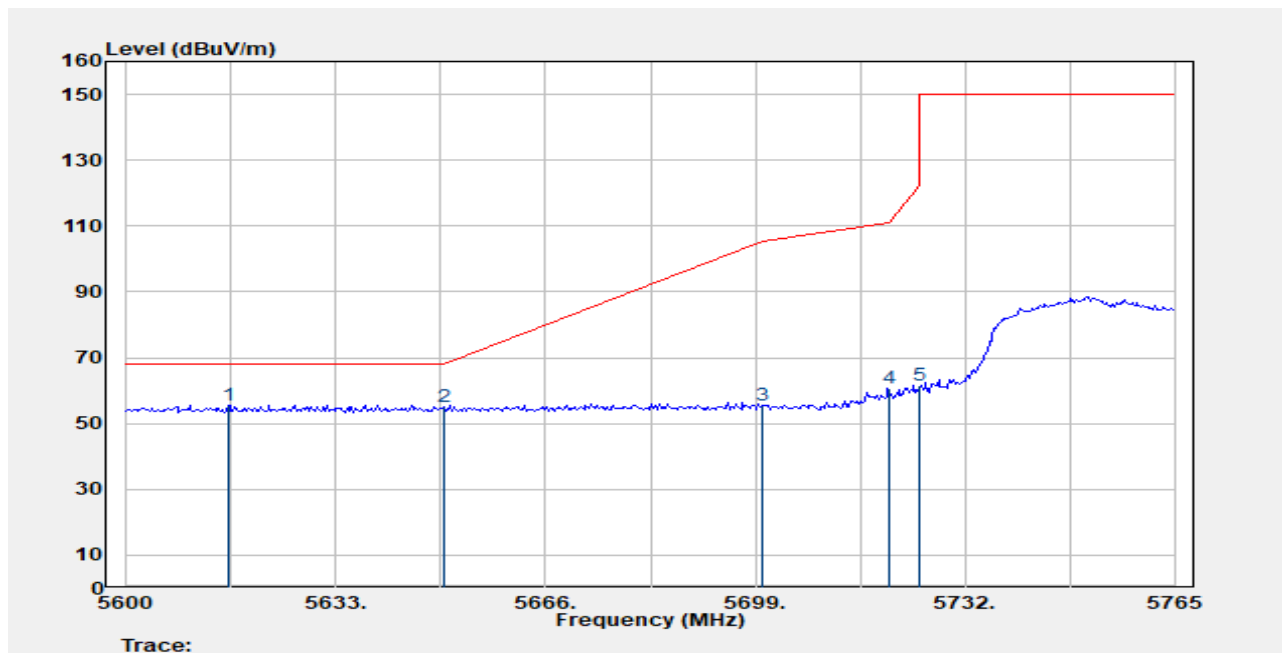
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Report Number :ER-2021-A0048
 Operation Mode :802.11n40
 Test Frequency :5755 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-09
 Temp./Humi. :25.9/65
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5615.950	Peak	47.46	8.21	55.67	68.20	-12.53
5650.000	Peak	46.53	8.32	54.86	68.20	-13.34
5700.000	Peak	46.96	8.69	55.65	105.20	-49.55
5720.000	Peak	51.97	8.79	60.76	110.80	-50.04
5725.000	Peak	52.71	8.81	61.52	122.20	-60.68

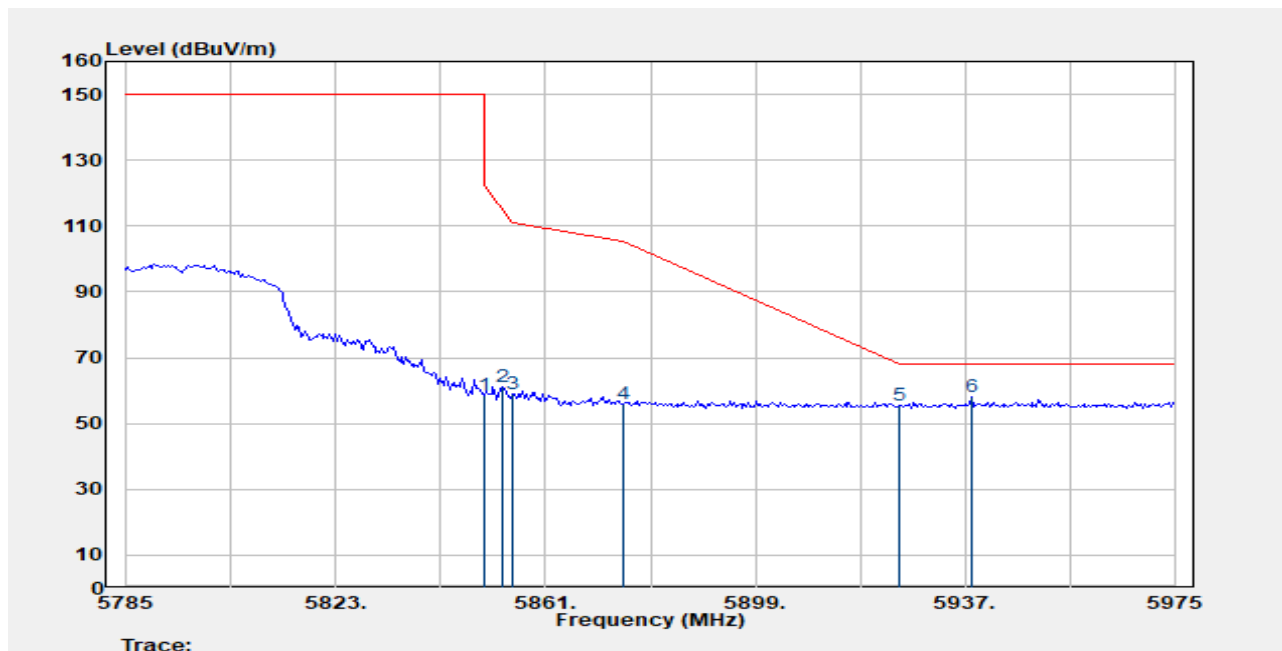
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Report Number :ER-2021-A0048
 Operation Mode :802.11n40
 Test Frequency :5795 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-09
 Temp./Humi. :25.9/65
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5850.000	Peak	49.11	9.42	58.54	122.20	-63.66
5853.083	Peak	51.84	9.43	61.27	115.17	-53.90
5855.000	Peak	49.36	9.44	58.80	110.80	-52.00
5875.000	Peak	46.51	9.50	56.01	105.20	-49.19
5925.000	Peak	45.88	9.65	55.53	68.20	-12.67
5938.267	Peak	48.39	9.68	58.07	68.20	-10.13

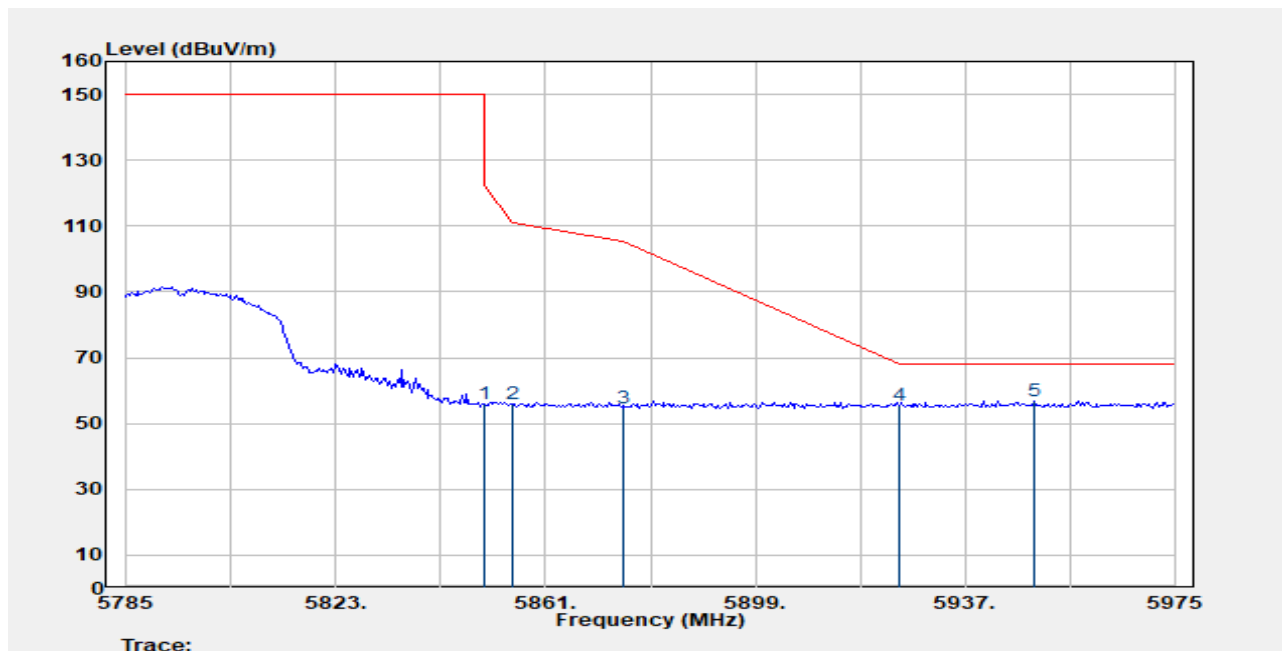
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Report Number :ER-2021-A0048
 Operation Mode :802.11n40
 Test Frequency :5795 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-09
 Temp./Humi. :25.9/65
 Antenna Pol. :Horizontal
 Engineer :Ricky 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
5850.000	Peak	46.49	9.42	55.92	122.20	-66.28
5855.000	Peak	46.31	9.44	55.75	110.80	-55.05
5875.000	Peak	45.28	9.50	54.78	105.20	-50.42
5925.000	Peak	46.02	9.65	55.67	68.20	-12.53
5949.667	Peak	47.08	9.71	56.79	68.20	-11.41

~ End of Report ~

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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