

# ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

**Applicant:** Askey Computer Corporation  
10F, No 119, JianKang Rd., Zhonghe Dist., New Taipei City,  
Taiwan 23585

**Product Name:** Cat 12 Indoor CPE

**Brand Name:** Verizon

**Model No.:** ASK-RTL108

**Model Difference:** N/A

**Report Number:** E2/2019/B0014

**FCC ID:** H8N-ASK-RTL108

**FCC Rule Part:** §15.407, Cat: NII

**Issue Date:** Mar. 04, 2020

**Date of Test:** Nov. 26, 2019 ~ Mar. 04, 2020

**Date of EUT Re-  
ceived:** Nov. 26, 2019

**We hereby certify that:**

The above equipment was tested by SGS Taiwan Ltd. Electronics & Communication Laboratory. 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 tested as described in this report is in compliance with conducted and radiated emission limits.

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

**Approved By:**

CHUN-CHIEH, CHEN

**Chun Chieh Chen / Supervisor**



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## Revision History

Report Number	Revision	Description	Issue Date	Remark
E2/2019/B0014	Rev.00	Original.	Mar. 04, 2020	Revised By: Yuri Tsai

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# 1 GENERAL INFORMATION

## 1.1 Product Description

Product Name:	Cat 12 Indoor CPE	
Brand Name:	Verizon	
Model No.:	ASK-RTL108	
Model Difference:	N/A	
Hardware Version:	REV 3.0	
Software Version:	N/A	
Power Supply:	12Vdc from AC/DC Adapter	
	Adapter:	1. Model No.:PS24L120K2000UD, Supplier: FLYPOWER 2. Model No.:WB-24J12FU, Supplier: Asian Power Devices Inc.
Modulation type	64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 802.11ac only	
Antenna Designation	PIFA Antenna 5150~5250MHz Gain: 3.26dBi (ANT1) / 3.54dBi (ANT2) 5725~5850MHz Gain: 3.04dBi (ANT1) / 2.61dBi (ANT2)	
Transition Rate:	802.11 a: 6/9/12/18/24/36/48/54 Mbps 802.11 n_20MHz: 6.5 – 144.4Mbps 802.11 n_40MHz: 13.5 – 300.0Mbps 802.11 ac_20MHz: 6.5 –173.3Mbps 802.11 ac_40MHz: 13.5 –400.0Mbps 802.11 ac_80MHz: 29.3 – 866.7Mbps	

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## 1.2 FCC worst power

Wi-Fi 802.11	Frequency Range	Channels	Rated Power (Avg.) (dBm) (Worst case)	Modulation Technology
a	5150~5250	4	22.09	OFDM
	5725-5850	5	20.91	
n_HT ac_VHT 20M	5150~5250	4	HT: 21.83	OFDM
	5725-5850	5	HT: 20.97	
n_HT ac_VHT 40M	5150~5250	2	HT: 22.01	OFDM
	5725-5850	2	HT: 21.35	
ac_VHT 80M	5150~5250	1	VHT: 16.96	OFDM
	5725-5850	1	VHT: 20.11	

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### 1.3 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  
ANSI C63.10:2013

### 1.4 Test Facility

SGS Taiwan Ltd. Electronics & Communication Laboratory (TAF code 0513)  
No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333

FCC Designation number: TW0002

### 1.5 Special Accessories

There are no special accessories used while test was conducted.

### 1.6 Equipment Modifications

There was no modification incorporated into the EUT.

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## 2 SYSTEM TEST CONFIGURATION

### 2.1 EUT Configuration

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

### 2.2 EUT Exercise

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

### 2.3 Test Procedure

#### 2.3.1 Conducted Emissions

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

#### 2.3.2 Conducted Test (RF)

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

#### 2.3.3 Radiated Emissions

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

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## 2.4 Measurement Results Explanation Example

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.

### Note:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

## 2.5 Configuration of Tested System

**Fig. 2-1 Radiated Emission configuration & Conduction (AC Power Line)**



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



**Table 2-1 Equipment Used in Tested System**

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1.	WLAN Test Software	N/A	N/A	N/A	N/A	N/A
2.	Notebook	Lenovo	T460p	P0001013	Shielded	Unshielded

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### 3 SUMMARY OF TEST RESULT

FCC Rules	Description Of Test	Result
§15.207	AC Power Line Conducted Emission	Compliant
§15.403(i) §15.407(e)	26 dB & 6dB Emission Bandwidth	Compliant
§15.407(a)	Maximum Conducted Output Power	Compliant
§15.407(a)	Power Spectral Density	Compliant
§15.205 §15.209 §15.407(b)	Undesirable Radiated Emissions	Compliant
§15.407(c)	Transmission in case of Absence of Information	Compliant
§15.407(g)	Frequency Stability	Compliant
§15.203 §15.407(a)	Antenna Requirement	Compliant

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## 4 DESCRIPTION OF TEST MODES

### 4.1 802.11a/n/ac operated in U-NII Bands

#### Operated band in 5150 MHz ~5250 MHz:

20 M	
CH	Freq (MHz)
36	5180
40	5200
44	5220
48	5240

40 M	
CH	Freq (MHz)
38	5190
46	5230

80 M	
CH	Freq (MHz)
42	5210

#### Operated band in 5745 MHz ~5850 MHz:

20 M	
CH	Freq (MHz)
149	5745
153	5765
157	5785
161	5805
165	5825

40 M	
CH	Freq (MHz)
151	5755
159	5795

80 M	
CH	Freq (MHz)
155	5775

### 4.2 The Worst Test Modes and Channel Details

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

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

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

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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	36,44,48	OFDM	6	2TX
	5745~5825	149 to 165	149,157,165			
802.11ac_VHT80	5210	42	42		MCS0	MIMO
	5775	155	155			

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	2TX
	5745~5825	149 to 165	149,157,165			
802.11n_HT20	5180~5240	36 to 48	36,44,48		MCS8 / 0	MIMO
802.11ac_VHT20	5745~5825	149 to 165	149,157,165			
802.11n_HT40	5190~5230	38 to 46	38,46		MCS8 / 0	MIMO
802.11ac_VHT40	5755~5795	151 to 159	151,159			
802.11ac_VHT80	5210	42	42		MCS0	MIMO
	5775	155	155			

**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/ac WLAN Transmitter for channel Low, Mid and High, the worst case E2 position was reported.

**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	2TX
	5745~5825	149 to 165	149,157,165			
802.11n_HT20	5180~5240	36 to 48	36,44,48		MCS8	MIMO
	5745~5825	149 to 165	149,157,165			
802.11ac_VHT20	5180~5240	36 to 48	36,44,48		MCS0	MIMO
	5745~5825	149 to 165	149,157,165			
802.11n_HT40	5190~5230	38 to 46	38,46		MCS8	MIMO
	5755~5795	151 to 159	151,159			
802.11ac_VHT40	5190~5230	38 to 46	38,46		MCS0	MIMO
	5755~5795	151 to 159	151,159			
802.11ac_VHT80	5210	42	42		MCS0	MIMO
	5775	155	155			

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## 5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 2.586 dB
26dB & 6dB Emission Bandwidth	+/- 123.36 Hz
The Maximum Output Power Measurement	+/- 0.96 dB
Peak Power Spectral Density Measurement	+/- 1.67 dB
Frequency Stability	+/- 123.36 Hz
Temperature	+/- 0.65 °C
Humidity	+/- 4.6 %
DC / AC Power Source	DC= +/- 0.13%, AC=+/- 0.2%

Radiated Spurious Emission Measurement Uncertainty	
Polarization: Vertical	9kHz~30MHz: +2.3dB
	30MHz - 180MHz: +/- 3.37dB
	180MHz -417MHz: +/- 3.19dB
	0.417GHz-1GHz: +/- 3.19dB
	1GHz - 18GHz: +/- 4.04dB
	18GHz - 40GHz: +/- 4.04dB
Polarization: Horizontal	9kHz~30MHz: +2.3dB
	30MHz - 167MHz: +/- 4.22dB
	167MHz -500MHz: +/- 3.44dB
	0.5GHz-1GHz: +/- 3.39dB
	1GHz - 18GHz: +/- 4.08dB
	18GHz - 40GHz: +/- 4.08dB

### 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 CONDUCTED EMISSION TEST

### 6.1 Standard Applicable

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

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

Note

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

### 6.2 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
LISN	TESEQ	NNB 51	36076	02/13/2019	02/12/2020
EMI Test Receiver	R&S	ESCI	101342	04/26/2019	04/25/2020

### 6.3 EUT Setup

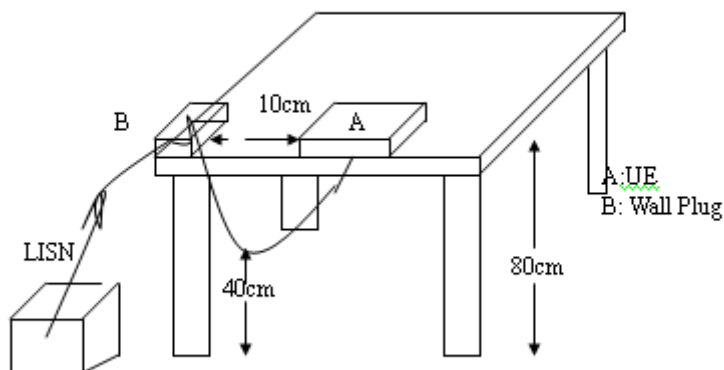
1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2013.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The rear of the EUT and peripherals were placed flushed with the rear of the tabletop.
3. The LISN was connected with 120Vac/60Hz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

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## 6.4 Test SET-UP



## 6.5 Measurement Procedure

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

## 6.6 Measurement Result

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

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

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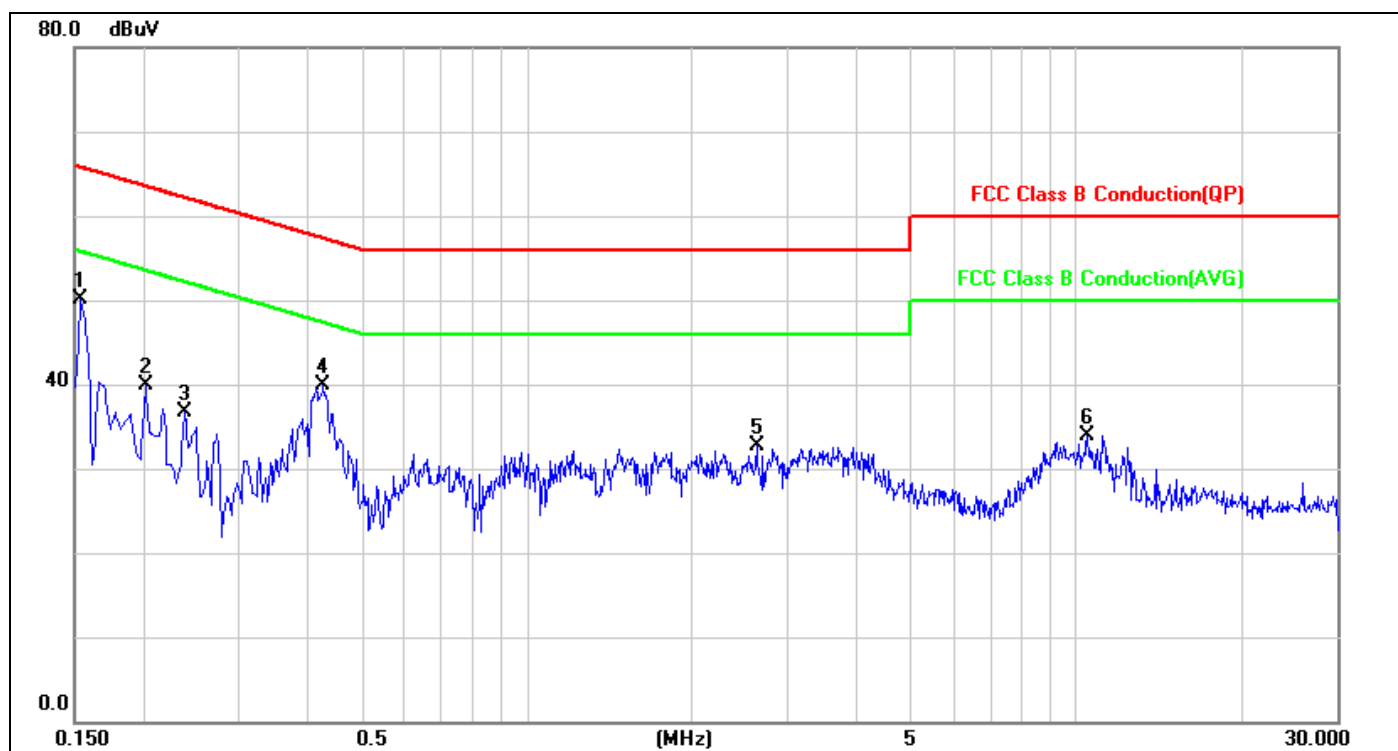
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## AC POWER LINE CONDUCTED EMISSION TEST DATA

Description:	Operation (5G)	Date:	2019/12/18
Line:	L1	Temp.(°C)/Hum.(%):	22.6(°C)/69%
Test Voltage:	AC 120V/60Hz	Test By:	Kailin
Reoprt Number:	E2/2019/B0014		
Note:	Adapter - PS24L120K2000UD		



No.	Mk.	Freq. ( MHz )	Reading ( dBuV )	Factor ( dB )	Measurement ( dBuV )	Limit ( dBuV )	Over ( dB )	Detector
1	*	0.1540	30.55	19.47	50.02	65.78	-15.76	peak
2		0.2020	20.26	19.55	39.81	63.53	-23.72	peak
3		0.2380	17.19	19.58	36.77	62.17	-25.40	peak
4		0.4260	20.14	19.71	39.85	57.33	-17.48	peak
5		2.6340	12.83	19.97	32.80	56.00	-23.20	peak
6		10.5260	14.01	19.97	33.98	60.00	-26.02	peak

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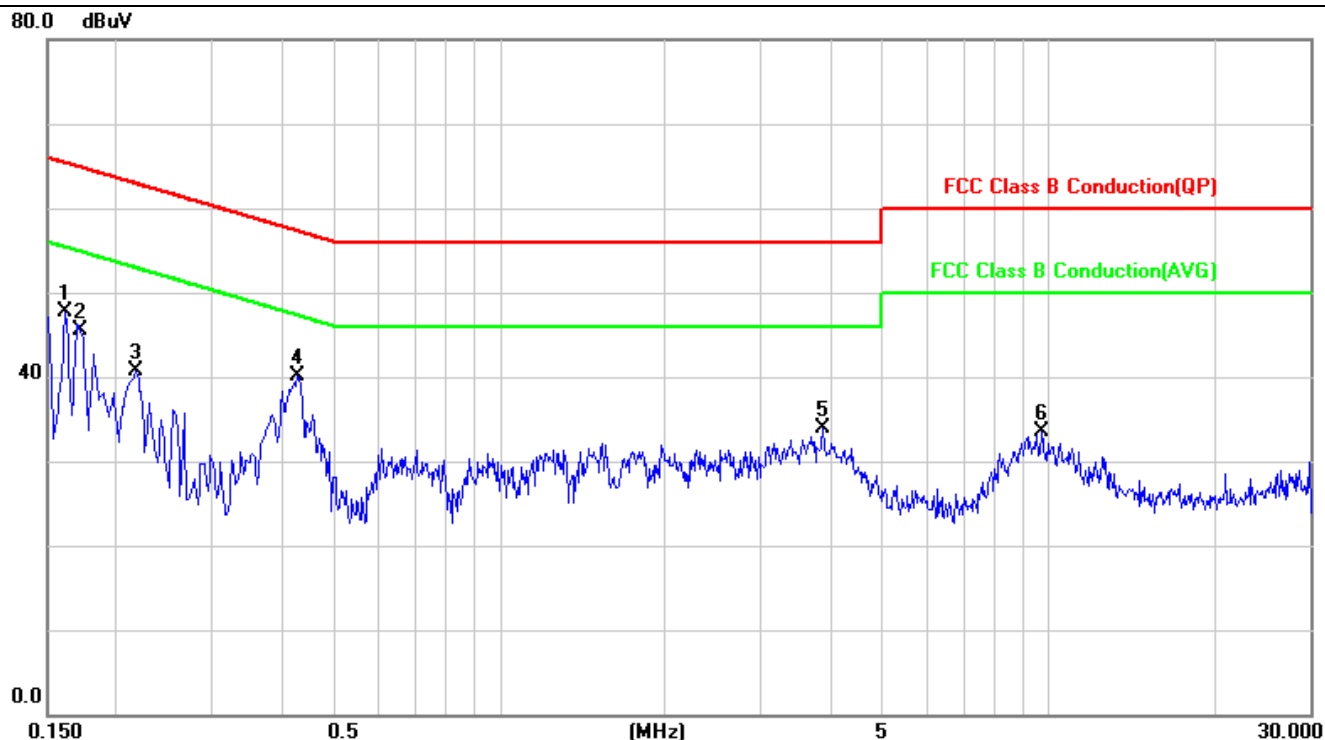
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<b>Description:</b>	Operation (5G)	<b>Date:</b>	2019/12/18
<b>Line:</b>	N	<b>Temp.(°C)/Hum.(%):</b>	22.6(°C)/69%
<b>Test Voltage:</b>	AC 120V/60Hz	<b>Test By:</b>	Kailin
<b>Reoprt Number:</b>	E2/2019/B0014		
<b>Note:</b>	Adapter - PS24L120K2000UD		



No.	Mk.	Freq. ( MHz )	Reading ( dBuV )	Factor ( dB )	Measurement ( dBuV )	Limit ( dBuV )	Over ( dB )	Detector
1		0.1620	27.97	19.71	47.68	65.36	-17.68	peak
2		0.1722	25.68	19.73	45.41	64.85	-19.44	peak
3		0.2180	20.82	19.79	40.61	62.89	-22.28	peak
4	*	0.4300	20.12	19.92	40.04	57.25	-17.21	peak
5		3.8860	13.74	20.16	33.90	56.00	-22.10	peak
6		9.7300	13.26	20.20	33.46	60.00	-26.54	peak

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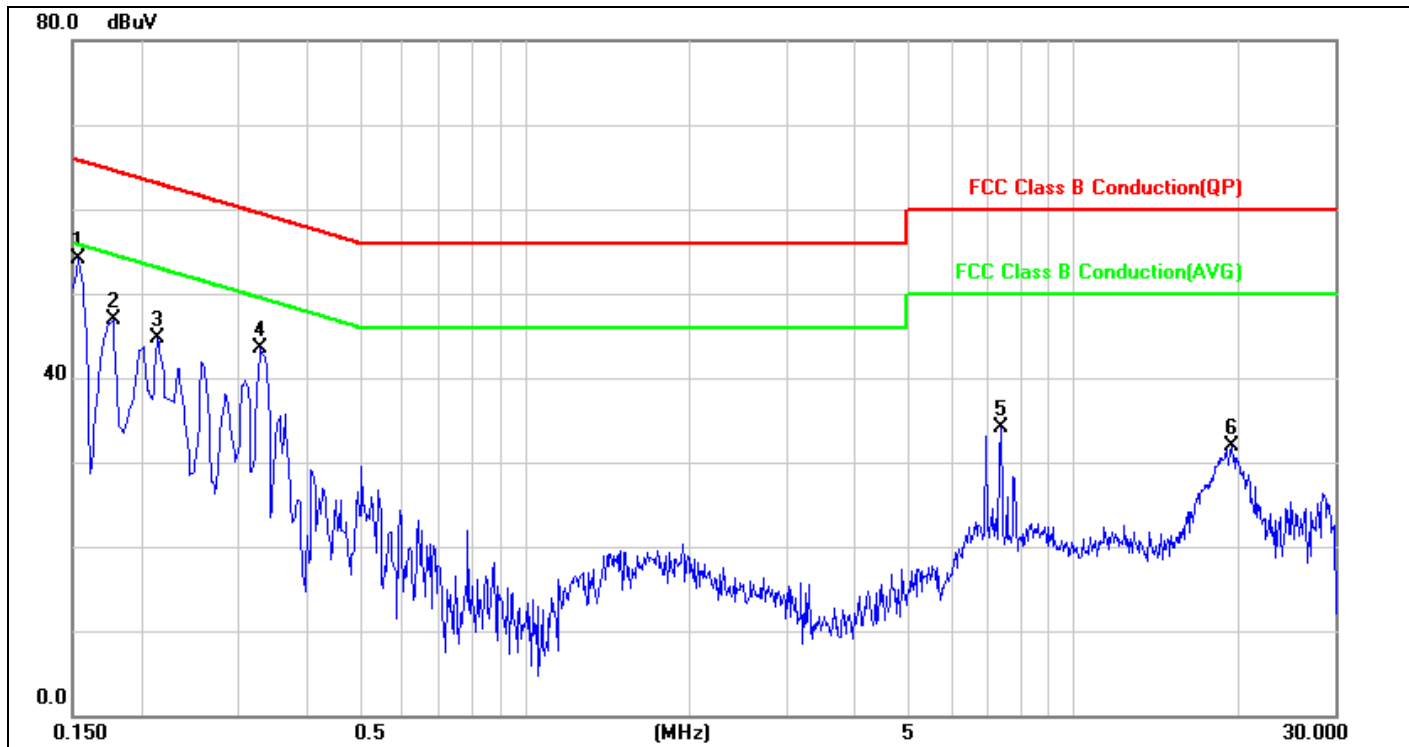
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<b>Description:</b>	Operation (5G)	<b>Date:</b>	2019/12/18
<b>Line:</b>	L1	<b>Temp.(°C)/Hum.(%):</b>	22.7(°C)/68%
<b>Test Voltage:</b>	AC 120V/60Hz	<b>Test By:</b>	Kailin
<b>Reoprt Number:</b>	E2/2019/B0014		
<b>Note:</b>	Adapter - WB-24J12FU		



No.	Mk.	Freq. ( MHz )	Reading ( dBuV )	Factor ( dB )	Measurement ( dBuV )	Limit ( dBuV )	Over ( dB )	Detector
1	*	0.1540	54.03	0.04	54.07	65.78	-11.71	peak
2		0.1780	46.75	0.09	46.84	64.58	-17.74	peak
3		0.2140	44.55	0.13	44.68	63.05	-18.37	peak
4		0.3300	43.45	0.13	43.58	59.45	-15.87	peak
5		7.3780	33.61	0.42	34.03	60.00	-25.97	peak
6		19.4340	31.02	0.87	31.89	60.00	-28.11	peak

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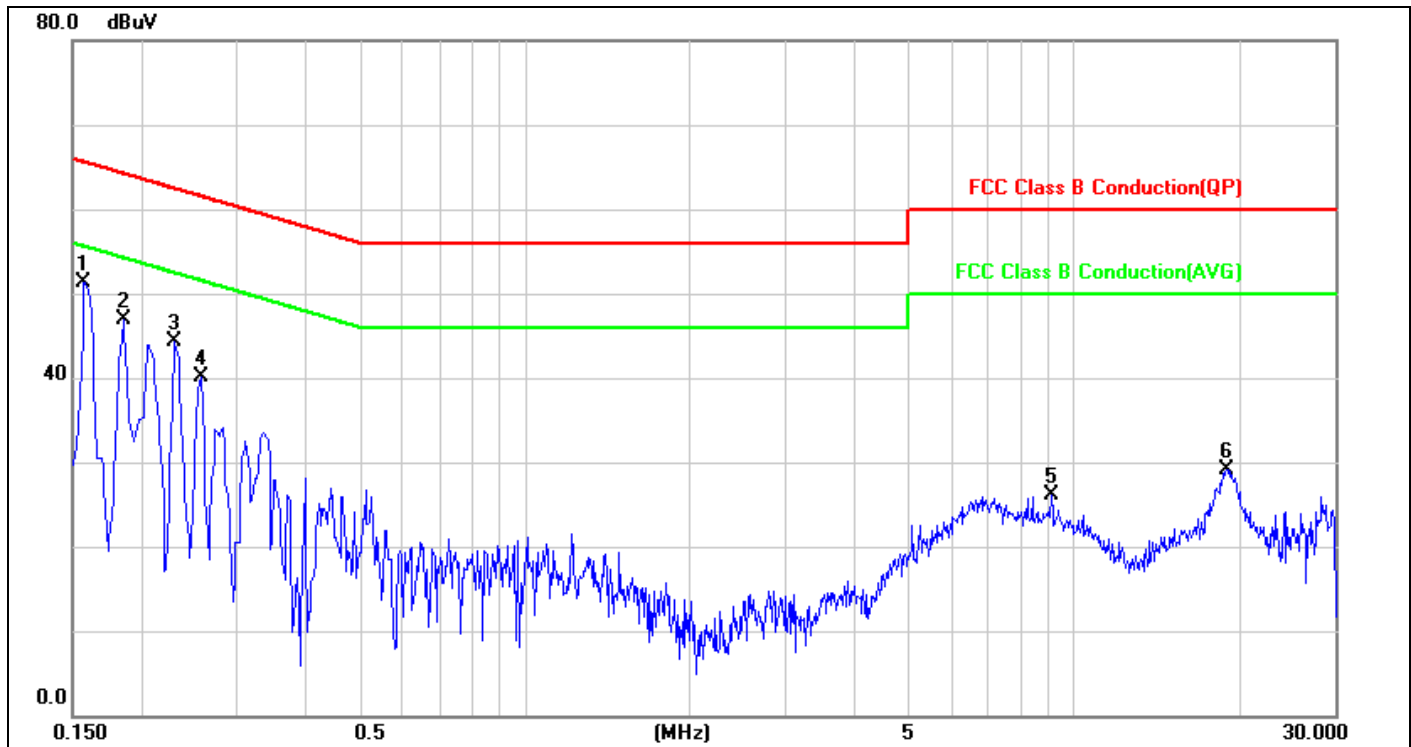
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<b>Description:</b>	Operation (5G)	<b>Date:</b>	2019/12/18
<b>Line:</b>	N	<b>Temp.(°C)/Hum.(%):</b>	22.7(°C)/68%
<b>Test Voltage:</b>	AC 120V/60Hz	<b>Test By:</b>	Kailin
<b>Reoprt Number:</b>	E2/2019/B0014		
<b>Note:</b>	Adapter - WB-24J12FU		



No.	Mk.	Freq. ( MHz )	Reading ( dBuV )	Factor ( dB )	Measurement ( dBuV )	Limit ( dBuV )	Over ( dB )	Detector
1	*	0.1580	51.31	0.04	51.35	65.57	-14.22	peak
2		0.1860	46.75	0.08	46.83	64.21	-17.38	peak
3		0.2300	44.23	0.11	44.34	62.45	-18.11	peak
4		0.2580	39.98	0.11	40.09	61.50	-21.41	peak
5		9.1540	25.84	0.36	26.20	60.00	-33.80	peak
6		19.0300	28.59	0.55	29.14	60.00	-30.86	peak

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## 7 DUTY CYCLE TEST SIGNAL

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

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

### 7.1 Measurement Procedure:

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

Duty Cycle:

Mode	Duty Cycle (%) =Ton / (Ton+Toff)	Duty Factor (dB) =10*log ( 1/Duty Cycle )	1/T (kHz)	VBW setting (kHz)
802.11a	95.06	0.22	0.48	1.00
802.11n_20	84.55	0.73	1.02	2.00
802.11ac_20	84.55	0.73	1.02	2.00
802.11n_40	82.23	0.85	2.02	3.00
802.11ac_40	82.23	0.85	2.02	3.00
802.11ac_80	81.46	0.89	2.16	3.00

Duty Cycle Factor:  $10 * \log(1/0.9506) = 0.22$

Duty Cycle Factor:  $10 * \log(1/0.8455) = 0.73$

Duty Cycle Factor:  $10 * \log(1/0.8455) = 0.73$

Duty Cycle Factor:  $10 * \log(1/0.8223) = 0.85$

Duty Cycle Factor:  $10 * \log(1/0.8223) = 0.85$

Duty Cycle Factor:  $10 * \log(1/0.8146) = 0.89$

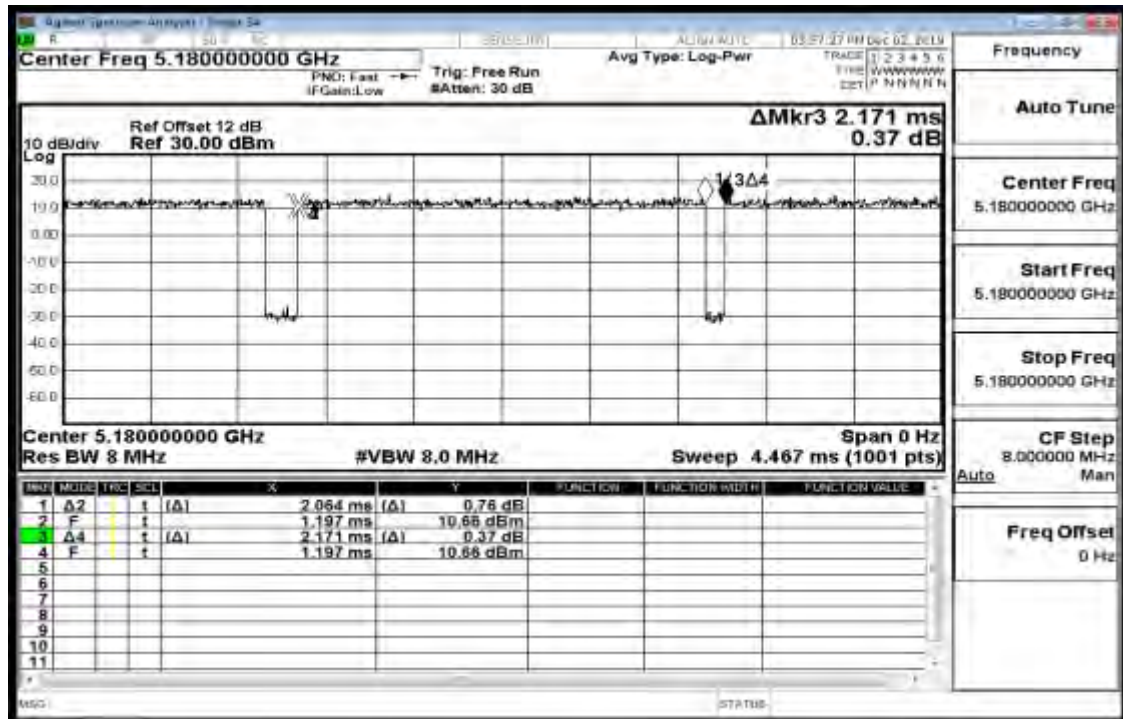
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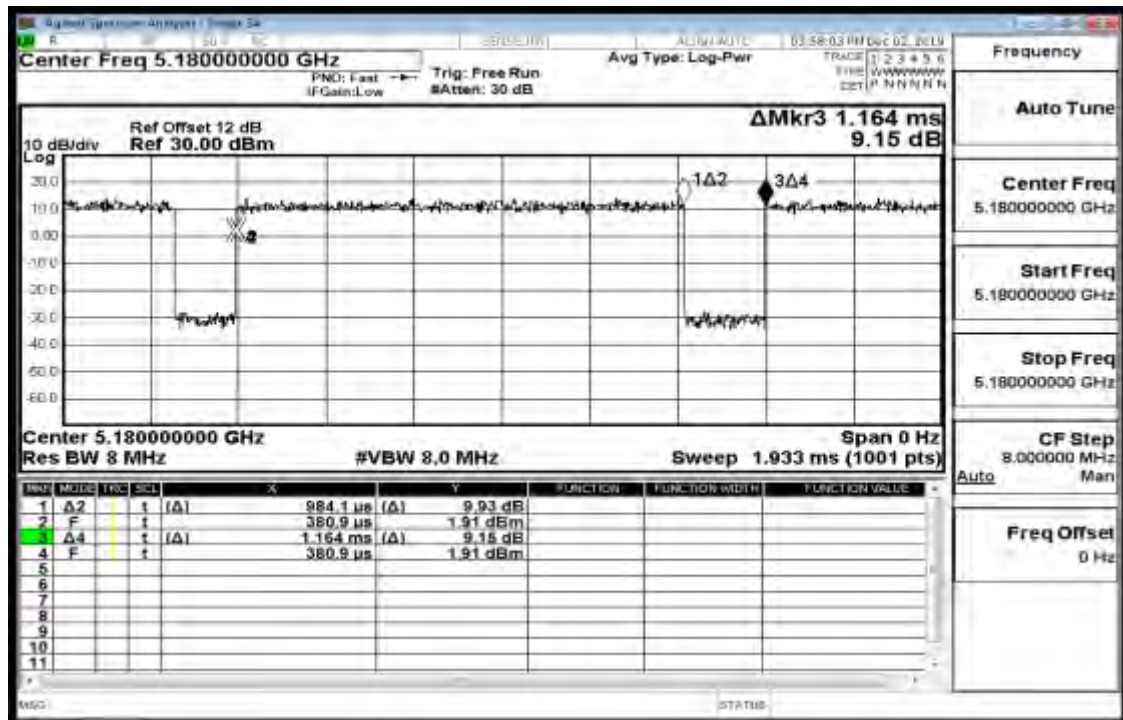
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## 7.2 DUTY CYCLE TEST SIGNAL MEASUREMENT RESULT

802.11a



802.11n HT20



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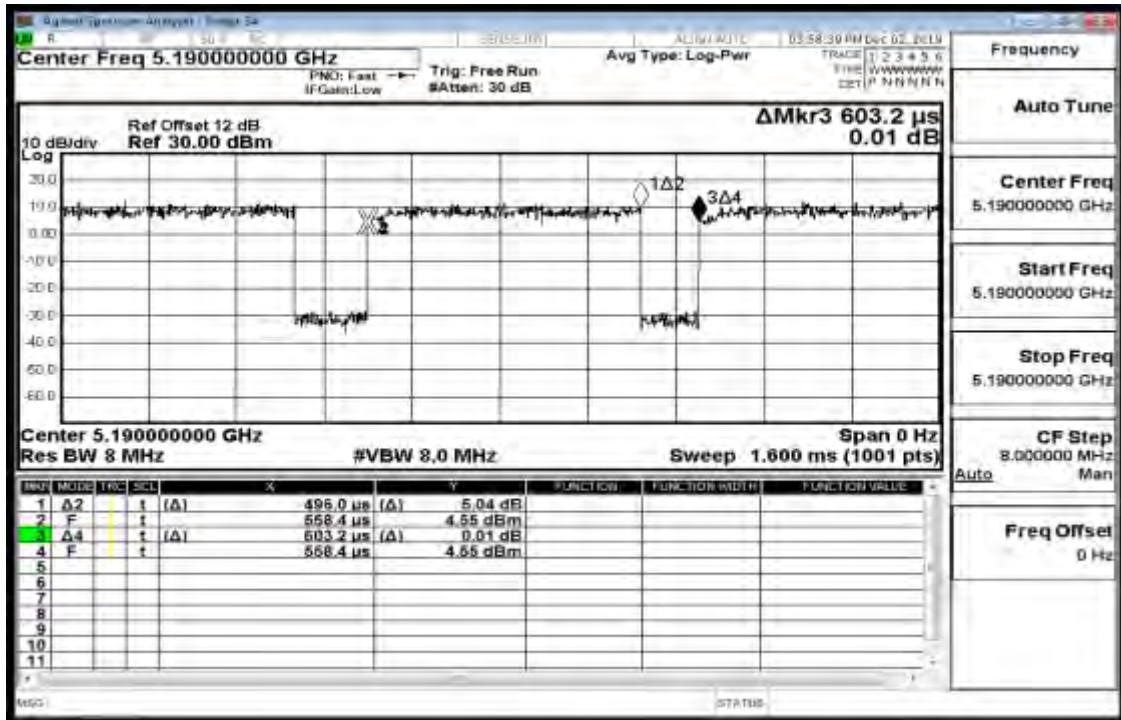
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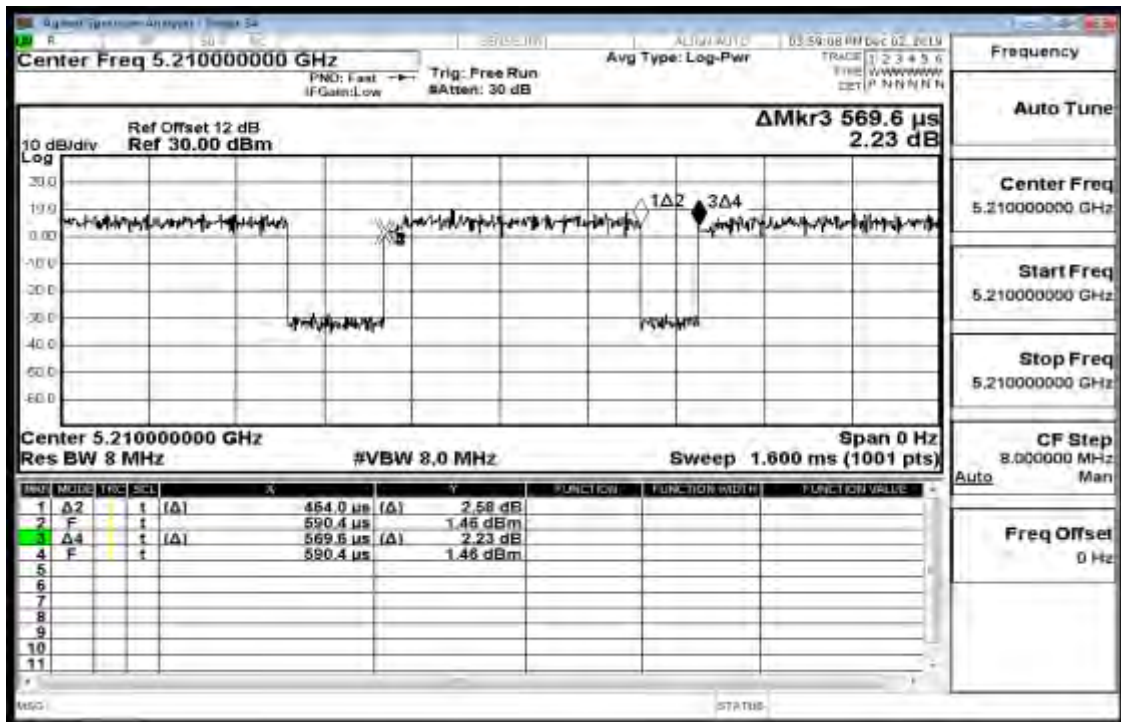
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## 802.11n HT 40



## 802.11 ac 80



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## 8 26DB &6DB EMISSION BANDWIDTH MEASUREMENT

### 8.1 Standard Applicable

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

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

### 8.2 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the Antenna port to the spectrum analyzer.
  - 3.a. 26dB Band width Measurement: Set the spectrum analyzer as 1% of emission BW  
Sweep=auto,  
Detector = Peak,  
Trace Mode = Max Hold,  
Manually readjust RBW until the RBW/EBW ratio is 1% based on EBW as observed on the result of pre-sequence measurement.
  - 3.b. Mark the peak frequency and -26dB (upper and lower) frequency.
4. Repeat the procedures as list above until all test default channels (low, middle, and high) are completed.
5. Minimum Emission Bandwidth for the band 5.725-5.850GHz.
  - a. Set the spectrum analyzer as  
RBW = 100 kHz,  
VBW = 3\*RBW,  
Span = 30M/50MHz,  
Detector=Peak,  
Sweep=auto
  - b. Mark the peak frequency and -6dB (upper and lower) frequency.

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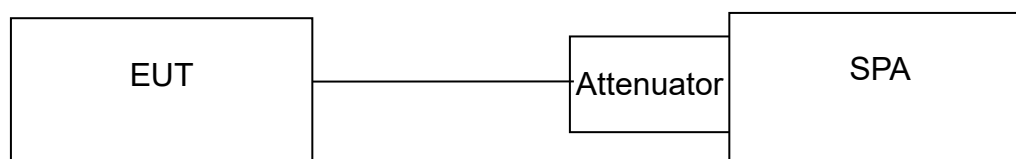
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### 8.3 Measurement Equipment Used

SGS Conducted Room					
Name of Equip-ment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
DC Block	PASTERNAK	PE8210	RF32	11/20/2019	11/19/2020
Spectrum Analyzer	Agilent	N9010A	MY57120200	03/06/2019	03/05/2020
Attenuator	Marvelous	MVE2213-10	RF31	11/20/2019	11/19/2020

### 8.4 Test Set-up



### 8.5 Measurement Result

#### 8.5.1 FCC 26dB Bandwidth

802.11a\_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	21.57	13.339
5220	23.81	13.768
5240	23.63	13.735

802.11a\_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	19.48	12.896
5220	20.93	13.208
5240	21.44	13.312

802.11n\_HT20\_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	21.23	13.269
5220	21.26	13.276
5240	21.33	13.290

802.11n\_HT20\_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	19.76	12.958
5220	23.75	13.757
5240	20.15	13.043

802.11ac\_VHT20\_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	19.9	12.989
5220	21.43	13.310
5240	20.45	13.107

802.11ac\_VHT20\_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	20.38	13.092
5220	19.89	12.986
5240	20.27	13.069

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802.11n\_HT40\_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	39.53	15.969
5230	41.27	16.156

802.11n\_HT40\_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	40.15	16.037
5230	40.67	16.093

802.11ac\_VHT40\_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	39.67	15.985
5230	46.27	16.653

802.11ac\_VHT40\_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	39.96	16.016
5230	41.31	16.161

802.11ac\_VHT80\_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	81.32	19.102

802.11ac\_VHT80\_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	81.31	19.101

## 8.5.2 6dB Bandwidth (5725 MHz~ 5850 MHz) measure with Peak detector for FCC

802.11a\_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	15.05	11.775
5785	15.81	11.989
5825	14.43	11.593

802.11a\_Ch1

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	15.55	11.917
5785	15.09	11.787
5825	16.28	12.117

802.11n\_HT20\_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	15.92	12.019
5785	15.41	11.878
5825	16.91	12.281

802.11n\_HT20\_Ch1

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	15.74	11.970
5785	14.06	11.480
5825	15.87	12.006

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802.11ac\_VHT20\_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	16.3	12.122
5785	13.26	11.225
5825	17.34	12.390

802.11ac\_VHT20\_Ch1

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	15.45	11.889
5785	15.29	11.844
5825	15.58	11.926

802.11n\_HT40\_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	35.05	15.447
5795	32.32	15.095

802.11n\_HT40\_Ch1

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	33.84	15.294
5795	35.14	15.458

802.11ac\_VHT40\_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	32.86	15.167
5795	31.32	14.958

802.11ac\_VHT40\_Ch1

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	33.84	15.294
5795	31.05	14.921

802.11ac\_VHT80\_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	71.37	18.535

802.11ac\_VHT80\_Ch1

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	67.63	18.301

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### 8.5.3 99% BW Verification for DFS Function

802.11a\_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)	Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.18	< 5250	5240	5248.16	< 5250
5745	5736.86	> 5725	5745	5736.85	> 5725

802.11a\_Ch1

802.11n\_HT20\_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)	Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.74	< 5250	5240	5248.74	< 5250
5745	5736.28	> 5725	5745	5736.26	> 5725

802.11n\_HT20\_Ch1

802.11n\_HT40\_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)	Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5230	5247.93	< 5250	5230	5247.92	< 5250
5755	5737.09	> 5725	5755	5737.10	> 5725

802.11n\_HT40\_Ch1

802.11ac\_VHT20\_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)	Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.73	< 5250	5240	5248.73	< 5250
5745	5736.27	> 5725	5745	5736.26	> 5725

802.11ac\_VHT20\_Ch1

802.11ac\_VHT40\_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)	Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5230	5247.94	< 5250	5230	5247.89	< 5250
5755	5737.15	> 5725	5755	5737.07	> 5725

802.11ac\_VHT40\_Ch1

802.11ac\_VHT80\_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)	Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5210	5247.48	< 5250	5210	5247.40	< 5250
5775	5737.55	> 5725	5775	5737.44	> 5725

802.11ac\_VHT80\_Ch1

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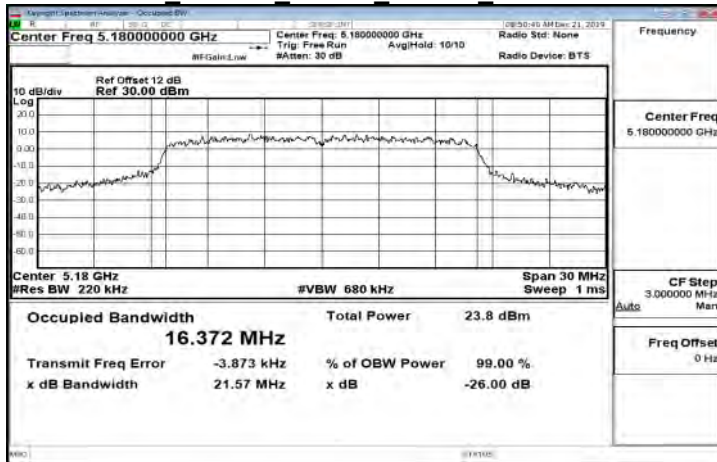
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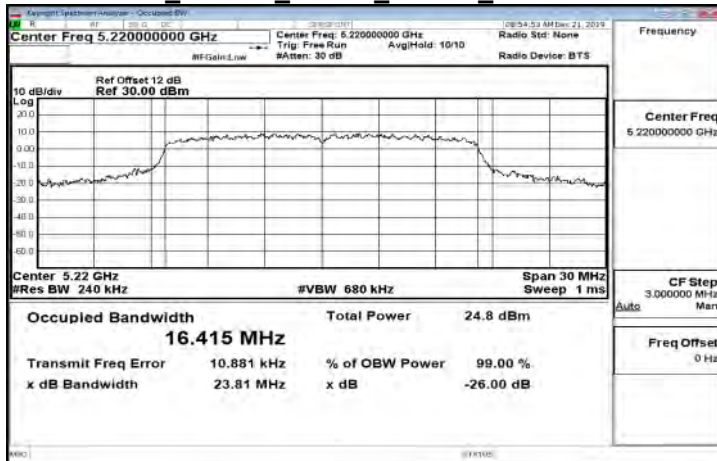
FCC 802.11a 20MHz Chain0 5180MHz



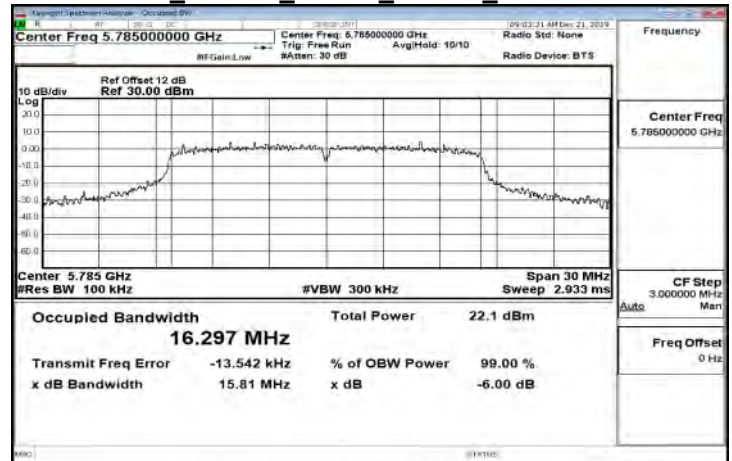
FCC 802.11a 20MHz Chain0 5745MHz



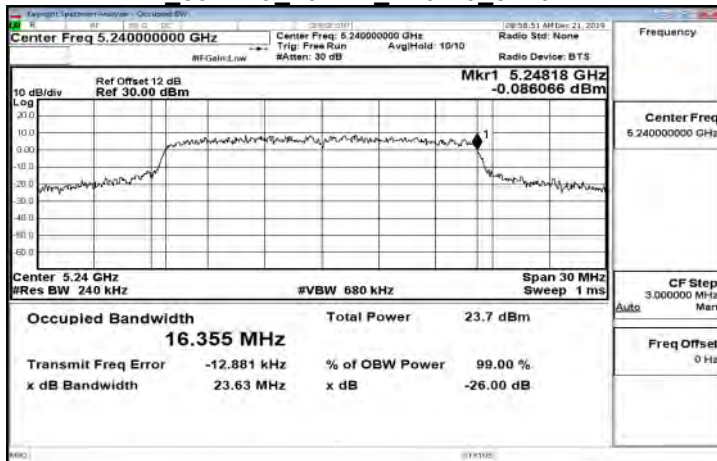
FCC 802.11a 20MHz Chain0 5220MHz



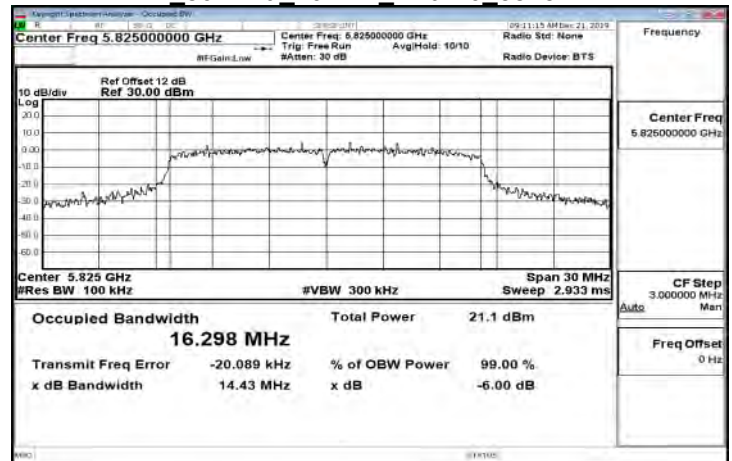
FCC 802.11a 20MHz Chain0 5785MHz



FCC 802.11a 20MHz Chain0 5240MHz



FCC 802.11a 20MHz Chain0 5825MHz



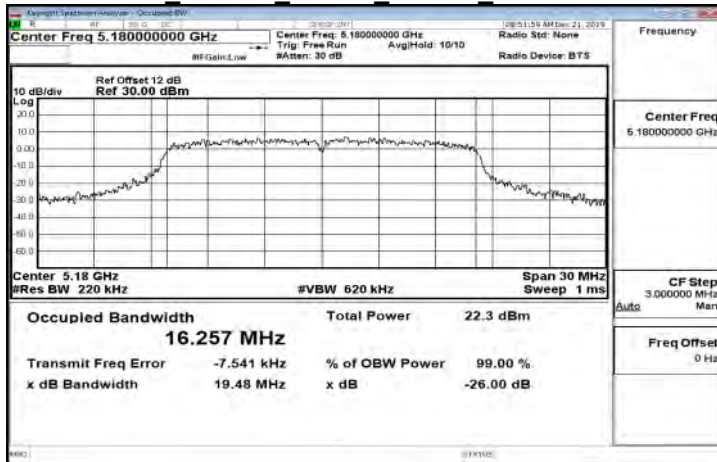
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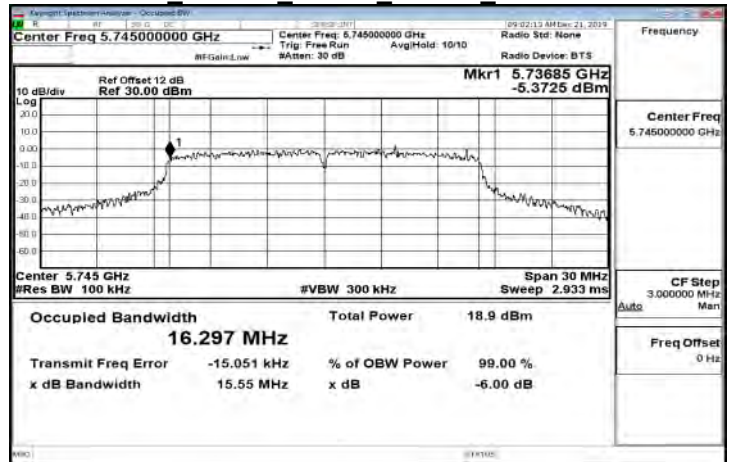
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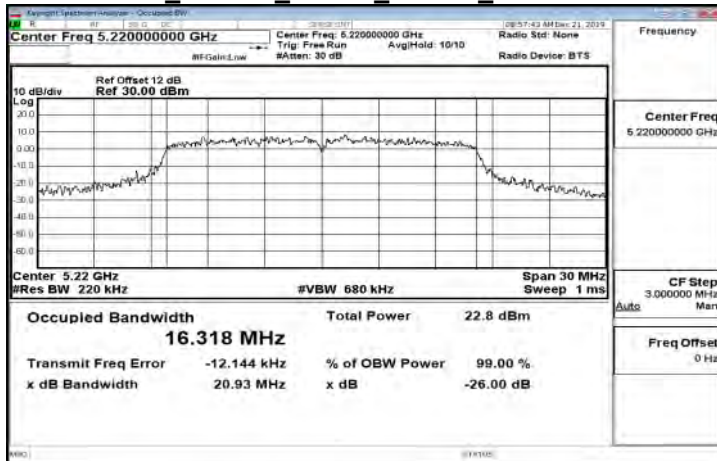
FCC 802.11a 20MHz Chain1 5180MHz



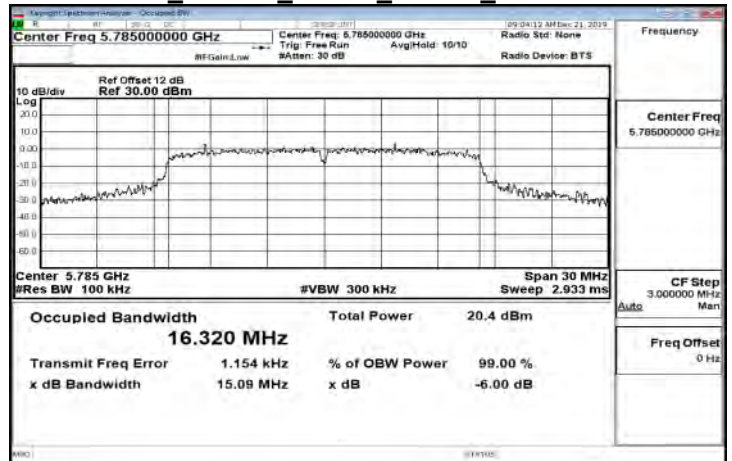
FCC 802.11a 20MHz Chain1 5745MHz



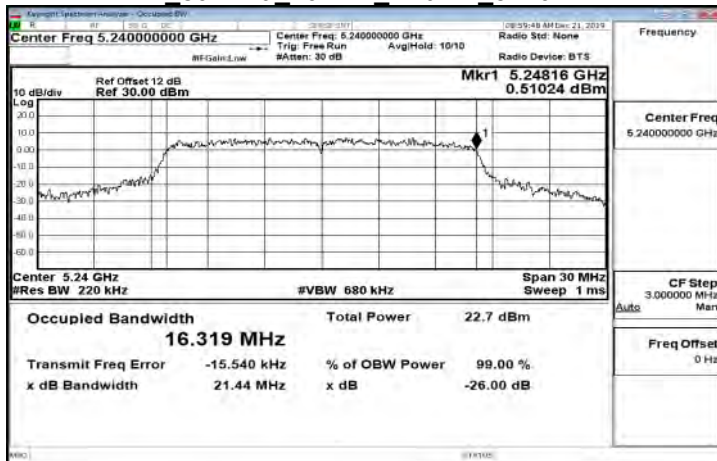
FCC 802.11a 20MHz Chain1 5220MHz



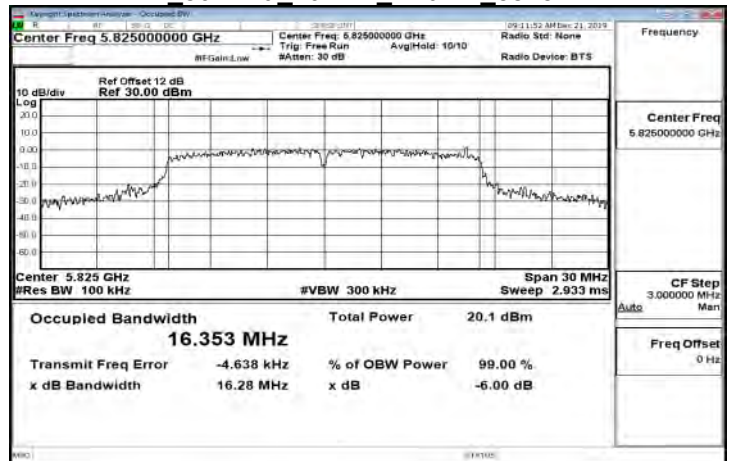
FCC 802.11a 20MHz Chain1 5785MHz



FCC 802.11a 20MHz Chain1 5240MHz



FCC 802.11a 20MHz Chain1 5825MHz



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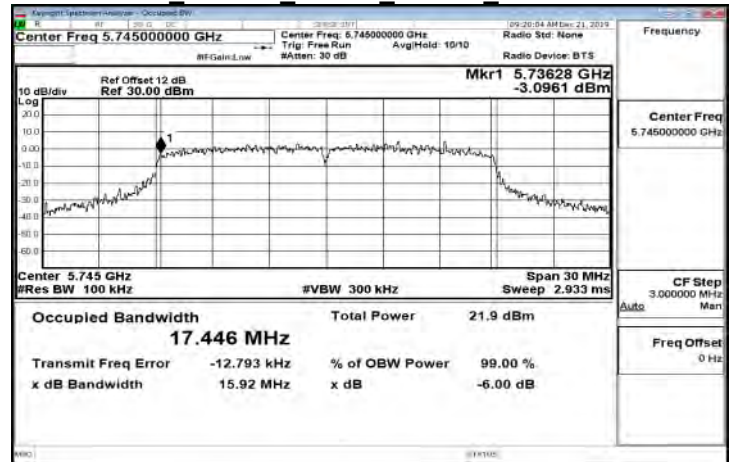
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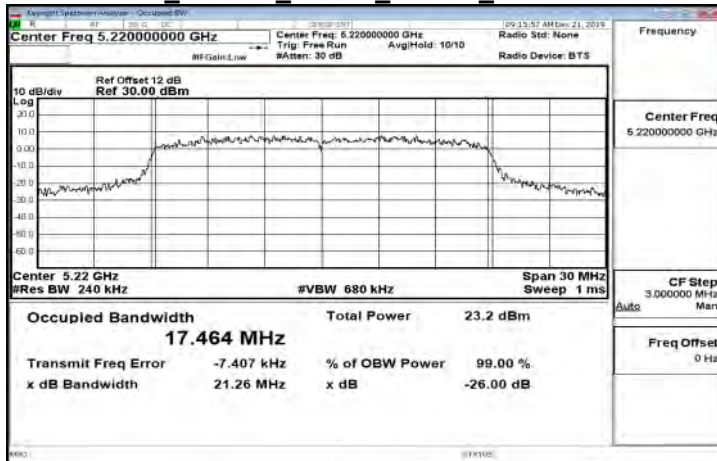
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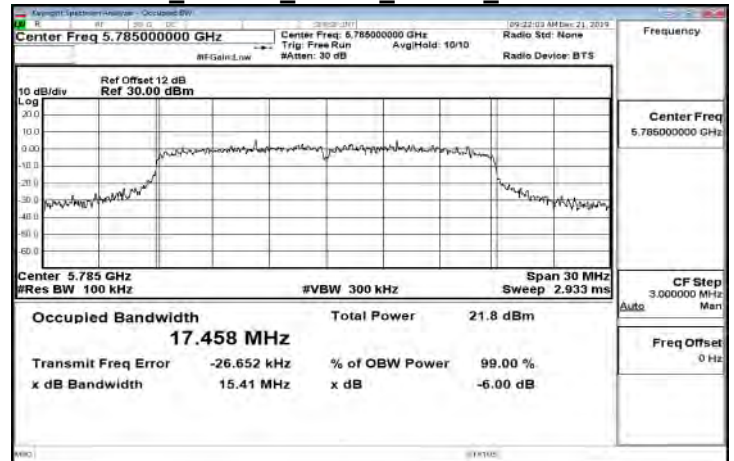
FCC 802.11n 20MHz Chain0 5745MHz



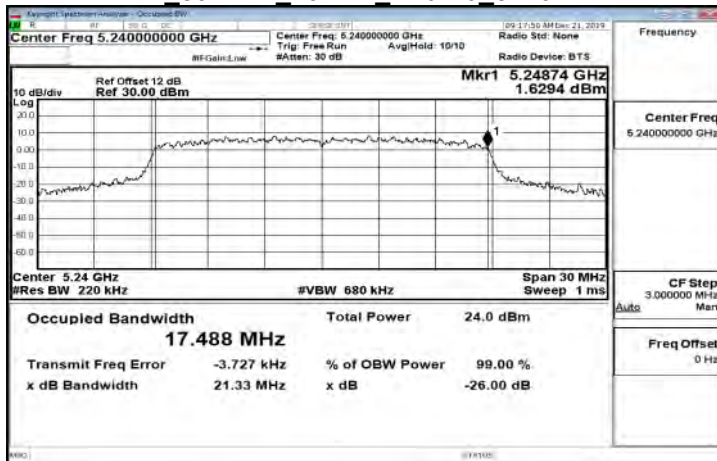
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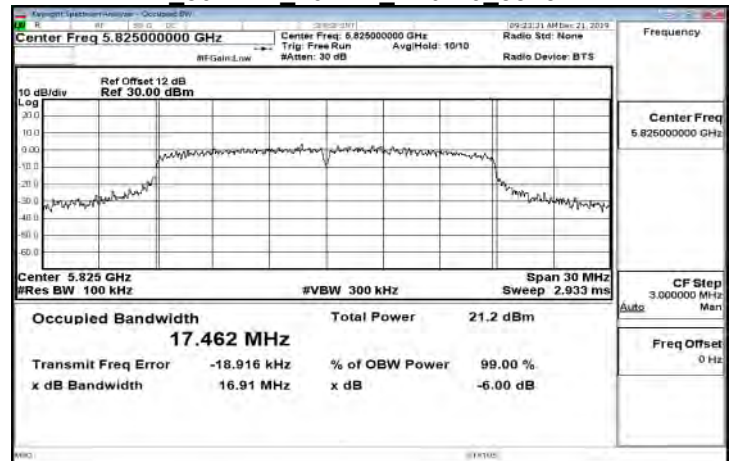
FCC 802.11n 20MHz Chain0 5785MHz



FCC 802.11n 20MHz Chain0 5240MHz



FCC 802.11n 20MHz Chain0 5825MHz



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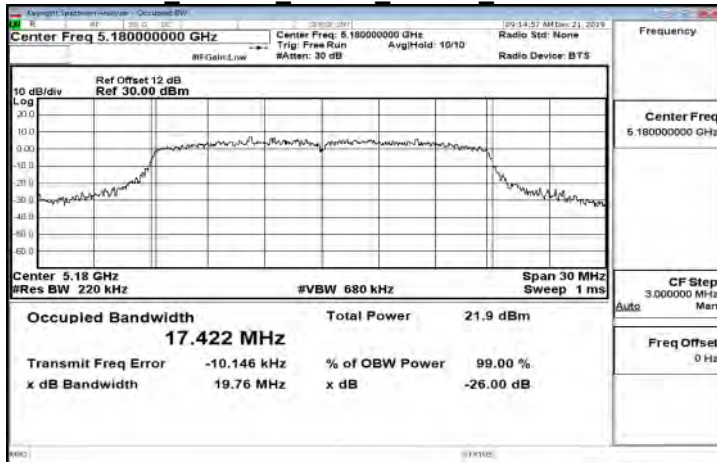
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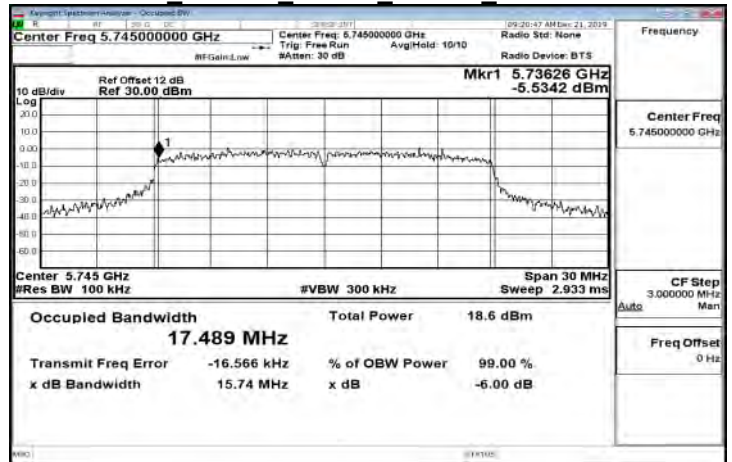
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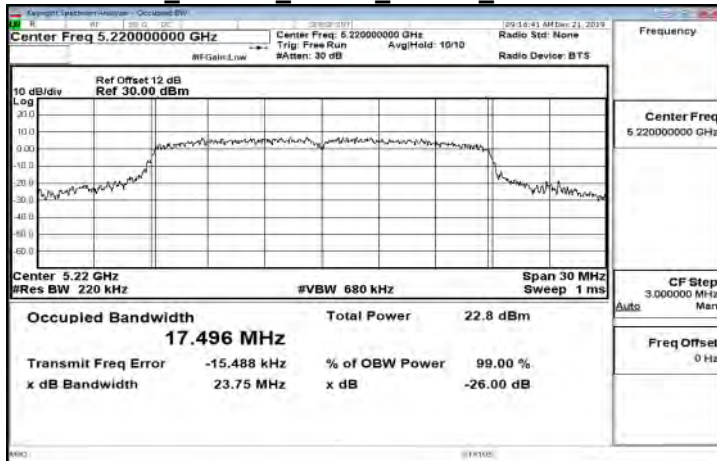
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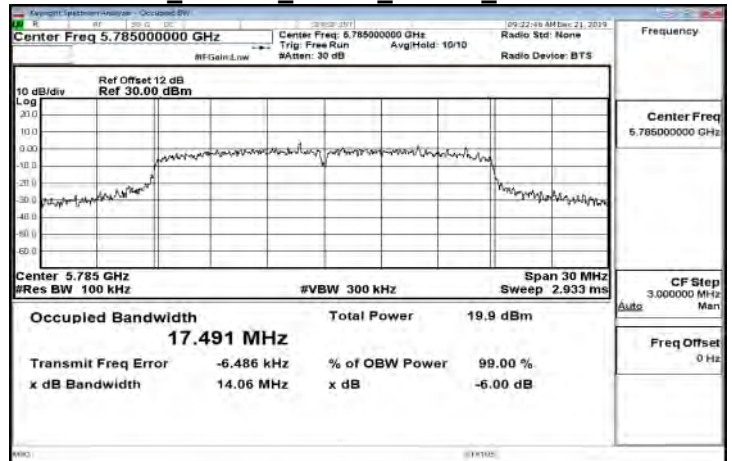
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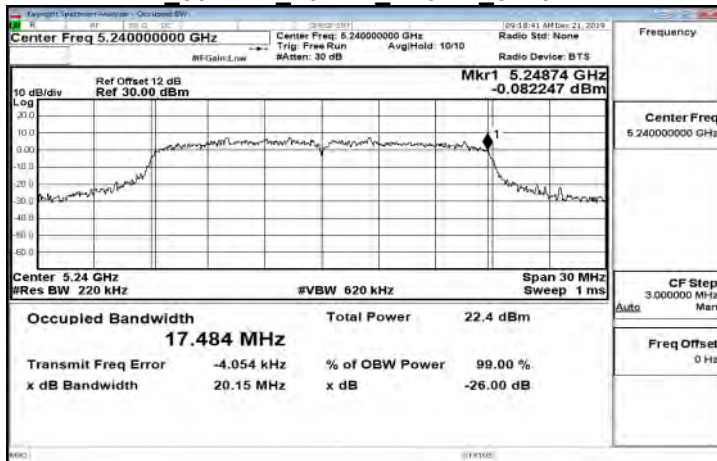
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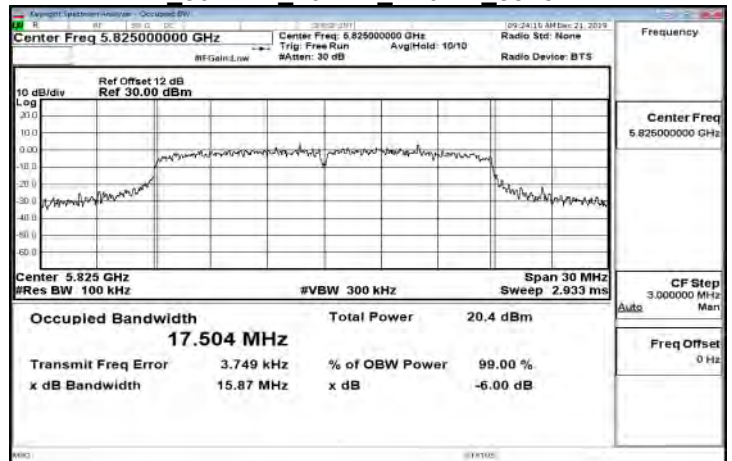
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FCC 802.11n 20MHz Chain1 5825MHz

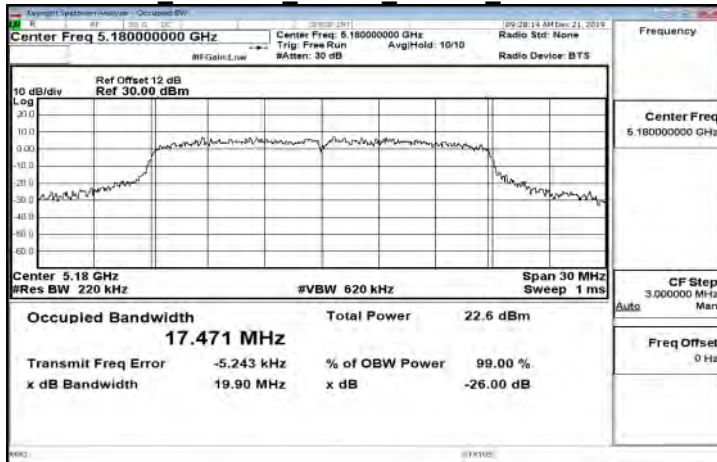


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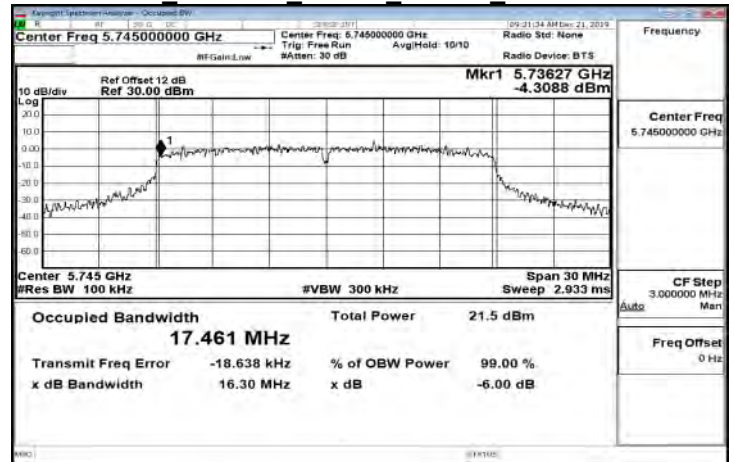
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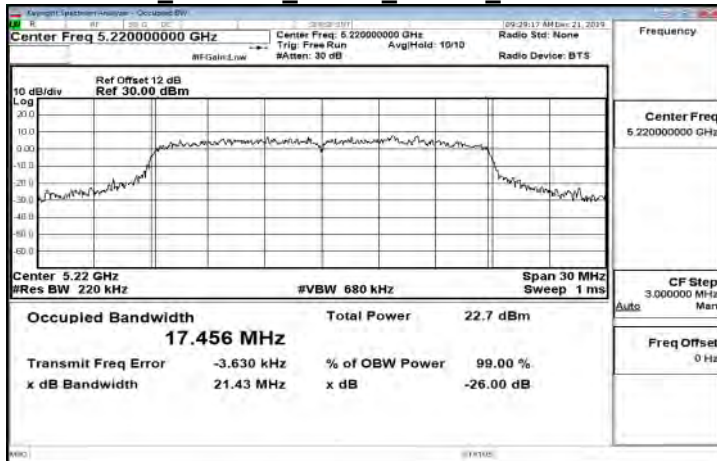
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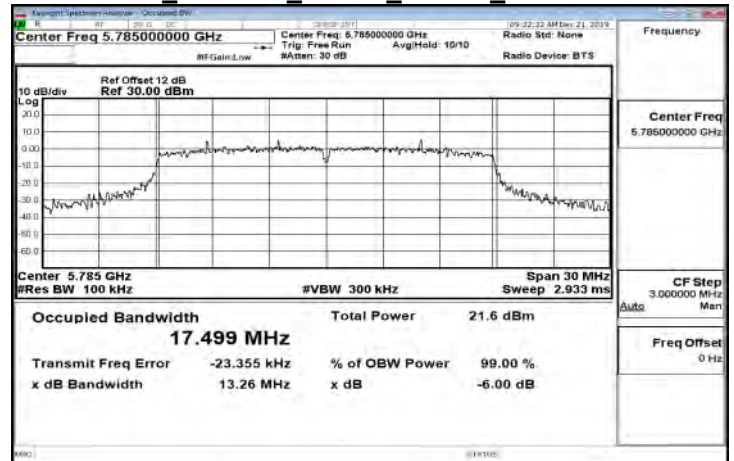
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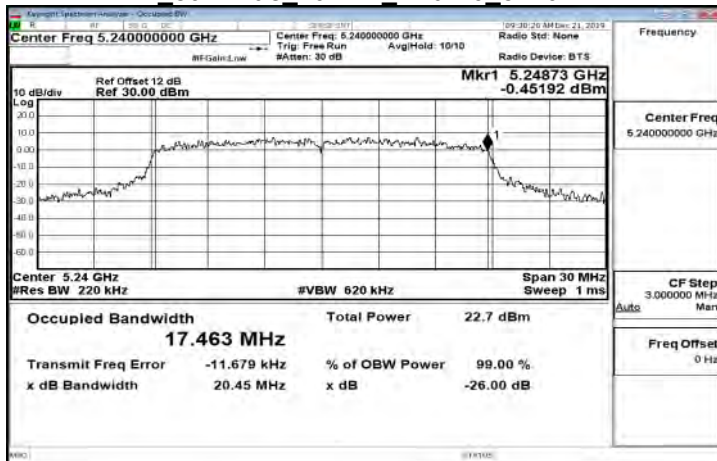
FCC 802.11ac 20MHz Chain0 5220MHz



FCC 802.11ac 20MHz Chain0 5785MHz



FCC 802.11ac 20MHz Chain0 5240MHz



FCC 802.11ac 20MHz Chain0 5825MHz



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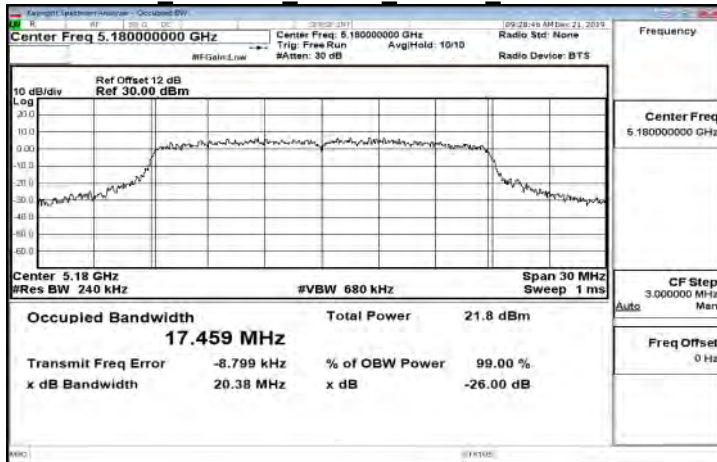
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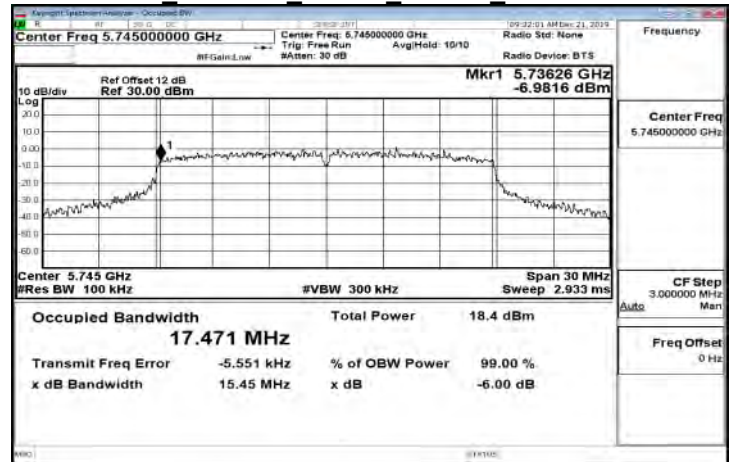
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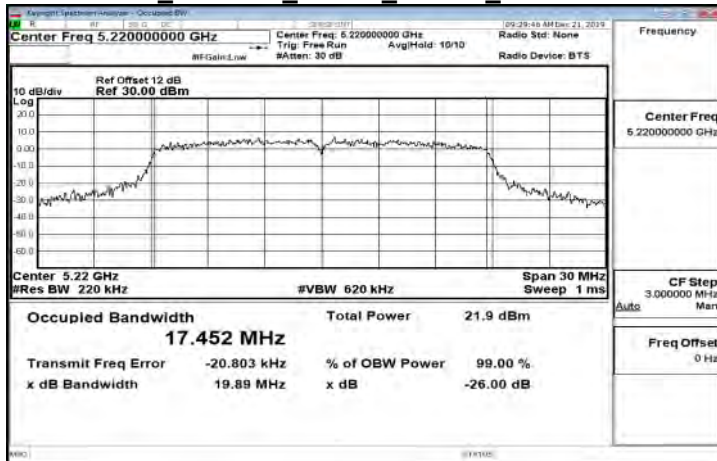
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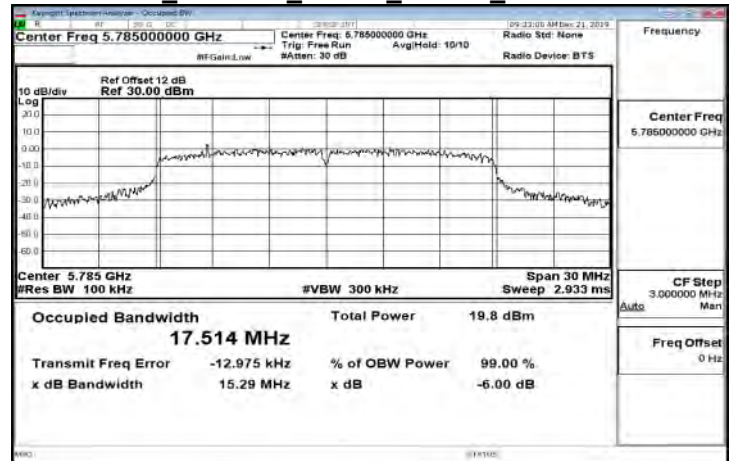
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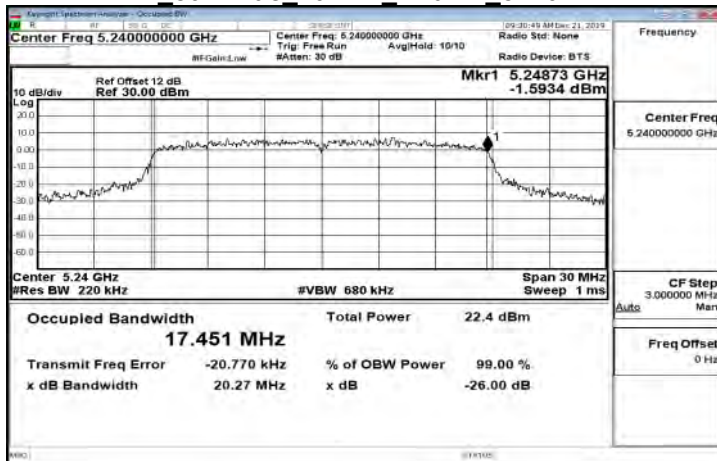
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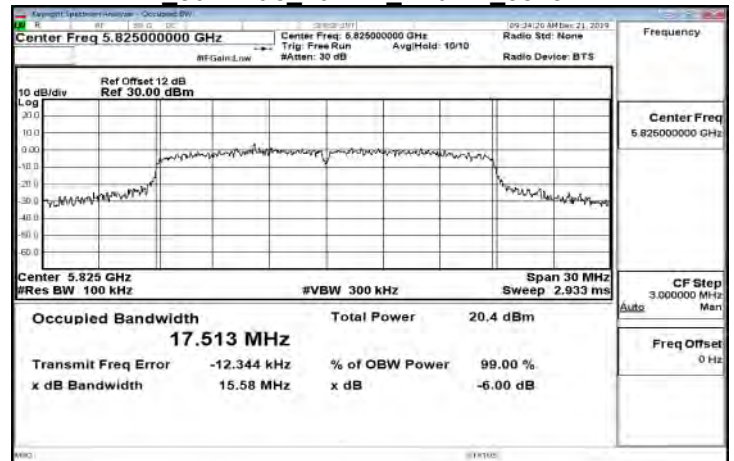
FCC 802.11ac 20MHz Chain1 5785MHz



FCC 802.11ac 20MHz Chain1 5240MHz



FCC 802.11ac 20MHz Chain1 5825MHz



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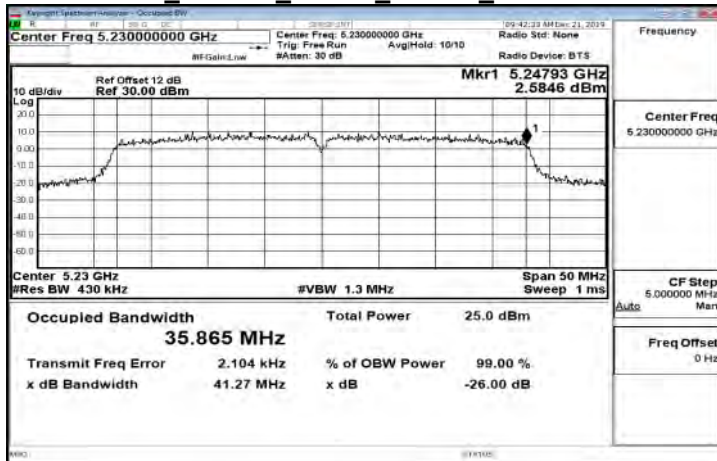
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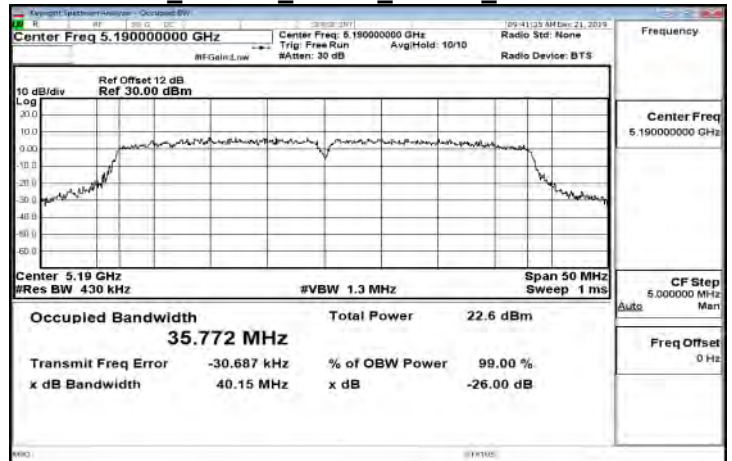
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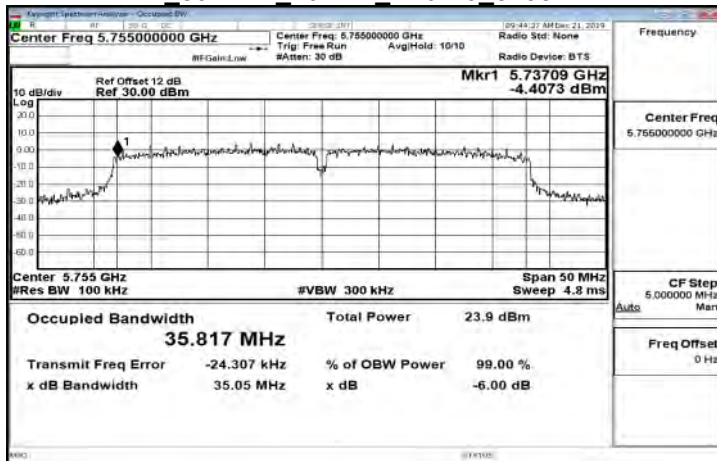
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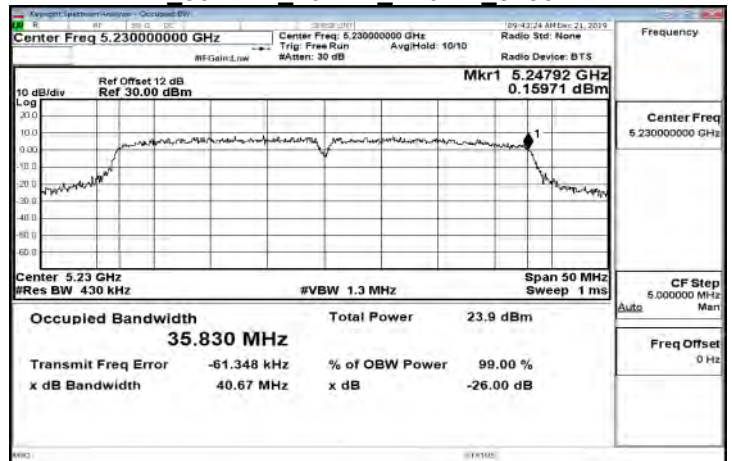
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FCC 802.11n 40MHz Chain0 5755MHz



FCC 802.11n 40MHz Chain1 5230MHz



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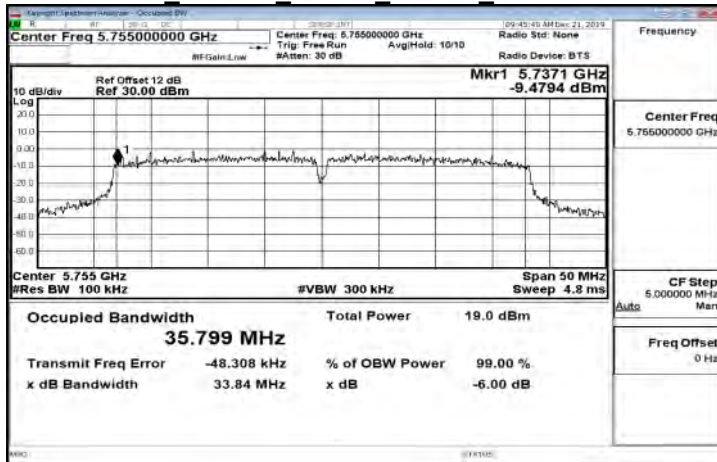
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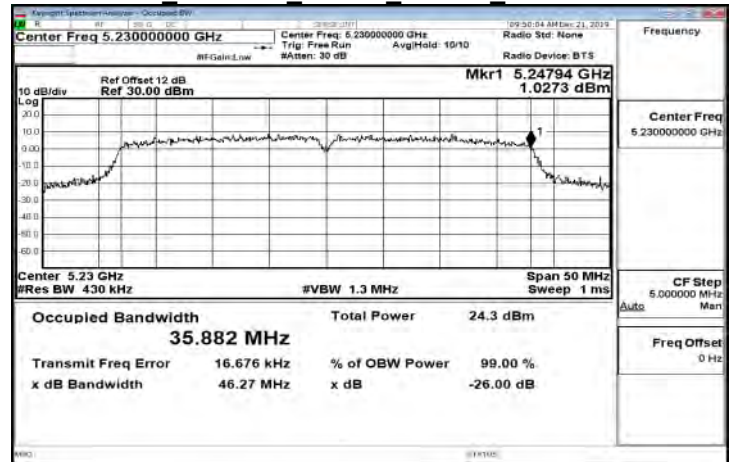
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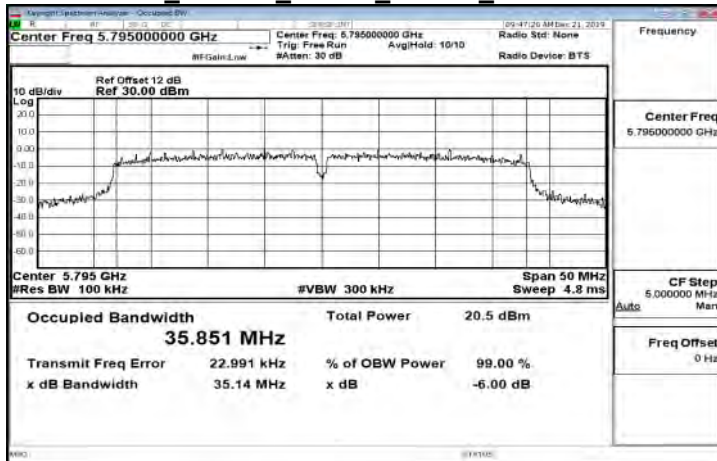
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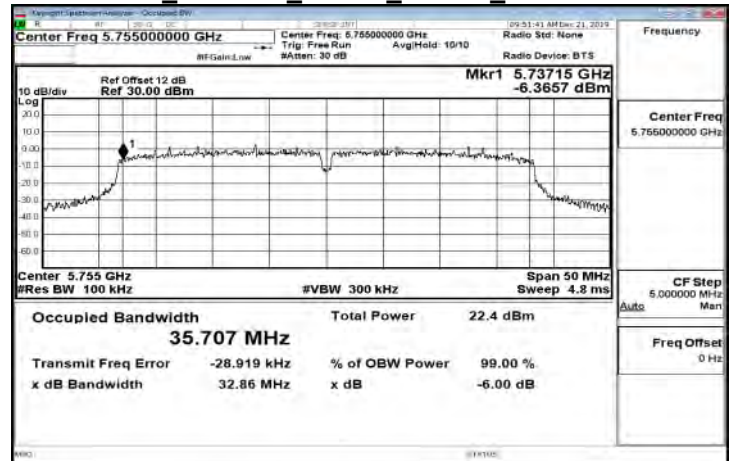
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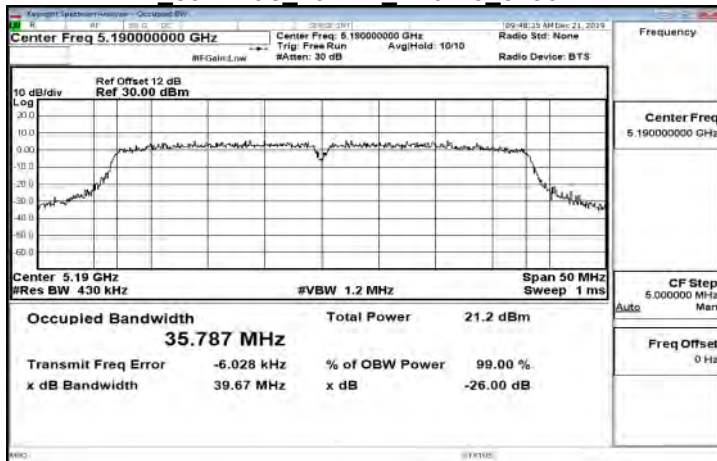
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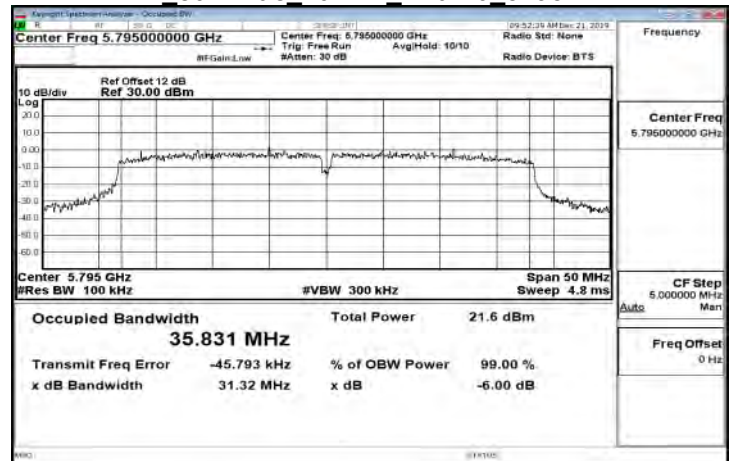
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FCC 802.11ac 40MHz Chain0 5190MHz



FCC 802.11ac 40MHz Chain0 5795MHz



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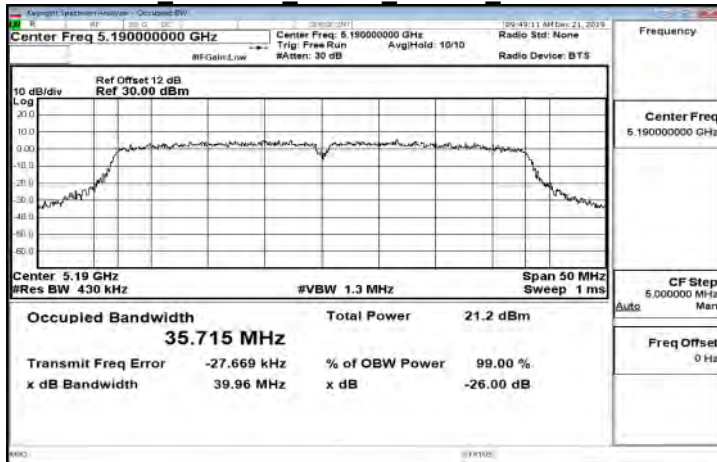
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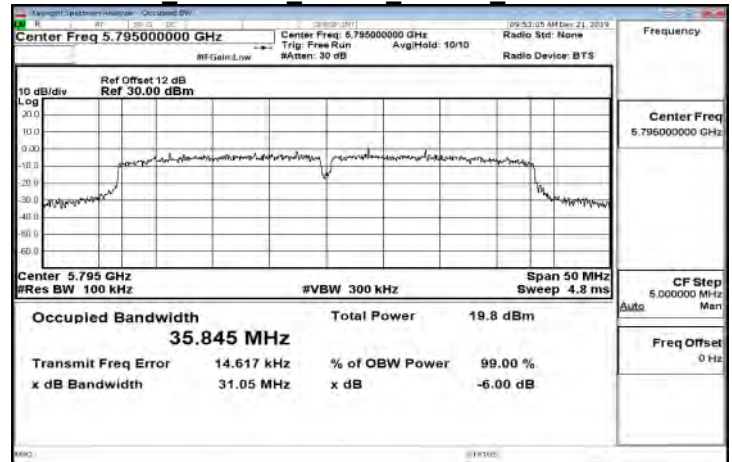
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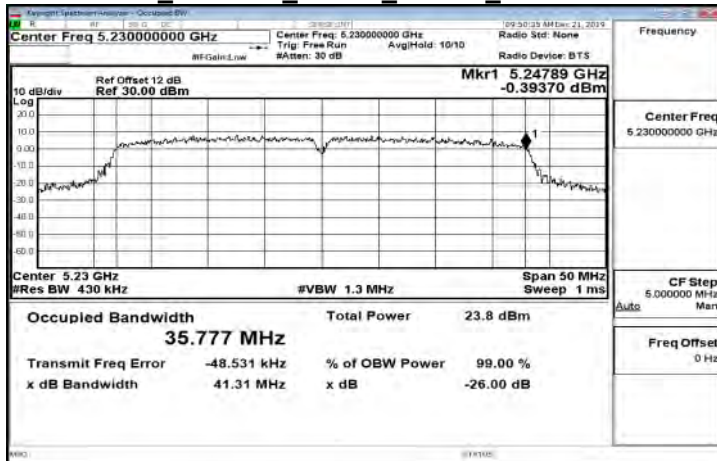
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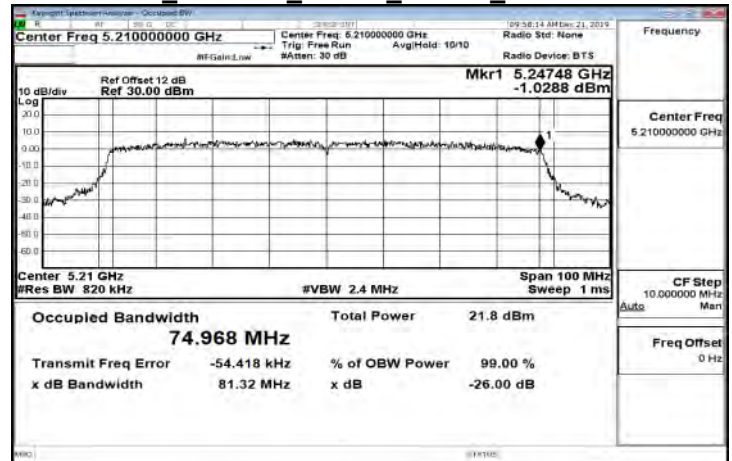
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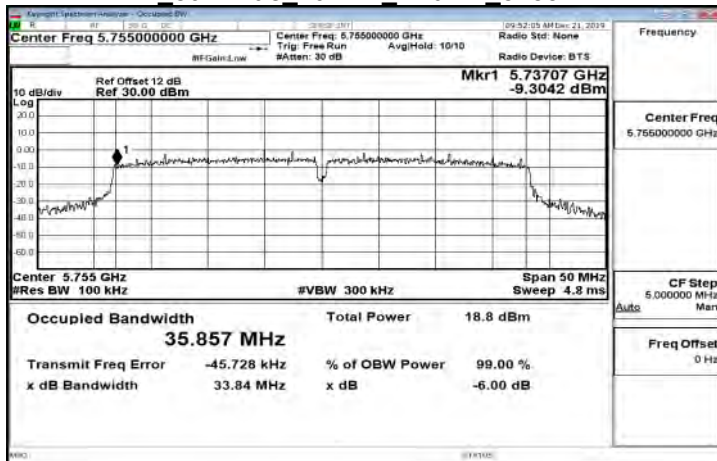
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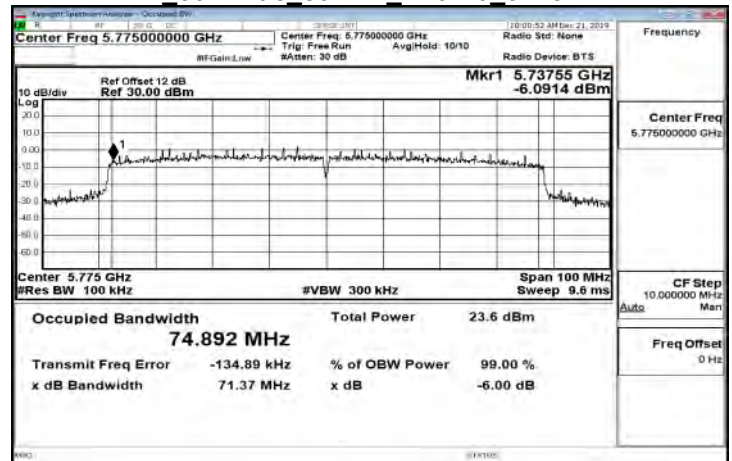
FCC 802.11ac 80MHz Chain0 5210MHz



FCC 802.11ac 40MHz Chain1 5755MHz



FCC 802.11ac 80MHz Chain0 5775MHz



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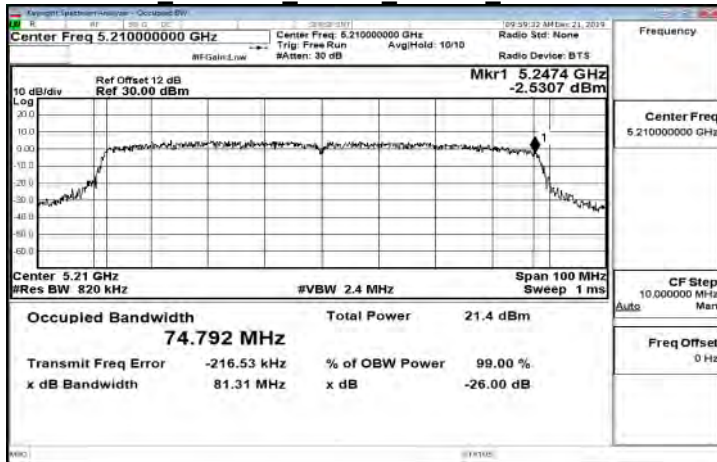
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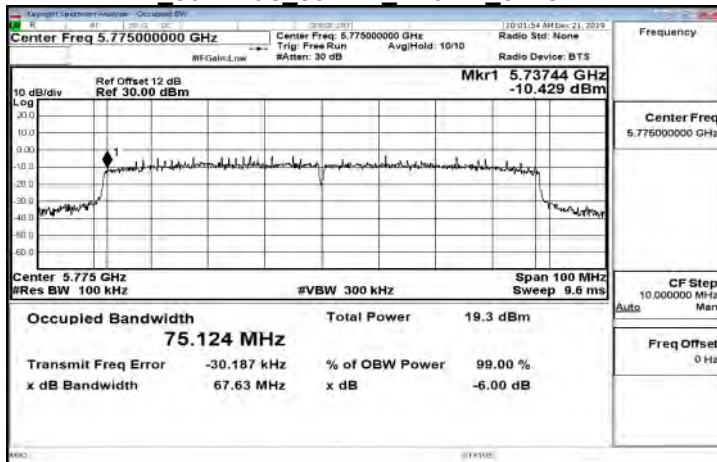
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## FCC 802.11ac 80MHz Chain1 5210MHz



## FCC 802.11ac 80MHz Chain1 5775MHz



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## 9 MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

### 9.1 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.			

#### Note:

As per FCC KDB 662911 D01

Unequal antenna gains, with equal transmit powers. For antenna gains given by G1, G2, ..., GN dBi.

(i) If transmit signals are correlated, then Directional gain

$$= 10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}] \text{ dBi}$$

[Note the "20"s in the denominator of each exponent and the square of the sum of terms; the object is to combine the signal levels coherently.]

The antenna gain is grater than 6 dBi in MIMO mode, therefore the limit needs to be reduced as below:

	Effective Legacy Gain (dBi)	Conducted Power Limit (dBm)
<b>UNII-1</b>	6.41	29.59
<b>U-NII-3</b>	5.84	30.00

### 9.2 Measurement Procedure

- Place the EUT on the table and set it in transmitting mode.
- The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
- Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter
- Power Meter is used as the auxiliary test equipment to conduct the output power measurement.

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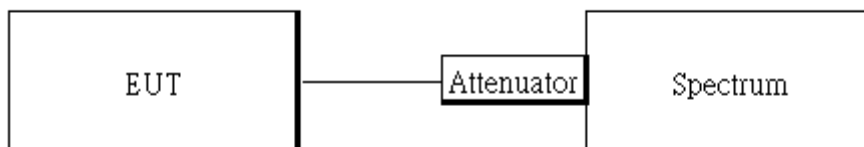
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5. Record the max. reading and add 10 log(1/duty cycle).
6. Repeat above procedures until all frequency (low, middle, and high channel) measured were complete.

### 9.3 Measurement Equipment Used

SGS Conducted Room					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Power Meter	Anritsu	ML2496A	1804002	03/26/2019	03/25/2020
Power Sensor	Anritsu	MA2411B	1726105	03/26/2019	03/25/2020
Power Sensor	Anritsu	MA2411B	1726106	03/26/2019	03/25/2020
Attenuator	Marvelous	MVE2213-10	RF31	11/20/2019	11/19/2020

### 9.4 Test Set-up



### 9.5 Measurement Result

#### 9.5.1 Conducted output power (FCC)

##### CDD Mode

##### 802.11a\_Ch0

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	6	18.77	75.336	30	PASS
44	5220	6	18.97	78.886	30	PASS
48	5240	6	18.86	76.913	30	PASS
149	5745	6	17.77	59.841	30	PASS
157	5785	6	18.02	63.387	30	PASS
165	5825	6	17.89	61.518	30	PASS

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## 802.11a\_Ch1

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	6	19.05	80.353	30	PASS
44	5220	6	<b>19.08</b>	80.910	30	PASS
48	5240	6	19.01	79.616	30	PASS
149	5745	6	<b>17.90</b>	61.660	30	PASS
157	5785	6	16.49	44.566	30	PASS
165	5825	6	16.60	45.709	30	PASS

## 802.11a\_2Tx

CH	Frequency (MHz)	Data Rate	g. POWER (dB)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
36	5180	6	18.2	19.3	22.02	159.200	29.59080328	PASS
44	5220	6	18.7	19.1	22.08	161.619	29.59080328	PASS
48	5240	6	18.7	19	<b>22.09</b>	161.765	29.59080328	PASS
149	5745	6	17.7	17	20.58	114.184	30	PASS
157	5785	6	18.3	16.9	20.87	122.188	30	PASS
165	5825	6	18.2	17	<b>20.91</b>	123.196	30	PASS

## 802.11n\_HT20\_Ch0

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	18.37	68.689	30	PASS
44	5220	MCS0	<b>18.63</b>	72.927	30	PASS
48	5240	MCS0	18.58	72.092	30	PASS
149	5745	MCS0	17.48	55.961	30	PASS
157	5785	MCS0	<b>17.91</b>	61.785	30	PASS
165	5825	MCS0	17.84	60.798	30	PASS

## 802.11n\_HT20\_Ch1

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	18.70	74.112	30	PASS
44	5220	MCS0	18.82	76.188	30	PASS
48	5240	MCS0	<b>18.83</b>	76.364	30	PASS
149	5745	MCS0	<b>17.93</b>	62.071	30	PASS
157	5785	MCS0	17.58	57.265	30	PASS
165	5825	MCS0	16.92	49.191	30	PASS

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## 802.11n\_HT20\_MIMO

CH	Frequency (MHz)	Data Rate	g. POWER (dB)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
36	5180	MCS8	17.2	18.8	21.82	152.140	29.59080328	PASS
44	5220	MCS8	17.8	18.4	21.83	152.484	29.59080328	PASS
48	5240	MCS8	17.7	18.4	<b>21.83</b>	152.519	29.59080328	PASS
149	5745	MCS8	17.5	16.5	20.79	120.014	30	PASS
157	5785	MCS8	17.8	16.5	20.94	124.140	30	PASS
165	5825	MCS8	17.7	16.7	<b>20.97</b>	125.102	30	PASS

## 802.11ac\_VHT20\_Ch0

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	18.32	67.903	30	PASS
44	5220	MCS0	<b>18.58</b>	72.092	30	PASS
48	5240	MCS0	18.54	71.431	30	PASS
149	5745	MCS0	17.42	55.193	30	PASS
157	5785	MCS0	17.86	61.078	30	PASS
165	5825	MCS0	<b>17.99</b>	62.934	30	PASS

## 802.11ac\_VHT20\_Ch1

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	18.58	72.092	30	PASS
44	5220	MCS0	18.78	75.489	30	PASS
48	5240	MCS0	<b>18.80</b>	75.838	30	PASS
149	5745	MCS0	<b>17.86</b>	61.078	30	PASS
157	5785	MCS0	17.50	56.219	30	PASS
165	5825	MCS0	17.05	50.686	30	PASS

## 802.11ac\_VHT20\_MIMO

CH	Frequency (MHz)	Data Rate	g. POWER (dB)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
36	5180	MCS0	17.5	18.5	21.78	150.702	29.59080328	PASS
44	5220	MCS0	17.8	18.1	21.67	146.920	29.59080328	PASS
48	5240	MCS0	18.3	17.8	<b>21.79</b>	151.086	29.59080328	PASS
149	5745	MCS0	17.2	16.7	20.71	117.662	30	PASS
157	5785	MCS0	17.9	16.3	20.92	123.484	30	PASS
165	5825	MCS0	17.9	16.4	<b>20.96</b>	124.639	30	PASS

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## 802.11n\_HT40\_Ch0

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	18.61	72.606	30	PASS
46	5230	MCS0	<b>18.70</b>	74.126	30	PASS
151	5755	MCS0	18.01	63.237	30	PASS
159	5795	MCS0	<b>18.24</b>	66.676	30	PASS

## 802.11n\_HT40\_Ch1

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	<b>19.01</b>	79.610	30	PASS
46	5230	MCS0	18.95	78.518	30	PASS
151	5755	MCS0	<b>18.10</b>	64.561	30	PASS
159	5795	MCS0	16.96	49.656	30	PASS

## 802.11n\_HT40\_MIMO

CH	Frequency (MHz)	Data Rate	g. POWER (dB)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
38	5190	MCS8	16	16.4	20.05	101.114	29.59080328	PASS
46	5230	MCS8	18.2	18.1	<b>22.01</b>	158.875	29.59080328	PASS
151	5755	MCS8	17.1	17.8	21.31	135.240	30	PASS
159	5795	MCS8	17.9	17.1	<b>21.35</b>	136.522	30	PASS

## 802.11ac\_VHT40\_Ch0

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	18.15	65.309	30	PASS
46	5230	MCS0	<b>18.57</b>	71.940	30	PASS
151	5755	MCS0	17.92	61.940	30	PASS
159	5795	MCS0	<b>18.25</b>	66.830	30	PASS

## 802.11ac\_VHT40\_Ch1

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	18.21	66.217	30	PASS
46	5230	MCS0	<b>18.92</b>	77.978	30	PASS
151	5755	MCS0	<b>17.98</b>	62.801	30	PASS
159	5795	MCS0	17.21	52.598	30	PASS

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## 802.11ac\_VHT40\_MIMO

CH	Frequency (MHz)	Data Rate	g. POWER (dB		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
38	5190	MCS0	14	15	18.39	69.092	29.59080328	PASS
46	5230	MCS0	17.8	18.5	<b>21.97</b>	157.546	29.59080328	PASS
151	5755	MCS0	17.5	17.4	21.30	134.897	30	PASS
159	5795	MCS0	18.3	16.5	<b>21.32</b>	135.600	30	PASS

## 802.11ac\_VHT80\_Ch0

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	<b>16.55</b>	45.191	30	PASS
155	5775	MCS0	<b>17.04</b>	50.589	30	PASS

## 802.11ac\_VHT80\_Ch1

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	<b>16.88</b>	48.759	30	PASS
155	5775	MCS0	<b>17.42</b>	55.215	30	PASS

## 802.11ac\_VHT80\_MIMO

CH	Frequency (MHz)	Data Rate	g. POWER (dB		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
42	5210	MCS0	12.5	13.6	<b>16.96</b>	49.609	29.59080328	PASS
155	5775	MCS0	15.8	16.6	<b>20.11</b>	102.573	30	PASS

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## Beamforming Mode

### 802.11a\_Ch0

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	6	<b>16.69</b>	46.666	30	PASS
44	5220	6	16.66	46.345	30	PASS
48	5240	6	16.64	46.132	30	PASS
149	5745	6	16.68	46.559	30	PASS
157	5785	6	16.60	45.709	30	PASS
165	5825	6	<b>16.84</b>	48.306	30	PASS

### 802.11a\_Ch1

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	6	16.75	47.315	30	PASS
44	5220	6	<b>16.77</b>	47.534	30	PASS
48	5240	6	16.68	46.559	30	PASS
149	5745	6	16.81	47.974	30	PASS
157	5785	6	<b>16.95</b>	49.545	30	PASS
165	5825	6	16.93	49.318	30	PASS

### 802.11a\_2Tx

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
36	5180	6	16	16.9	19.69	93.042	29.59080328	PASS
44	5220	6	15.9	17	<b>19.74</b>	94.272	29.59080328	PASS
48	5240	6	15.8	17	19.70	93.268	29.59080328	PASS
149	5745	6	16.6	16.4	19.73	93.899	30	PASS
157	5785	6	16.9	16.4	<b>19.91</b>	97.893	30	PASS
165	5825	6	16.7	16.5	19.80	95.419	30	PASS

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### 802.11n\_HT20\_Ch0

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	<b>16.87</b>	48.628	30	PASS
44	5220	MCS0	16.85	48.405	30	PASS
48	5240	MCS0	16.85	48.405	30	PASS
149	5745	MCS0	<b>16.88</b>	48.740	30	PASS
157	5785	MCS0	16.84	48.293	30	PASS
165	5825	MCS0	16.69	46.654	30	PASS

### 802.11n\_HT20\_Ch1

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	16.95	49.532	30	PASS
44	5220	MCS0	<b>16.97</b>	49.761	30	PASS
48	5240	MCS0	16.96	49.646	30	PASS
149	5745	MCS0	<b>16.94</b>	49.418	30	PASS
157	5785	MCS0	16.89	48.852	30	PASS
165	5825	MCS0	16.91	49.078	30	PASS

### 802.11n\_HT20\_MIMO

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
36	5180	MCS8	15.7	16.6	19.91	98.038	29.59080328	PASS
44	5220	MCS8	15.8	16.7	<b>19.97</b>	99.391	29.59080328	PASS
48	5240	MCS8	15.8	16.6	19.96	99.093	29.59080328	PASS
149	5745	MCS8	16	16.3	19.85	96.637	30	PASS
157	5785	MCS8	16.5	16	<b>19.98</b>	99.499	30	PASS
165	5825	MCS8	16.3	16	19.93	98.441	30	PASS

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### 802.11ac\_VHT20\_Ch0

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	<b>16.85</b>	48.405	30	PASS
44	5220	MCS0	16.77	47.521	30	PASS
48	5240	MCS0	16.84	48.293	30	PASS
149	5745	MCS0	<b>16.76</b>	47.412	30	PASS
157	5785	MCS0	16.74	47.194	30	PASS
165	5825	MCS0	16.66	46.333	30	PASS

### 802.11ac\_VHT20\_Ch1

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	16.91	49.078	30	PASS
44	5220	MCS0	16.86	48.516	30	PASS
48	5240	MCS0	<b>16.92</b>	49.191	30	PASS
149	5745	MCS0	16.84	48.293	30	PASS
157	5785	MCS0	16.86	48.516	30	PASS
165	5825	MCS0	<b>16.89</b>	48.852	30	PASS

### 802.11ac\_VHT20\_MIMO

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
36	5180	MCS0	15.4	16.5	<b>19.70</b>	93.288	29.59080328	PASS
44	5220	MCS0	15.3	16.4	19.61	91.484	29.59080328	PASS
48	5240	MCS0	15.3	16.3	19.56	90.303	29.59080328	PASS
149	5745	MCS0	15.8	16	19.68	92.903	30	PASS
157	5785	MCS0	16.2	15.8	<b>19.75</b>	94.460	30	PASS
165	5825	MCS0	16	15.8	19.62	91.526	30	PASS

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## 802.11n\_HT40\_Ch0

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	13.20	20.892	30	PASS
46	5230	MCS0	<b>16.92</b>	49.201	30	PASS
151	5755	MCS0	16.85	48.414	30	PASS
159	5795	MCS0	<b>16.95</b>	49.542	30	PASS

## 802.11n\_HT40\_Ch1

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	13.36	21.676	30	PASS
46	5230	MCS0	<b>16.97</b>	49.770	30	PASS
151	5755	MCS0	<b>16.98</b>	49.885	30	PASS
159	5795	MCS0	16.97	49.770	30	PASS

## 802.11n\_HT40\_MIMO

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
38	5190	MCS8	12.3	13	16.48	44.458	29.59080328	PASS
46	5230	MCS8	15.4	16.2	<b>19.69</b>	93.117	29.59080328	PASS
151	5755	MCS8	15.2	16.8	<b>19.95</b>	98.930	30	PASS
159	5795	MCS8	16.2	15.7	19.82	96.022	30	PASS

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### 802.11ac\_VHT40\_Ch0

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	13.06	20.229	30	PASS
46	5230	MCS0	<b>16.71</b>	46.878	30	PASS
151	5755	MCS0	16.74	47.203	30	PASS
159	5795	MCS0	<b>16.77</b>	47.530	30	PASS

### 802.11ac\_VHT40\_Ch1

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	13.13	20.557	30	PASS
46	5230	MCS0	<b>16.79</b>	47.750	30	PASS
151	5755	MCS0	16.82	48.081	30	PASS
159	5795	MCS0	<b>16.84</b>	48.303	30	PASS

### 802.11ac\_VHT40\_MIMO

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
38	5190	MCS0	12.2	12.8	16.37	43.376	29.59080328	PASS
46	5230	MCS0	15.1	16.3	<b>19.62</b>	91.712	29.59080328	PASS
151	5755	MCS0	15.2	16.7	<b>19.87</b>	97.038	30	PASS
159	5795	MCS0	16.1	15.7	19.76	94.583	30	PASS

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### 802.11ac\_VHT80\_Ch0

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	<b>11.30</b>	13.491	30	PASS
155	5775	MCS0	<b>16.53</b>	44.984	30	PASS

### 802.11ac\_VHT80\_Ch1

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	<b>11.45</b>	13.965	30	PASS
155	5775	MCS0	<b>16.63</b>	46.032	30	PASS

### 802.11ac\_VHT80\_MIMO

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RE-SULT
			CH 0	CH 1				
42	5210	MCS0	10.9	10.2	<b>14.48</b>	28.086	29.59080328	PASS
155	5775	MCS0	15.8	15.5	<b>19.52</b>	89.594	30	PASS

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## 10 MAXIMUM POWER SPECTRAL DENSITY

### 10.1 Standard Applicable

#### FCC

OPERZTION Band	EUT CATEGORY		LIMIT
U-NII-1	√	Access Point (Master device )	17dBm/ MHz
		Fixed point-to-point Access Ponit	
		Mobile and portable client device	11dBm/ MHz
U-NII-2A			11dBm/ MHz
U-NII-2C			11dBm/ MHz
U-NII-3	√		30dBm/ 500kHz

If transmitting antennas of directional gain greater than 6 dBi are used, the Maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

#### Note:

As per FCC KDB 662911 D01

Unequal antenna gains, with equal transmit powers. For antenna gains given by G1, G2, ..., GN dBi.

(i) If transmit signals are correlated, then Directional gain

$$= 10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}] \text{ dBi}$$

[Note the "20"s in the denominator of each exponent and the square of the sum of terms; the object is to combine the signal levels coherently.]

The antenna gain is grater than 6 dBi in MIMO mode, therefore the limit needs to be reduced as below:

	Effective Legacy Gain (dBi)	PSD Limit	
UNII-1	6.41	16.59	dBm/MHz
U-NII-3	5.84	30.00	dBm/500 kHz

### 10.2 Measurement Procedure

- Place the EUT on the table and set it in transmitting mode.
- The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
- Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to Spectrum.
- For U-NII1, U-NII-2A, U-NII-2C Band:**  
Set RBW=1MHz, VBW=3MHz, where span is enough to capture the entire bandwidth, Sweep time = Auto (601 pts), detector = sample, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)

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**For U-NII-3 Band:**

Set RBW=500 kHz, VBW $\geq$  3RBW, where span is enough to capture the entire bandwidth, Sweep time = Auto (601 pts), detector = sample, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)

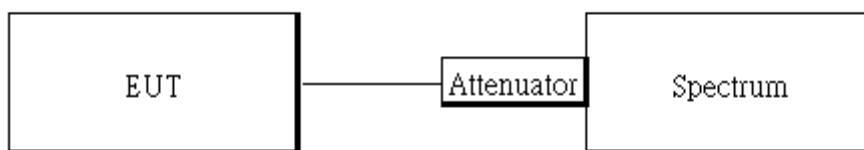
5. Use the cursor on spectrum to peak search the highest level of trace
6. Record the max. reading and add 10 log(1/duty cycle).
7. Repeat above procedures until all default test channel (low, middle, and high) was complete.
8. 802.11n/ac MIMO mode: offset is set following “measure and add 10 Log (N)” on spectrum to measure the PSD for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna. N=3 for this given application.

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

### 10.3 Measurement Equipment Used

SGS Conducted Room					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
DC Block	PASTERNAK	PE8210	RF32	11/20/2019	11/19/2020
Spectrum Analyzer	Agilent	N9010A	MY57120200	03/06/2019	03/05/2020
Attenuator	Marvelous	MVE2213-10	RF31	11/20/2019	11/19/2020

### 10.4 Test Set-up



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## 10.5 Measurement Result

### 10.5.1 Power spectral density

POWER DENSITY 802.11a MODE					
Frequency (MHz)	PSD W/O Duty Factor (dBm)	Duty Factor	PSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5180.00	10.56	0.22	10.78	16.59	-5.81
5220.00	10.96	0.22	11.18	16.59	-5.41
5240.00	10.43	0.22	10.65	16.59	-5.94
5745.00	5.76	0.22	5.98	30.00	-24.02
5785.00	5.75	0.22	5.97	30.00	-24.03
5825.00	4.98	0.22	5.20	30.00	-24.80

POWER DENSITY 802.11n HT20 MODE					
Frequency (MHz)	PSD W/O Duty Factor (dBm)	Duty Factor	PSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5180	9.88	0.73	10.61	16.59	-5.98
5220	11.04	0.73	11.77	16.59	-4.82
5240	10.00	0.73	10.73	16.59	-5.86
5745	5.49	0.73	6.22	30	-23.78
5785	5.24	0.73	5.97	30	-24.03
5825	4.96	0.73	5.69	30	-24.31

POWER DENSITY 802.11n HT40 MODE					
Frequency (MHz)	PSD W/O Duty Factor (dBm)	Duty Factor	PSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5190	5.1	0.85	5.95	16.59	-10.64
5230	7.05	0.85	7.90	16.59	-8.69
5755	-0.72	0.85	0.13	30	-29.87
5795	3.17	0.85	4.02	30	-25.98

POWER DENSITY 802.11ac VHT80 MODE					
Frequency (MHz)	PSD W/O Duty Factor (dBm)	Duty Factor	PSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5210	1.00	0.89	1.89	16.59	-14.70
5775	-3.29	0.89	-2.40	30	-32.40

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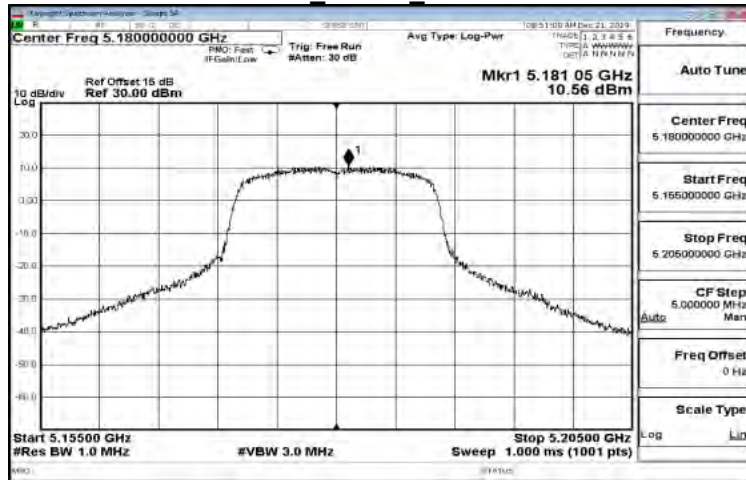
t (886-2) 2299-3279

f (886-2) 2298-0488

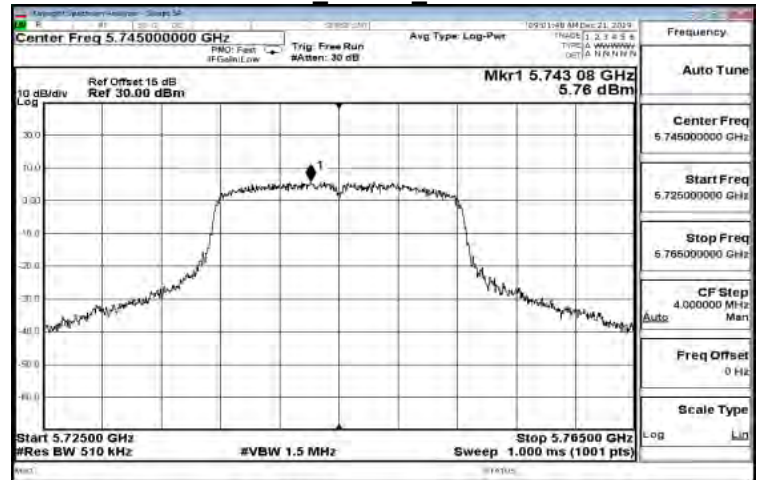
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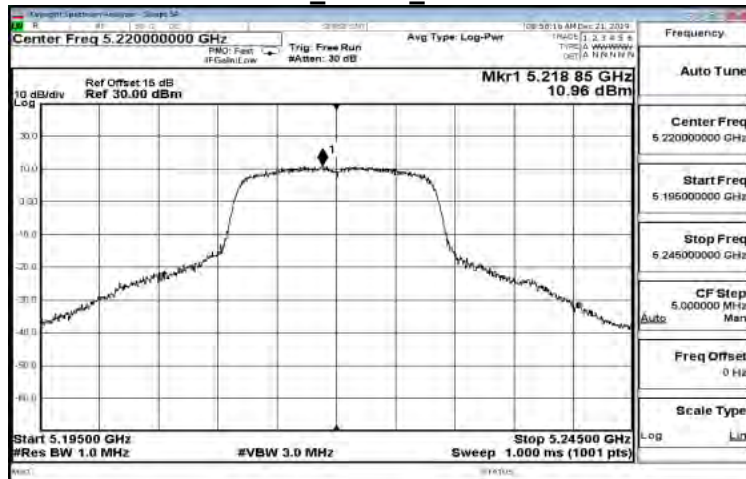
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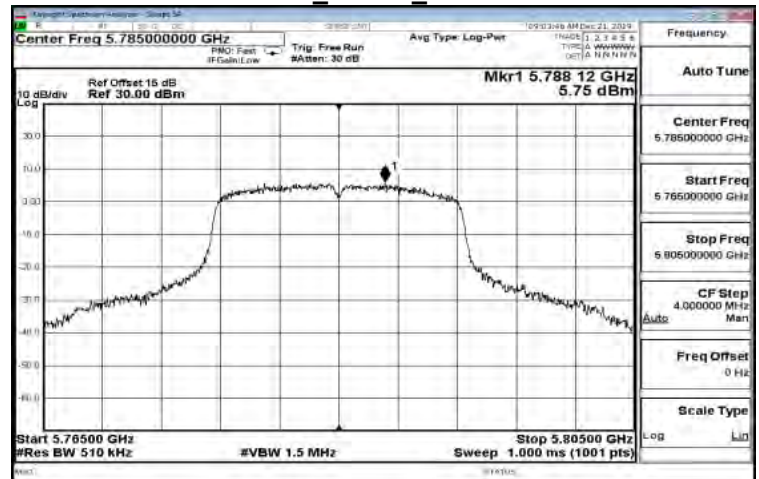
802.11a\_20MHz\_5745MHz



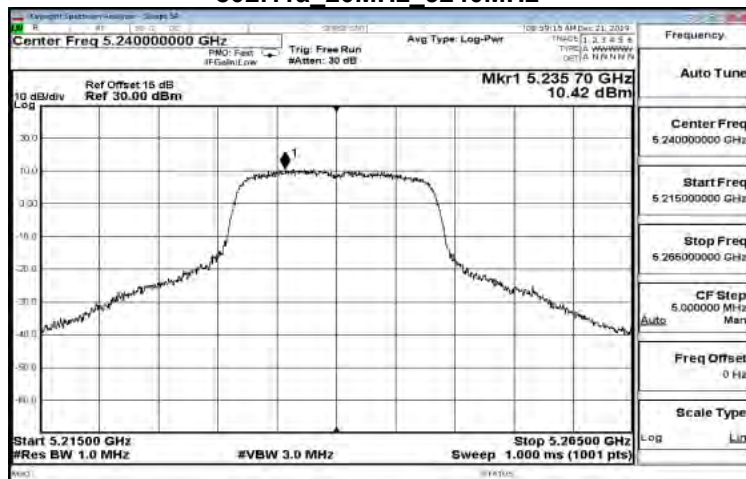
802.11a\_20MHz\_5220MHz



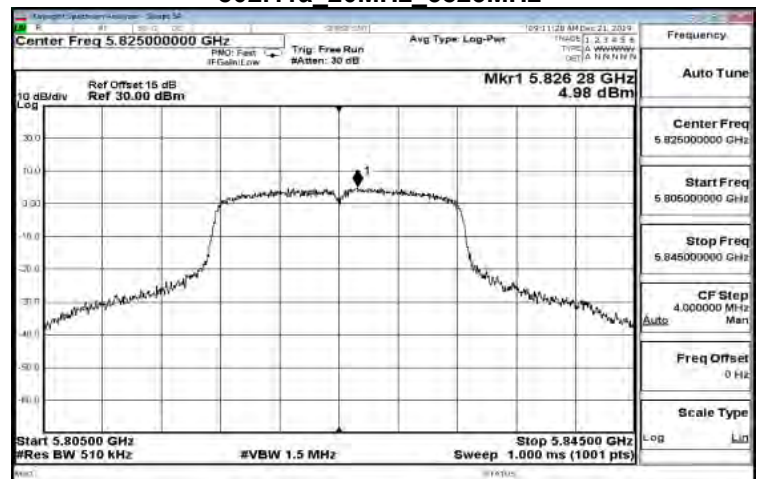
802.11a\_20MHz\_5785MHz



802.11a\_20MHz\_5240MHz



802.11a\_20MHz\_5825MHz



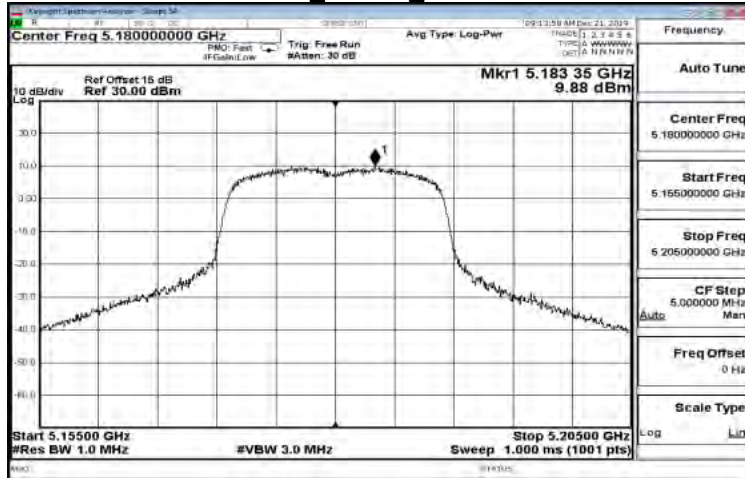
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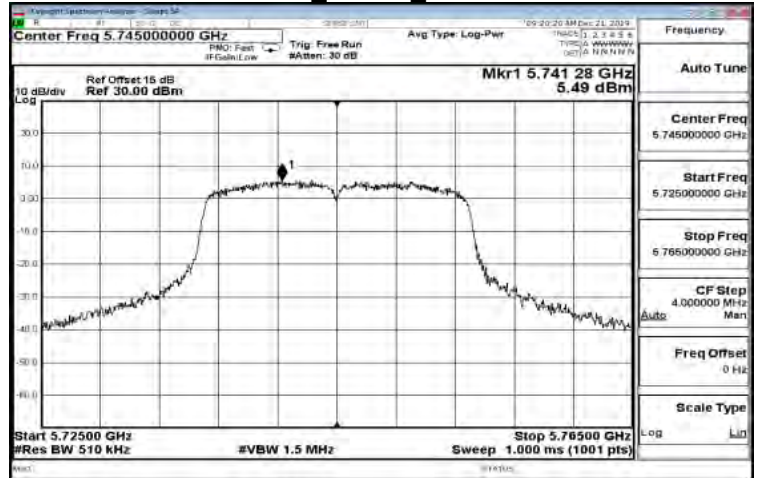
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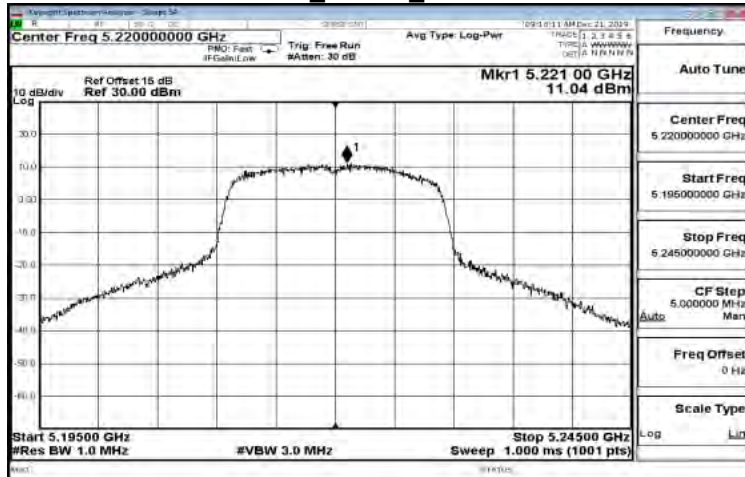
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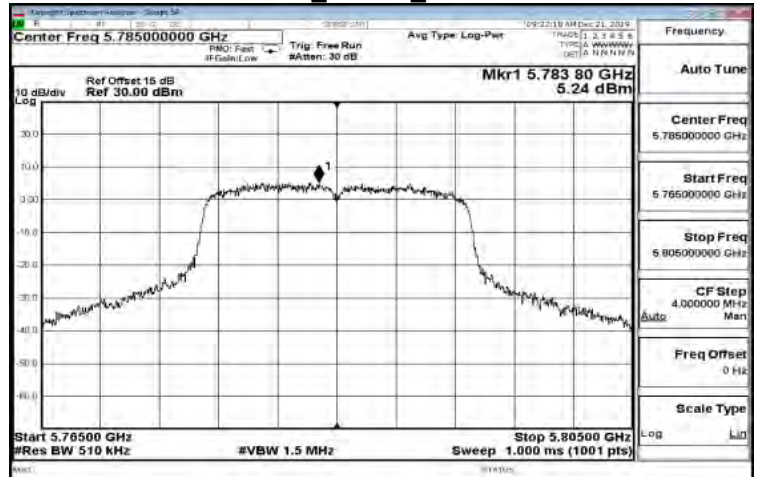
802.11n\_20MHz\_5745MHz



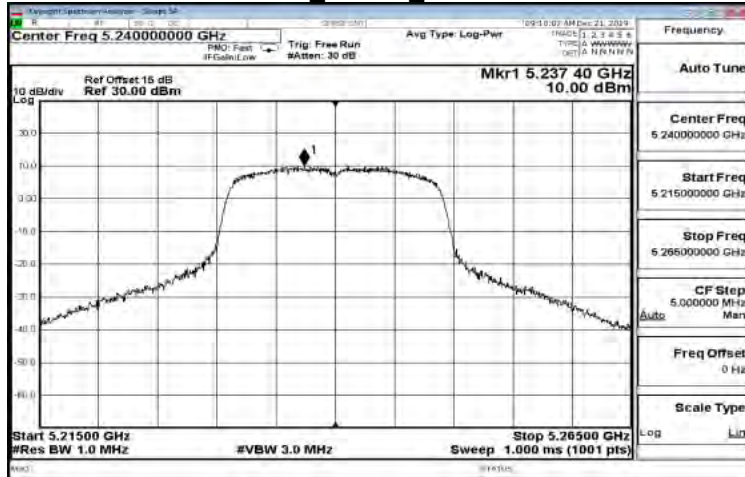
802.11n\_20MHz\_5220MHz



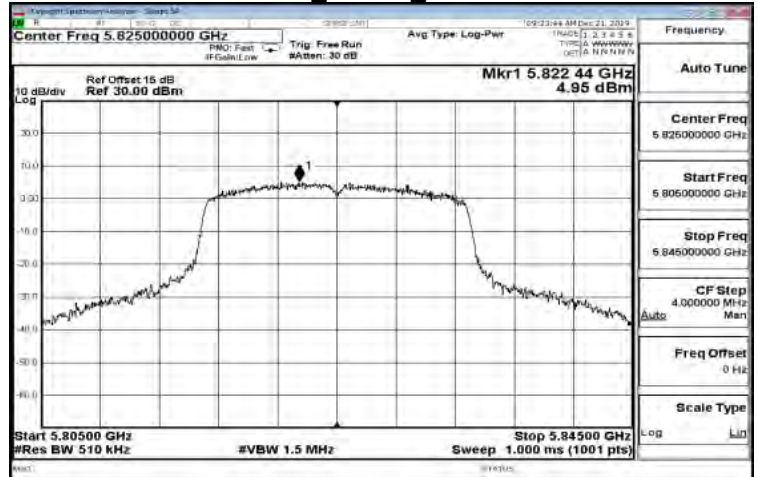
802.11n\_20MHz\_5785MHz



802.11n\_20MHz\_5240MHz



802.11n\_20MHz\_5825MHz

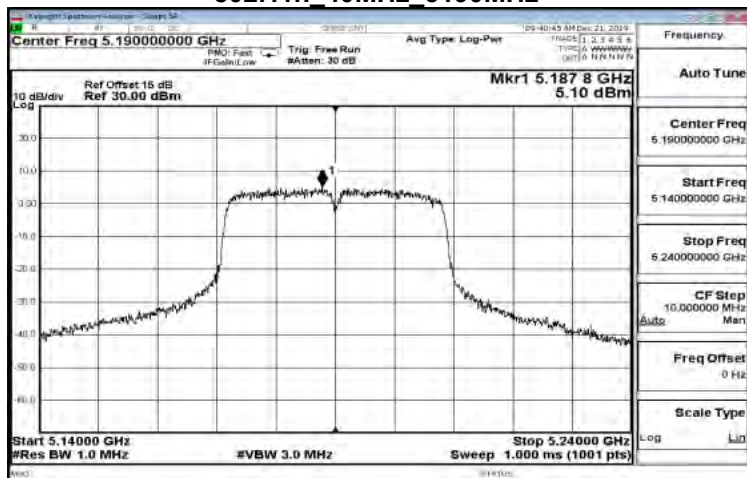


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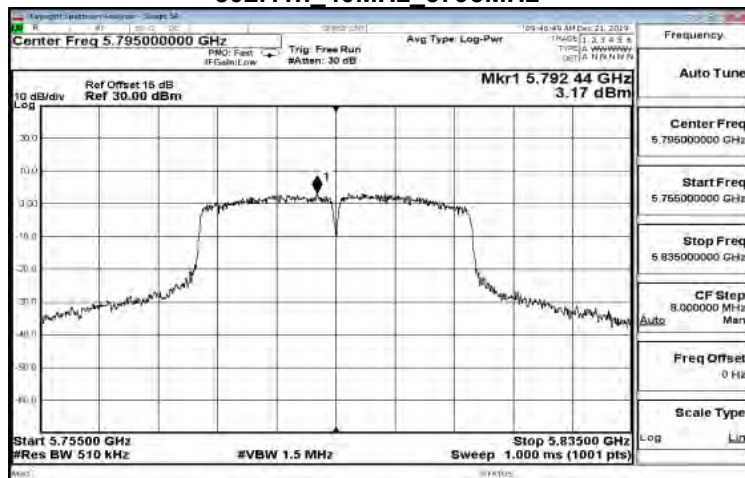
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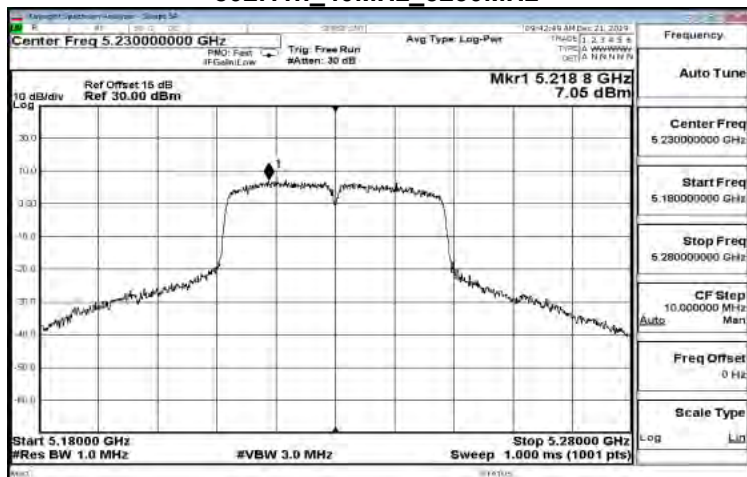
802.11n\_40MHz\_5190MHz



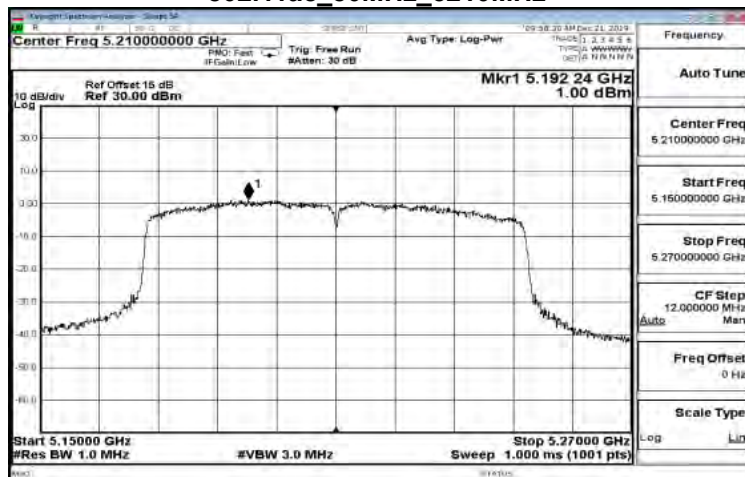
802.11n\_40MHz\_5795MHz



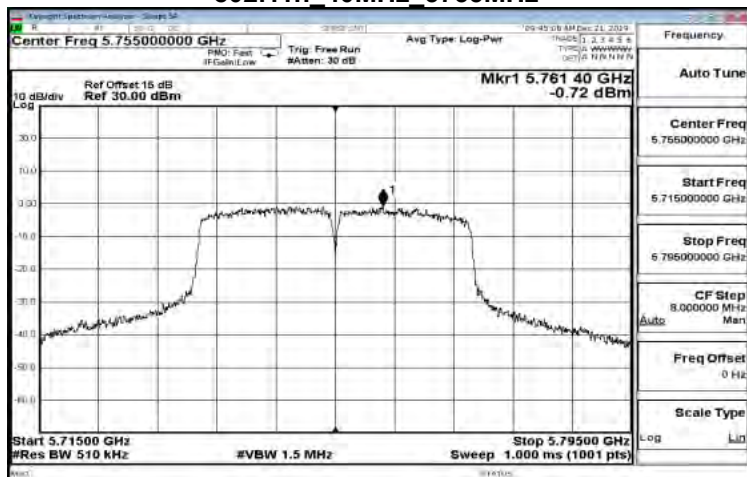
802.11n\_40MHz\_5230MHz



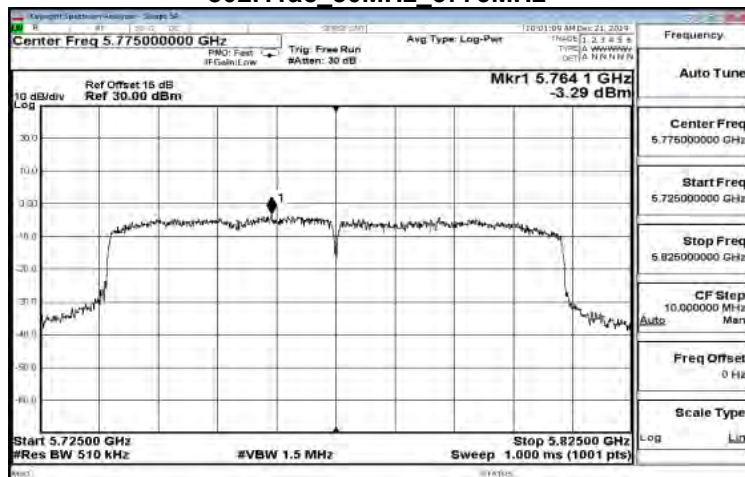
802.11ac\_80MHz\_5210MHz



802.11n\_40MHz\_5755MHz



802.11ac\_80MHz\_5775MHz



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## 11 UNDESIRABLE RADIATED EMISSION MEASUREMENT

### 11.1 Standard Applicable

#### 11.1.1 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: 68.3 (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
*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.		

$EIRP = (E \cdot d)^2 / 30$ , 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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## 11.2 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.
2. Emission level (dBμV/m) = 20 log Emission level (dBμV/m)

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### 11.3 Measurement Equipment Used

SGS SAC-III					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Broadband Antenna	SCHWAZBECK	VULB 9168	9168-617	11/04/2019	11/03/2020
Horn Antenna	Schwarzbeck	BBHA9170	185	08/07/2019	08/06/2020
Horn Antenna	Schwarzbeck	BBHA9120D	1341	06/12/2019	06/11/2020
Loop Antenna	ETS.LINDGREN	6502	143303	04/25/2019	04/24/2020
3m Site NSA	SGS	966 chamber D	N/A	07/12/2019	07/11/2020
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	06/10/2019	06/09/2020
Pre-Amplifier	EMC Instruments	EMC184045B	980135	11/20/2019	11/19/2020
Pre-Amplifier	EMC Instruments	EMC9135	980234	11/20/2019	11/19/2020
Pre-Amplifier	EMC Instruments	EMC12630SE	980271	11/20/2019	11/19/2020
Attenuator	Woken	WATT-218FS-10	RF25	11/20/2019	11/19/2020
High Pass Filter	R&S	F13 HPF 3GHz	RF64	11/20/2019	11/19/2020
Low Pass Filter	EWT	EWT-56-0019	RF46	11/20/2019	11/19/2020
Notch Filter	EWT	EWT-54-0038	RF55	11/20/2019	11/19/2020
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17388/4	11/20/2019	11/19/2020
Coaxial Cable	Huber Suhner	RG 214/U	W22.03	11/20/2019	11/19/2020
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17413/4	11/20/2019	11/19/2020

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## Measurement Equipment Used For Simultaneous

SGS SAC-III					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Broadband Antenna	SCHWAZBECK	VULB 9168	9168-617	11/04/2019	11/03/2020
Broadband Antenna	TESEQ	CBL 6112D	35240	09/09/2019	09/08/2020
Horn Antenna	Schwarzbeck	BBHA9120D	1187	01/10/2020	01/09/2021
Horn Antenna	Schwarzbeck	BBHA9170	185	08/07/2019	08/06/2020
Horn Antenna	Schwarzbeck	BBHA9120D	1341	06/12/2019	06/11/2020
3m Site NSA	SGS	966 chamber D	N/A	07/12/2019	07/11/2020
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	06/10/2019	06/09/2020
Pre-Amplifier	EMC Instruments	EMC330	980096	11/20/2019	11/19/2020
Pre-Amplifier	EMC Instruments	EMC0011830	980199	11/20/2019	11/19/2020
Pre-Amplifier	EMC Instruments	EMC184045B	980135	11/20/2019	11/19/2020
Pre-Amplifier	EMC Instruments	EMC9135	980234	11/20/2019	11/19/2020
Pre-Amplifier	EMC Instruments	EMC12630SE	980271	11/20/2019	11/19/2020
Highpass Filter	Micro Tronics	BRM50701-01	G008	11/20/2019	11/19/2020
High Pass Filter	Micro-Tronics	G003	RF99	11/20/2019	11/19/2020
Notch Filter	Woken	EWT-54-0037	RF54	11/20/2019	11/19/2020
Notch Filter	Woken	EWT-54-0038	RF55	11/20/2019	11/19/2020
Lowpass Filter	Woken	EWT-56-0019	RF46	11/20/2019	11/19/2020
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17388/4	11/20/2019	11/19/2020
Coaxial Cable	Huber Suhner	RG 214/U	W22.03	11/20/2019	11/19/2020
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17413/4	11/20/2019	11/19/2020
Radio Communication Analyser	Anritsu	MT8821C	6262044739	12/06/2019	12/05/2020

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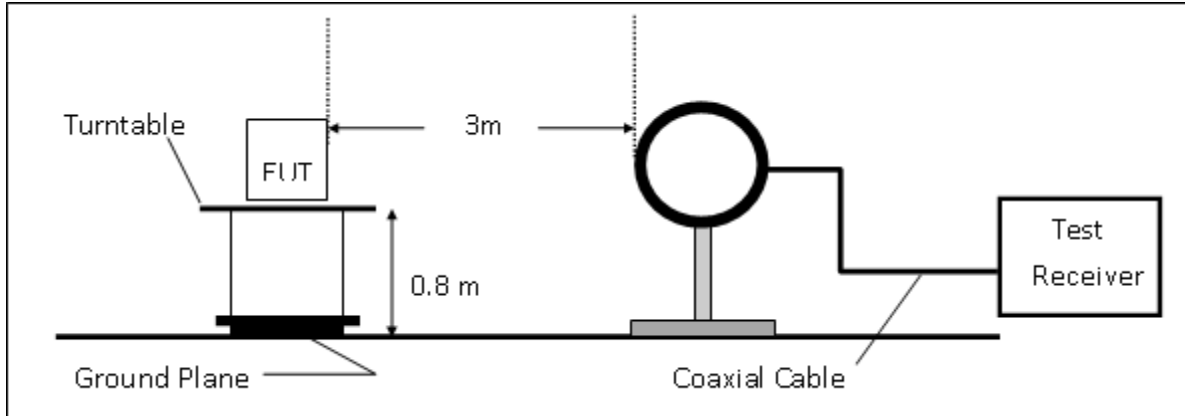
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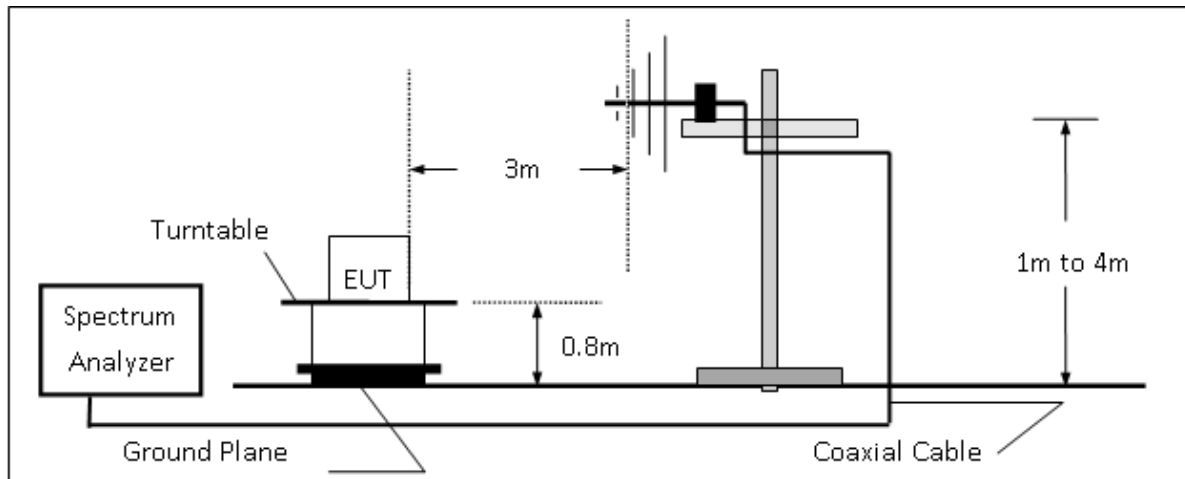
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## 11.4 Test SET-UP

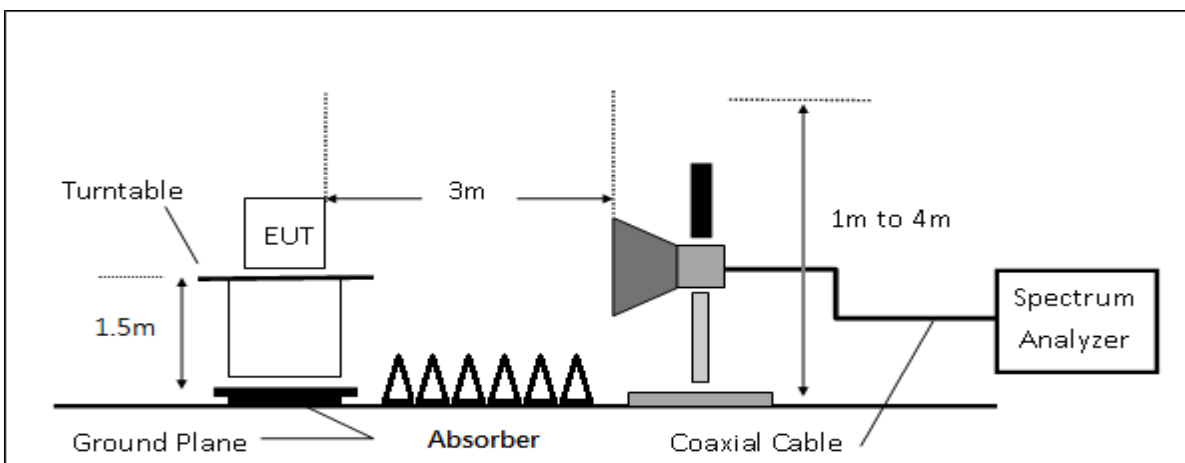
### (A) Radiated Emission Test Set-UP Frequency Below 30MHz.



### (B) Radiated Emission Test Set-UP, Frequency form 30MHz to 1000MHz



### (C) Radiated Emission Test Set-UP Frequency Over 1 GHz



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## 11.5 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=120 kHz and VBW=300 kHz for Peak Detector (PK) and Quasi-peak (QP) at frequency below 1 GHz.
7. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Peak Detector at frequency above 1 GHz.
8. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW  $\geq 1/T$  (Duty cycle < 98%) for Average Detector at frequency above 1 GHz.
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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## 11.6 Field Strength Calculation

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

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

**Where** *FS* = Field Strength

*CL* = Cable Attenuation Factor (Cable Loss)

*RA* = Reading Amplitude

*AG* = Amplifier Gain

*AF* = Antenna Factor

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

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

*Factor(dB) = Antenna Factor(dBuV/m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)*

## 11.7 Test Results of Radiated Spurious Emissions form 9 KHz to 30 MHz

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

## 11.8 Radiated Spurious Emission Measurement Result

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## 11.9 Below 1GHz Worst-Case Data:

### CDD Mode

Report Number :E2/2019/B0014

Test Date :2019-12-16

Operation Mode :802.11a / Band 1

Temp./Humi. :23.4/62

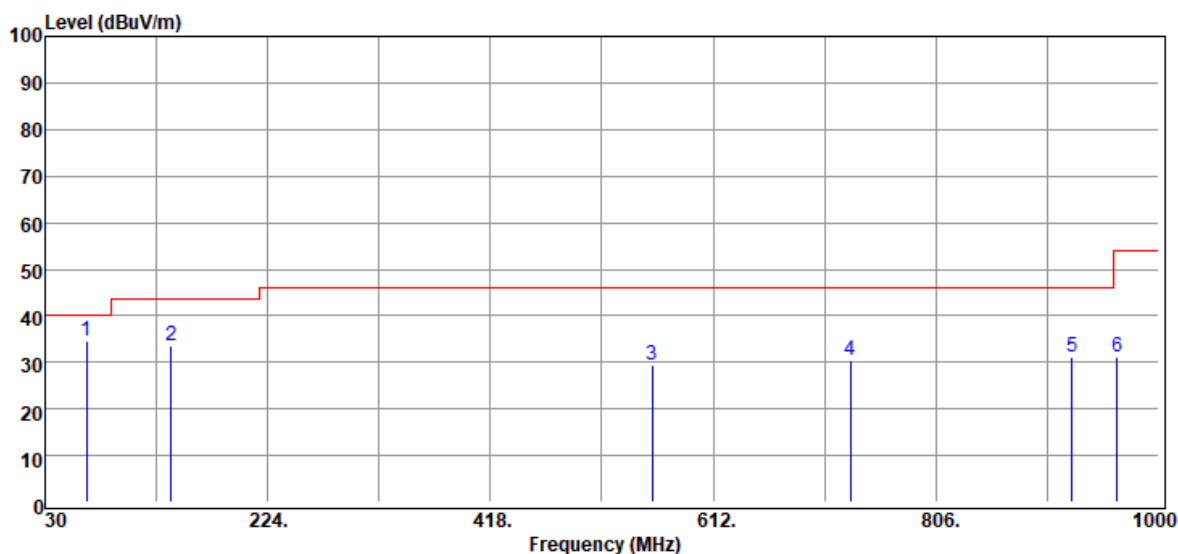
Test Channel :5220 MHz

Antenna Pol. :VERTICAL

Test Mode :TX CH MID

Engineer :Kailin

EUT Pol :E2 Plan



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
65.89	Peak	53.02	-18.50	34.52	40.00	-5.48
139.61	Peak	50.59	-16.93	33.66	43.50	-9.84
558.65	Peak	39.69	-10.18	29.51	46.00	-16.49
731.31	Peak	37.75	-7.15	30.60	46.00	-15.40
924.34	Peak	35.79	-4.78	31.01	46.00	-14.99
964.11	Peak	35.30	-4.22	31.08	54.00	-22.92

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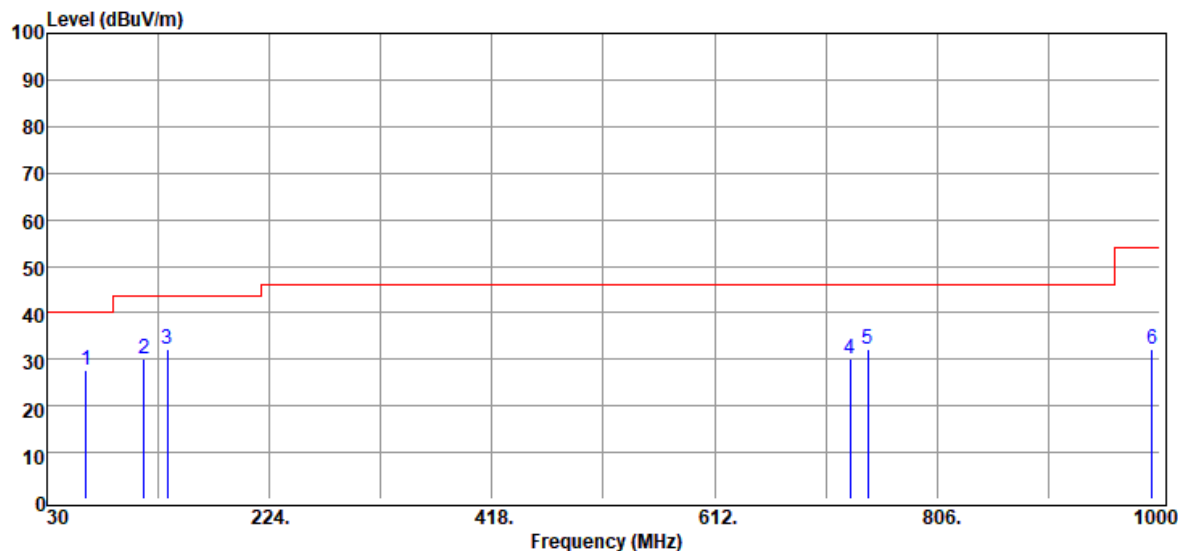
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Report Number :E2/2019/B0014  
 Operation Mode :802.11a / Band 1  
 Test Channel :5220 MHz  
 Test Mode :TX CH MID  
 EUT Pol :E2 Plan

Test Date :2019-12-16  
 Temp./Humi. :23.4/62  
 Antenna Pol. :HORIZONTAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
63.95	Peak	45.60	-18.09	27.51	40.00	-12.49
114.39	Peak	49.15	-19.17	29.98	43.50	-13.52
134.76	Peak	49.37	-17.36	32.01	43.50	-11.49
730.34	Peak	37.10	-7.14	29.96	46.00	-16.04
745.86	Peak	39.02	-6.86	32.16	46.00	-13.84
993.21	Peak	36.19	-4.09	32.10	54.00	-21.90

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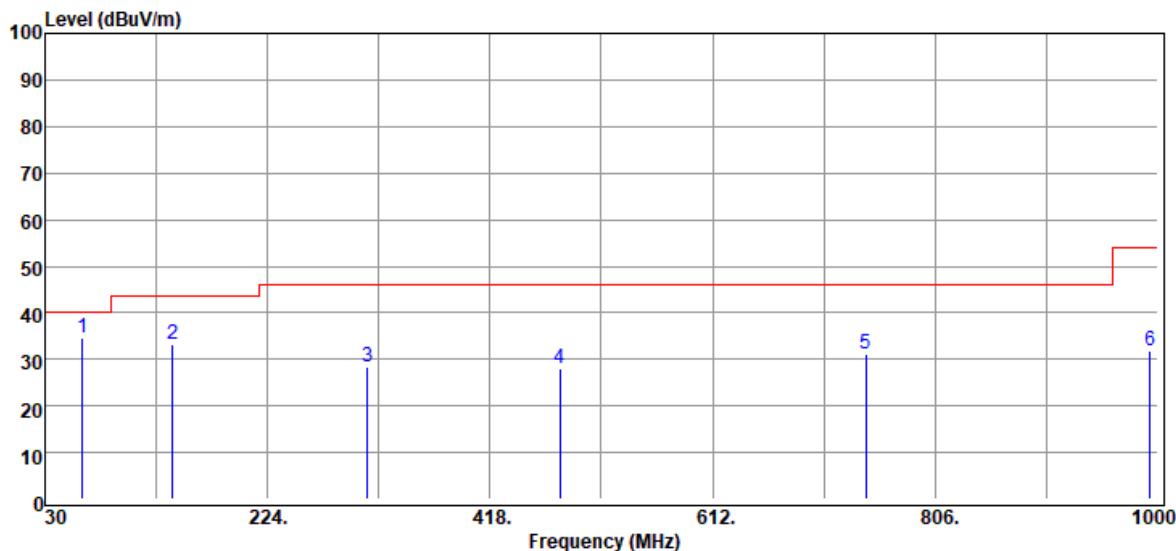
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Report Number :E2/2019/B0014  
 Operation Mode :802.11a / Band 4  
 Test Channel :5785 MHz  
 Test Mode :TX CH MID  
 EUT Pol :E2 Plan

Test Date :2019-12-16  
 Temp./Humi. :23.4/62  
 Antenna Pol. :VERTICAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
62.98	Peak	52.48	-18.01	34.47	40.00	-5.53
141.55	Peak	50.13	-16.79	33.34	43.50	-10.16
311.30	Peak	43.54	-15.18	28.36	46.00	-17.64
479.11	Peak	39.28	-11.24	28.04	46.00	-17.96
745.86	Peak	38.15	-6.86	31.29	46.00	-14.71
993.21	Peak	35.94	-4.09	31.85	54.00	-22.15

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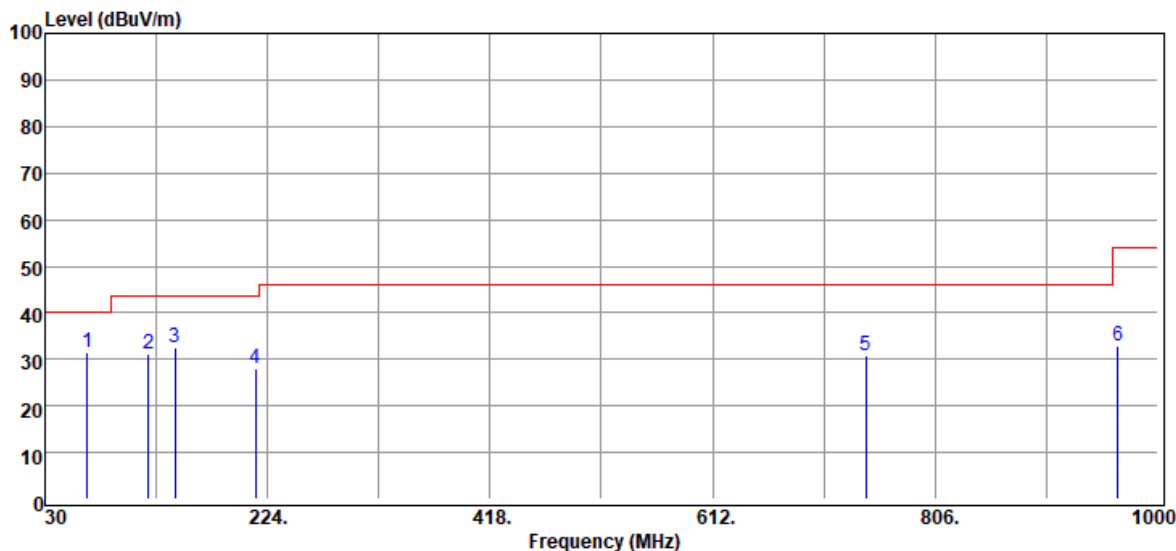
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Report Number :E2/2019/B0014  
 Operation Mode :802.11a / Band 4  
 Test Channel :5785 MHz  
 Test Mode :TX CH MID  
 EUT Pol :E2 Plan

Test Date :2019-12-16  
 Temp./Humi. :23.4/62  
 Antenna Pol. :HORIZONTAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
66.86	Peak	49.95	-18.59	31.36	40.00	-8.64
120.21	Peak	49.87	-18.75	31.12	43.50	-12.38
143.49	Peak	49.34	-16.70	32.64	43.50	-10.86
213.33	Peak	46.71	-18.66	28.05	43.50	-15.45
745.86	Peak	37.71	-6.86	30.85	46.00	-15.15
965.08	Peak	37.13	-4.20	32.93	54.00	-21.07

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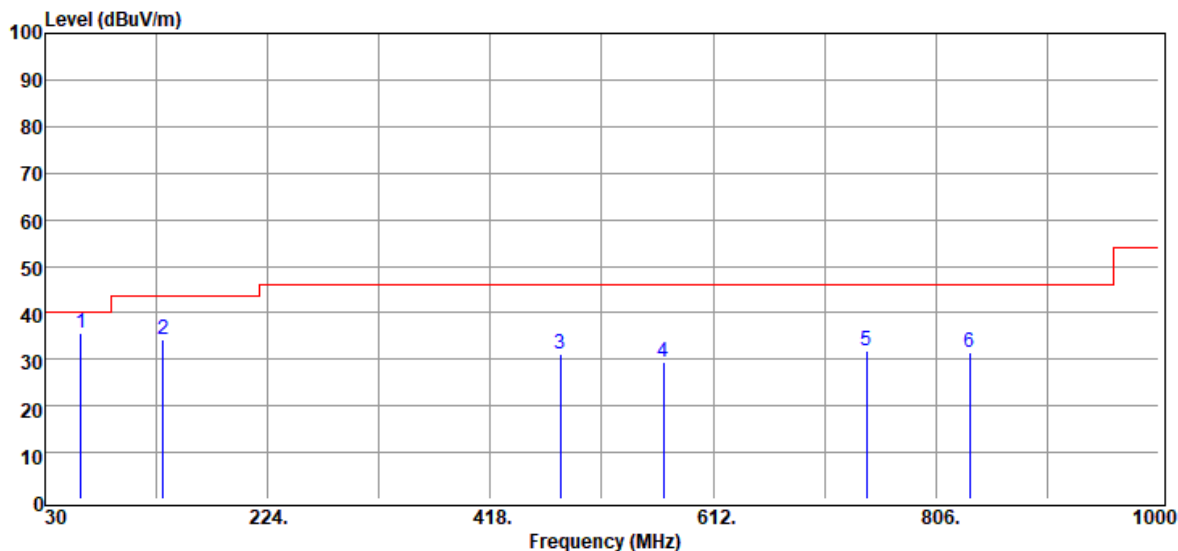
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Report Number	:E2/2019/B0014	Test Date	:2019-12-16
Operation Mode	:802.11ac80 / Band 1	Temp./Humi.	:23.4/62
Test Channel	:5210 MHz	Antenna Pol.	:VERTICAL
Test Mode	:TX CH LOW	Engineer	:Kailin
EUT Pol	:E2 Plan		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
61.04	Peak	53.35	-17.68	35.67	40.00	-4.33
132.82	Peak	51.76	-17.61	34.15	43.50	-9.35
479.11	Peak	42.32	-11.24	31.08	46.00	-14.92
568.35	Peak	39.05	-9.77	29.28	46.00	-16.72
745.86	Peak	38.54	-6.86	31.68	46.00	-14.32
835.10	Peak	37.82	-6.19	31.63	46.00	-14.37

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Report Number :E2/2019/B0014

Operation Mode :802.11ac80 / Band 1

Test Channel :5210 MHz

Test Mode :TX CH LOW

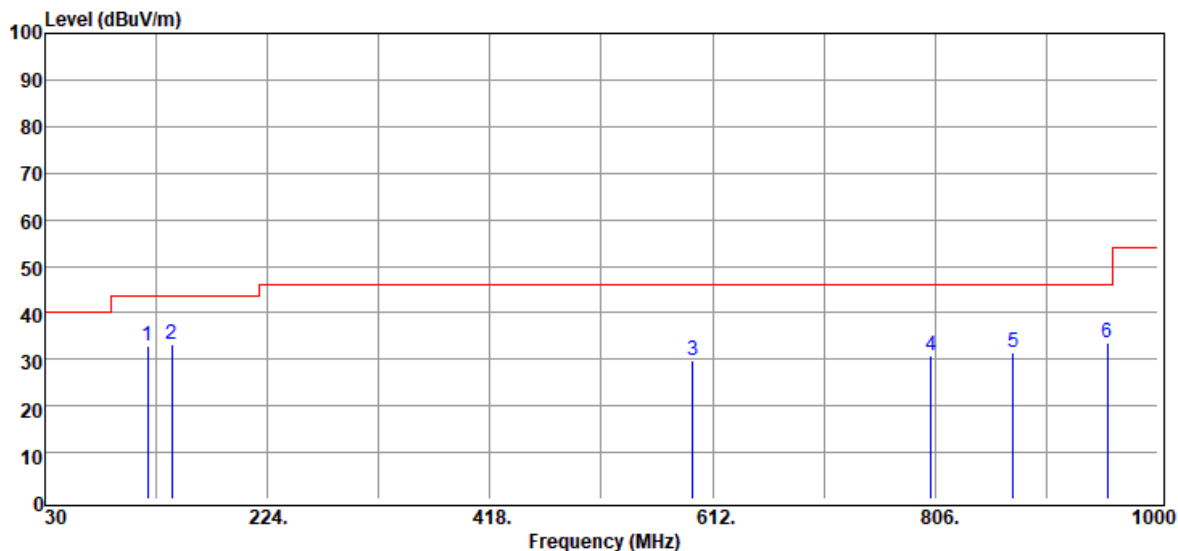
EUT Pol :E2 Plan

Test Date :2019-12-16

Temp./Humi. :23.4/62

Antenna Pol. :HORIZONTAL

Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
119.24	Peak	51.78	-18.85	32.93	43.50	-10.57
140.58	Peak	50.00	-16.88	33.12	43.50	-10.38
594.54	Peak	38.91	-9.03	29.88	46.00	-16.12
802.12	Peak	36.88	-6.20	30.68	46.00	-15.32
873.90	Peak	37.14	-5.76	31.38	46.00	-14.62
956.35	Peak	38.07	-4.40	33.67	46.00	-12.33

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Report Number :E2/2019/B0014

Operation Mode :802.11ac80 / Band 4

Test Channel :5775 MHz

Test Mode :TX CH LOW

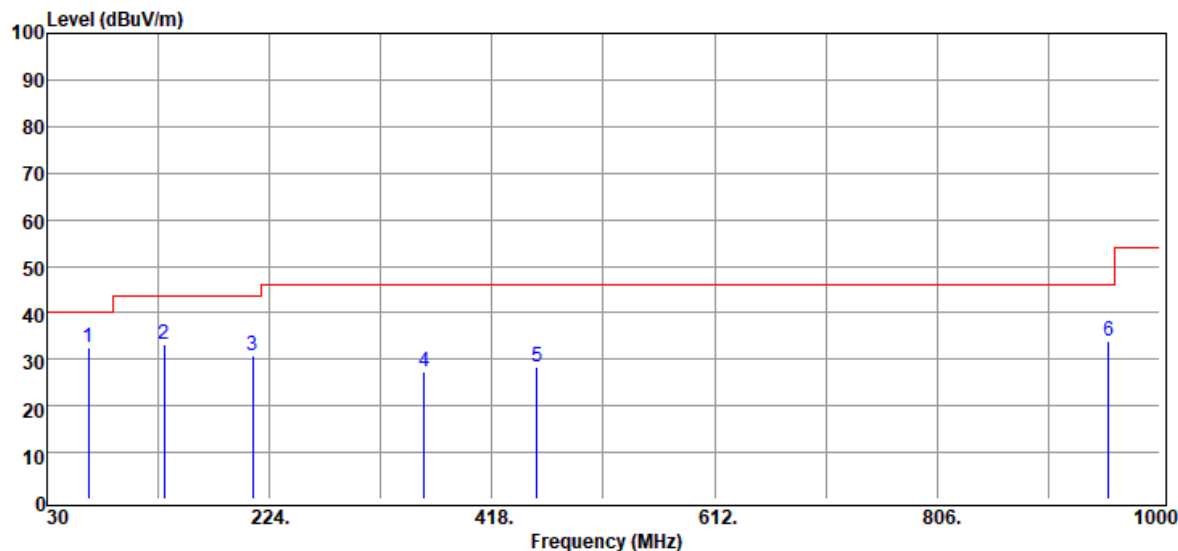
EUT Pol :E2 Plan

Test Date :2019-12-16

Temp./Humi. :23.4/62

Antenna Pol. :VERTICAL

Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
65.89	Peak	51.16	-18.50	32.66	40.00	-7.34
131.85	Peak	50.87	-17.71	33.16	43.50	-10.34
209.45	Peak	49.58	-18.70	30.88	43.50	-12.62
358.83	Peak	41.18	-13.95	27.23	46.00	-18.77
456.80	Peak	39.76	-11.34	28.42	46.00	-17.58
955.38	Peak	38.27	-4.43	33.84	46.00	-12.16

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Report Number :E2/2019/B0014

Operation Mode :802.11ac80 / Band 4

Test Channel :5775 MHz

Test Mode :TX CH LOW

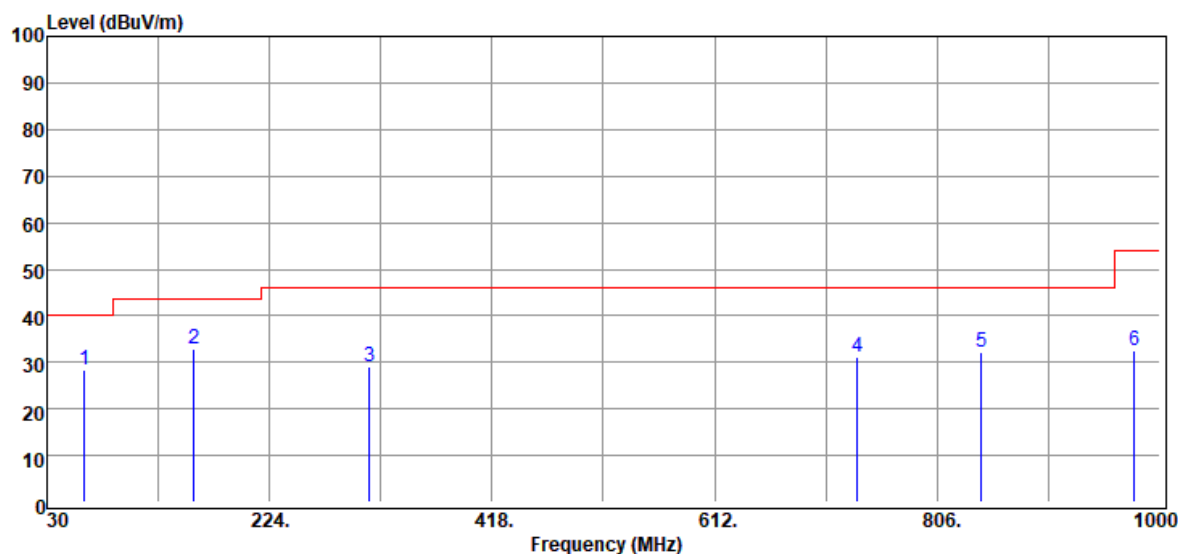
EUT Pol :E2 Plan

Test Date :2019-12-16

Temp./Humi. :23.4/62

Antenna Pol. :HORIZONTAL

Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
62.98	Peak	46.44	-18.01	28.43	40.00	-11.57
158.04	Peak	48.91	-16.21	32.70	43.50	-10.80
311.30	Peak	44.24	-15.18	29.06	46.00	-16.94
736.16	Peak	38.14	-7.15	30.99	46.00	-15.01
844.80	Peak	38.43	-6.19	32.24	46.00	-13.76
977.69	Peak	36.77	-4.10	32.67	54.00	-21.33

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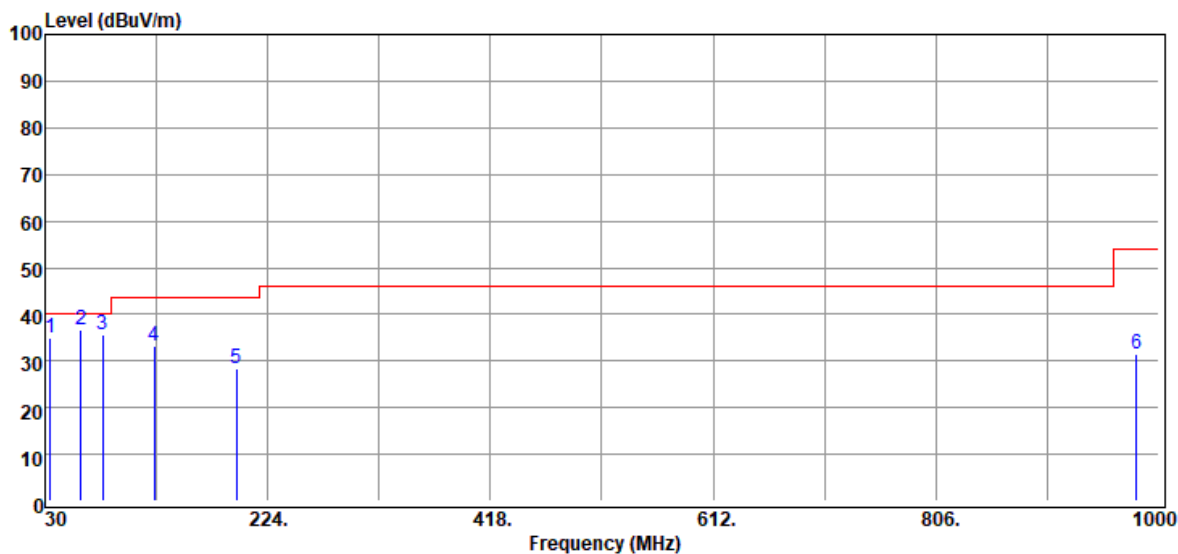
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## Beamforming Mode

Report Number :E2/2019/B0014  
Operation Mode :802.11a / Band 1  
Test Channel :5220 MHz  
Test Mode :TX CH MID  
EUT Pol :E2 Plan

Test Date :2020-01-08  
Temp./Humi. :21.4/60  
Antenna Pol. :VERTICAL  
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
34.85	Peak	53.17	-18.07	35.10	40.00	-4.90
61.04	Peak	54.36	-17.68	36.68	40.00	-3.32
80.44	Peak	57.15	-21.51	35.64	40.00	-4.36
125.06	Peak	51.70	-18.37	33.33	43.50	-10.17
196.84	Peak	46.89	-18.43	28.46	43.50	-15.04
980.60	Peak	35.57	-4.07	31.50	54.00	-22.50

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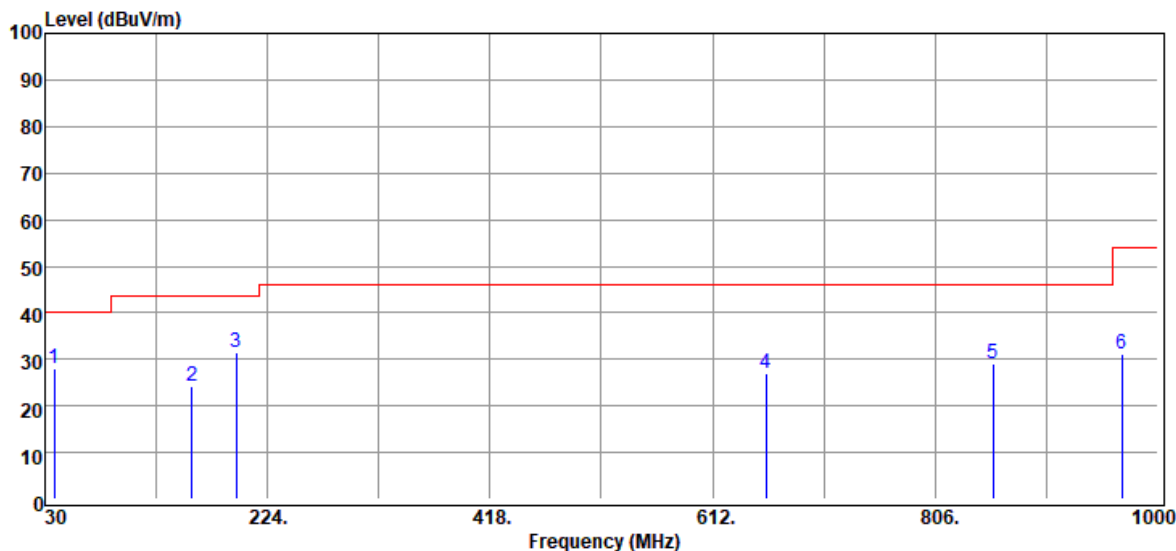
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Report Number :E2/2019/B0014  
 Operation Mode :802.11a / Band 1  
 Test Channel :5220 MHz  
 Test Mode :TX CH MID  
 EUT Pol :E2 Plan

Test Date :2020-01-08  
 Temp./Humi. :21.4/60  
 Antenna Pol. :HORIZONTAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
37.76	Peak	45.82	-17.75	28.07	40.00	-11.93
158.04	Peak	40.43	-16.21	24.22	43.50	-19.28
196.84	Peak	50.02	-18.43	31.59	43.50	-11.91
658.56	Peak	35.12	-8.26	26.86	46.00	-19.14
856.44	Peak	35.13	-6.13	29.00	46.00	-17.00
968.96	Peak	35.08	-4.10	30.98	54.00	-23.02

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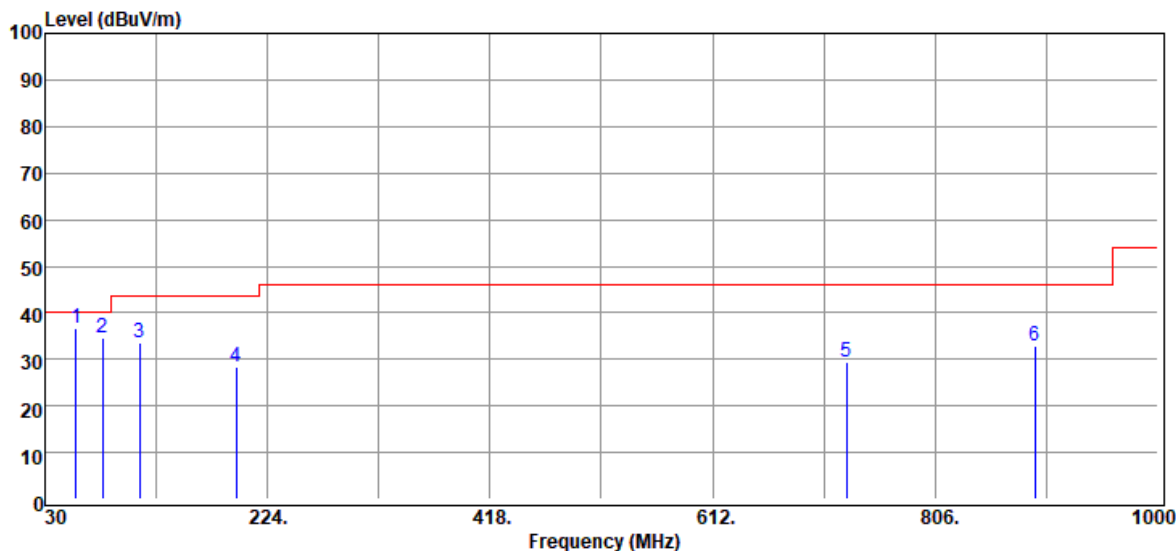
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Report Number :E2/2019/B0014  
 Operation Mode :802.11a / Band 4  
 Test Channel :5785 MHz  
 Test Mode :TX CH MID  
 EUT Pol :E2 Plan

Test Date :2020-01-08  
 Temp./Humi. :21.4/60  
 Antenna Pol. :VERTICAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
57.16	Peak	53.72	-17.15	36.57	40.00	-3.43
80.44	Peak	56.03	-21.51	34.52	40.00	-5.48
112.45	Peak	52.82	-19.27	33.55	43.50	-9.95
196.84	Peak	46.73	-18.43	28.30	43.50	-15.20
728.40	Peak	36.64	-7.18	29.46	46.00	-16.54
893.30	Peak	38.36	-5.39	32.97	46.00	-13.03

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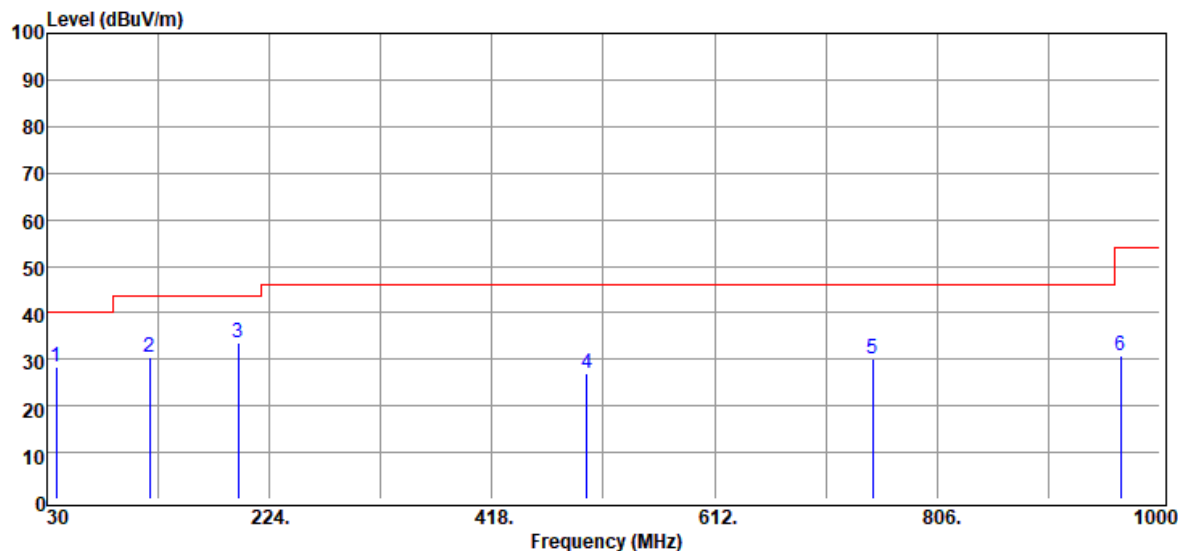
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Report Number :E2/2019/B0014  
 Operation Mode :802.11a / Band 4  
 Test Channel :5785 MHz  
 Test Mode :TX CH MID  
 EUT Pol :E2 Plan

Test Date :2020-01-08  
 Temp./Humi. :21.4/60  
 Antenna Pol. :HORIZONTAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
37.76	Peak	46.26	-17.75	28.51	40.00	-11.49
119.24	Peak	49.34	-18.85	30.49	43.50	-13.01
196.84	Peak	52.15	-18.43	33.72	43.50	-9.78
500.45	Peak	38.23	-11.11	27.12	46.00	-18.88
749.74	Peak	36.70	-6.75	29.95	46.00	-16.05
966.05	Peak	34.90	-4.18	30.72	54.00	-23.28

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Report Number :E2/2019/B0014

Test Date :2020-01-08

Operation Mode :802.11ac80 / Band 1

Temp./Humi. :21.4/60

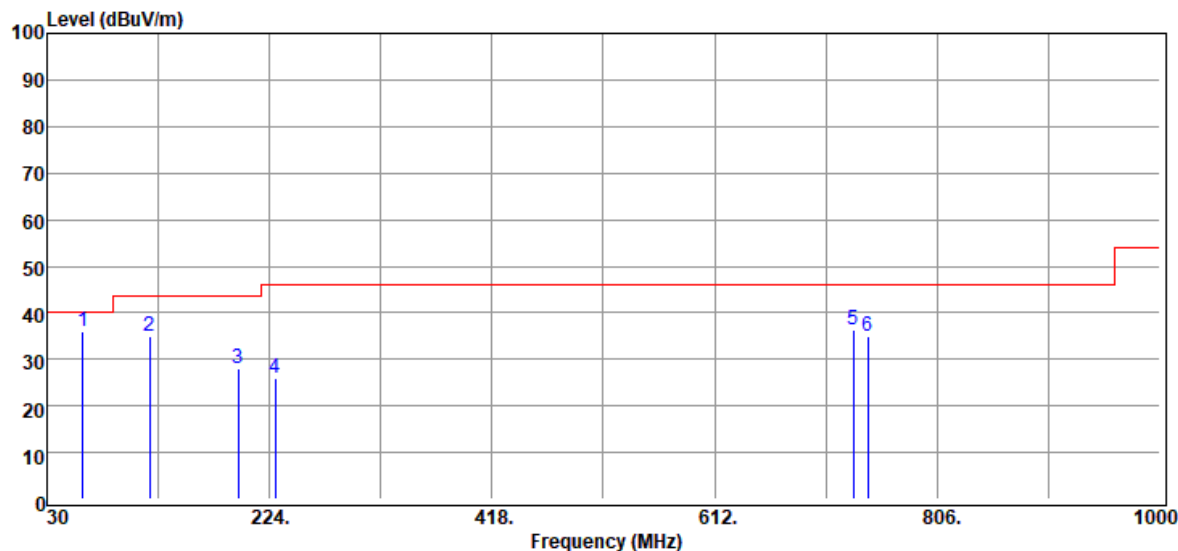
Test Channel :5210 MHz

Antenna Pol. :VERTICAL

Test Mode :TX CH LOW

Engineer :Kailin

EUT Pol :E2 Plan



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
61.04	Peak	53.76	-17.68	36.08	40.00	-3.92
119.24	Peak	53.96	-18.85	35.11	43.50	-8.39
196.84	Peak	46.59	-18.43	28.16	43.50	-15.34
228.85	Peak	43.86	-17.89	25.97	46.00	-20.03
733.25	Peak	43.35	-7.17	36.18	46.00	-9.82
745.86	Peak	41.98	-6.86	35.12	46.00	-10.88

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Report Number :E2/2019/B0014

Operation Mode :802.11ac80 / Band 1

Test Channel :5210 MHz

Test Mode :TX CH LOW

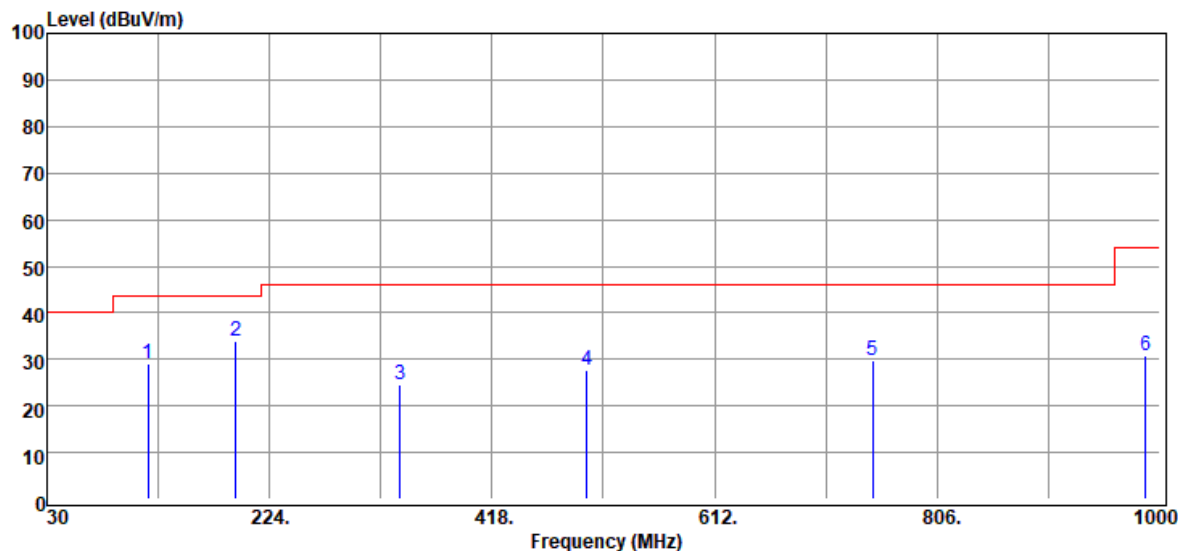
EUT Pol :E2 Plan

Test Date :2020-01-08

Temp./Humi. :21.4/60

Antenna Pol. :HORIZONTAL

Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
118.27	Peak	47.78	-18.88	28.90	43.50	-14.60
194.90	Peak	52.16	-18.40	33.76	43.50	-9.74
337.49	Peak	38.65	-14.00	24.65	46.00	-21.35
500.45	Peak	38.67	-11.11	27.56	46.00	-18.44
749.74	Peak	36.36	-6.75	29.61	46.00	-16.39
987.39	Peak	35.03	-4.08	30.95	54.00	-23.05

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Report Number :E2/2019/B0014

Operation Mode :802.11ac80 / Band 4

Test Channel :5775 MHz

Test Mode :TX CH LOW

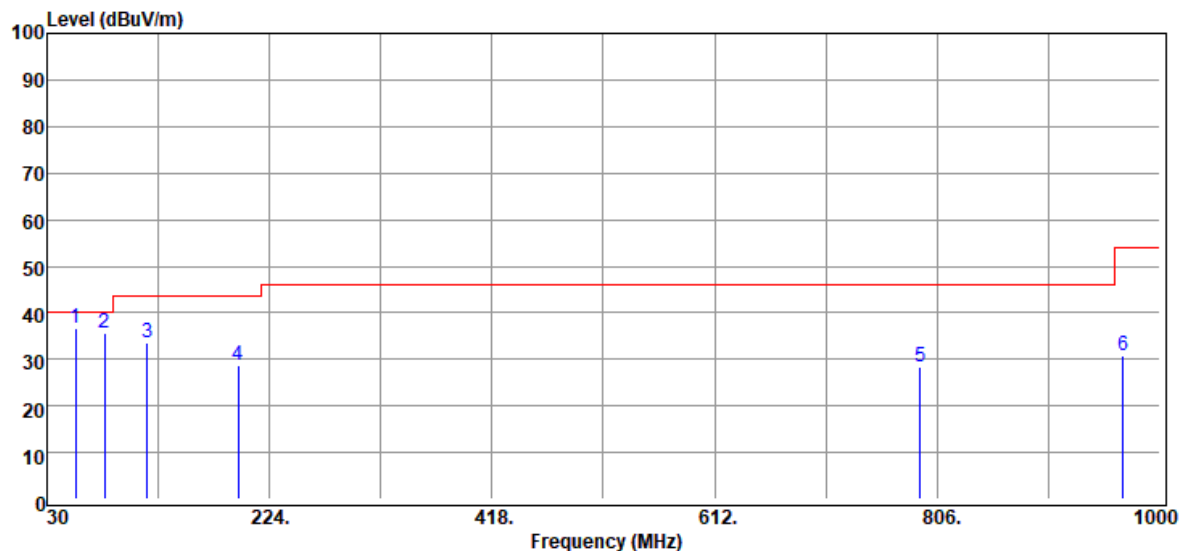
EUT Pol :E2 Plan

Test Date :2020-01-08

Temp./Humi. :21.4/60

Antenna Pol. :VERTICAL

Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
55.22	Peak	53.83	-17.05	36.78	40.00	-3.22
80.44	Peak	56.98	-21.51	35.47	40.00	-4.53
117.30	Peak	52.67	-18.96	33.71	43.50	-9.79
196.84	Peak	47.11	-18.43	28.68	43.50	-14.82
791.45	Peak	34.66	-6.13	28.53	46.00	-17.47
967.99	Peak	34.88	-4.13	30.75	54.00	-23.25

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Report Number :E2/2019/B0014

Operation Mode :802.11ac80 / Band 4

Test Channel :5775 MHz

Test Mode :TX CH LOW

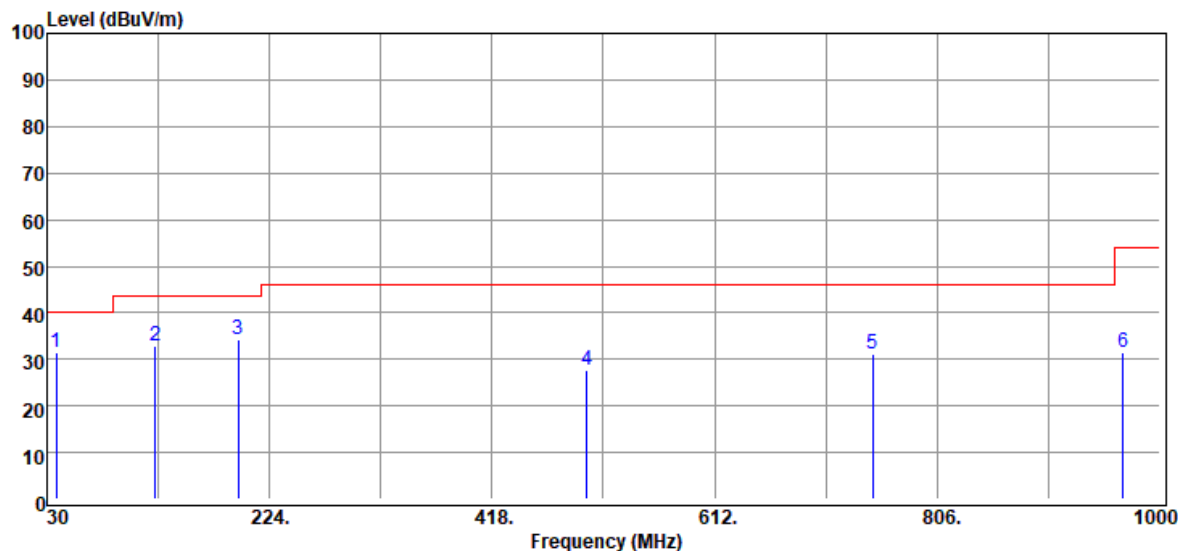
EUT Pol :E2 Plan

Test Date :2020-01-08

Temp./Humi. :21.4/60

Antenna Pol. :HORIZONTAL

Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
37.76	Peak	49.40	-17.75	31.65	40.00	-8.35
124.09	Peak	51.20	-18.47	32.73	43.50	-10.77
196.84	Peak	52.81	-18.43	34.38	43.50	-9.12
500.45	Peak	38.78	-11.11	27.67	46.00	-18.33
749.74	Peak	37.76	-6.75	31.01	46.00	-14.99
967.99	Peak	35.48	-4.13	31.35	54.00	-22.65

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## 11.9.1 Above 1GHz Worst-Case Data:

### CDD Mode

Report Number :E2/2019/B0014

Test Date :2019-12-16

Operation Mode :802.11a / Band 1

Temp./Humi. :23.2/59

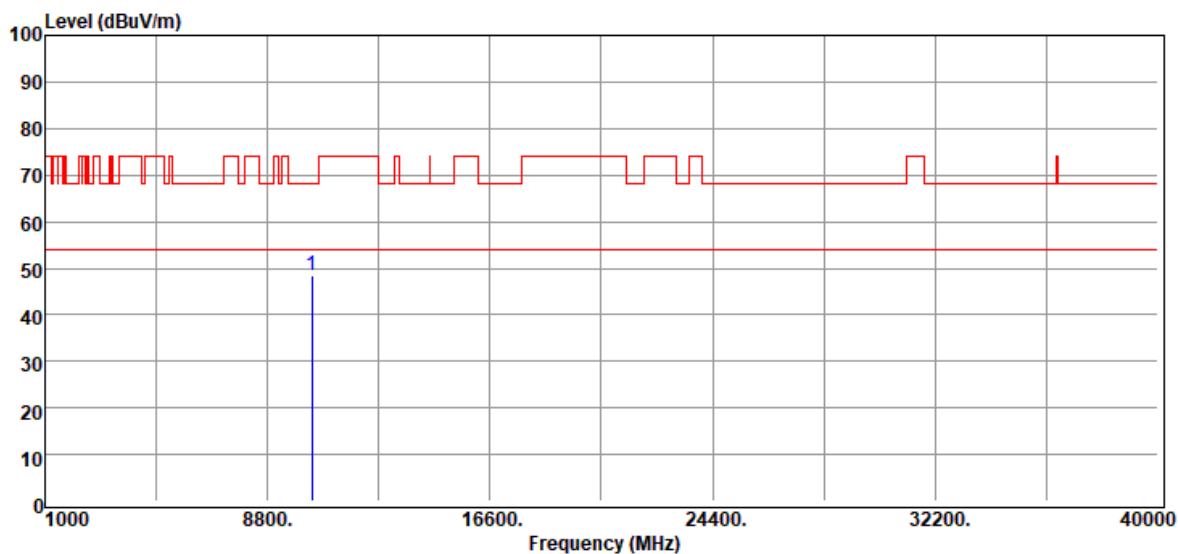
Test Channel :5180 MHz

Antenna Pol. :VERTICAL

Test Mode :TX CH LOW

Engineer :Kailin

EUT Pol :E2 Plan



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10360.00	Peak	38.13	10.28	48.41	68.20	-19.79

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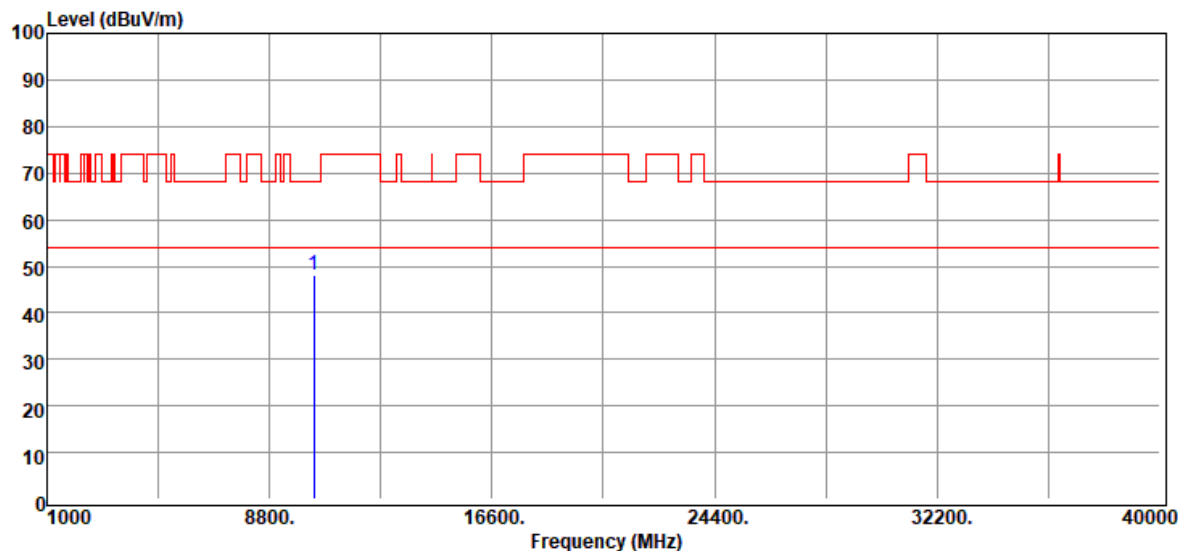
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Report Number :E2/2019/B0014  
 Operation Mode :802.11a / Band 1  
 Test Channel :5180 MHz  
 Test Mode :TX CH LOW  
 EUT Pol :E2 Plan

Test Date :2019-12-16  
 Temp./Humi. :23.2/59  
 Antenna Pol. :HORIZONTAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10360.00	Peak	37.66	10.28	47.94	68.20	-20.26

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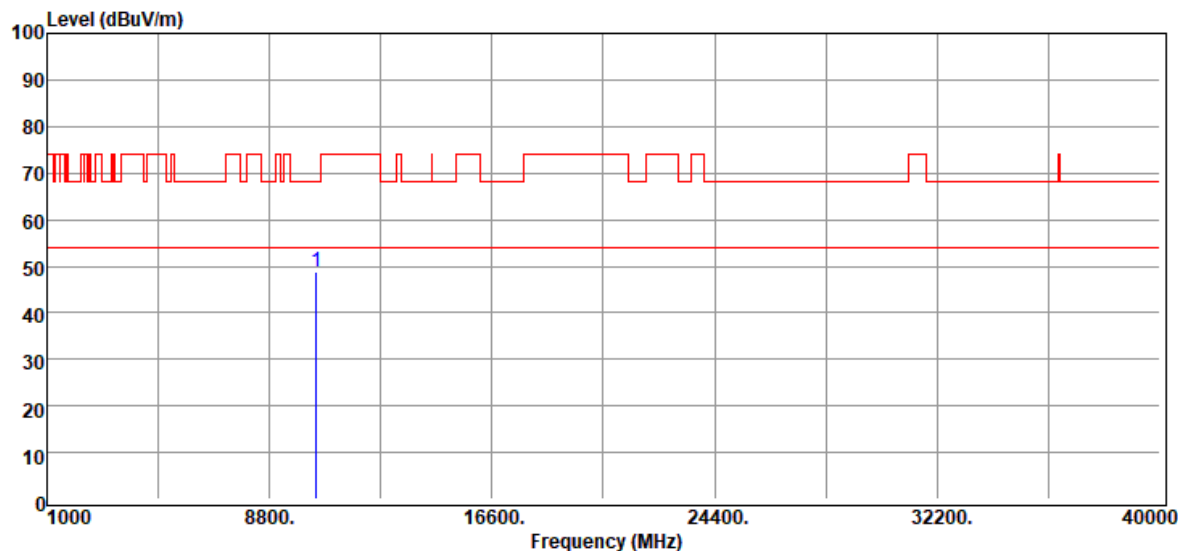
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Report Number :E2/2019/B0014  
 Operation Mode :802.11a / Band 1  
 Test Channel :5220 MHz  
 Test Mode :TX CH MID  
 EUT Pol :E2 Plan

Test Date :2019-12-16  
 Temp./Humi. :23.2/59  
 Antenna Pol. :VERTICAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10440.00	Peak	37.84	11.00	48.84	68.20	-19.36

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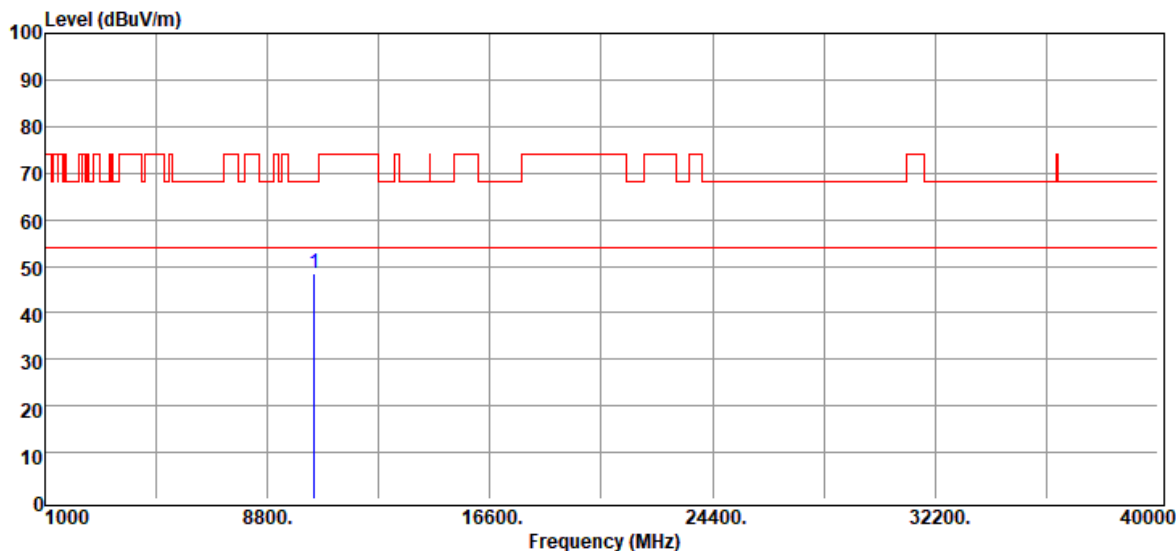
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Report Number :E2/2019/B0014  
 Operation Mode :802.11a / Band 1  
 Test Channel :5220 MHz  
 Test Mode :TX CH MID  
 EUT Pol :E2 Plan

Test Date :2019-12-16  
 Temp./Humi. :23.2/59  
 Antenna Pol. :HORIZONTAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10440.00	Peak	37.28	11.00	48.28	68.20	-19.92

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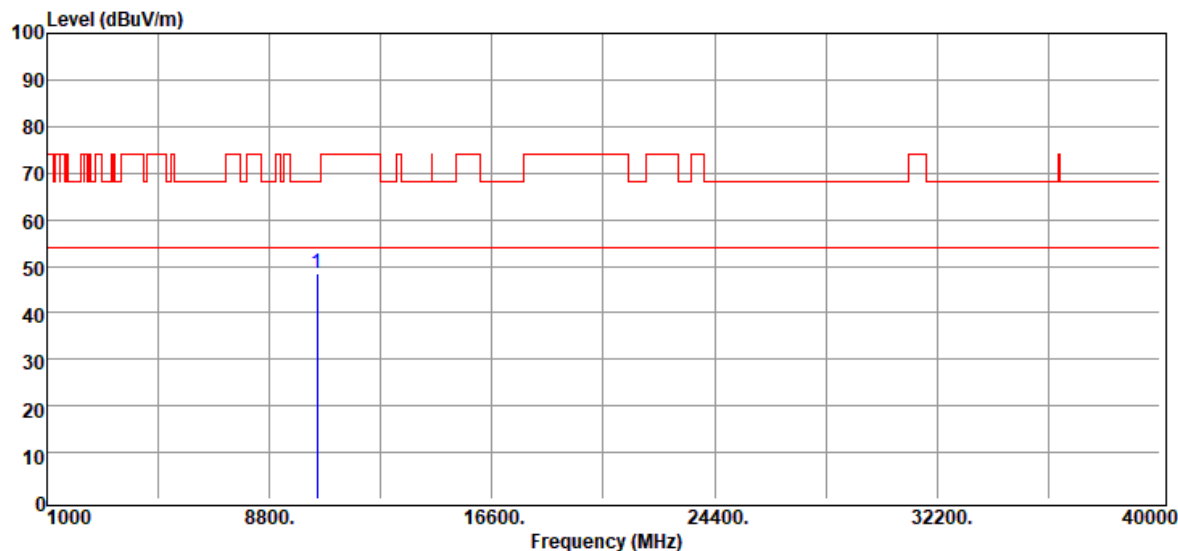
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Report Number :E2/2019/B0014  
 Operation Mode :802.11a / Band 1  
 Test Channel :5240 MHz  
 Test Mode :TX CH HIGH  
 EUT Pol :E2 Plan

Test Date :2019-12-16  
 Temp./Humi. :23.2/59  
 Antenna Pol. :VERTICAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10480.00	Peak	37.26	11.18	48.44	68.20	-19.76

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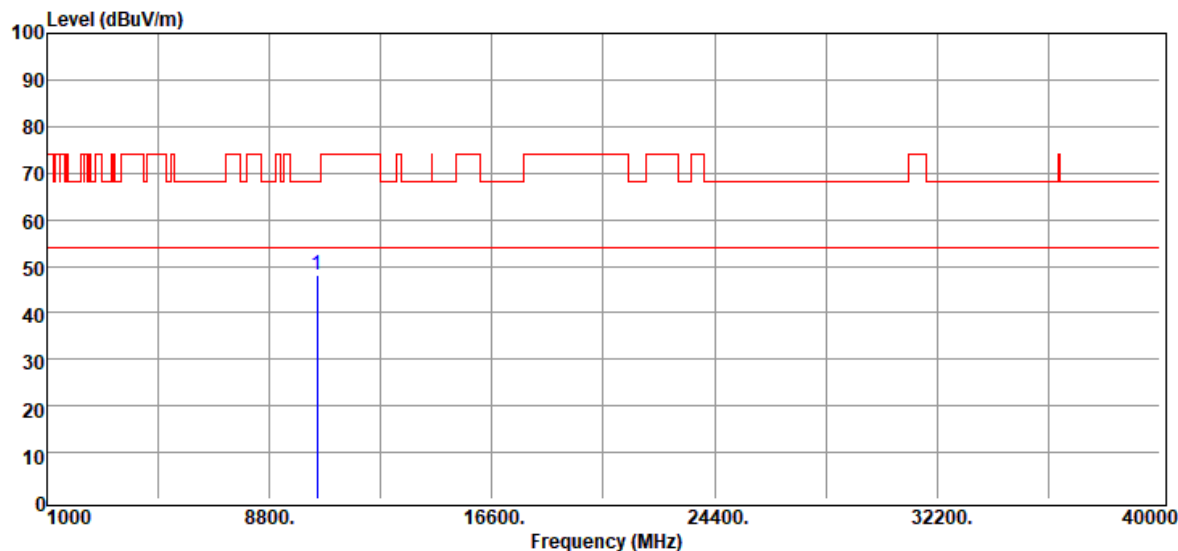
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Report Number :E2/2019/B0014  
 Operation Mode :802.11a / Band 1  
 Test Channel :5240 MHz  
 Test Mode :TX CH HIGH  
 EUT Pol :E2 Plan

Test Date :2019-12-16  
 Temp./Humi. :23.2/59  
 Antenna Pol. :HORIZONTAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10480.00	Peak	36.99	11.18	48.17	68.20	-20.03

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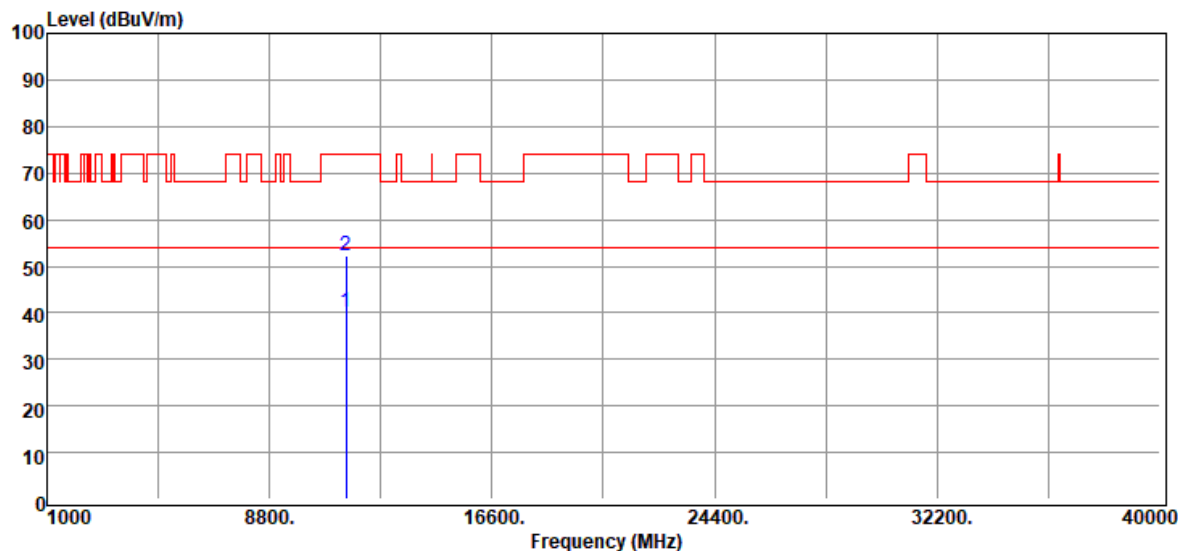
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Report Number :E2/2019/B0014  
 Operation Mode :802.11a / Band 4  
 Test Channel :5745 MHz  
 Test Mode :TX CH LOW  
 EUT Pol :E2 Plan

Test Date :2019-12-16  
 Temp./Humi. :23.2/59  
 Antenna Pol. :VERTICAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11490.00	Average	27.44	12.69	40.13	54.00	-13.87
11490.00	Peak	39.55	12.69	52.24	74.00	-21.76

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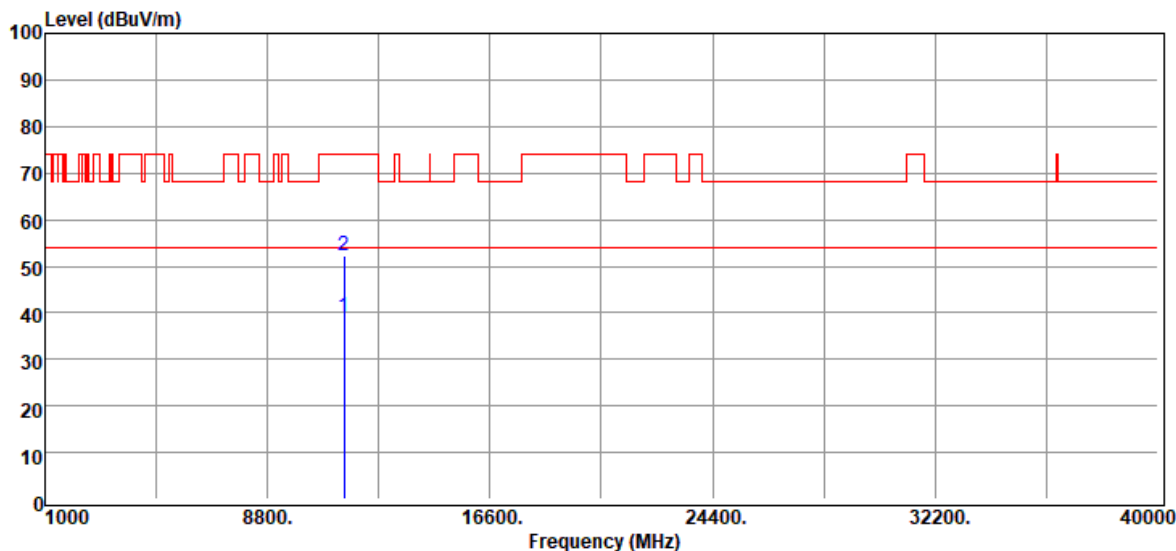
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Report Number :E2/2019/B0014  
 Operation Mode :802.11a / Band 4  
 Test Channel :5745 MHz  
 Test Mode :TX CH LOW  
 EUT Pol :E2 Plan

Test Date :2019-12-16  
 Temp./Humi. :23.2/59  
 Antenna Pol. :HORIZONTAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11490.00	Average	26.56	12.69	39.25	54.00	-14.75
11490.00	Peak	39.48	12.69	52.17	74.00	-21.83

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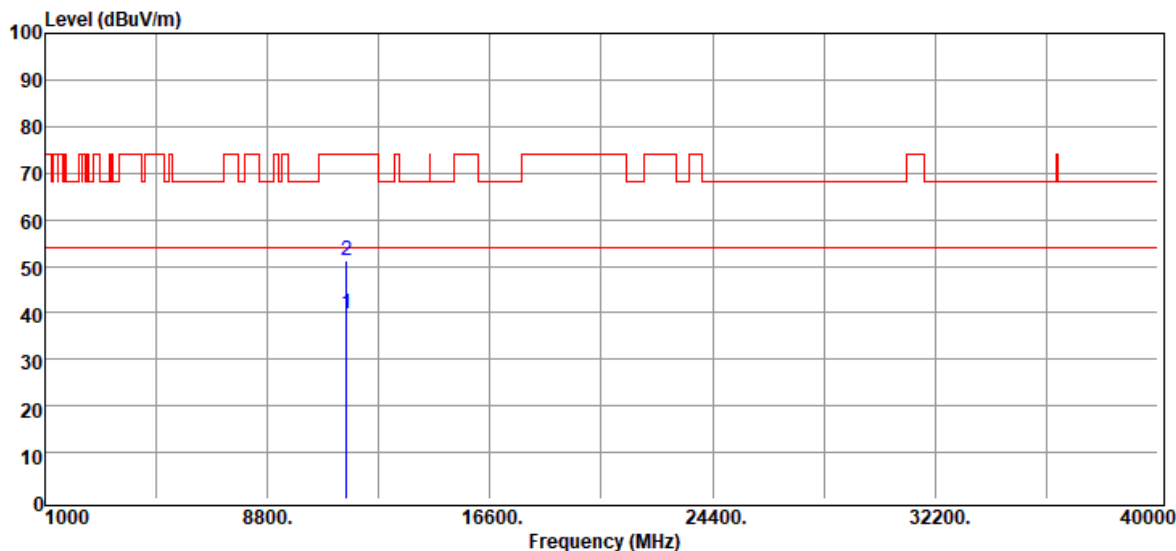
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Report Number :E2/2019/B0014  
 Operation Mode :802.11a / Band 4  
 Test Channel :5785 MHz  
 Test Mode :TX CH MID  
 EUT Pol :E2 Plan

Test Date :2019-12-16  
 Temp./Humi. :23.2/59  
 Antenna Pol. :VERTICAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11570.00	Average	27.45	12.38	39.83	54.00	-14.17
11570.00	Peak	39.00	12.38	51.38	74.00	-22.62

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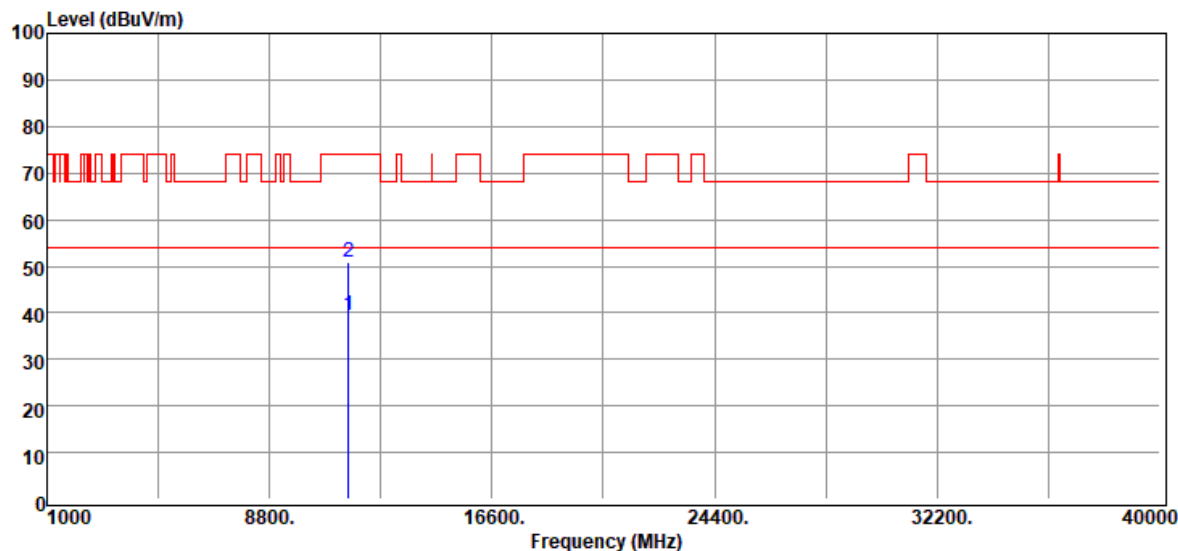
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Report Number :E2/2019/B0014  
Operation Mode :802.11a / Band 4  
Test Channel :5785 MHz  
Test Mode :TX CH MID  
EUT Pol :E2 Plan

Test Date :2019-12-16  
Temp./Humi. :23.2/59  
Antenna Pol. :HORIZONTAL  
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11570.00	Average	27.12	12.38	39.50	54.00	-14.50
11570.00	Peak	38.41	12.38	50.79	74.00	-23.21

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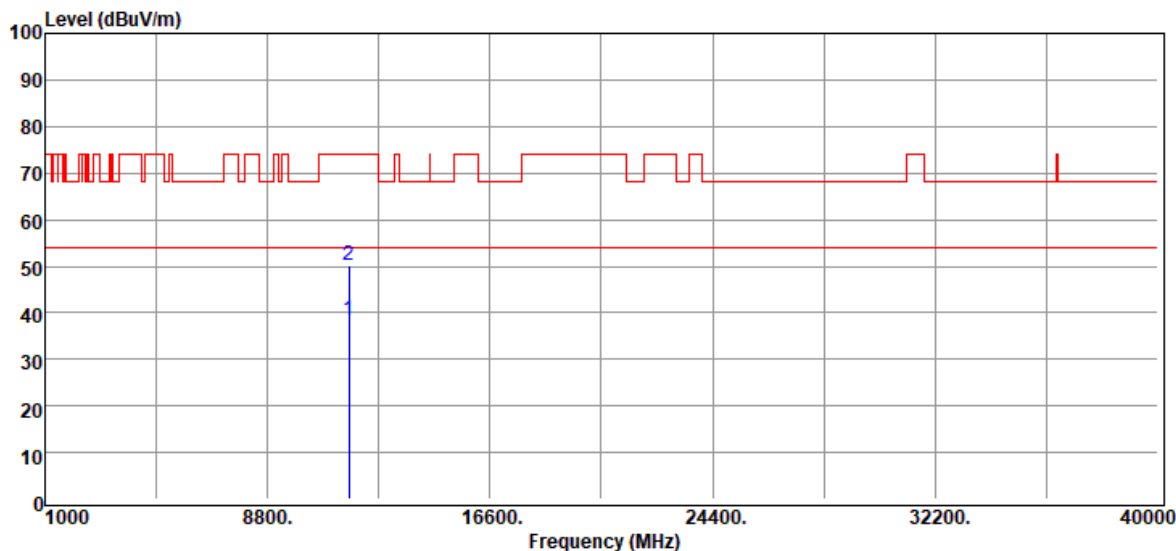
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Report Number :E2/2019/B0014  
 Operation Mode :802.11a / Band 4  
 Test Channel :5825 MHz  
 Test Mode :TX CH HIGH  
 EUT Pol :E2 Plan

Test Date :2019-12-16  
 Temp./Humi. :23.2/59  
 Antenna Pol. :VERTICAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11650.00	Average	27.17	11.21	38.38	54.00	-15.62
11650.00	Peak	38.96	11.21	50.17	74.00	-23.83

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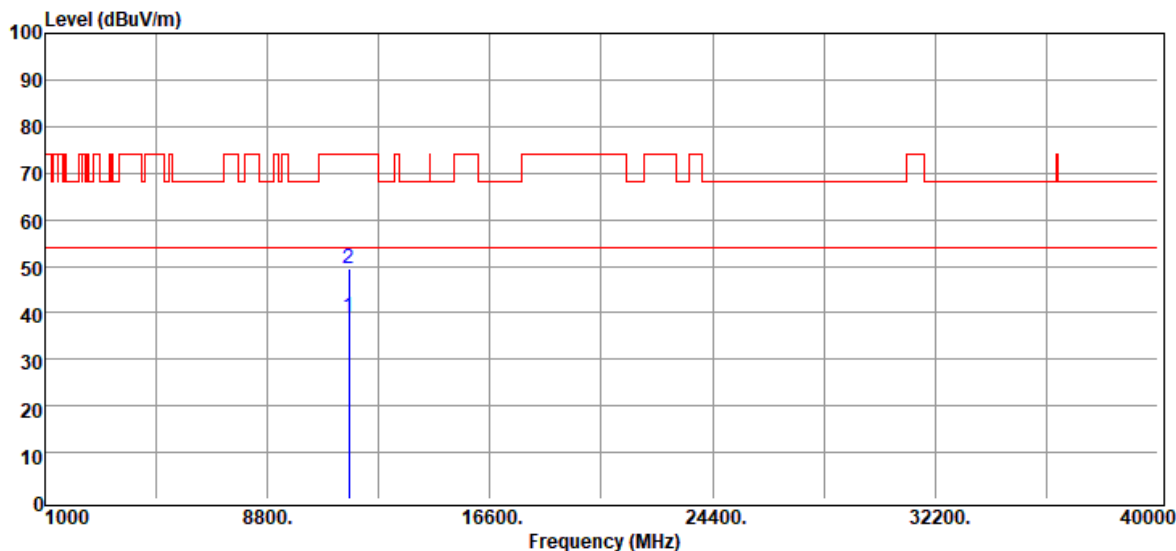
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Report Number :E2/2019/B0014  
Operation Mode :802.11a / Band 4  
Test Channel :5825 MHz  
Test Mode :TX CH HIGH  
EUT Pol :E2 Plan

Test Date :2019-12-16  
Temp./Humi. :23.2/59  
Antenna Pol. :HORIZONTAL  
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11650.00	Average	27.82	11.21	39.03	54.00	-14.97
11650.00	Peak	38.20	11.21	49.41	74.00	-24.59

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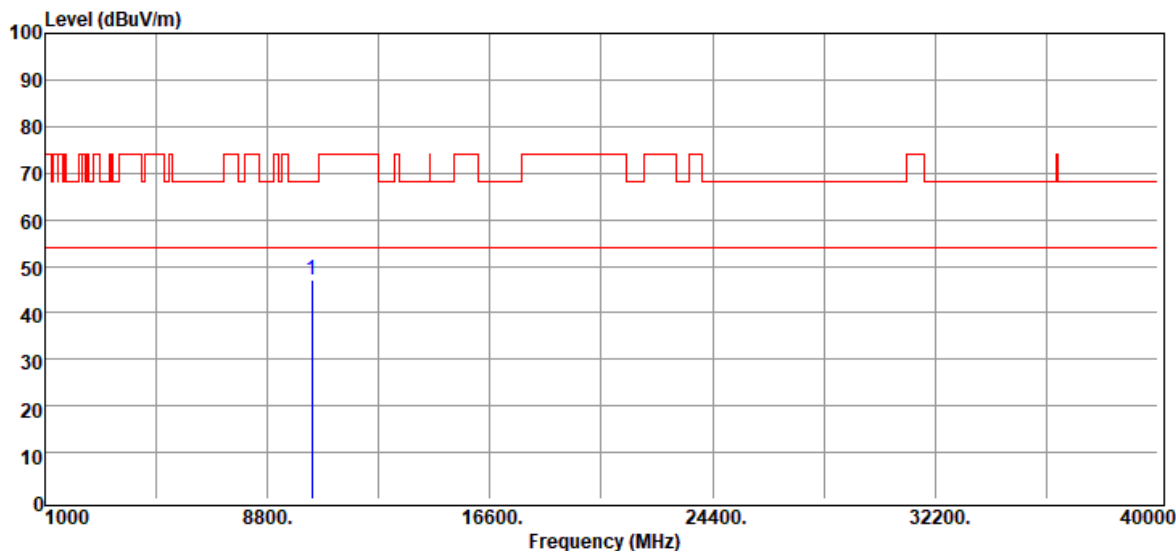
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Report Number :E2/2019/B0014  
 Operation Mode :802.11n20 / Band 1  
 Test Channel :5180 MHz  
 Test Mode :TX CH LOW  
 EUT Pol :E2 Plan

Test Date :2019-12-16  
 Temp./Humi. :23.1/60  
 Antenna Pol. :VERTICAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10360.00	Peak	36.94	10.28	47.22	68.20	-20.98

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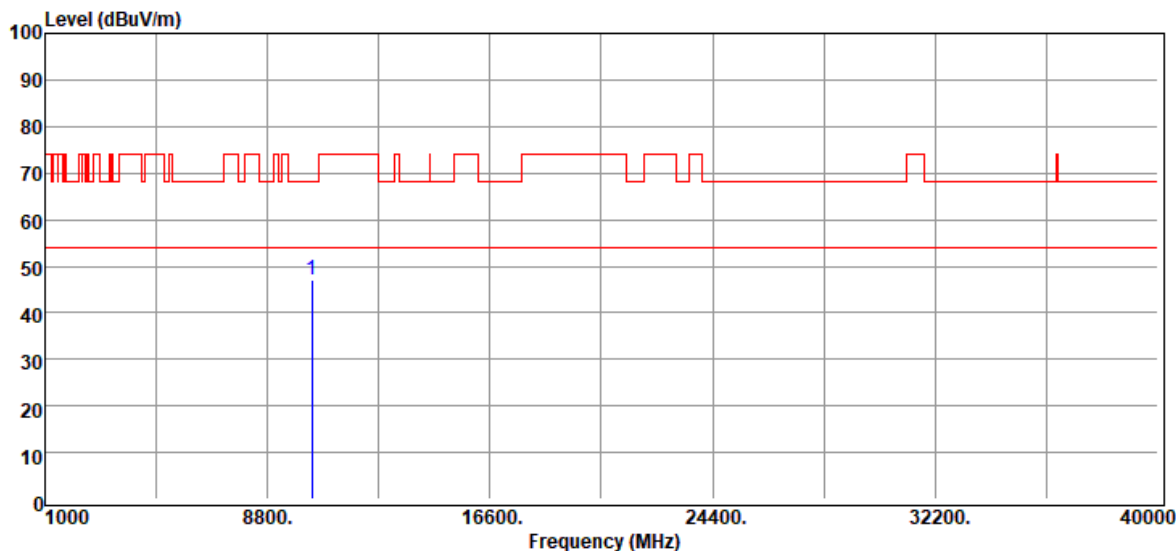
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Report Number :E2/2019/B0014  
 Operation Mode :802.11n20 / Band 1  
 Test Channel :5180 MHz  
 Test Mode :TX CH LOW  
 EUT Pol :E2 Plan

Test Date :2019-12-16  
 Temp./Humi. :23.1/60  
 Antenna Pol. :HORIZONTAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10360.00	Peak	36.85	10.28	47.13	68.20	-21.07

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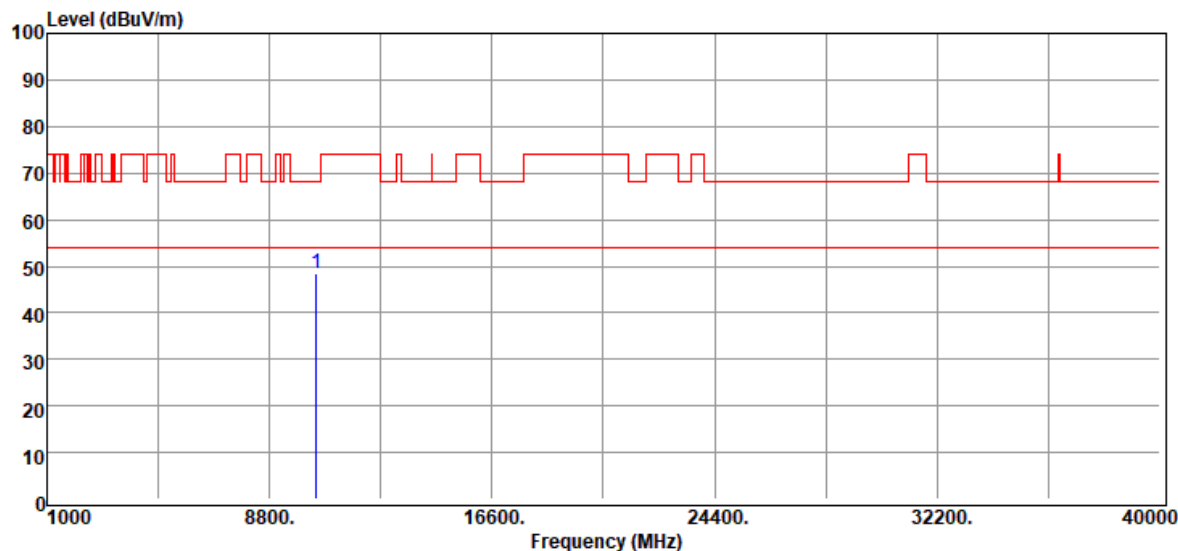
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Report Number :E2/2019/B0014  
 Operation Mode :802.11n20 / Band 1  
 Test Channel :5220 MHz  
 Test Mode :TX CH MID  
 EUT Pol :E2 Plan

Test Date :2019-12-16  
 Temp./Humi. :23.1/60  
 Antenna Pol. :VERTICAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10440.00	Peak	37.40	11.00	48.40	68.20	-19.80

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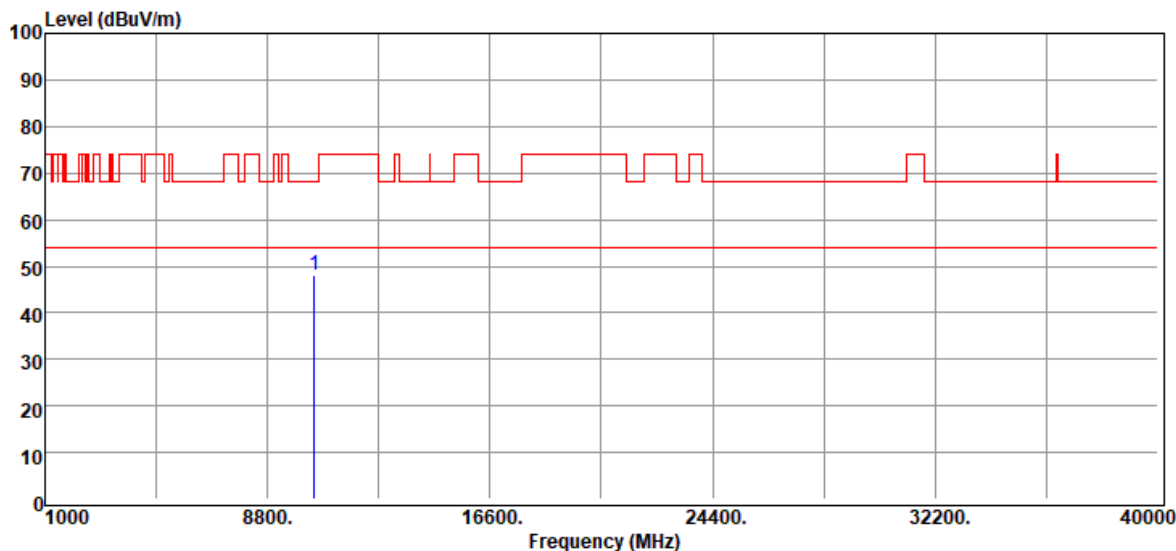
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Report Number :E2/2019/B0014  
 Operation Mode :802.11n20 / Band 1  
 Test Channel :5220 MHz  
 Test Mode :TX CH MID  
 EUT Pol :E2 Plan

Test Date :2019-12-16  
 Temp./Humi. :23.1/60  
 Antenna Pol. :HORIZONTAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10440.00	Peak	37.04	11.00	48.04	68.20	-20.16

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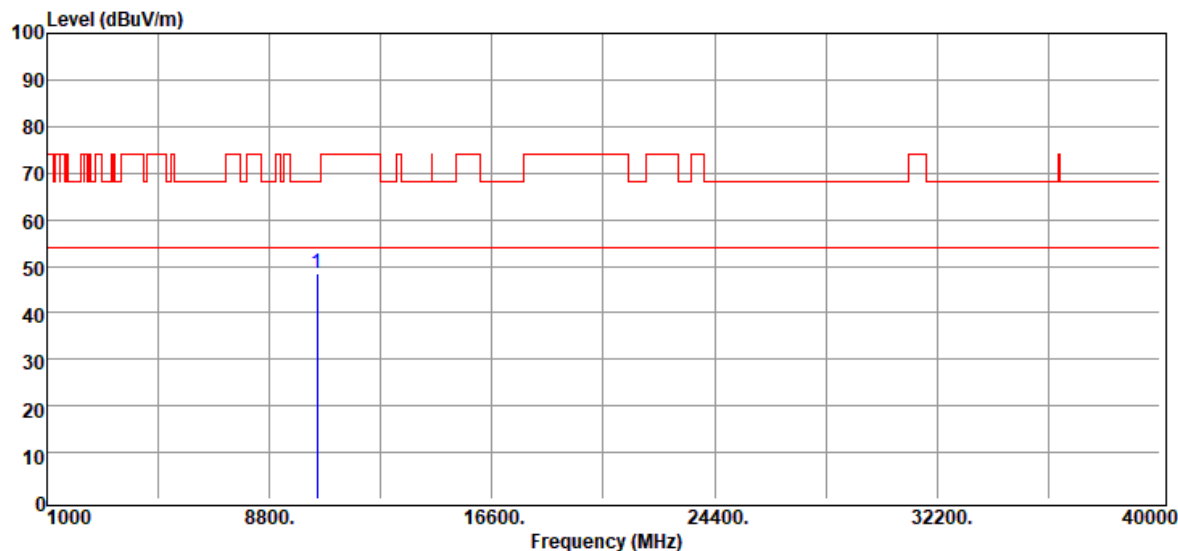
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Report Number :E2/2019/B0014  
 Operation Mode :802.11n20 / Band 1  
 Test Channel :5240 MHz  
 Test Mode :TX CH HIGH  
 EUT Pol :E2 Plan

Test Date :2019-12-16  
 Temp./Humi. :23.1/60  
 Antenna Pol. :VERTICAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10480.00	Peak	37.10	11.18	48.28	68.20	-19.92

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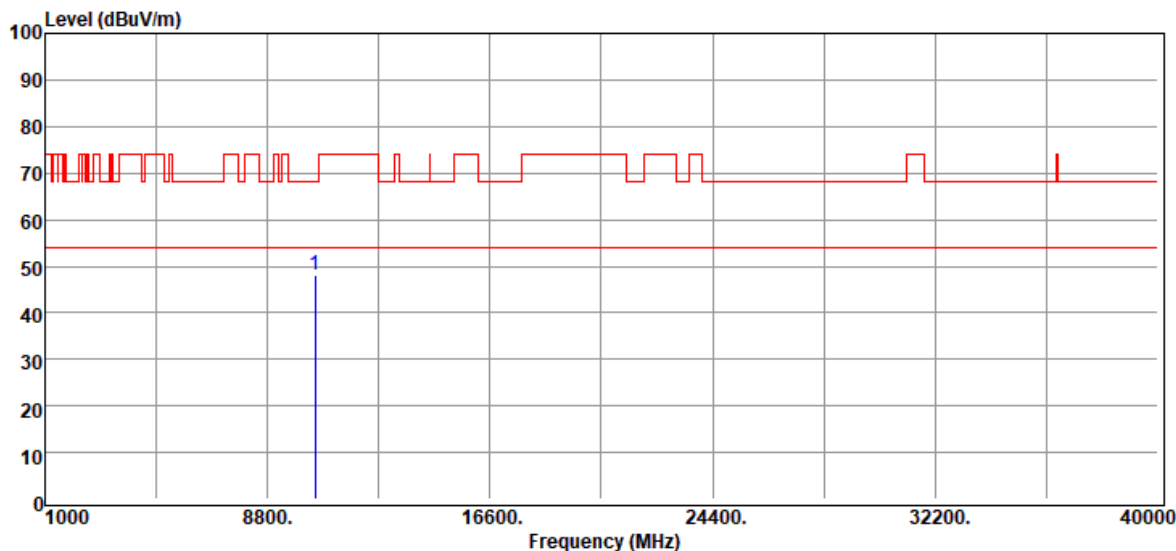
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Report Number :E2/2019/B0014  
 Operation Mode :802.11n20 / Band 1  
 Test Channel :5240 MHz  
 Test Mode :TX CH HIGH  
 EUT Pol :E2 Plan

Test Date :2019-12-16  
 Temp./Humi. :23.1/60  
 Antenna Pol. :HORIZONTAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10480.00	Peak	37.00	11.18	48.18	68.20	-20.02

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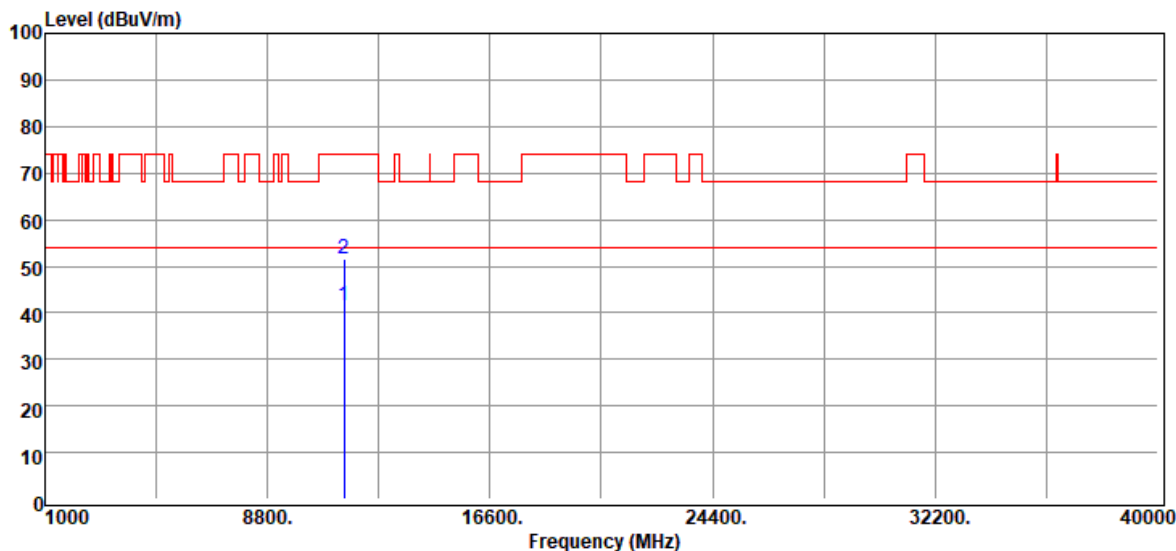
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Report Number :E2/2019/B0014  
 Operation Mode :802.11n20 / Band 4  
 Test Channel :5745 MHz  
 Test Mode :TX CH LOW  
 EUT Pol :E2 Plan

Test Date :2019-12-16  
 Temp./Humi. :23.1/60  
 Antenna Pol. :VERTICAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11490.00	Average	28.95	12.69	41.64	54.00	-12.36
11490.00	Peak	39.03	12.69	51.72	74.00	-22.28

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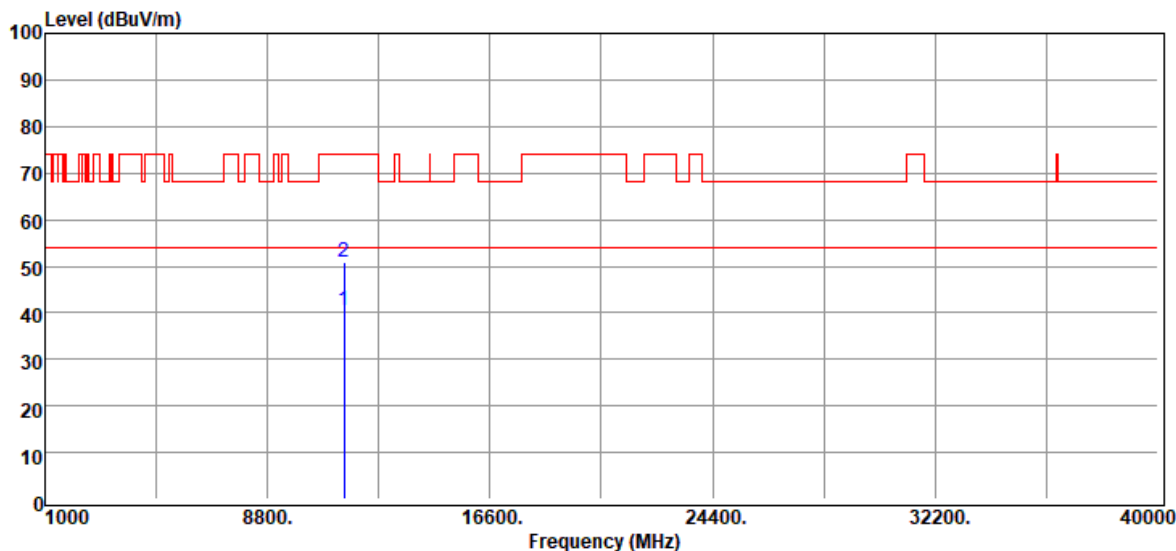
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Report Number :E2/2019/B0014  
 Operation Mode :802.11n20 / Band 4  
 Test Channel :5745 MHz  
 Test Mode :TX CH LOW  
 EUT Pol :E2 Plan

Test Date :2019-12-16  
 Temp./Humi. :23.1/60  
 Antenna Pol. :HORIZONTAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11490.00	Average	27.84	12.69	40.53	54.00	-13.47
11490.00	Peak	38.29	12.69	50.98	74.00	-23.02

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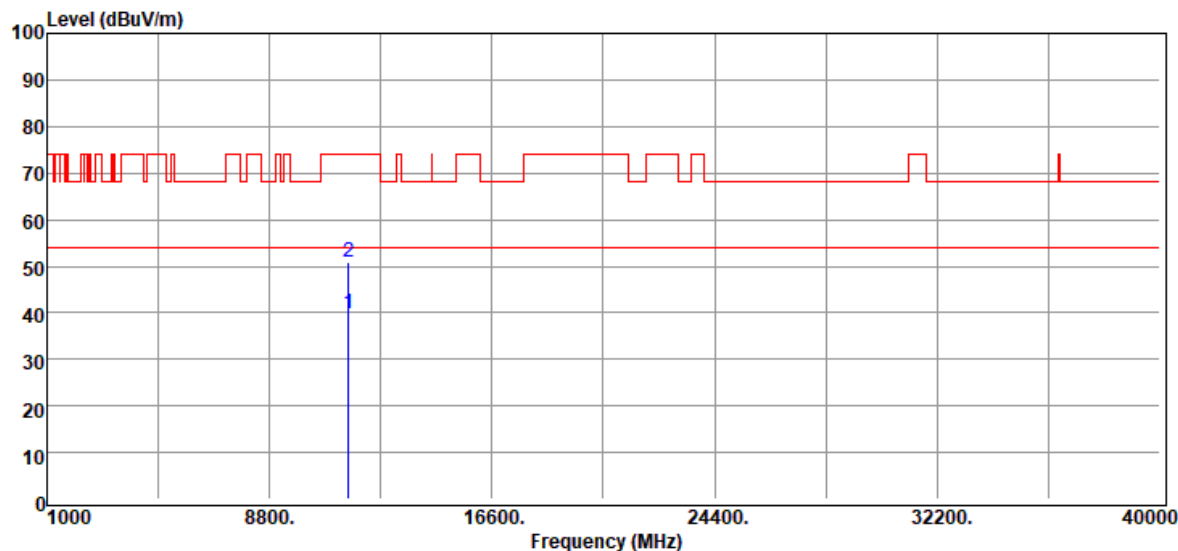
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Report Number :E2/2019/B0014  
 Operation Mode :802.11n20 / Band 4  
 Test Channel :5785 MHz  
 Test Mode :TX CH MID  
 EUT Pol :E2 Plan

Test Date :2019-12-16  
 Temp./Humi. :23.1/60  
 Antenna Pol. :VERTICAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11570.00	Average	27.44	12.38	39.82	54.00	-14.18
11570.00	Peak	38.59	12.38	50.97	74.00	-23.03

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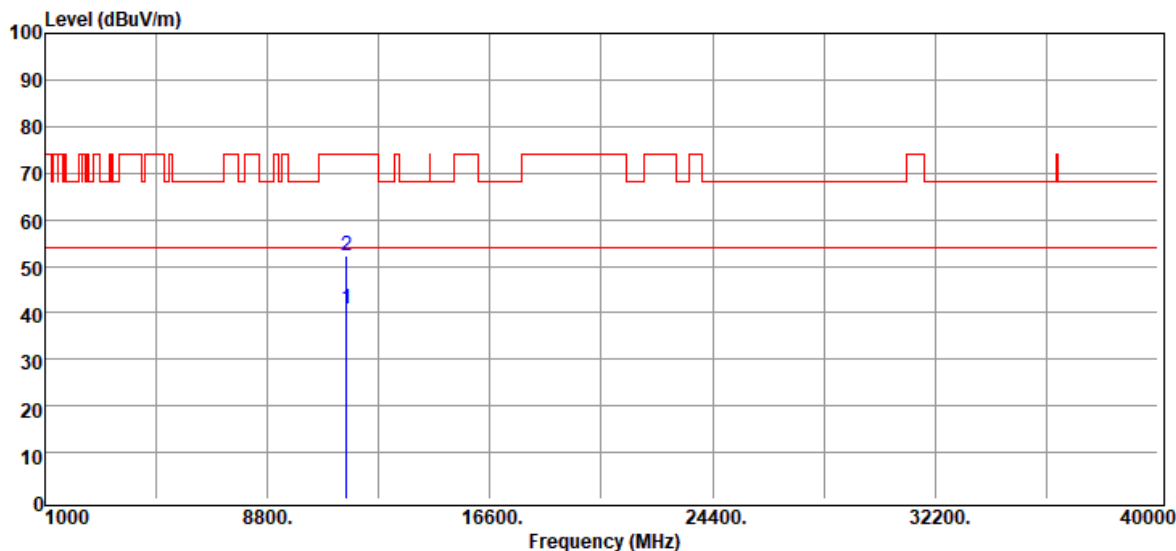
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Report Number :E2/2019/B0014  
 Operation Mode :802.11n20 / Band 4  
 Test Channel :5785 MHz  
 Test Mode :TX CH MID  
 EUT Pol :E2 Plan

Test Date :2019-12-16  
 Temp./Humi. :23.1/60  
 Antenna Pol. :HORIZONTAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11570.00	Average	28.62	12.38	41.00	54.00	-13.00
11570.00	Peak	39.91	12.38	52.29	74.00	-21.71

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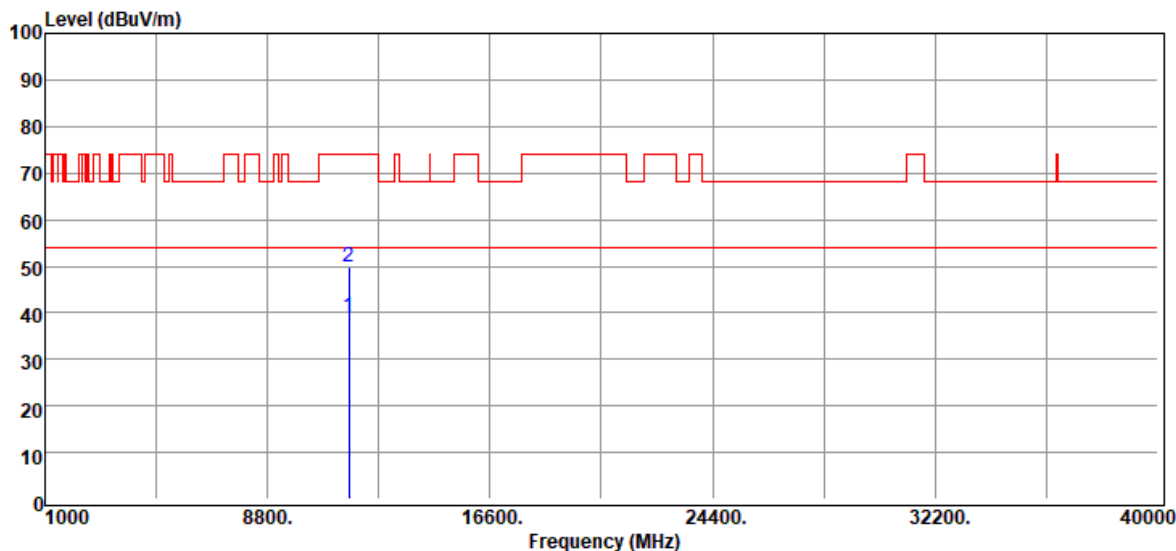
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Report Number :E2/2019/B0014  
 Operation Mode :802.11n20 / Band 4  
 Test Channel :5825 MHz  
 Test Mode :TX CH HIGH  
 EUT Pol :E2 Plan

Test Date :2019-12-16  
 Temp./Humi. :23.1/60  
 Antenna Pol. :VERTICAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11650.00	Average	27.77	11.21	38.98	54.00	-15.02
11650.00	Peak	38.74	11.21	49.95	74.00	-24.05

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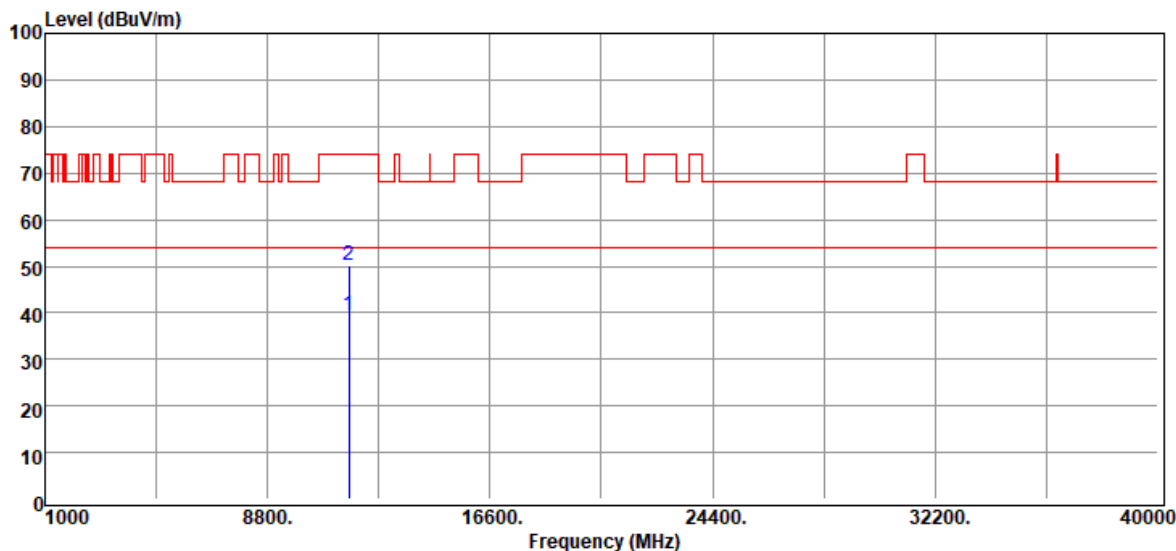
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Report Number :E2/2019/B0014  
 Operation Mode :802.11n20 / Band 4  
 Test Channel :5825 MHz  
 Test Mode :TX CH HIGH  
 EUT Pol :E2 Plan

Test Date :2019-12-16  
 Temp./Humi. :23.1/60  
 Antenna Pol. :HORIZONTAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11650.00	Average	28.12	11.21	39.33	54.00	-14.67
11650.00	Peak	38.99	11.21	50.20	74.00	-23.80

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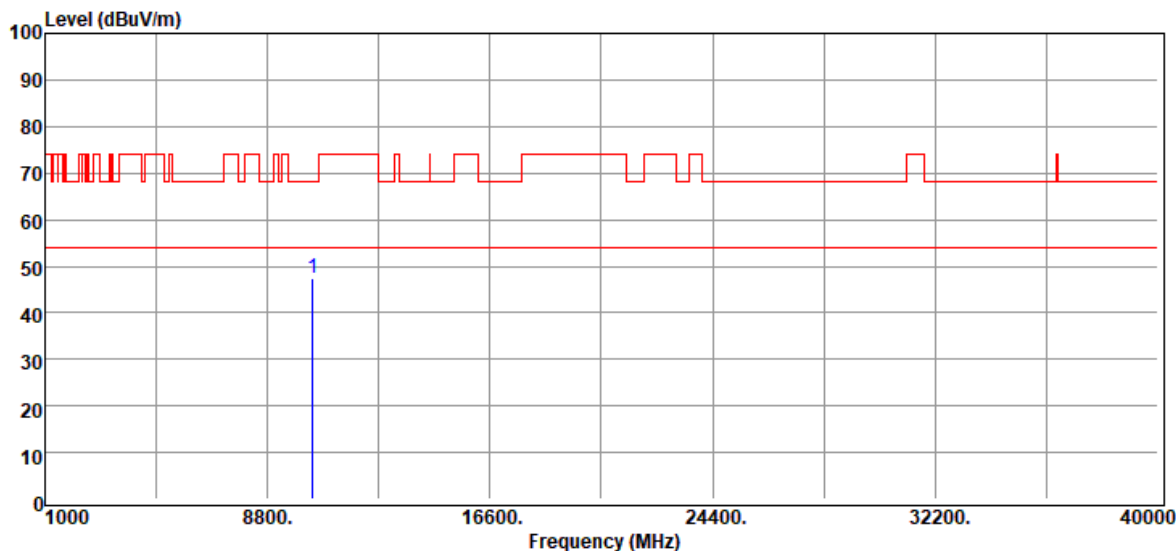
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Report Number :E2/2019/B0014  
 Operation Mode :802.11n40 / Band 1  
 Test Channel :5190 MHz  
 Test Mode :TX CH LOW  
 EUT Pol :E2 Plan

Test Date :2019-12-16  
 Temp./Humi. :23.1/60  
 Antenna Pol. :VERTICAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10380.00	Peak	36.70	10.57	47.27	68.20	-20.93

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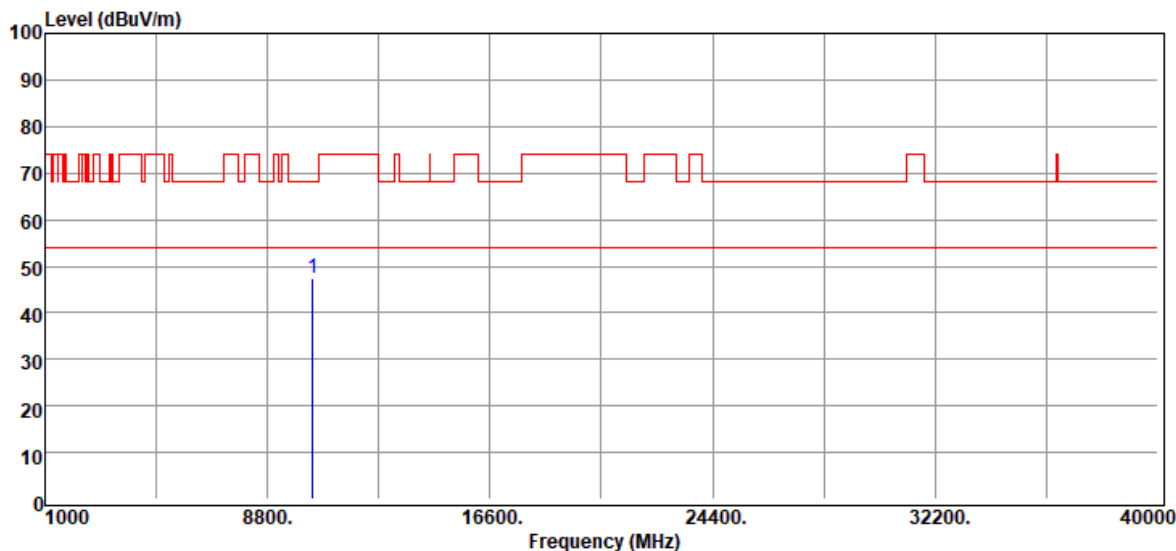
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Report Number :E2/2019/B0014  
 Operation Mode :802.11n40 / Band 1  
 Test Channel :5190 MHz  
 Test Mode :TX CH LOW  
 EUT Pol :E2 Plan

Test Date :2019-12-16  
 Temp./Humi. :23.1/60  
 Antenna Pol. :HORIZONTAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10380.00	Peak	36.84	10.57	47.41	68.20	-20.79

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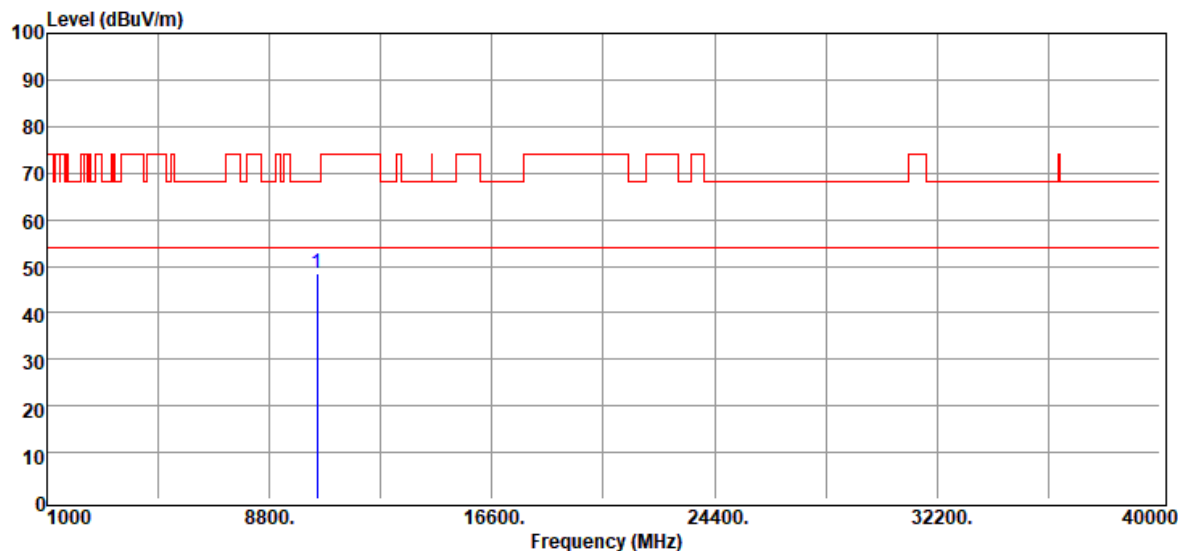
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Report Number :E2/2019/B0014  
 Operation Mode :802.11n40 / Band 1  
 Test Channel :5230 MHz  
 Test Mode :TX CH HIGH  
 EUT Pol :E2 Plan

Test Date :2019-12-16  
 Temp./Humi. :23.1/60  
 Antenna Pol. :VERTICAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10460.00	Peak	37.28	11.10	48.38	68.20	-19.82

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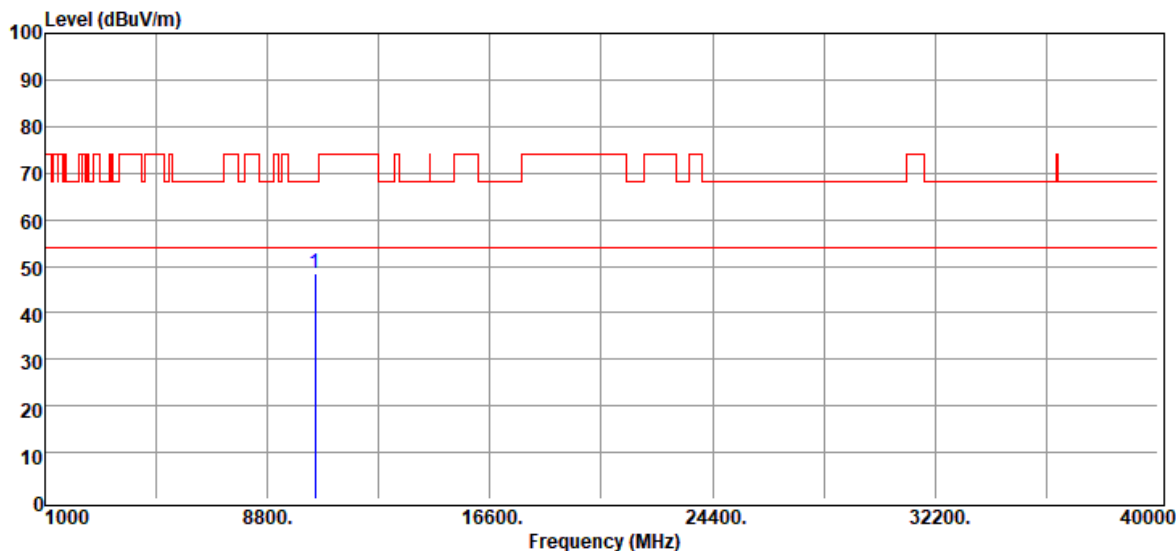
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Report Number :E2/2019/B0014  
 Operation Mode :802.11n40 / Band 1  
 Test Channel :5230 MHz  
 Test Mode :TX CH HIGH  
 EUT Pol :E2 Plan

Test Date :2019-12-16  
 Temp./Humi. :23.1/60  
 Antenna Pol. :HORIZONTAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10460.00	Peak	37.19	11.10	48.29	68.20	-19.91

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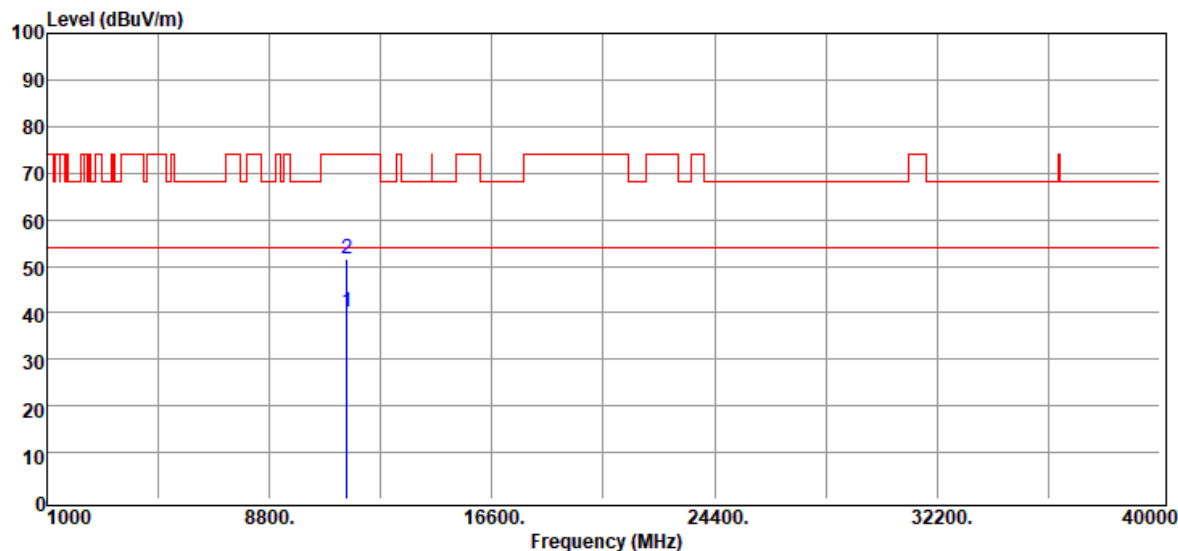
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Report Number :E2/2019/B0014  
 Operation Mode :802.11n40 / Band 4  
 Test Channel :5755 MHz  
 Test Mode :TX CH LOW  
 EUT Pol :E2 Plan

Test Date :2019-12-16  
 Temp./Humi. :23.1/60  
 Antenna Pol. :VERTICAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11510.00	Average	27.48	12.80	40.28	54.00	-13.72
11510.00	Peak	38.65	12.80	51.45	74.00	-22.55

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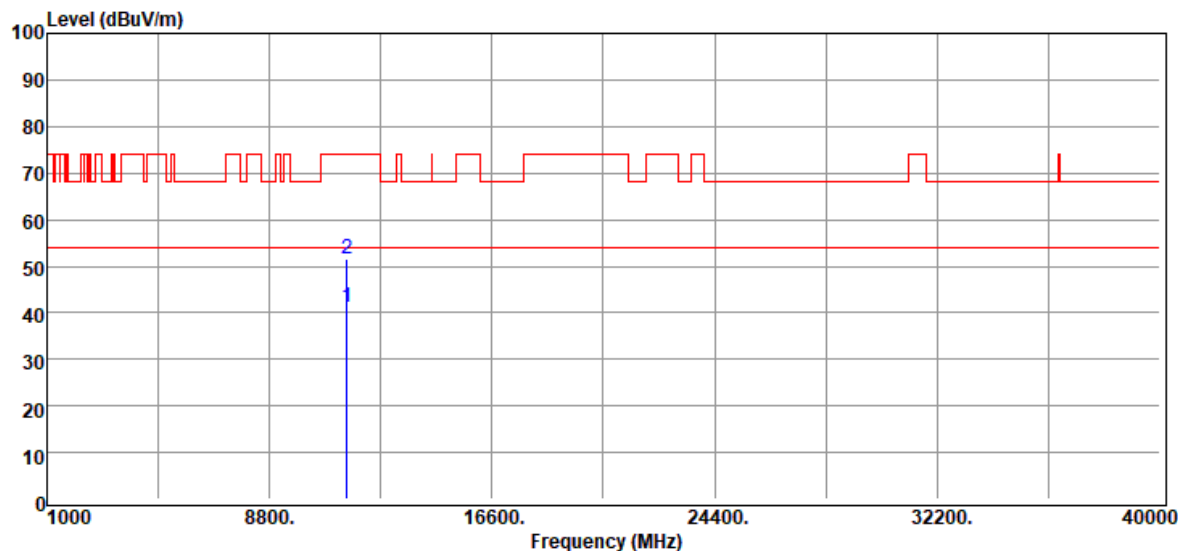
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Report Number :E2/2019/B0014  
 Operation Mode :802.11n40 / Band 4  
 Test Channel :5755 MHz  
 Test Mode :TX CH LOW  
 EUT Pol :E2 Plan

Test Date :2019-12-16  
 Temp./Humi. :23.1/60  
 Antenna Pol. :HORIZONTAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11510.00	Average	28.22	12.80	41.02	54.00	-12.98
11510.00	Peak	38.93	12.80	51.73	74.00	-22.27

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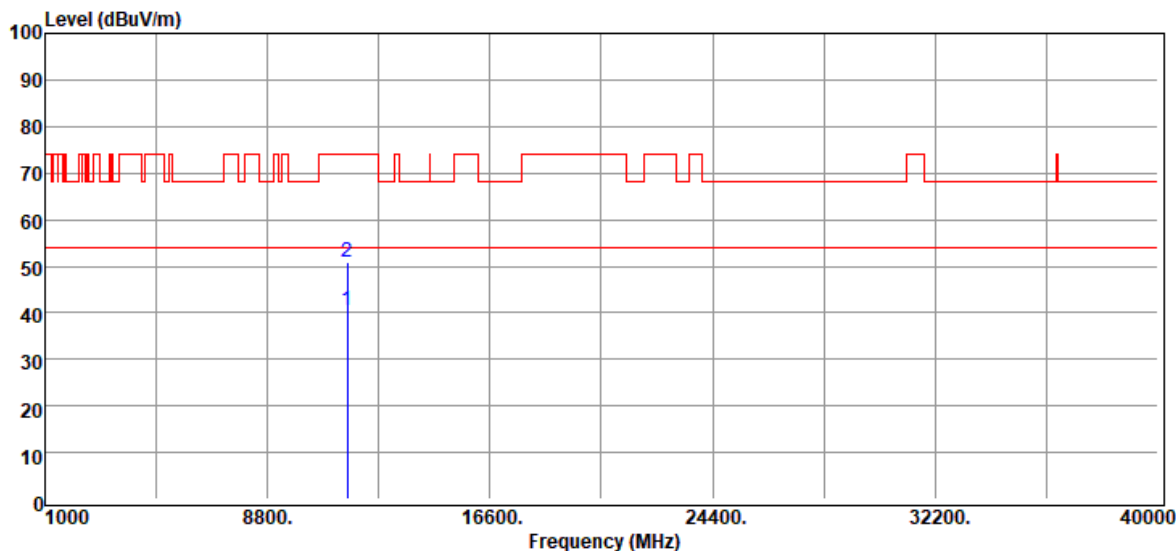
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Report Number :E2/2019/B0014  
 Operation Mode :802.11n40 / Band 4  
 Test Channel :5795 MHz  
 Test Mode :TX CH HIGH  
 EUT Pol :E2 Plan

Test Date :2019-12-16  
 Temp./Humi. :23.1/60  
 Antenna Pol. :VERTICAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11590.00	Average	28.11	12.24	40.35	54.00	-13.65
11590.00	Peak	38.59	12.24	50.83	74.00	-23.17

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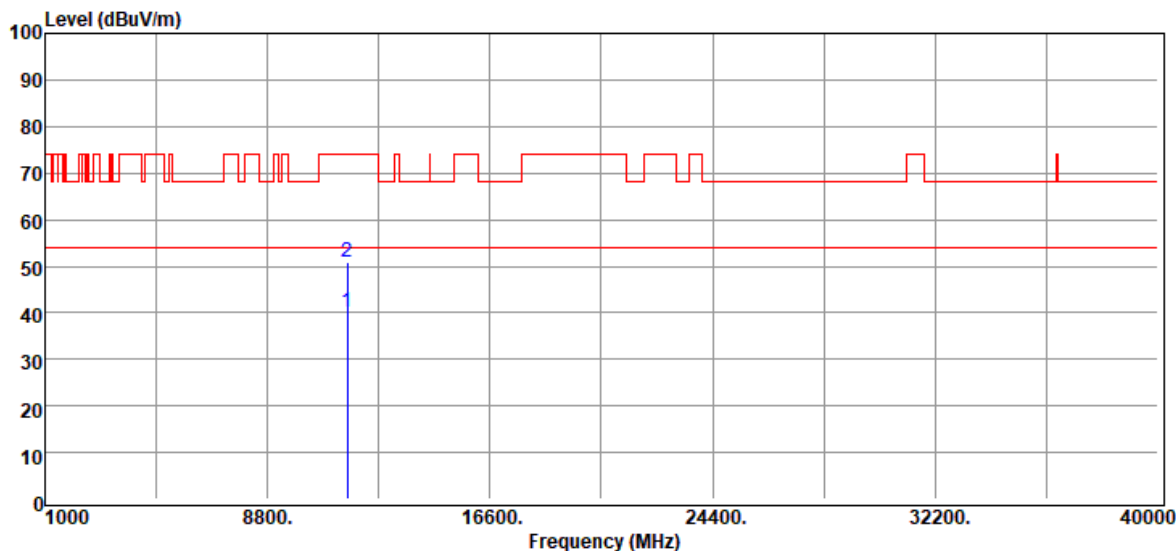
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Report Number :E2/2019/B0014  
 Operation Mode :802.11n40 / Band 4  
 Test Channel :5795 MHz  
 Test Mode :TX CH HIGH  
 EUT Pol :E2 Plan

Test Date :2019-12-16  
 Temp./Humi. :23.1/60  
 Antenna Pol. :HORIZONTAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11590.00	Average	27.95	12.24	40.19	54.00	-13.81
11590.00	Peak	38.75	12.24	50.99	74.00	-23.01

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Report Number :E2/2019/B0014

Operation Mode :802.11ac20 / Band 1

Test Channel :5180 MHz

Test Mode :TX CH LOW

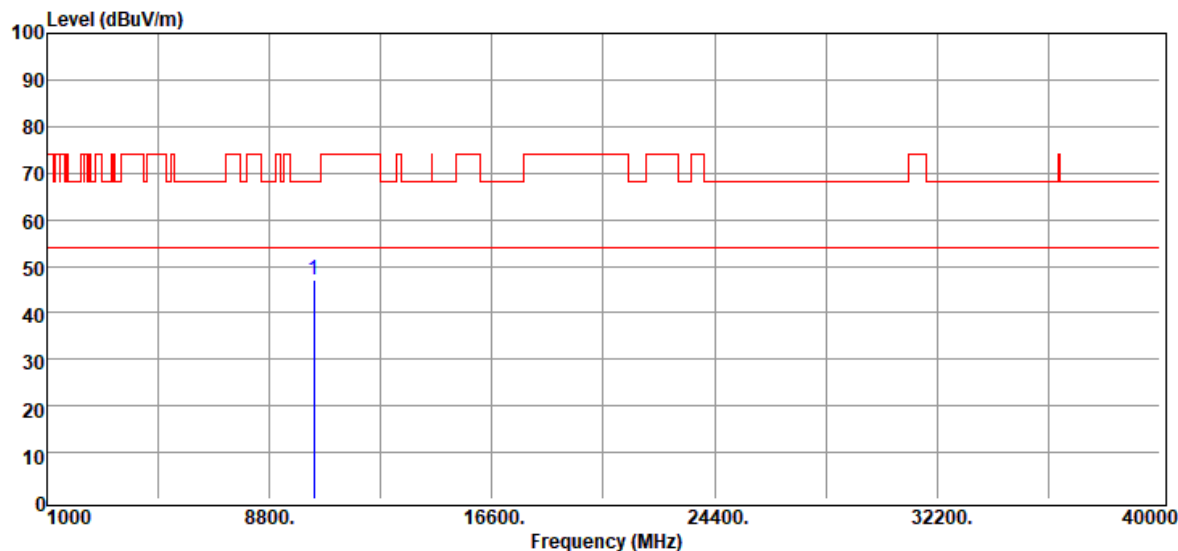
EUT Pol :E2 Plan

Test Date :2019-12-16

Temp./Humi. :23.1/60

Antenna Pol. :VERTICAL

Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10360.00	Peak	36.77	10.28	47.05	68.20	-21.15

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Report Number :E2/2019/B0014

Operation Mode :802.11ac20 / Band 1

Test Channel :5180 MHz

Test Mode :TX CH LOW

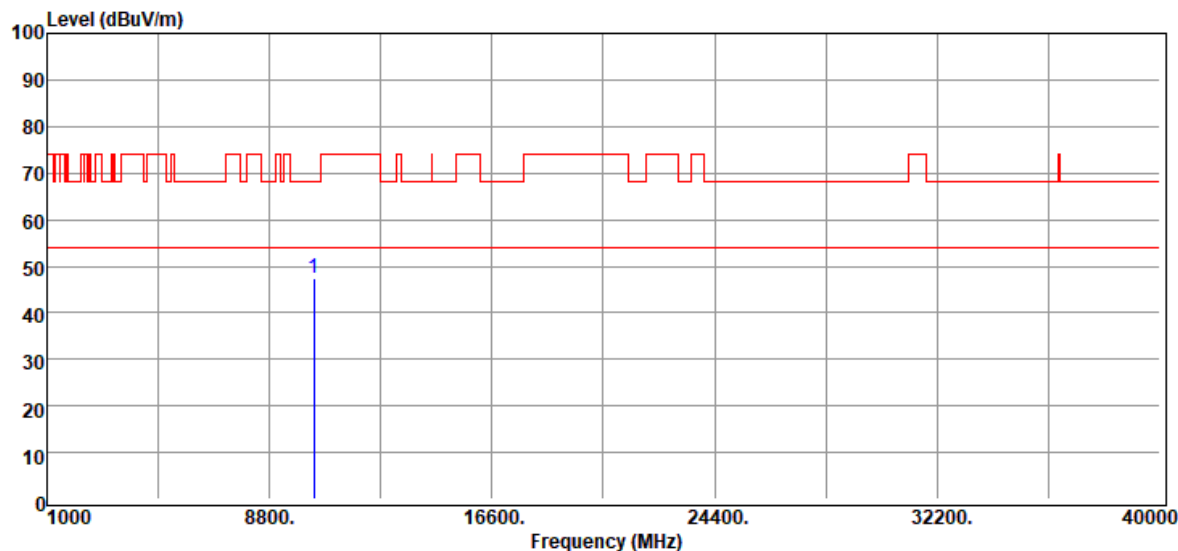
EUT Pol :E2 Plan

Test Date :2019-12-16

Temp./Humi. :23.1/60

Antenna Pol. :HORIZONTAL

Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10360.00	Peak	37.16	10.28	47.44	68.20	-20.76

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Report Number :E2/2019/B0014

Operation Mode :802.11ac20 / Band 1

Test Channel :5220 MHz

Test Mode :TX CH MID

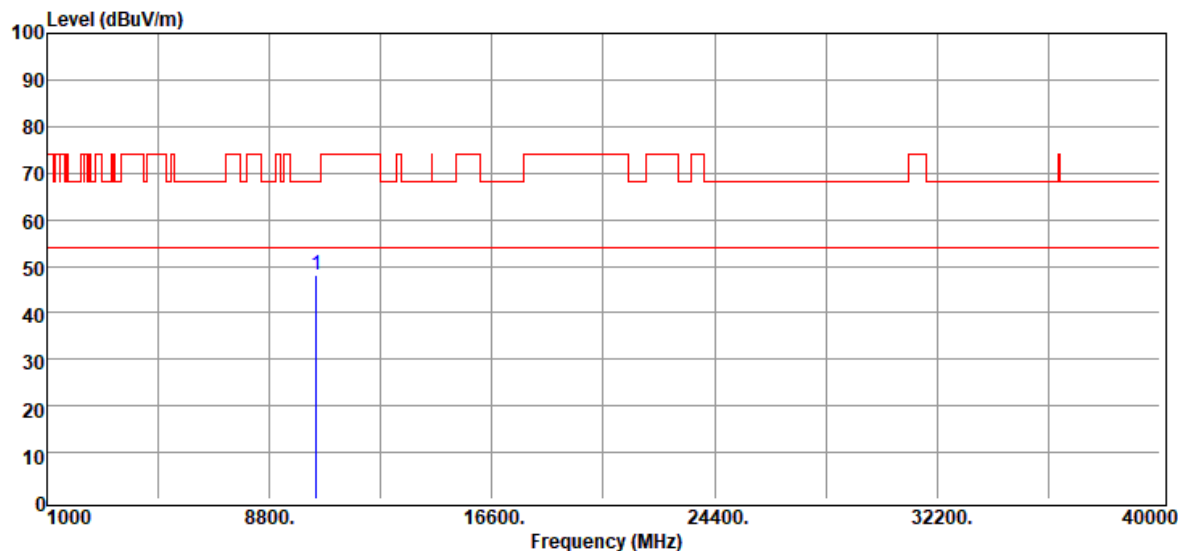
EUT Pol :E2 Plan

Test Date :2019-12-16

Temp./Humi. :23.1/60

Antenna Pol. :VERTICAL

Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10440.00	Peak	37.09	11.00	48.09	68.20	-20.11

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Report Number :E2/2019/B0014

Operation Mode :802.11ac20 / Band 1

Test Channel :5220 MHz

Test Mode :TX CH MID

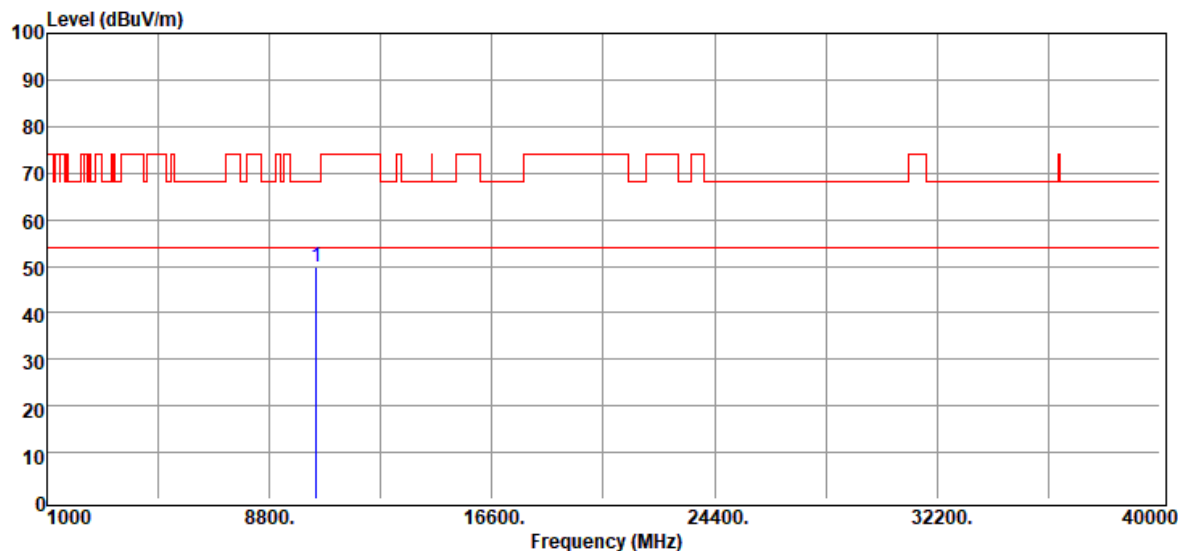
EUT Pol :E2 Plan

Test Date :2019-12-16

Temp./Humi. :23.1/60

Antenna Pol. :HORIZONTAL

Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10440.00	Peak	38.99	11.00	49.99	68.20	-18.21

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Report Number :E2/2019/B0014

Operation Mode :802.11ac20 / Band 1

Test Channel :5240 MHz

Test Mode :TX CH HIGH

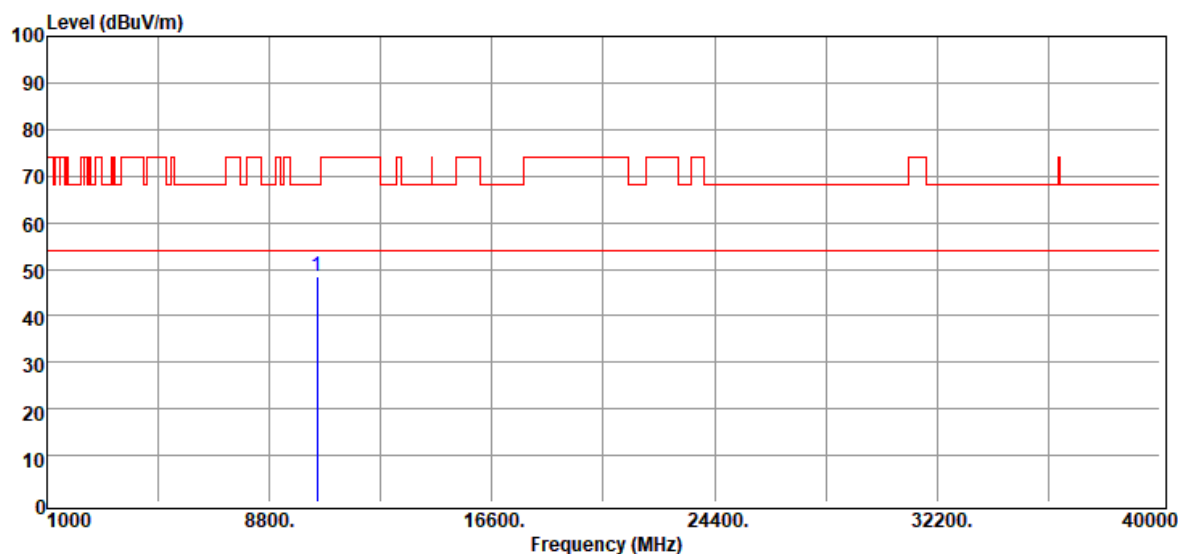
EUT Pol :E2 Plan

Test Date :2019-12-16

Temp./Humi. :23.1/60

Antenna Pol. :VERTICAL

Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10480.00	Peak	37.34	11.18	48.52	68.20	-19.68

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Report Number :E2/2019/B0014

Operation Mode :802.11ac20 / Band 1

Test Channel :5240 MHz

Test Mode :TX CH HIGH

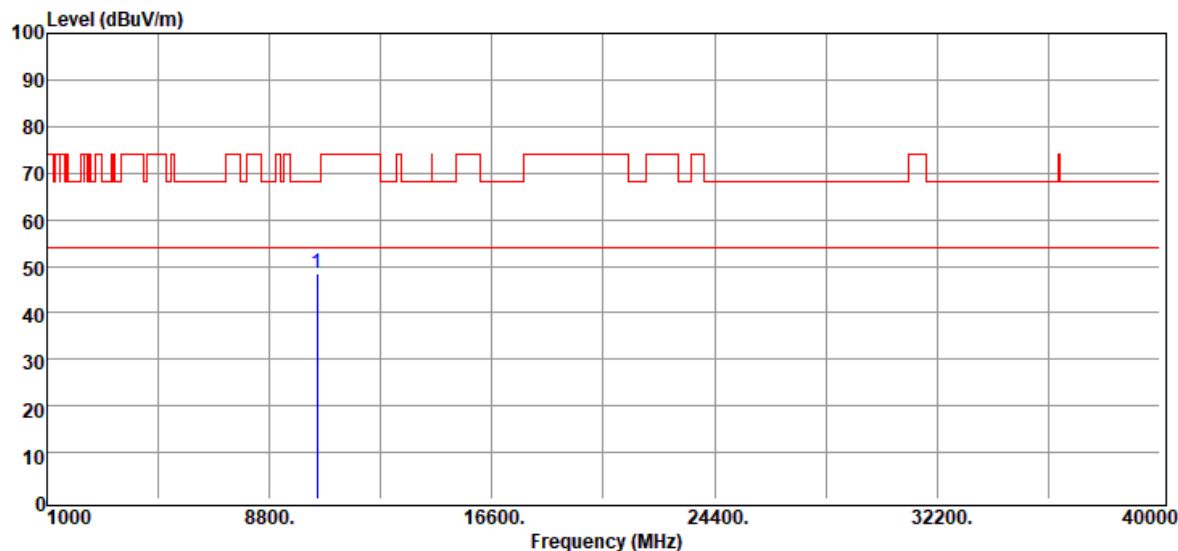
EUT Pol :E2 Plan

Test Date :2019-12-16

Temp./Humi. :23.1/60

Antenna Pol. :HORIZONTAL

Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10480.00	Peak	37.24	11.18	48.42	68.20	-19.78

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Report Number :E2/2019/B0014

Operation Mode :802.11ac20 / Band 4

Test Channel :5745 MHz

Test Mode :TX CH LOW

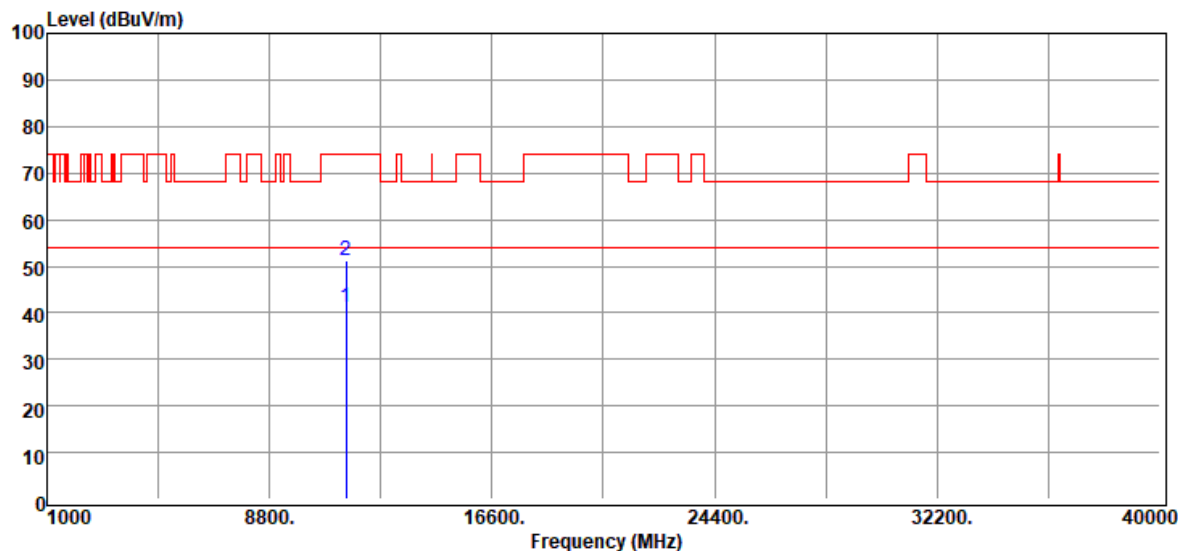
EUT Pol :E2 Plan

Test Date :2019-12-16

Temp./Humi. :23.1/60

Antenna Pol. :VERTICAL

Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11490.00	Average	28.46	12.69	41.15	54.00	-12.85
11490.00	Peak	38.66	12.69	51.35	74.00	-22.65

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Report Number :E2/2019/B0014

Operation Mode :802.11ac20 / Band 4

Test Channel :5745 MHz

Test Mode :TX CH LOW

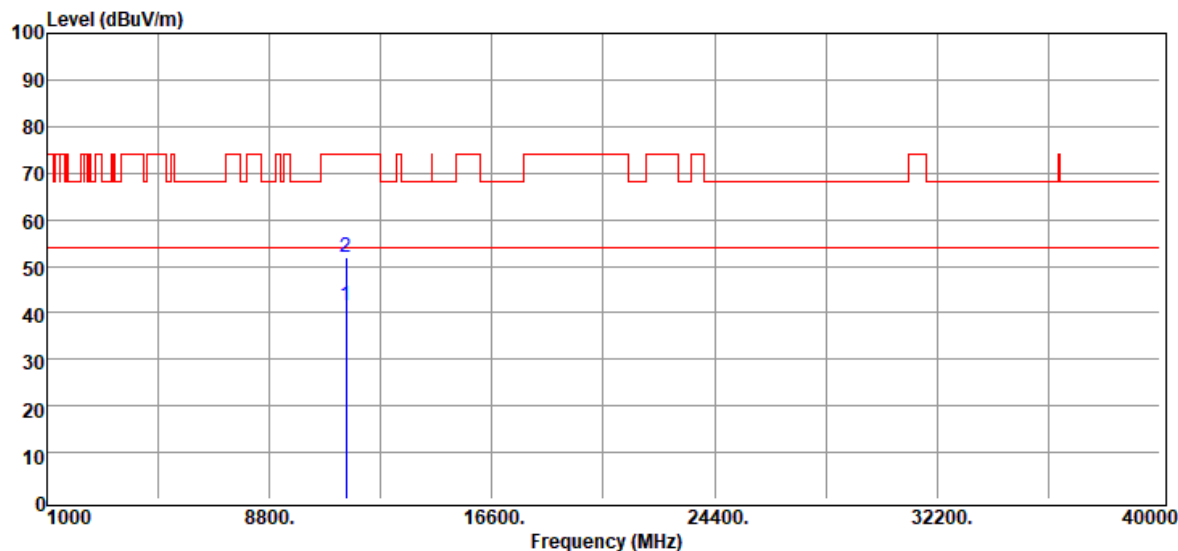
EUT Pol :E2 Plan

Test Date :2019-12-16

Temp./Humi. :23.1/60

Antenna Pol. :HORIZONTAL

Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11490.00	Average	28.78	12.69	41.47	54.00	-12.53
11490.00	Peak	39.04	12.69	51.73	74.00	-22.27

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Report Number :E2/2019/B0014

Operation Mode :802.11ac20 / Band 4

Test Channel :5785 MHz

Test Mode :TX CH MID

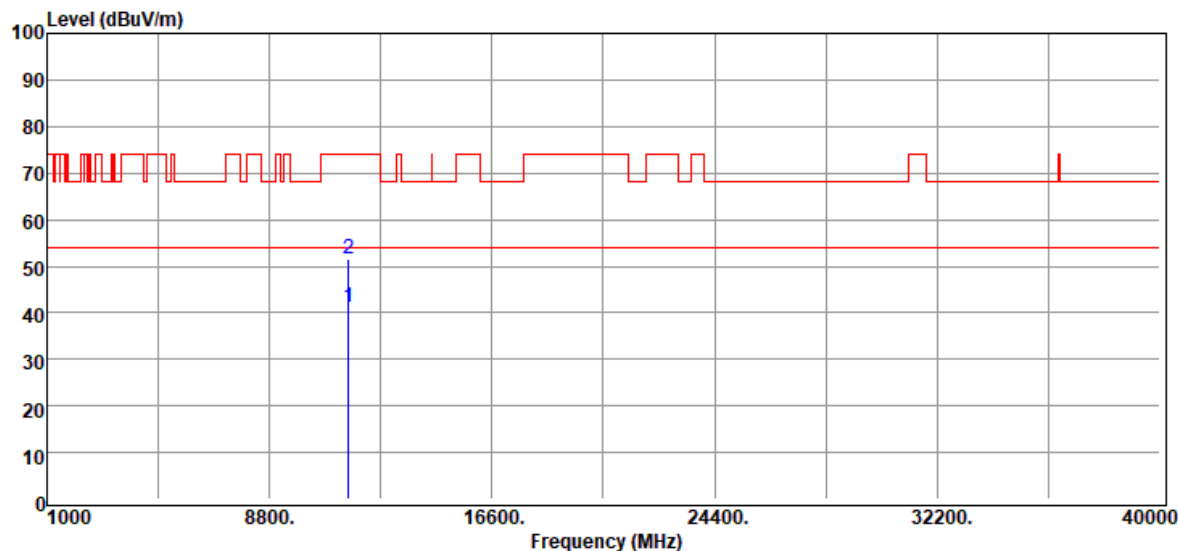
EUT Pol :E2 Plan

Test Date :2019-12-16

Temp./Humi. :23.1/60

Antenna Pol. :VERTICAL

Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11570.00	Average	28.75	12.38	41.13	54.00	-12.87
11570.00	Peak	39.21	12.38	51.59	74.00	-22.41

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Report Number :E2/2019/B0014

Operation Mode :802.11ac20 / Band 4

Test Channel :5785 MHz

Test Mode :TX CH MID

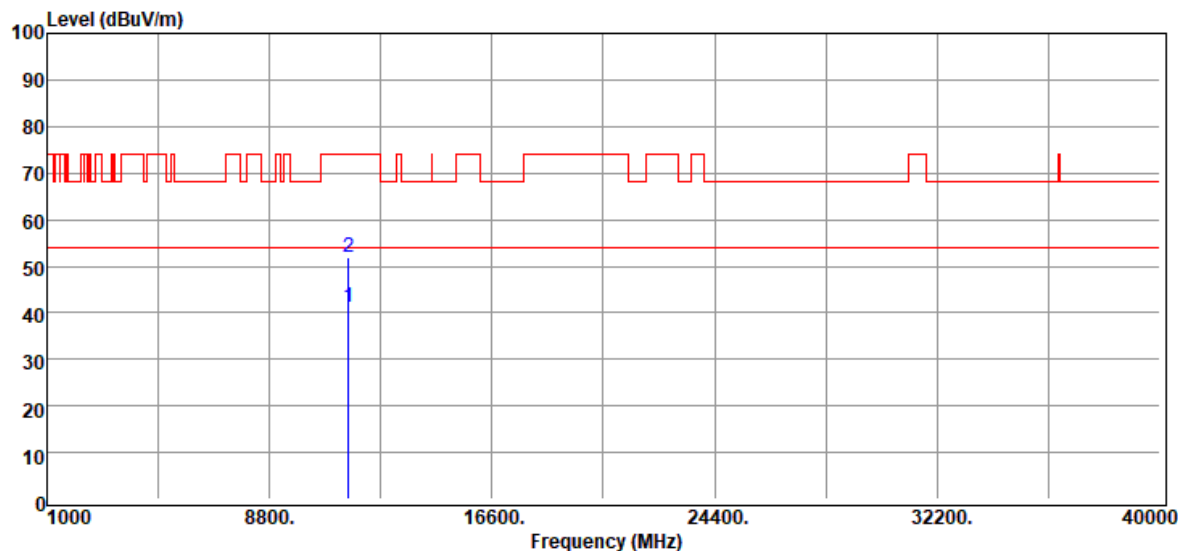
EUT Pol :E2 Plan

Test Date :2019-12-16

Temp./Humi. :23.1/60

Antenna Pol. :HORIZONTAL

Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11570.00	Average	28.79	12.38	41.17	54.00	-12.83
11570.00	Peak	39.62	12.38	52.00	74.00	-22.00

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Report Number :E2/2019/B0014

Operation Mode :802.11ac20 / Band 4

Test Channel :5825 MHz

Test Mode :TX CH HIGH

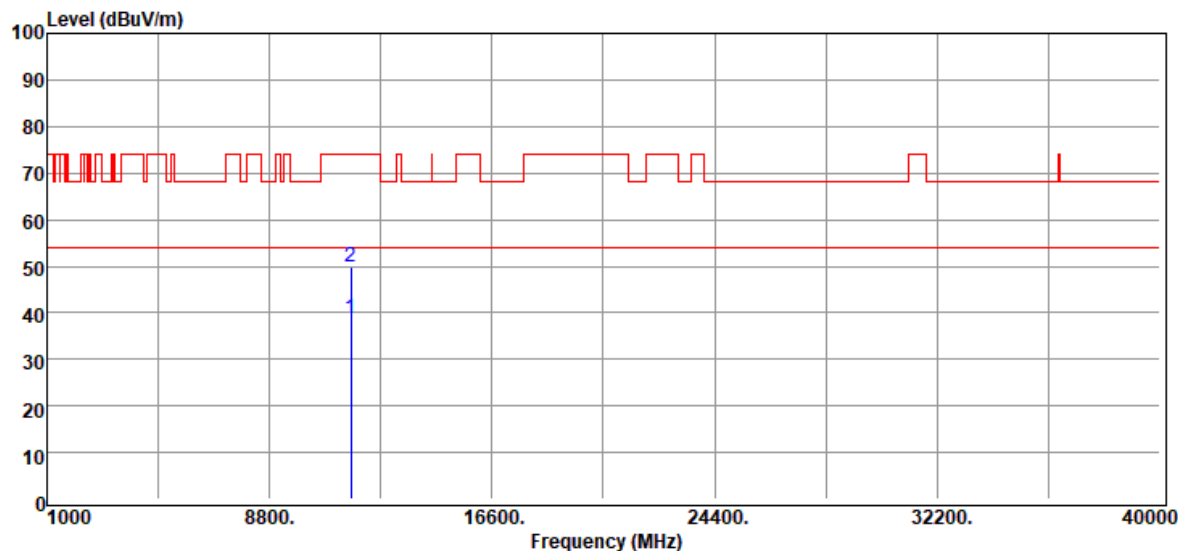
EUT Pol :E2 Plan

Test Date :2019-12-16

Temp./Humi. :23.1/60

Antenna Pol. :VERTICAL

Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11650.00	Average	27.48	11.21	38.69	54.00	-15.31
11650.00	Peak	38.60	11.21	49.81	74.00	-24.19

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Report Number :E2/2019/B0014

Operation Mode :802.11ac20 / Band 4

Test Channel :5825 MHz

Test Mode :TX CH HIGH

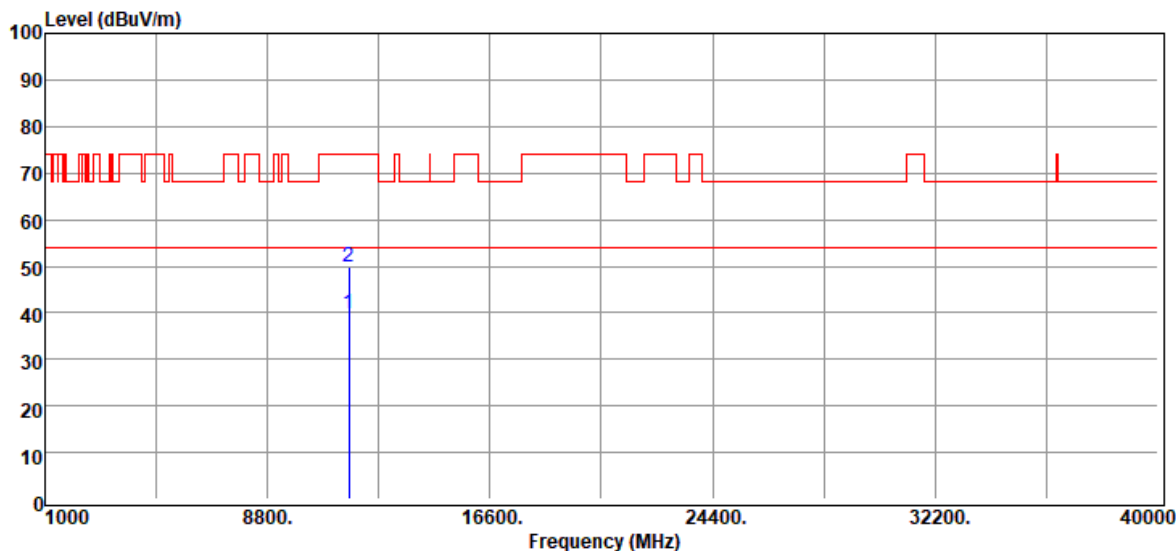
EUT Pol :E2 Plan

Test Date :2019-12-16

Temp./Humi. :23.1/60

Antenna Pol. :HORIZONTAL

Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11650.00	Average	28.56	11.21	39.77	54.00	-14.23
11650.00	Peak	38.75	11.21	49.96	74.00	-24.04

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Report Number :E2/2019/B0014

Operation Mode :802.11ac40 / Band 1

Test Channel :5190 MHz

Test Mode :TX CH LOW

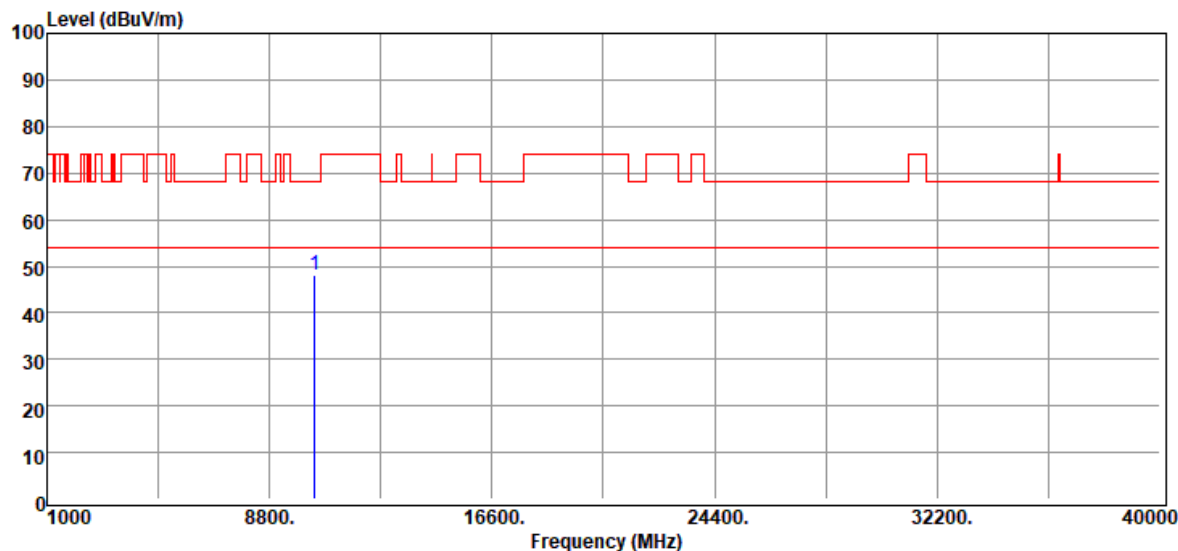
EUT Pol :E2 Plan

Test Date :2019-12-16

Temp./Humi. :23.3/61

Antenna Pol. :VERTICAL

Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10380.00	Peak	37.55	10.57	48.12	68.20	-20.08

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Report Number :E2/2019/B0014

Operation Mode :802.11ac40 / Band 1

Test Channel :5190 MHz

Test Mode :TX CH LOW

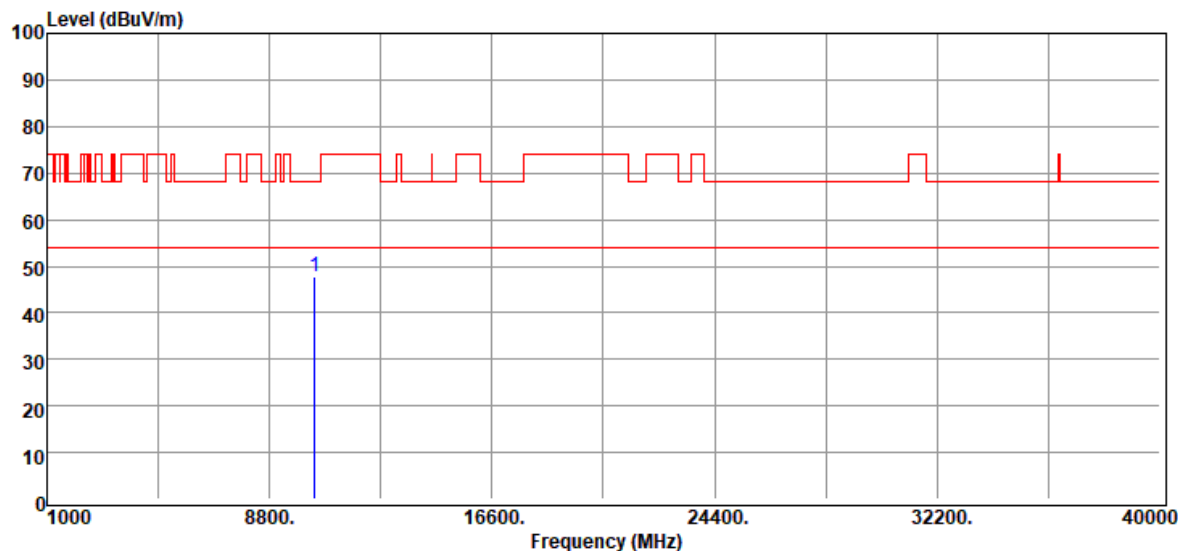
EUT Pol :E2 Plan

Test Date :2019-12-16

Temp./Humi. :23.3/61

Antenna Pol. :HORIZONTAL

Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10380.00	Peak	37.04	10.57	47.61	68.20	-20.59

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Report Number :E2/2019/B0014

Operation Mode :802.11ac40 / Band 1

Test Channel :5230 MHz

Test Mode :TX CH HIGH

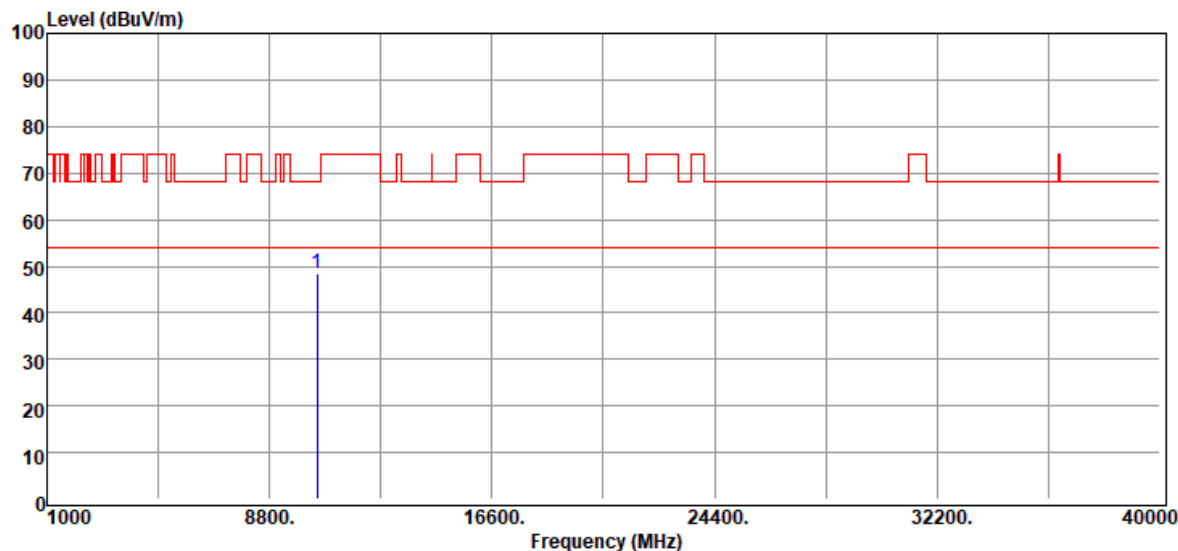
EUT Pol :E2 Plan

Test Date :2019-12-16

Temp./Humi. :23.3/61

Antenna Pol. :VERTICAL

Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10460.00	Peak	37.49	11.10	48.59	68.20	-19.61

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Report Number :E2/2019/B0014

Operation Mode :802.11ac40 / Band 1

Test Channel :5230 MHz

Test Mode :TX CH HIGH

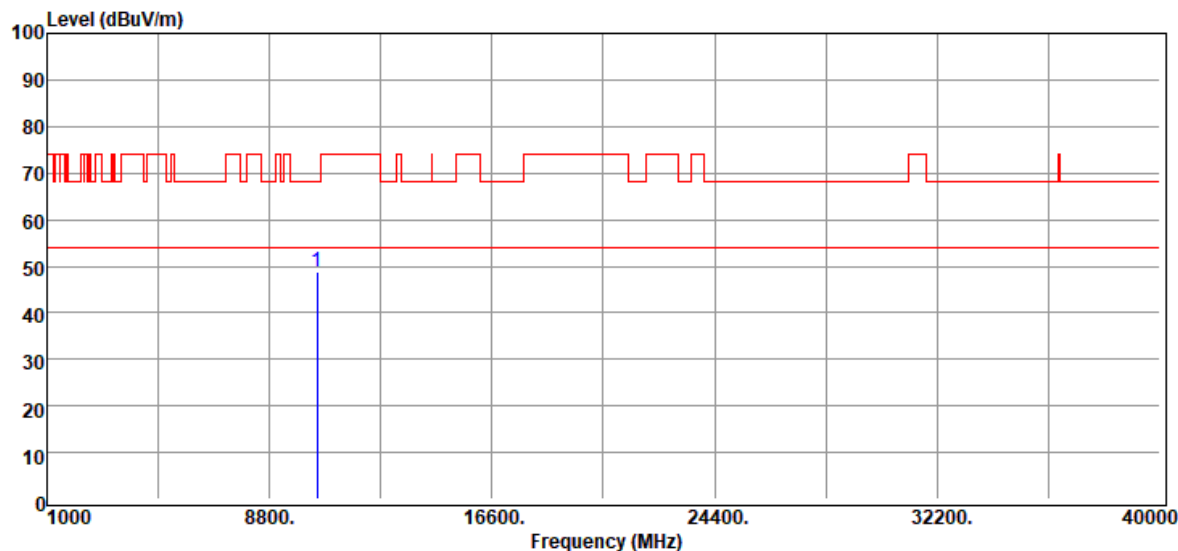
EUT Pol :E2 Plan

Test Date :2019-12-16

Temp./Humi. :23.3/61

Antenna Pol. :HORIZONTAL

Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10460.00	Peak	37.63	11.10	48.73	68.20	-19.47

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Report Number :E2/2019/B0014

Operation Mode :802.11ac40 / Band 4

Test Channel :5755 MHz

Test Mode :TX CH LOW

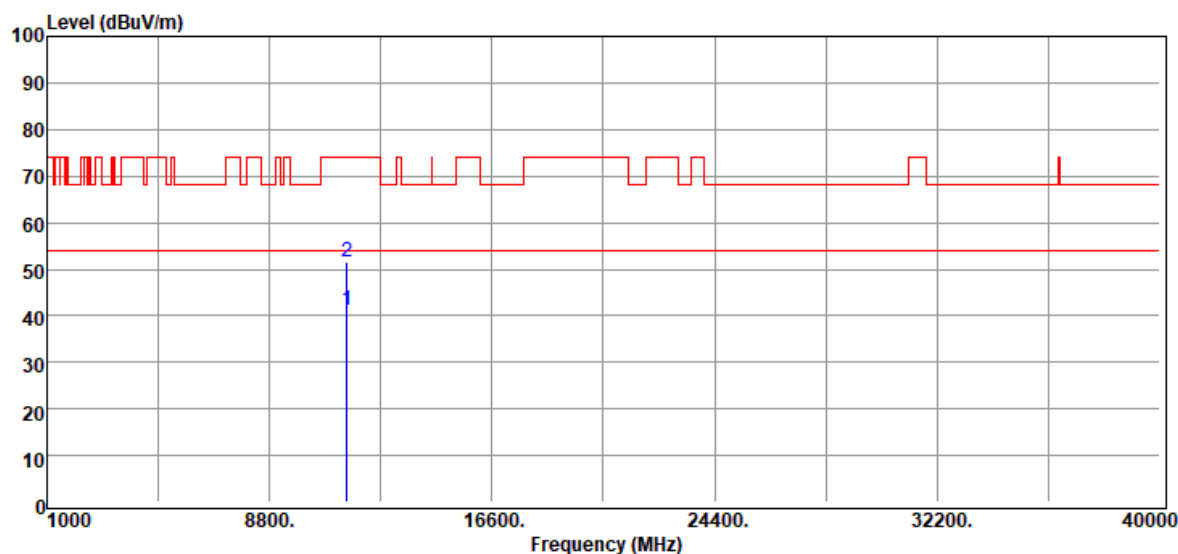
EUT Pol :E2 Plan

Test Date :2019-12-16

Temp./Humi. :23.3/61

Antenna Pol. :VERTICAL

Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11510.00	Average	28.48	12.80	41.28	54.00	-12.72
11510.00	Peak	38.59	12.80	51.39	74.00	-22.61

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Report Number :E2/2019/B0014

Operation Mode :802.11ac40 / Band 4

Test Channel :5755 MHz

Test Mode :TX CH LOW

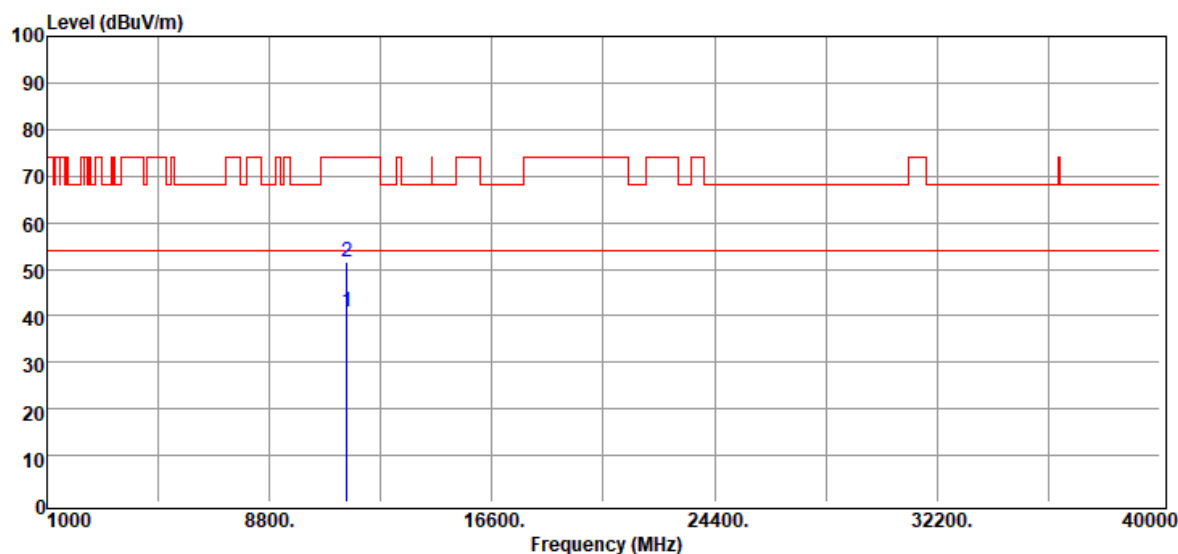
EUT Pol :E2 Plan

Test Date :2019-12-16

Temp./Humi. :23.3/61

Antenna Pol. :HORIZONTAL

Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11510.00	Average	28.11	12.80	40.91	54.00	-13.09
11510.00	Peak	38.80	12.80	51.60	74.00	-22.40

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Report Number :E2/2019/B0014

Operation Mode :802.11ac40 / Band 4

Test Channel :5795 MHz

Test Mode :TX CH HIGH

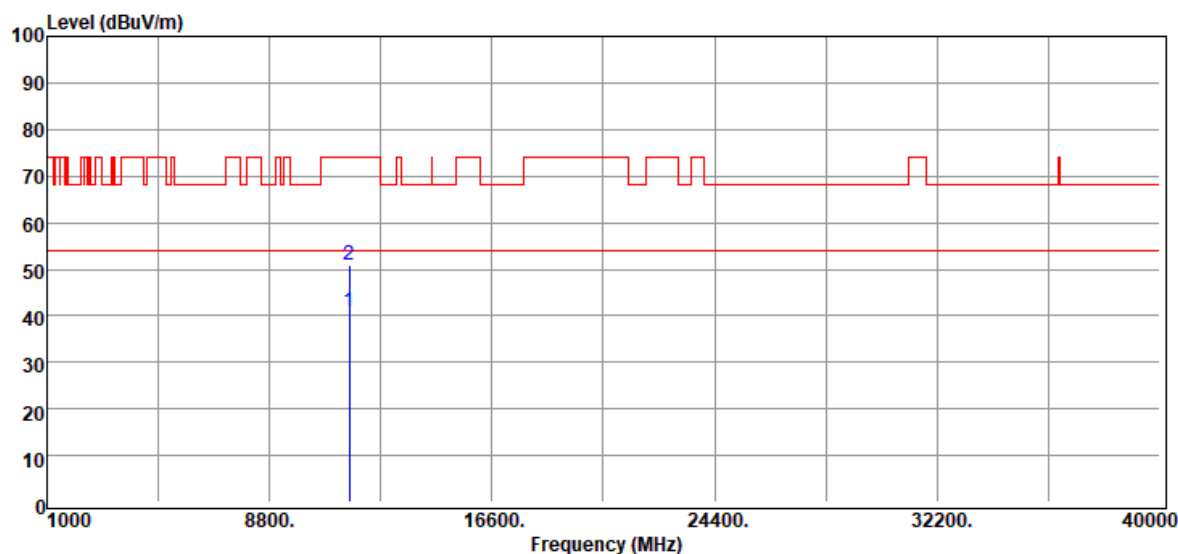
EUT Pol :E2 Plan

Test Date :2019-12-16

Temp./Humi. :23.3/61

Antenna Pol. :VERTICAL

Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11590.00	Average	28.71	12.24	40.95	54.00	-13.05
11590.00	Peak	38.63	12.24	50.87	74.00	-23.13

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Report Number :E2/2019/B0014

Operation Mode :802.11ac40 / Band 4

Test Channel :5795 MHz

Test Mode :TX CH HIGH

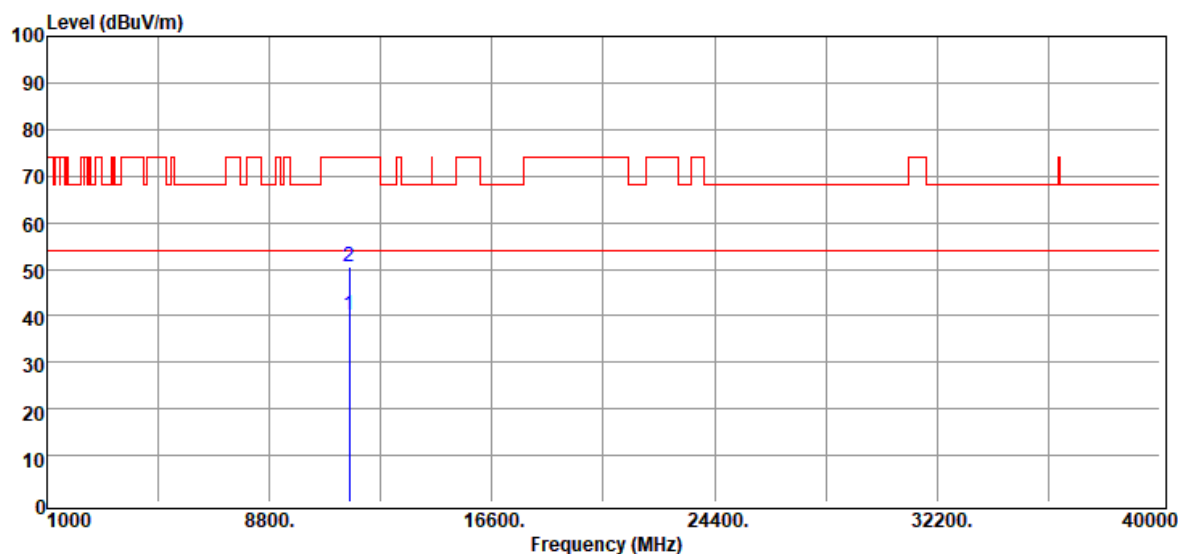
EUT Pol :E2 Plan

Test Date :2019-12-16

Temp./Humi. :23.3/61

Antenna Pol. :HORIZONTAL

Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11590.00	Average	27.96	12.24	40.20	54.00	-13.80
11590.00	Peak	38.41	12.24	50.65	74.00	-23.35

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Report Number :E2/2019/B0014

Operation Mode :802.11ac80 / Band 1

Test Channel :5210 MHz

Test Mode :TX CH LOW

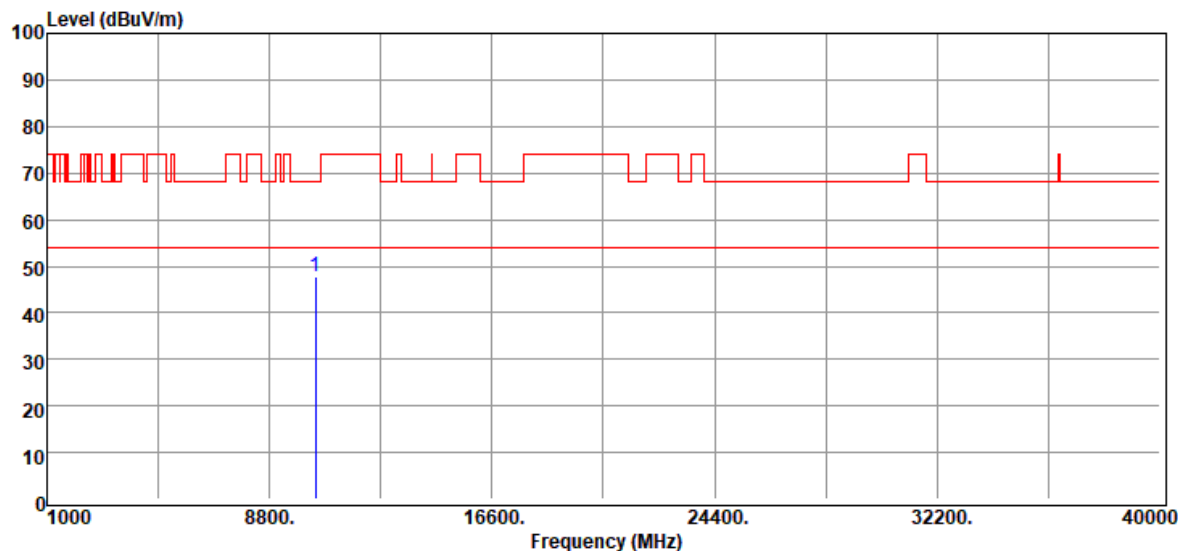
EUT Pol :E2 Plan

Test Date :2019-12-16

Temp./Humi. :23.3/61

Antenna Pol. :VERTICAL

Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10420.00	Peak	36.86	10.92	47.78	68.20	-20.42

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Report Number :E2/2019/B0014

Operation Mode :802.11ac80 / Band 1

Test Channel :5210 MHz

Test Mode :TX CH LOW

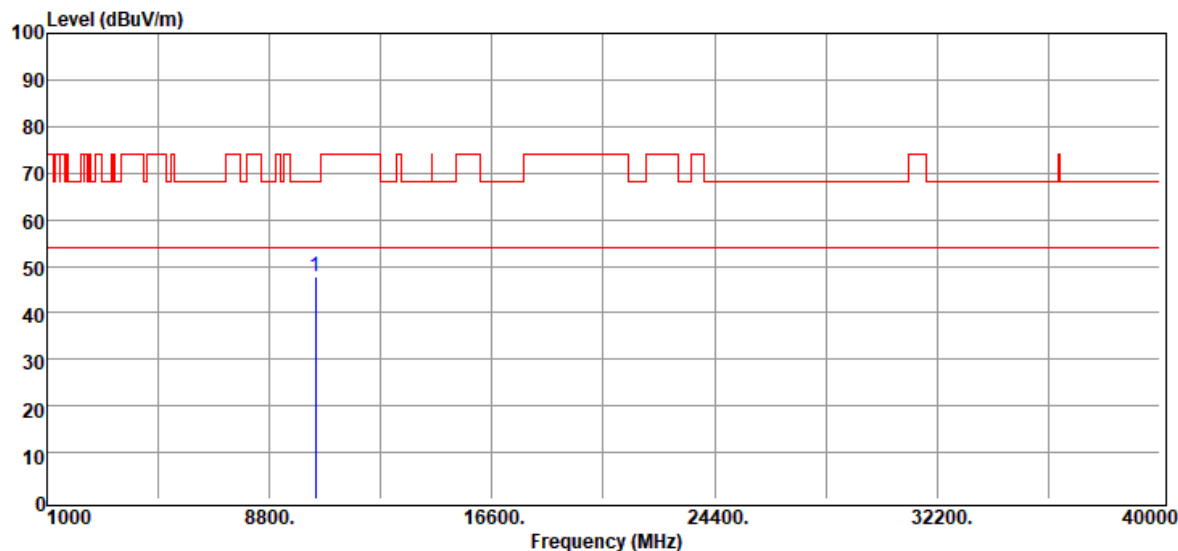
EUT Pol :E2 Plan

Test Date :2019-12-16

Temp./Humi. :23.3/61

Antenna Pol. :HORIZONTAL

Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10420.00	Peak	36.89	10.92	47.81	68.20	-20.39

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Report Number :E2/2019/B0014

Operation Mode :802.11ac80 / Band 4

Test Channel :5775 MHz

Test Mode :TX CH HIGH

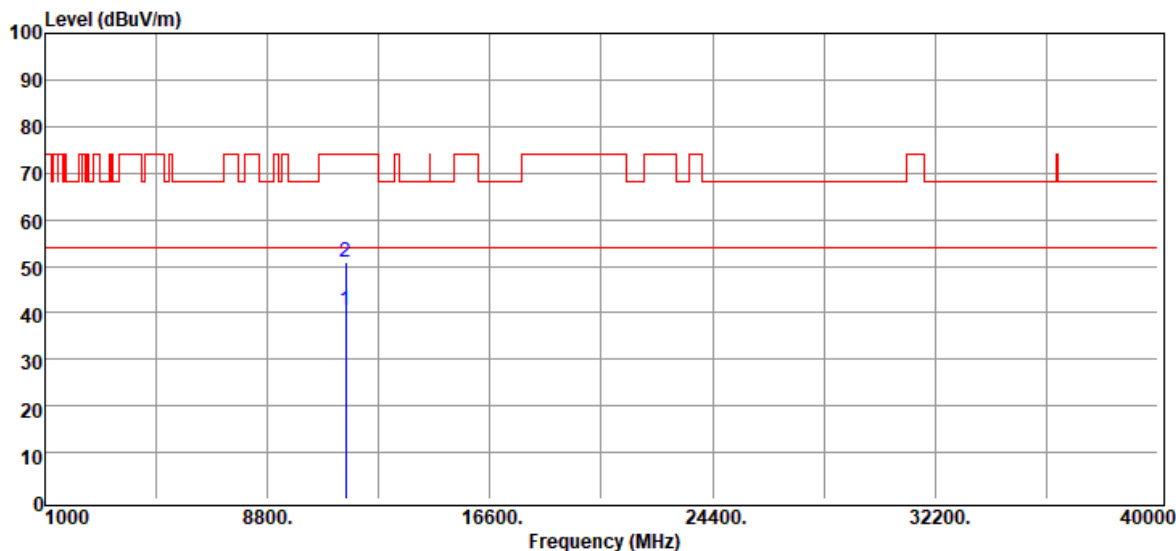
EUT Pol :E2 Plan

Test Date :2019-12-16

Temp./Humi. :23.3/61

Antenna Pol. :VERTICAL

Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11550.00	Average	28.00	12.51	40.51	54.00	-13.49
11550.00	Peak	38.25	12.51	50.76	74.00	-23.24

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Report Number :E2/2019/B0014

Operation Mode :802.11ac80 / Band 4

Test Channel :5775 MHz

Test Mode :TX CH HIGH

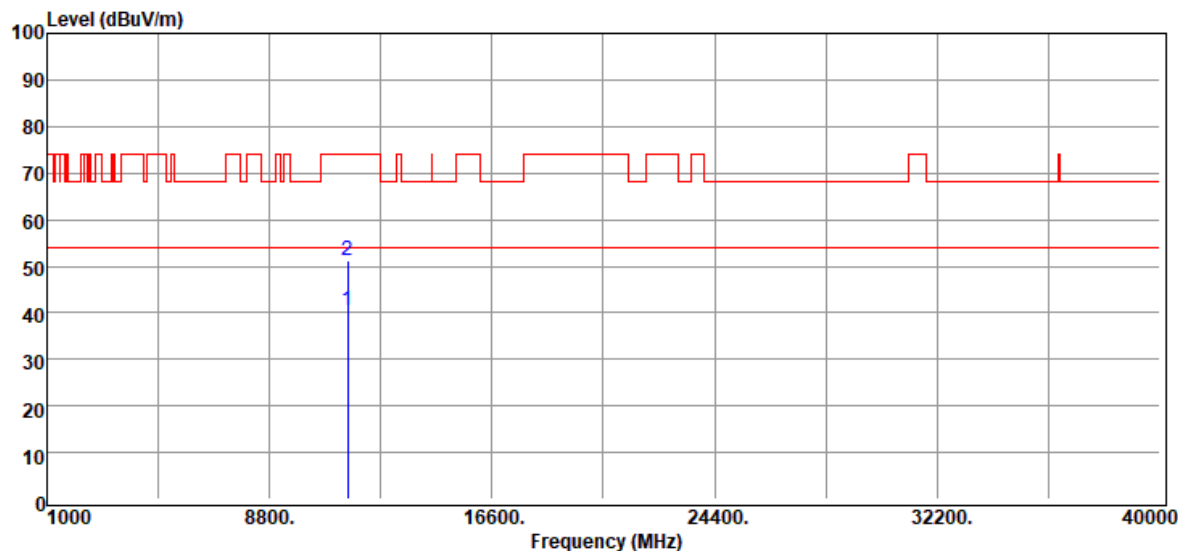
EUT Pol :E2 Plan

Test Date :2019-12-16

Temp./Humi. :23.3/61

Antenna Pol. :HORIZONTAL

Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11550.00	Average	27.85	12.51	40.36	54.00	-13.64
11550.00	Peak	38.65	12.51	51.16	74.00	-22.84

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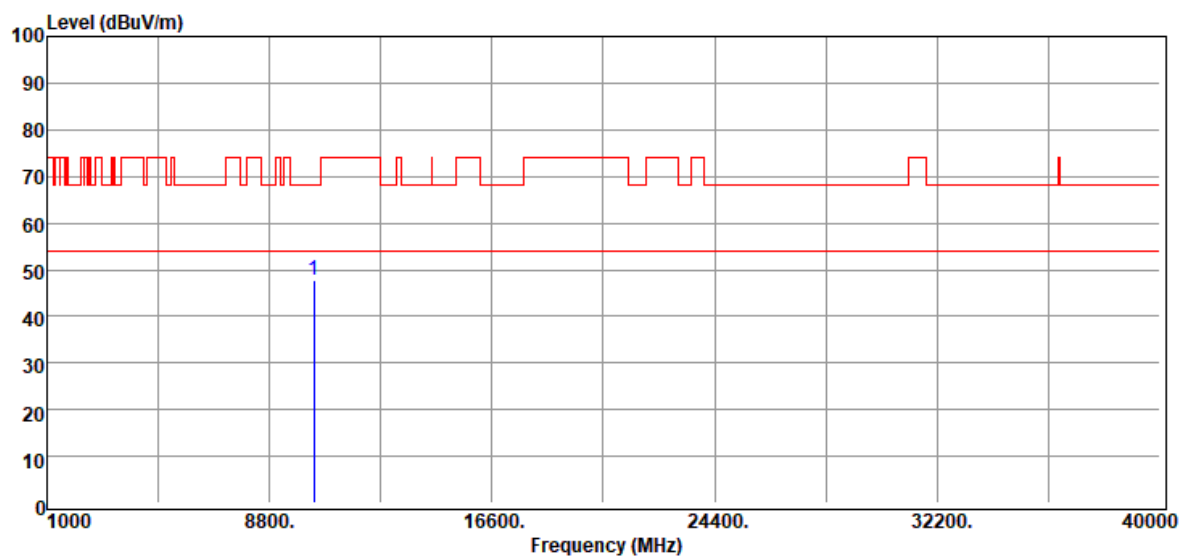
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## Beamforming Mode

Report Number :E2/2019/B0014  
 Operation Mode :802.11a / Band 1  
 Test Channel :5180 MHz  
 Test Mode :TX CH LOW  
 EUT Pol :E2 Plan

Test Date :2020-01-08  
 Temp./Humi. :21.3/62  
 Antenna Pol. :VERTICAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10360.00	Peak	37.30	10.28	47.58	68.20	-20.62

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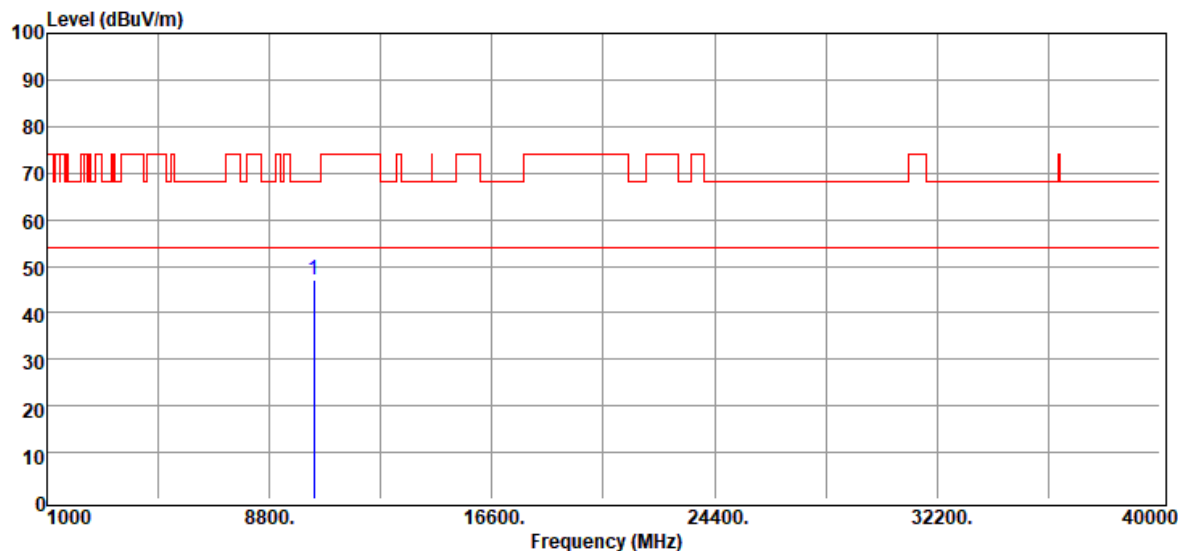
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Report Number :E2/2019/B0014  
 Operation Mode :802.11a / Band 1  
 Test Channel :5180 MHz  
 Test Mode :TX CH LOW  
 EUT Pol :E2 Plan

Test Date :2020-01-08  
 Temp./Humi. :21.3/62  
 Antenna Pol. :HORIZONTAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10360.00	Peak	36.92	10.28	47.20	68.20	-21.00

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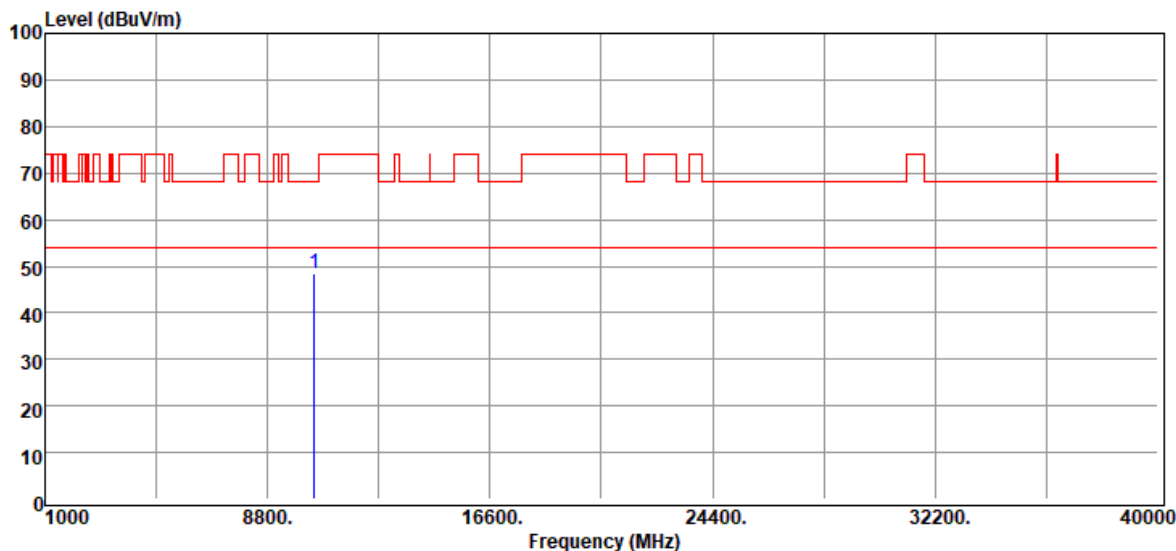
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Report Number :E2/2019/B0014  
 Operation Mode :802.11a / Band 1  
 Test Channel :5220 MHz  
 Test Mode :TX CH MID  
 EUT Pol :E2 Plan

Test Date :2020-01-08  
 Temp./Humi. :21.3/62  
 Antenna Pol. :VERTICAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10440.00	Peak	37.34	11.00	48.34	68.20	-19.86

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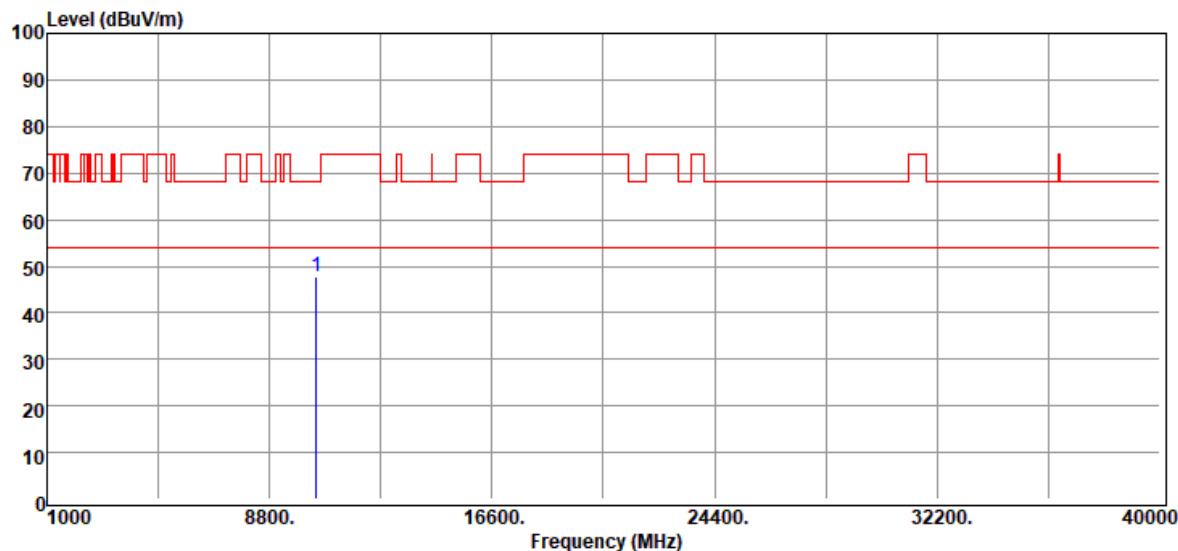
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Report Number :E2/2019/B0014  
 Operation Mode :802.11a / Band 1  
 Test Channel :5220 MHz  
 Test Mode :TX CH MID  
 EUT Pol :E2 Plan

Test Date :2020-01-08  
 Temp./Humi. :21.3/62  
 Antenna Pol. :HORIZONTAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10440.00	Peak	36.71	11.00	47.71	68.20	-20.49

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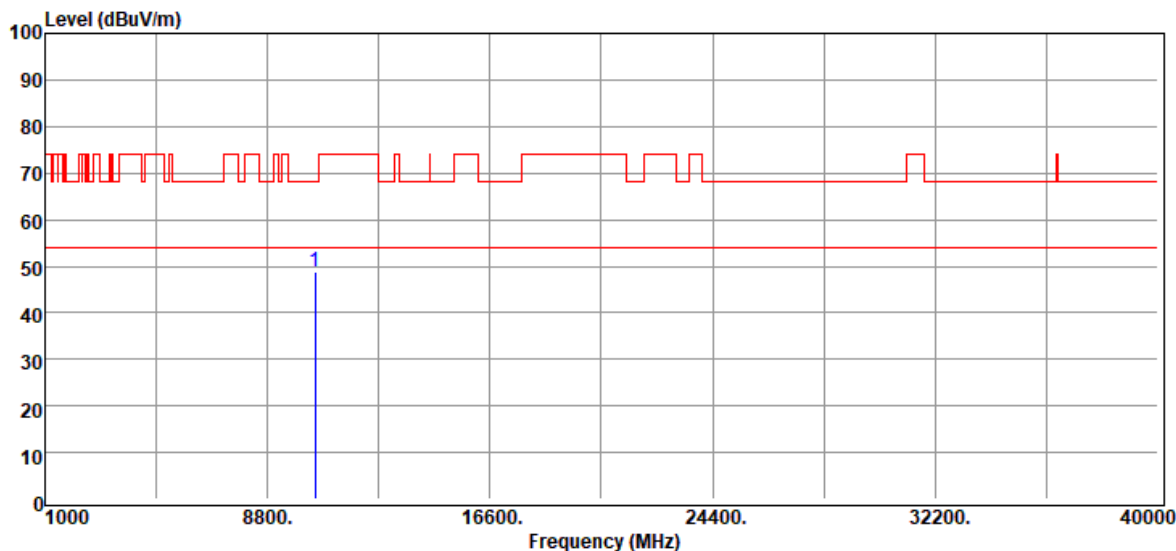
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Report Number :E2/2019/B0014  
Operation Mode :802.11a / Band 1  
Test Channel :5240 MHz  
Test Mode :TX CH HIGH  
EUT Pol :E2 Plan

Test Date :2020-01-08  
Temp./Humi. :21.3/62  
Antenna Pol. :VERTICAL  
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10480.00	Peak	37.53	11.18	48.71	68.20	-19.49

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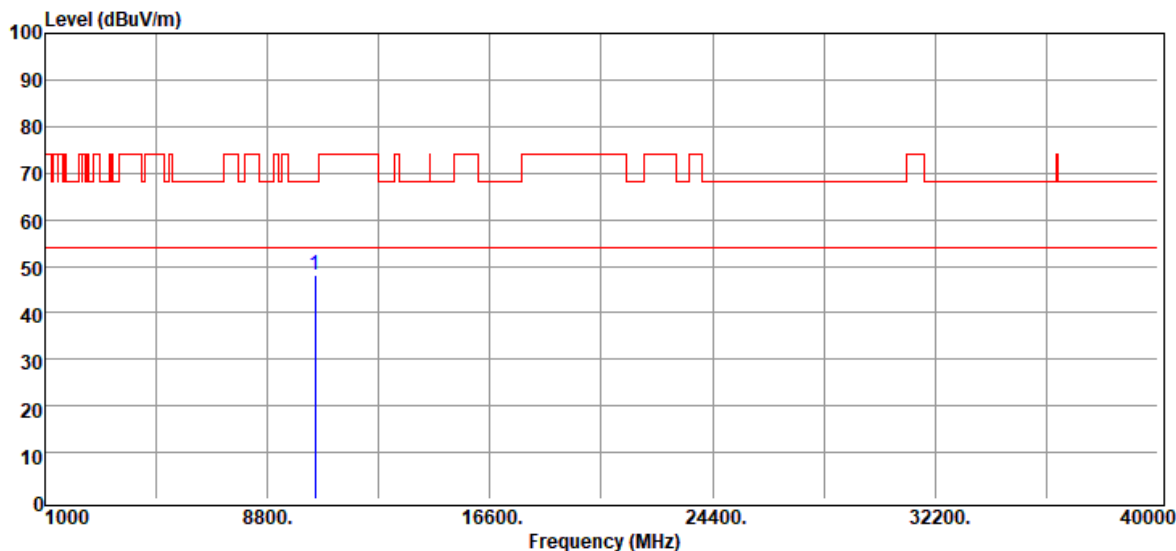
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Report Number :E2/2019/B0014  
Operation Mode :802.11a / Band 1  
Test Channel :5240 MHz  
Test Mode :TX CH HIGH  
EUT Pol :E2 Plan

Test Date :2020-01-08  
Temp./Humi. :21.3/62  
Antenna Pol. :HORIZONTAL  
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10480.00	Peak	36.96	11.18	48.14	68.20	-20.06

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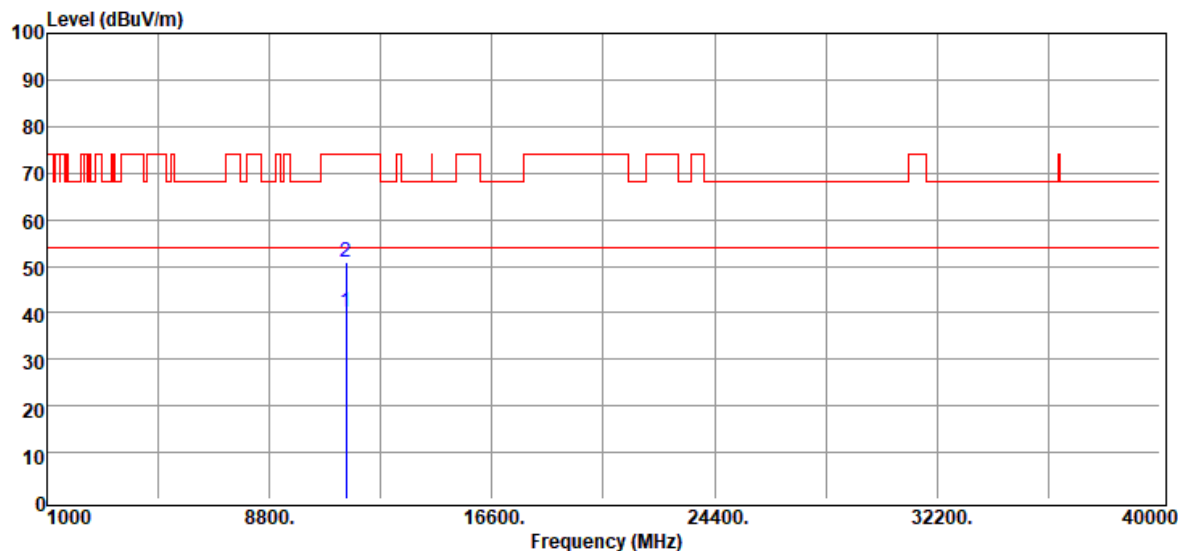
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Report Number :E2/2019/B0014  
Operation Mode :802.11a / Band 4  
Test Channel :5745 MHz  
Test Mode :TX CH LOW  
EUT Pol :E2 Plan

Test Date :2020-01-08  
Temp./Humi. :21.3/62  
Antenna Pol. :VERTICAL  
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11490.00	Average	27.45	12.69	40.14	54.00	-13.86
11490.00	Peak	38.03	12.69	50.72	74.00	-23.28

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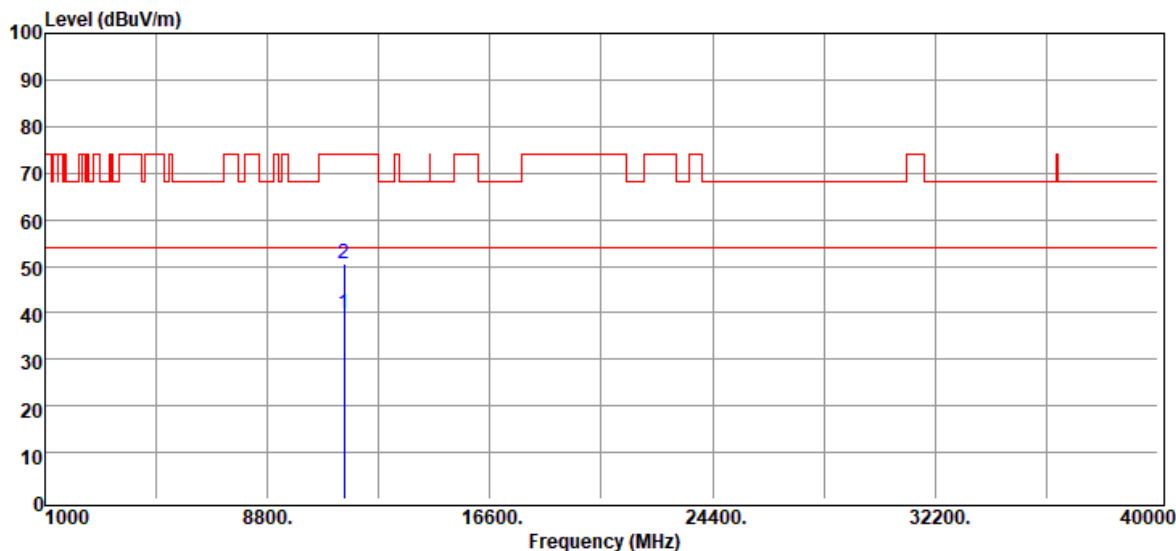
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Report Number :E2/2019/B0014  
 Operation Mode :802.11a / Band 4  
 Test Channel :5745 MHz  
 Test Mode :TX CH LOW  
 EUT Pol :E2 Plan

Test Date :2020-01-08  
 Temp./Humi. :21.3/62  
 Antenna Pol. :HORIZONTAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11490.00	Average	27.11	12.69	39.80	54.00	-14.20
11490.00	Peak	37.77	12.69	50.46	74.00	-23.54

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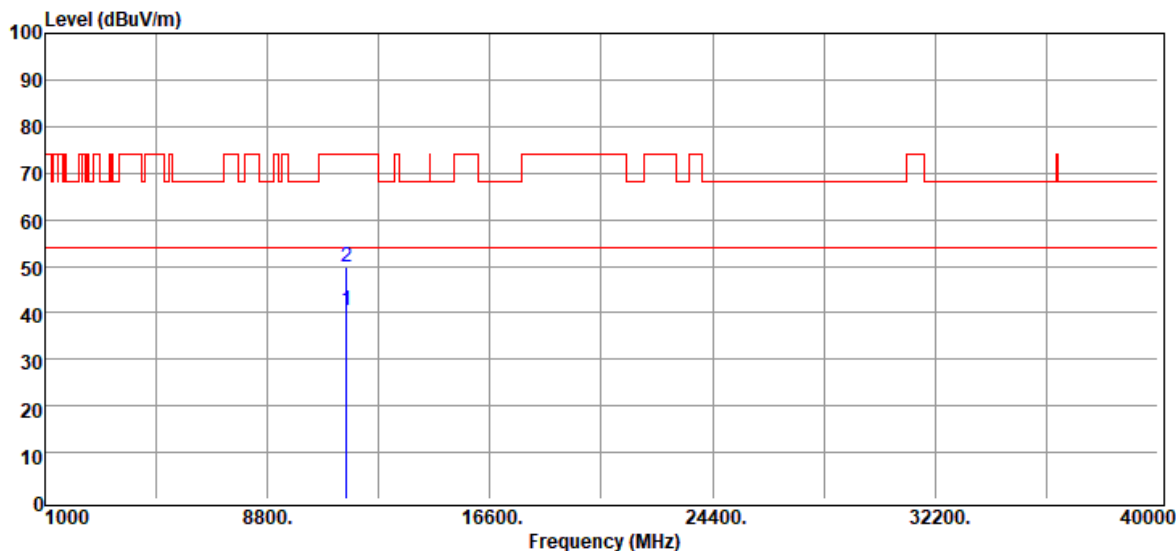
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Report Number :E2/2019/B0014  
Operation Mode :802.11a / Band 4  
Test Channel :5785 MHz  
Test Mode :TX CH MID  
EUT Pol :E2 Plan

Test Date :2020-01-08  
Temp./Humi. :21.1/61  
Antenna Pol. :VERTICAL  
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11570.00	Average	27.98	12.38	40.36	54.00	-13.64
11570.00	Peak	37.60	12.38	49.98	74.00	-24.02

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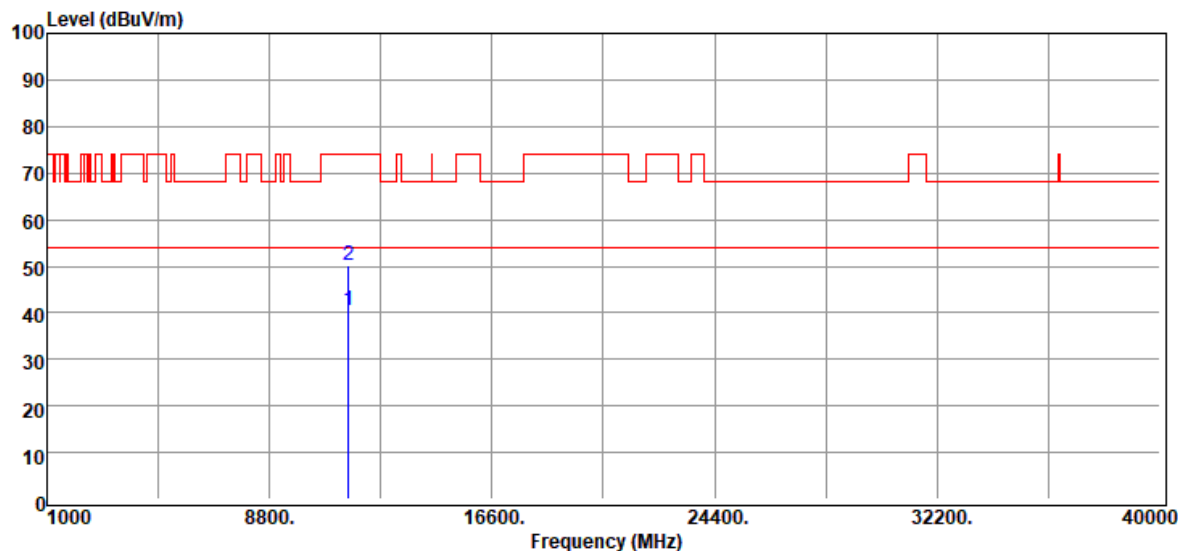
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Report Number :E2/2019/B0014  
 Operation Mode :802.11a / Band 4  
 Test Channel :5785 MHz  
 Test Mode :TX CH MID  
 EUT Pol :E2 Plan

Test Date :2020-01-08  
 Temp./Humi. :21.1/61  
 Antenna Pol. :HORIZONTAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11570.00	Average	28.06	12.38	40.44	54.00	-13.56
11570.00	Peak	37.91	12.38	50.29	74.00	-23.71

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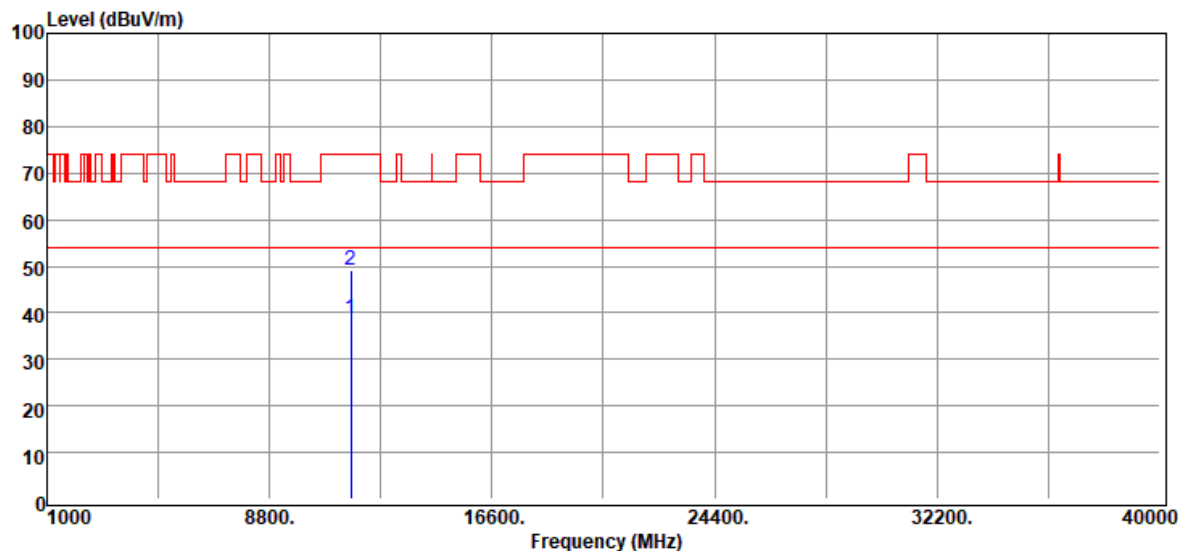
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Report Number :E2/2019/B0014  
 Operation Mode :802.11a / Band 4  
 Test Channel :5825 MHz  
 Test Mode :TX CH HIGH  
 EUT Pol :E2 Plan

Test Date :2020-01-08  
 Temp./Humi. :21.1/61  
 Antenna Pol. :VERTICAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11650.00	Average	27.71	11.21	38.92	54.00	-15.08
11650.00	Peak	37.82	11.21	49.03	74.00	-24.97

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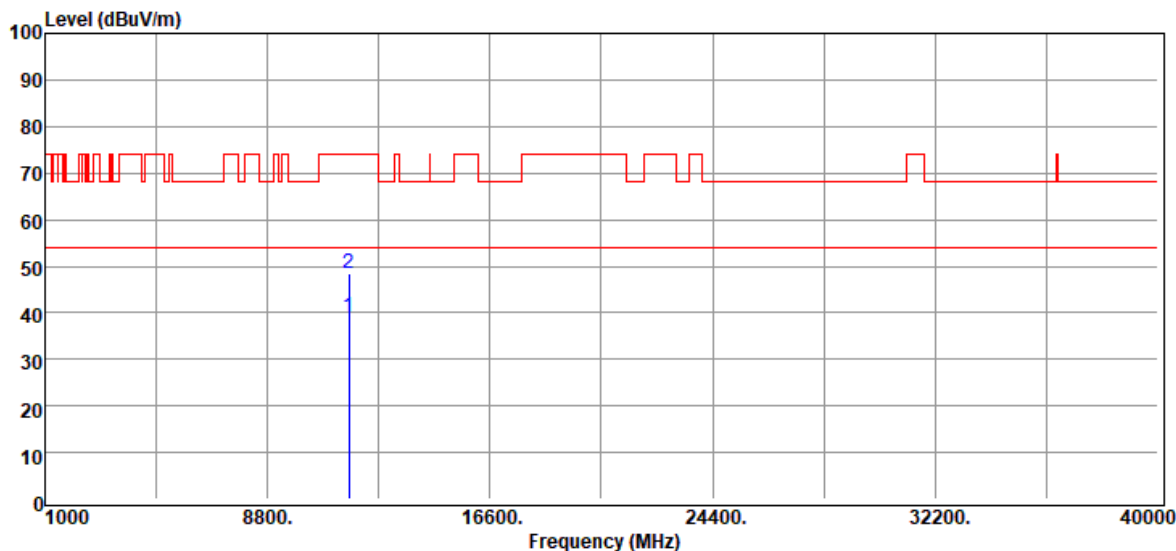
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Report Number :E2/2019/B0014  
Operation Mode :802.11a / Band 4  
Test Channel :5825 MHz  
Test Mode :TX CH HIGH  
EUT Pol :E2 Plan

Test Date :2020-01-08  
Temp./Humi. :21.1/61  
Antenna Pol. :HORIZONTAL  
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11650.00	Average	27.84	11.21	39.05	54.00	-14.95
11650.00	Peak	37.20	11.21	48.41	74.00	-25.59

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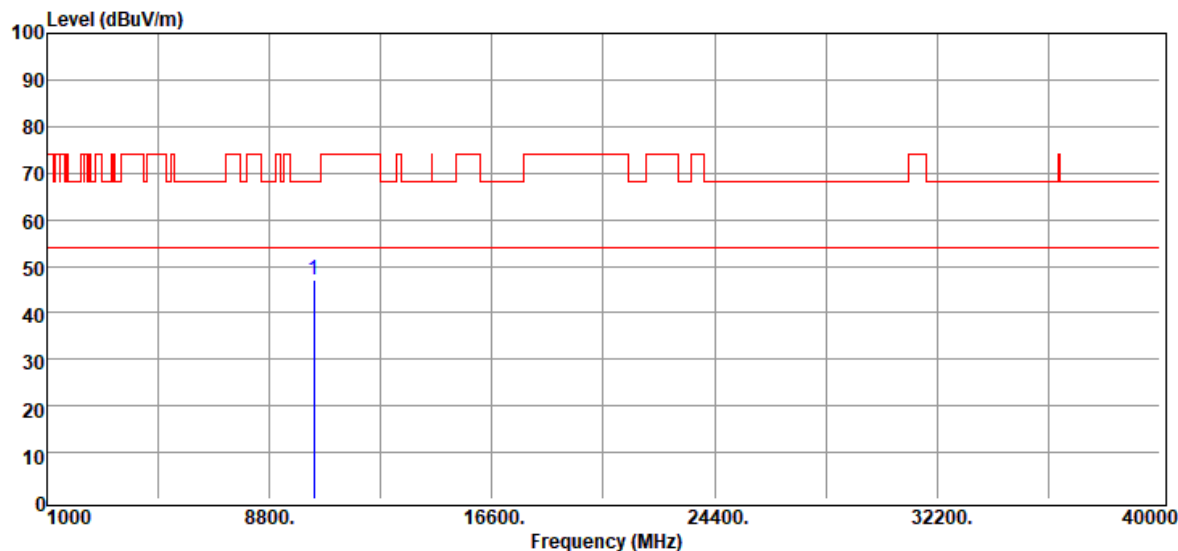
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Report Number :E2/2019/B0014  
 Operation Mode :802.11n20 / Band 1  
 Test Channel :5180 MHz  
 Test Mode :TX CH LOW  
 EUT Pol :E2 Plan

Test Date :2020-01-08  
 Temp./Humi. :21.1/61  
 Antenna Pol. :VERTICAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10360.00	Peak	36.76	10.28	47.04	68.20	-21.16

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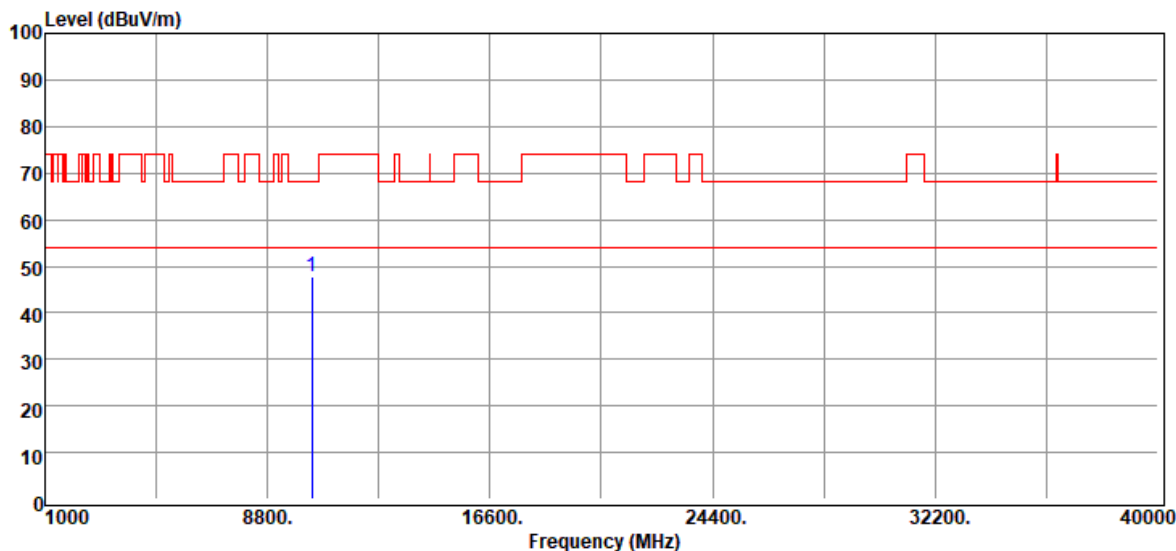
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Report Number :E2/2019/B0014  
 Operation Mode :802.11n20 / Band 1  
 Test Channel :5180 MHz  
 Test Mode :TX CH LOW  
 EUT Pol :E2 Plan

Test Date :2020-01-08  
 Temp./Humi. :21.1/61  
 Antenna Pol. :HORIZONTAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10360.00	Peak	37.32	10.28	47.60	68.20	-20.60

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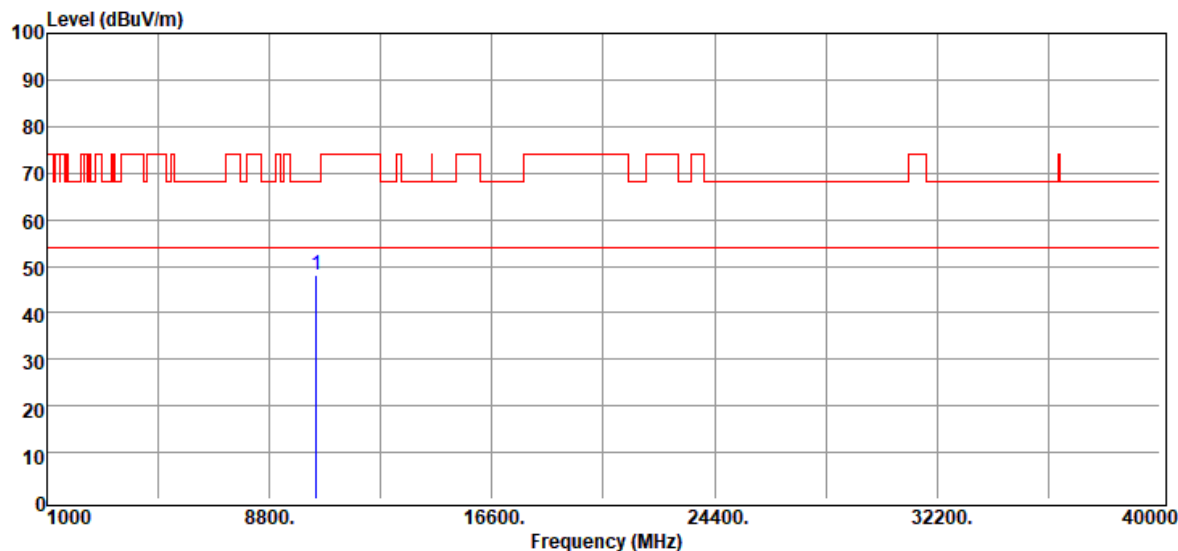
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Report Number :E2/2019/B0014  
 Operation Mode :802.11n20 / Band 1  
 Test Channel :5220 MHz  
 Test Mode :TX CH MID  
 EUT Pol :E2 Plan

Test Date :2020-01-08  
 Temp./Humi. :21.1/61  
 Antenna Pol. :VERTICAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10440.00	Peak	37.19	11.00	48.19	68.20	-20.01

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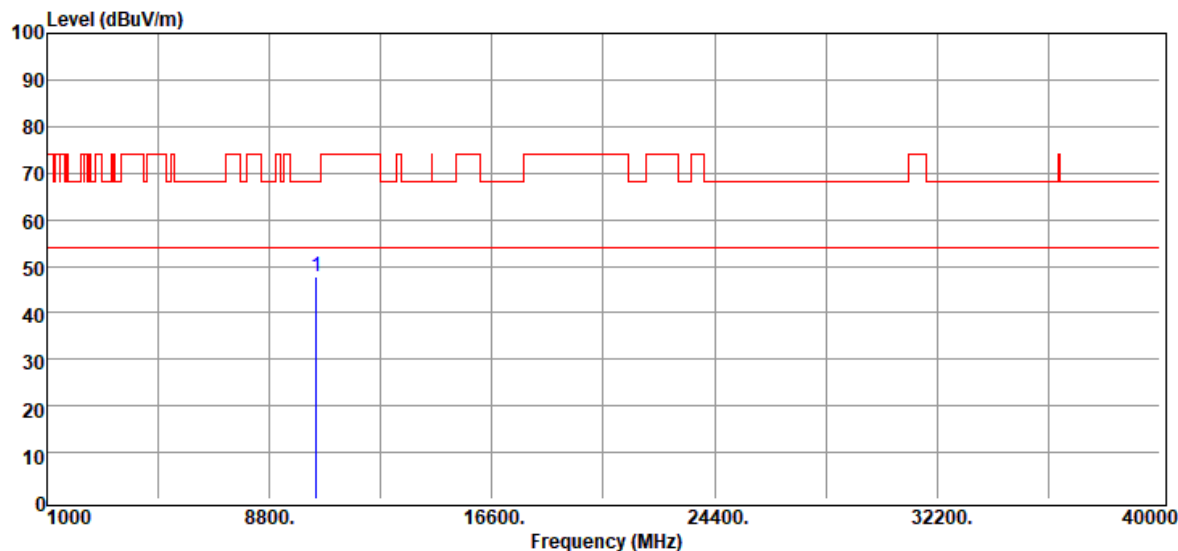
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Report Number :E2/2019/B0014  
 Operation Mode :802.11n20 / Band 1  
 Test Channel :5220 MHz  
 Test Mode :TX CH MID  
 EUT Pol :E2 Plan

Test Date :2020-01-08  
 Temp./Humi. :21.1/61  
 Antenna Pol. :HORIZONTAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10440.00	Peak	36.86	11.00	47.86	68.20	-20.34

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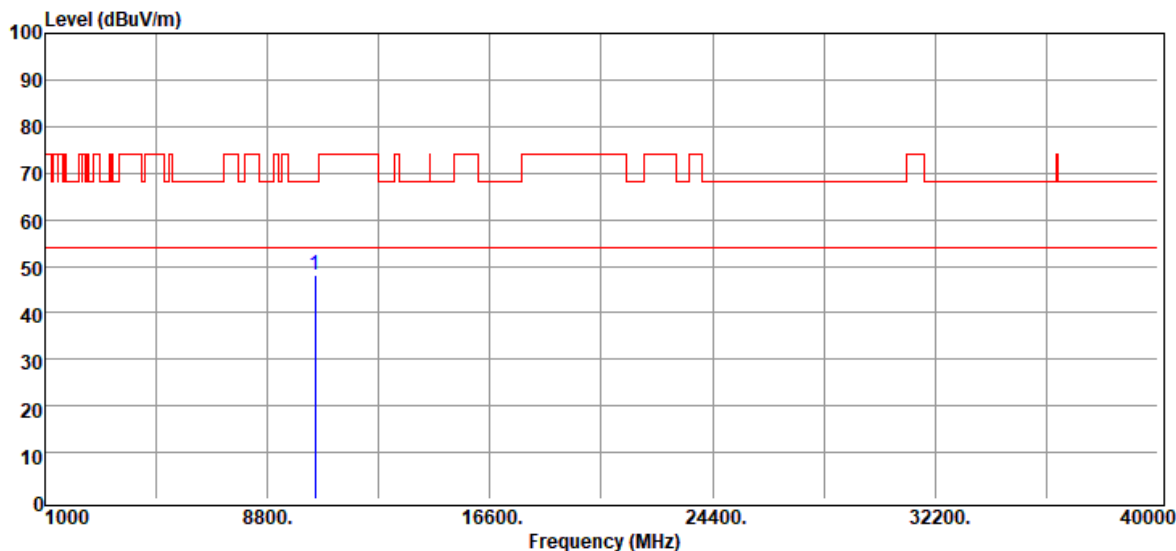
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Report Number :E2/2019/B0014  
 Operation Mode :802.11n20 / Band 1  
 Test Channel :5240 MHz  
 Test Mode :TX CH HIGH  
 EUT Pol :E2 Plan

Test Date :2020-01-08  
 Temp./Humi. :21.1/61  
 Antenna Pol. :VERTICAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10480.00	Peak	36.93	11.18	48.11	68.20	-20.09

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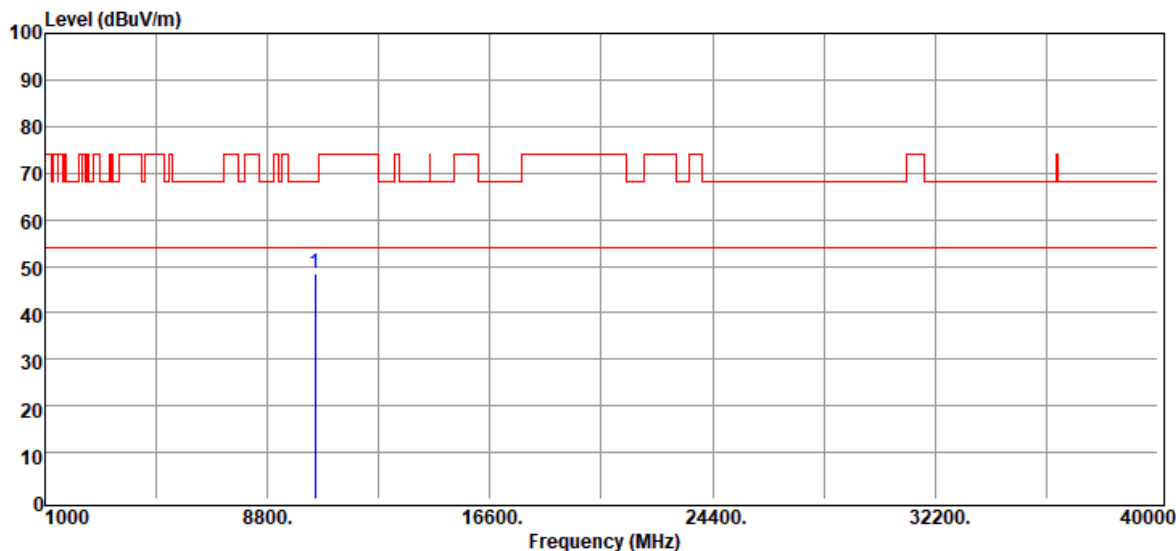
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Report Number :E2/2019/B0014  
 Operation Mode :802.11n20 / Band 1  
 Test Channel :5240 MHz  
 Test Mode :TX CH HIGH  
 EUT Pol :E2 Plan

Test Date :2020-01-08  
 Temp./Humi. :21.1/61  
 Antenna Pol. :HORIZONTAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10480.00	Peak	37.23	11.18	48.41	68.20	-19.79

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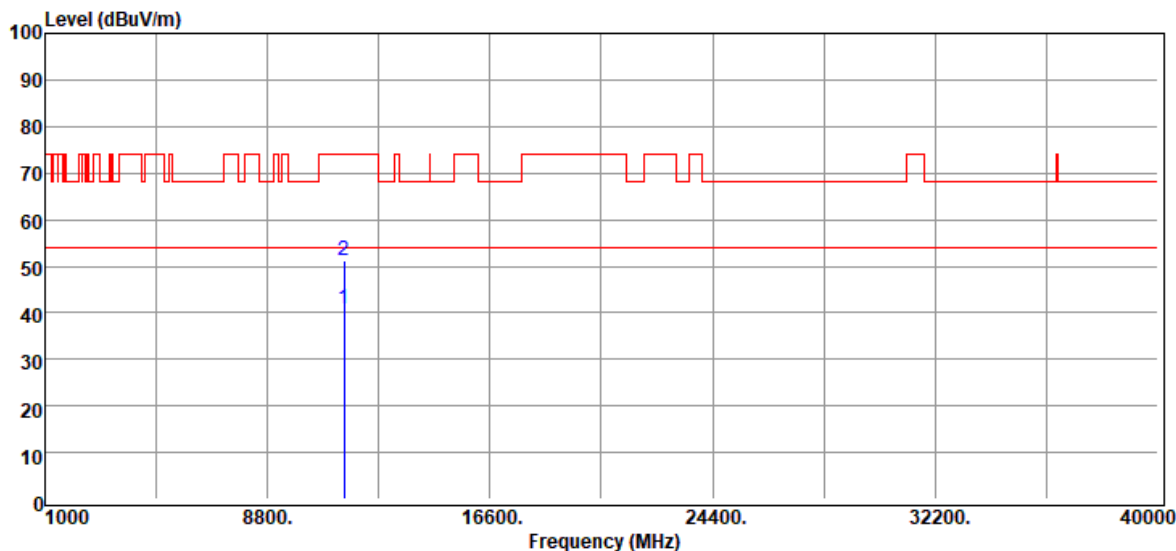
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Report Number :E2/2019/B0014  
 Operation Mode :802.11n20 / Band 4  
 Test Channel :5745 MHz  
 Test Mode :TX CH LOW  
 EUT Pol :E2 Plan

Test Date :2020-01-08  
 Temp./Humi. :21.3/63  
 Antenna Pol. :VERTICAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11490.00	Average	28.11	12.69	40.80	54.00	-13.20
11490.00	Peak	38.37	12.69	51.06	74.00	-22.94

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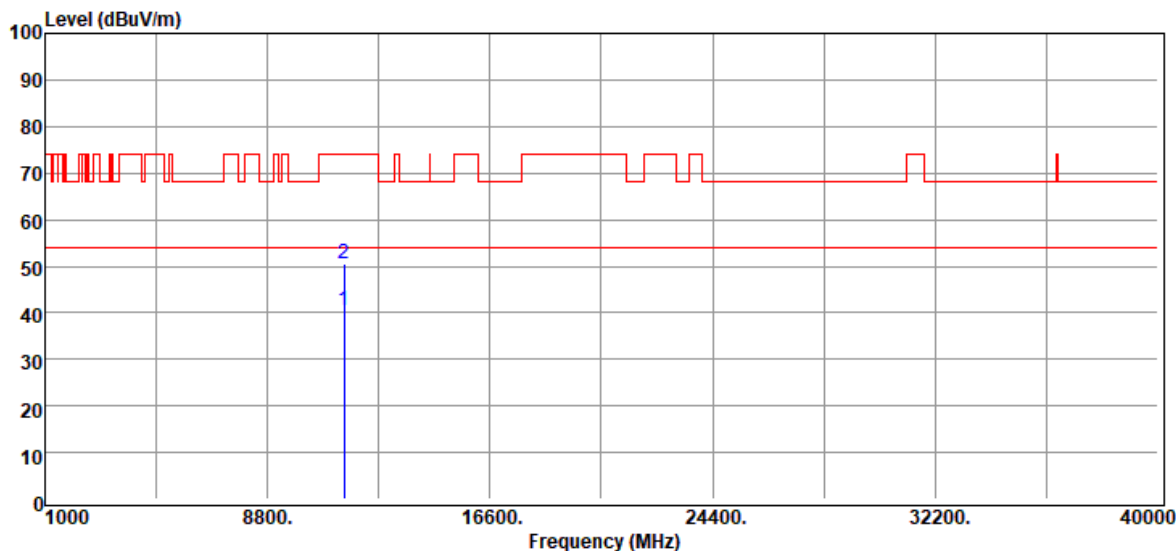
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Report Number :E2/2019/B0014  
 Operation Mode :802.11n20 / Band 4  
 Test Channel :5745 MHz  
 Test Mode :TX CH LOW  
 EUT Pol :E2 Plan

Test Date :2020-01-08  
 Temp./Humi. :21.3/63  
 Antenna Pol. :HORIZONTAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11490.00	Average	27.82	12.69	40.51	54.00	-13.49
11490.00	Peak	37.75	12.69	50.44	74.00	-23.56

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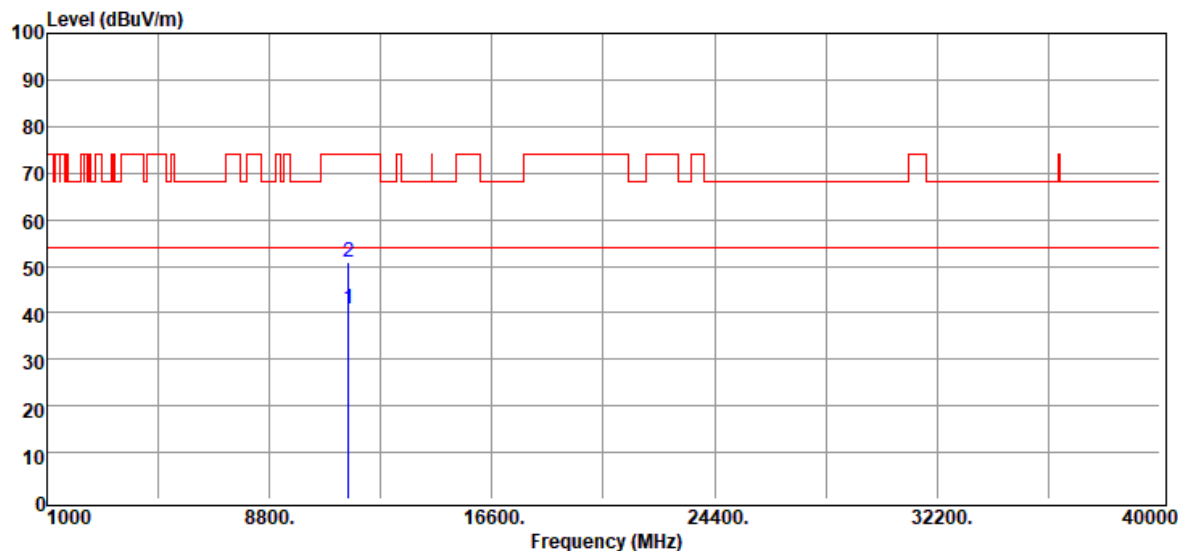
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Report Number :E2/2019/B0014  
Operation Mode :802.11n20 / Band 4  
Test Channel :5785 MHz  
Test Mode :TX CH MID  
EUT Pol :E2 Plan

Test Date :2020-01-08  
Temp./Humi. :21.3/63  
Antenna Pol. :VERTICAL  
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11570.00	Average	28.62	12.38	41.00	54.00	-13.00
11570.00	Peak	38.34	12.38	50.72	74.00	-23.28

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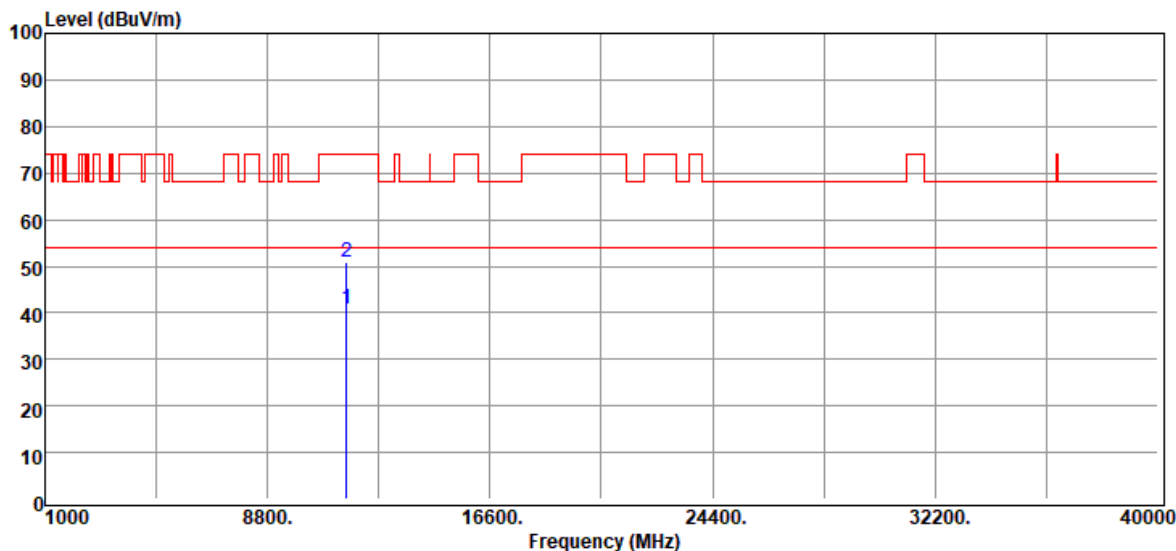
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Report Number :E2/2019/B0014  
 Operation Mode :802.11n20 / Band 4  
 Test Channel :5785 MHz  
 Test Mode :TX CH MID  
 EUT Pol :E2 Plan

Test Date :2020-01-08  
 Temp./Humi. :21.3/63  
 Antenna Pol. :HORIZONTAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11570.00	Average	28.33	12.38	40.71	54.00	-13.29
11570.00	Peak	38.66	12.38	51.04	74.00	-22.96

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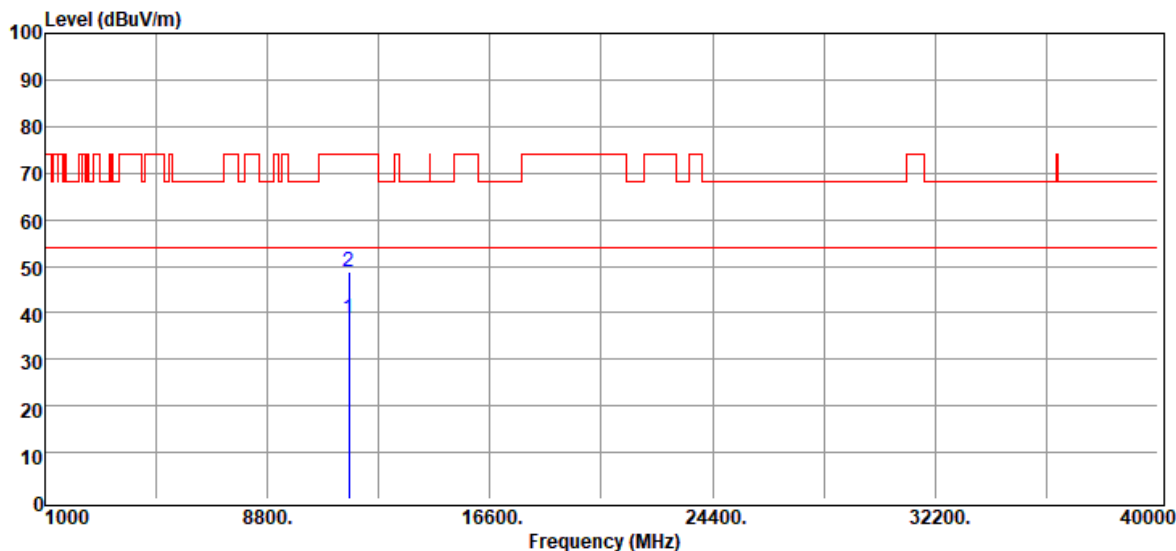
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Report Number :E2/2019/B0014  
Operation Mode :802.11n20 / Band 4  
Test Channel :5825 MHz  
Test Mode :TX CH HIGH  
EUT Pol :E2 Plan

Test Date :2020-01-08  
Temp./Humi. :21.3/63  
Antenna Pol. :VERTICAL  
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11650.00	Average	27.66	11.21	38.87	54.00	-15.13
11650.00	Peak	37.74	11.21	48.95	74.00	-25.05

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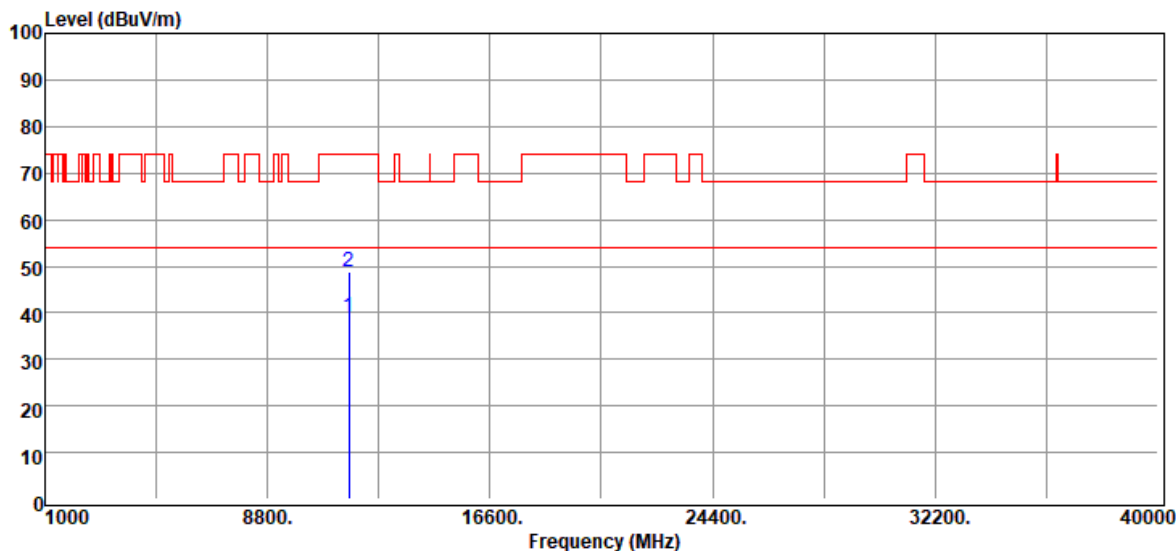
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Report Number :E2/2019/B0014  
 Operation Mode :802.11n20 / Band 4  
 Test Channel :5825 MHz  
 Test Mode :TX CH HIGH  
 EUT Pol :E2 Plan

Test Date :2020-01-08  
 Temp./Humi. :21.3/63  
 Antenna Pol. :HORIZONTAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11650.00	Average	27.95	11.21	39.16	54.00	-14.84
11650.00	Peak	37.51	11.21	48.72	74.00	-25.28

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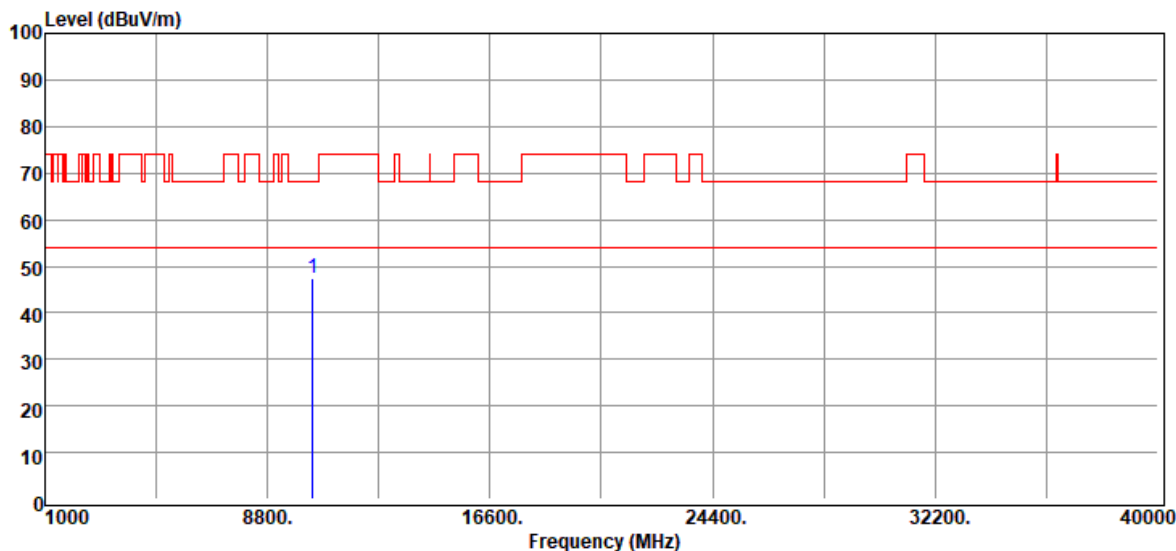
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Report Number :E2/2019/B0014  
 Operation Mode :802.11n40 / Band 1  
 Test Channel :5190 MHz  
 Test Mode :TX CH LOW  
 EUT Pol :E2 Plan

Test Date :2020-01-08  
 Temp./Humi. :21.3/63  
 Antenna Pol. :VERTICAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10380.00	Peak	36.70	10.57	47.27	68.20	-20.93

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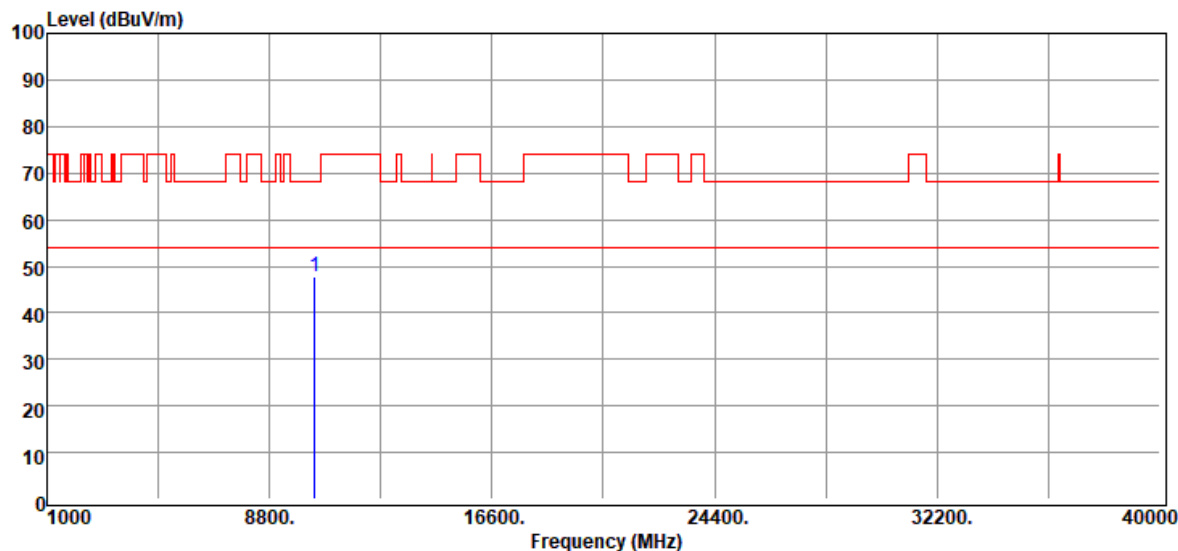
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Report Number :E2/2019/B0014  
Operation Mode :802.11n40 / Band 1  
Test Channel :5190 MHz  
Test Mode :TX CH LOW  
EUT Pol :E2 Plan

Test Date :2020-01-08  
Temp./Humi. :21.3/63  
Antenna Pol. :HORIZONTAL  
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10380.00	Peak	37.35	10.57	47.92	68.20	-20.28

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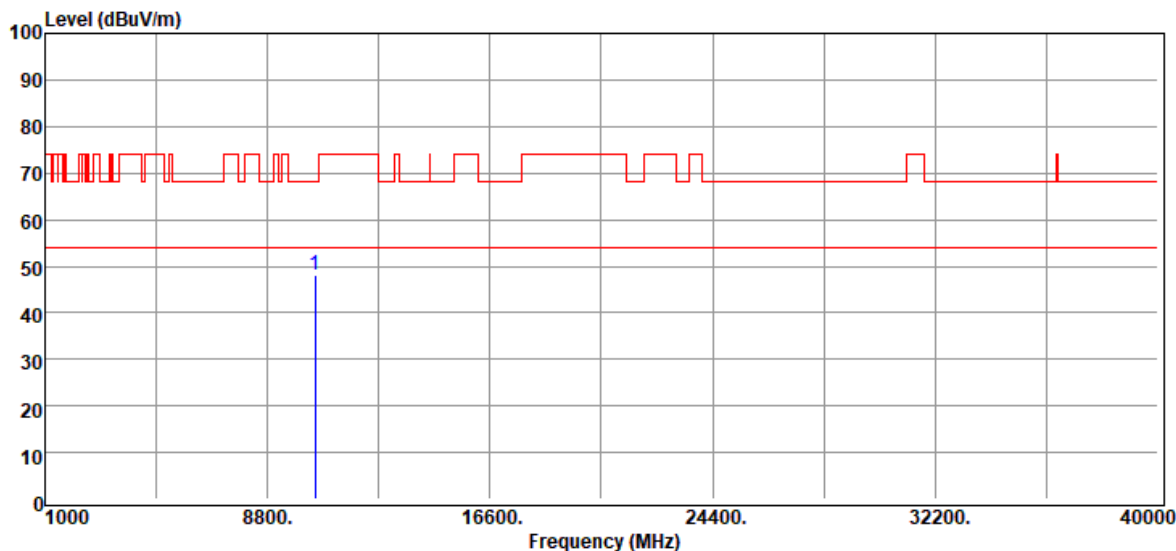
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Report Number :E2/2019/B0014  
 Operation Mode :802.11n40 / Band 1  
 Test Channel :5230 MHz  
 Test Mode :TX CH HIGH  
 EUT Pol :E2 Plan

Test Date :2020-01-08  
 Temp./Humi. :21.3/63  
 Antenna Pol. :VERTICAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10460.00	Peak	36.95	11.10	48.05	68.20	-20.15

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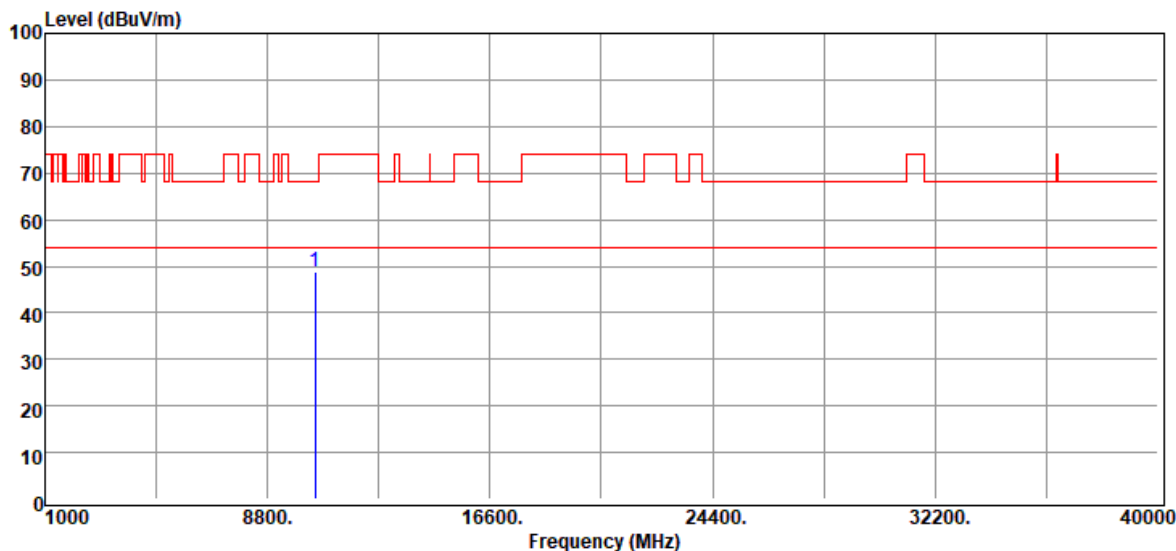
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Report Number :E2/2019/B0014  
 Operation Mode :802.11n40 / Band 1  
 Test Channel :5230 MHz  
 Test Mode :TX CH HIGH  
 EUT Pol :E2 Plan

Test Date :2020-01-08  
 Temp./Humi. :21.3/63  
 Antenna Pol. :HORIZONTAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10460.00	Peak	37.54	11.10	48.64	68.20	-19.56

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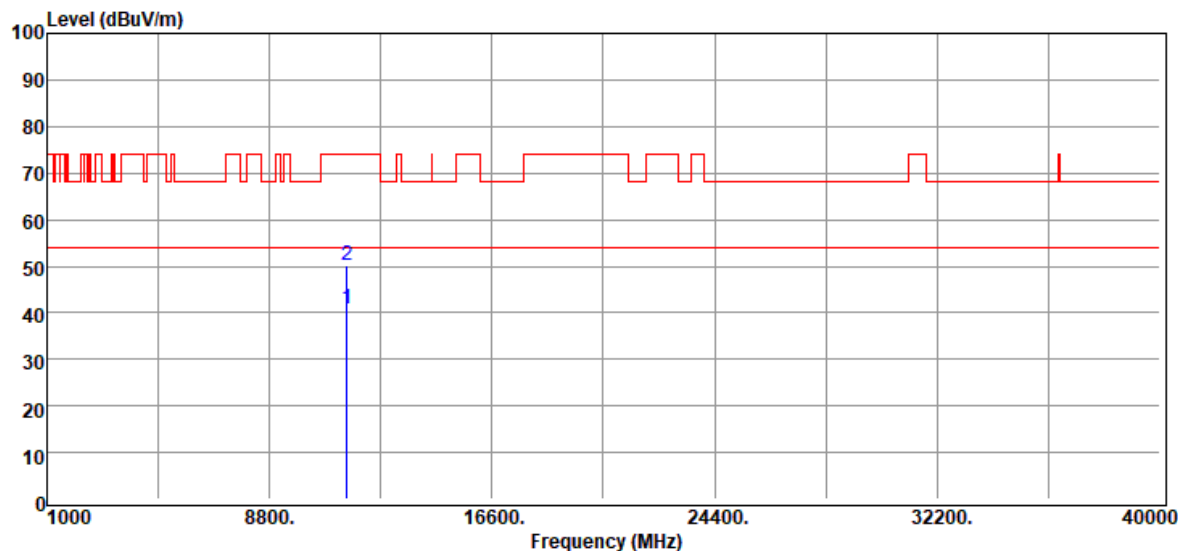
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Report Number :E2/2019/B0014  
 Operation Mode :802.11n40 / Band 4  
 Test Channel :5755 MHz  
 Test Mode :TX CH LOW  
 EUT Pol :E2 Plan

Test Date :2020-01-08  
 Temp./Humi. :21.3/63  
 Antenna Pol. :VERTICAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11510.00	Average	28.00	12.80	40.80	54.00	-13.20
11510.00	Peak	37.53	12.80	50.33	74.00	-23.67

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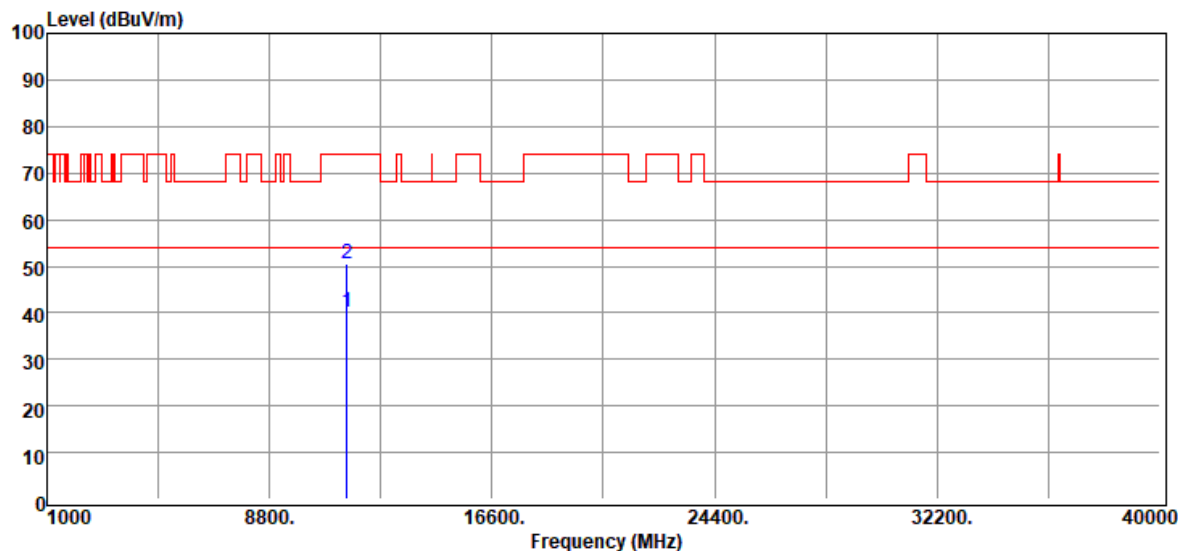
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Report Number :E2/2019/B0014  
Operation Mode :802.11n40 / Band 4  
Test Channel :5755 MHz  
Test Mode :TX CH LOW  
EUT Pol :E2 Plan

Test Date :2020-01-08  
Temp./Humi. :21.3/63  
Antenna Pol. :HORIZONTAL  
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11510.00	Average	27.45	12.80	40.25	54.00	-13.75
11510.00	Peak	37.58	12.80	50.38	74.00	-23.62

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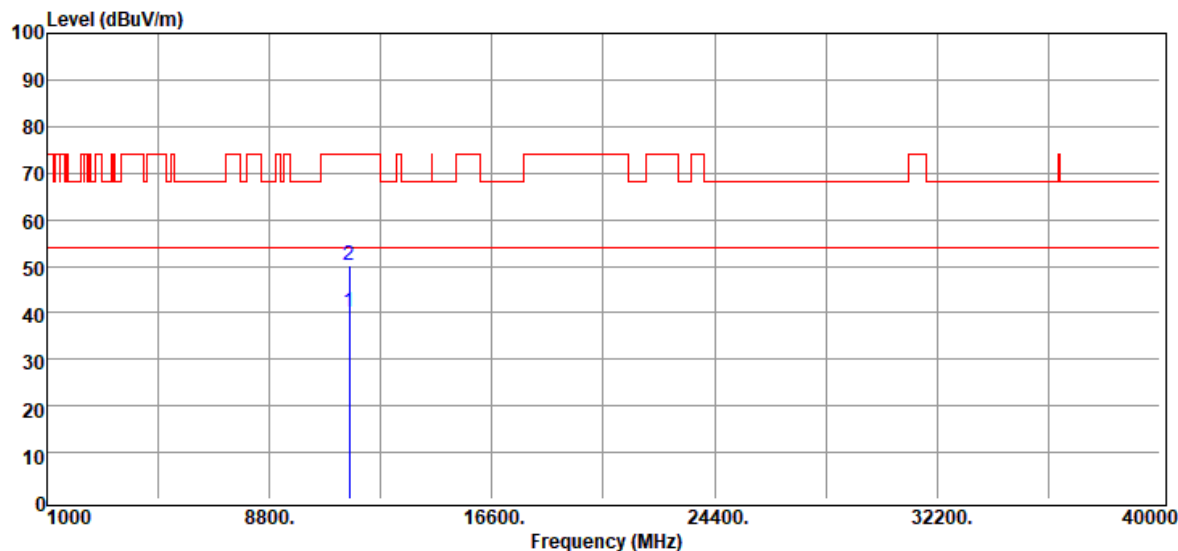
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Report Number :E2/2019/B0014  
Operation Mode :802.11n40 / Band 4  
Test Channel :5795 MHz  
Test Mode :TX CH HIGH  
EUT Pol :E2 Plan

Test Date :2020-01-08  
Temp./Humi. :21.3/63  
Antenna Pol. :VERTICAL  
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11590.00	Average	28.03	12.24	40.27	54.00	-13.73
11590.00	Peak	38.00	12.24	50.24	74.00	-23.76

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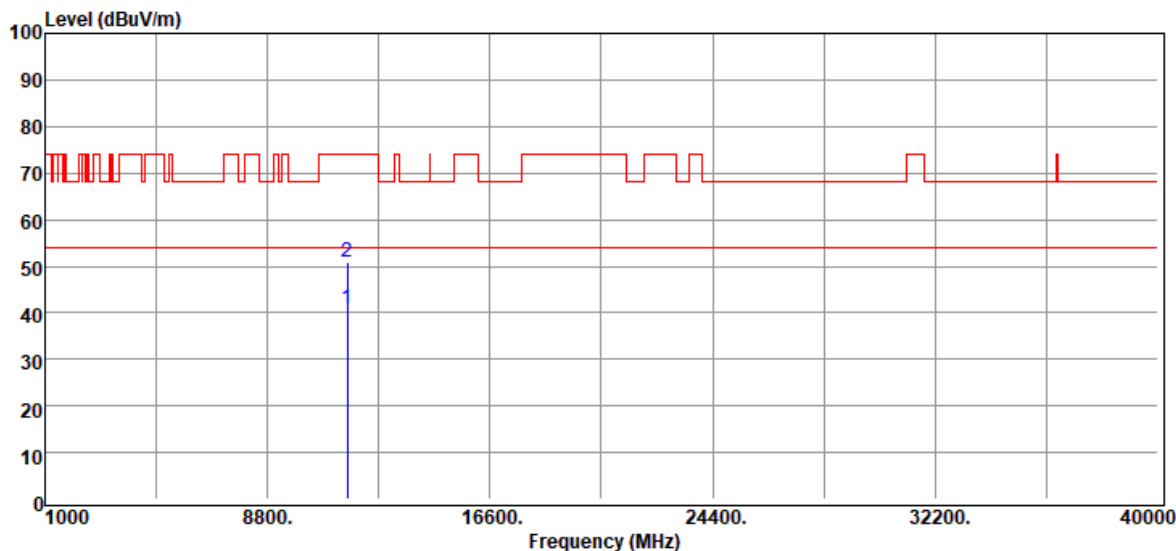
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Report Number :E2/2019/B0014  
 Operation Mode :802.11n40 / Band 4  
 Test Channel :5795 MHz  
 Test Mode :TX CH HIGH  
 EUT Pol :E2 Plan

Test Date :2020-01-08  
 Temp./Humi. :21.3/63  
 Antenna Pol. :HORIZONTAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11590.00	Average	28.47	12.24	40.71	54.00	-13.29
11590.00	Peak	38.79	12.24	51.03	74.00	-22.97

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Report Number :E2/2019/B0014

Operation Mode :802.11ac20 / Band 1

Test Channel :5180 MHz

Test Mode :TX CH LOW

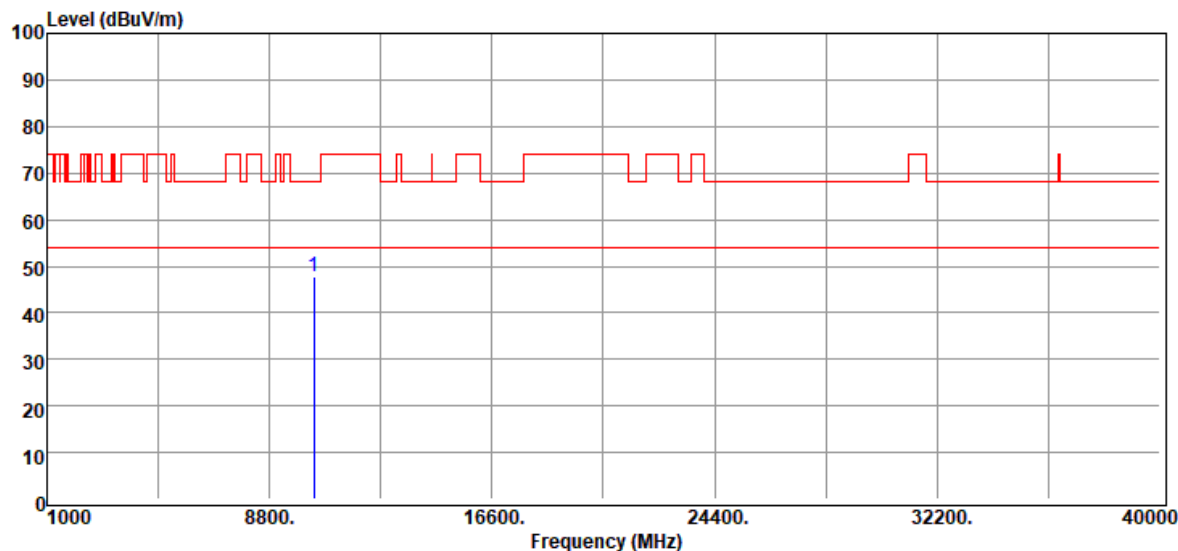
EUT Pol :E2 Plan

Test Date :2020-01-08

Temp./Humi. :21.3/62

Antenna Pol. :VERTICAL

Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10360.00	Peak	37.46	10.28	47.74	68.20	-20.46

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Report Number :E2/2019/B0014

Operation Mode :802.11ac20 / Band 1

Test Channel :5180 MHz

Test Mode :TX CH LOW

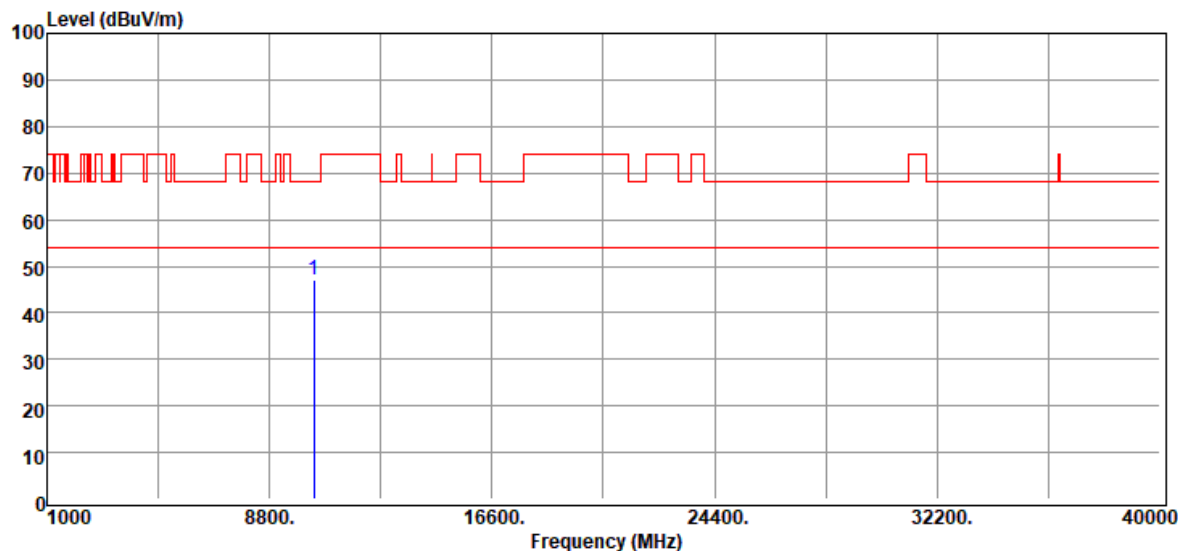
EUT Pol :E2 Plan

Test Date :2020-01-08

Temp./Humi. :21.3/62

Antenna Pol. :HORIZONTAL

Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10360.00	Peak	36.72	10.28	47.00	68.20	-21.20

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Report Number :E2/2019/B0014

Operation Mode :802.11ac20 / Band 1

Test Channel :5220 MHz

Test Mode :TX CH MID

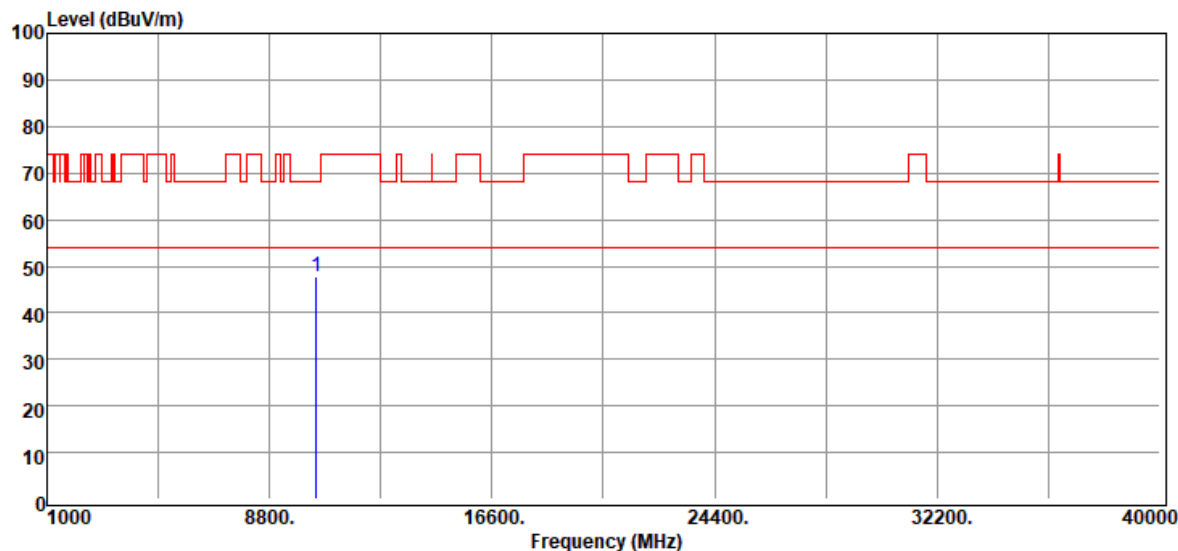
EUT Pol :E2 Plan

Test Date :2020-01-08

Temp./Humi. :21.3/62

Antenna Pol. :VERTICAL

Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10440.00	Peak	36.66	11.00	47.66	68.20	-20.54

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Report Number :E2/2019/B0014

Operation Mode :802.11ac20 / Band 1

Test Channel :5220 MHz

Test Mode :TX CH MID

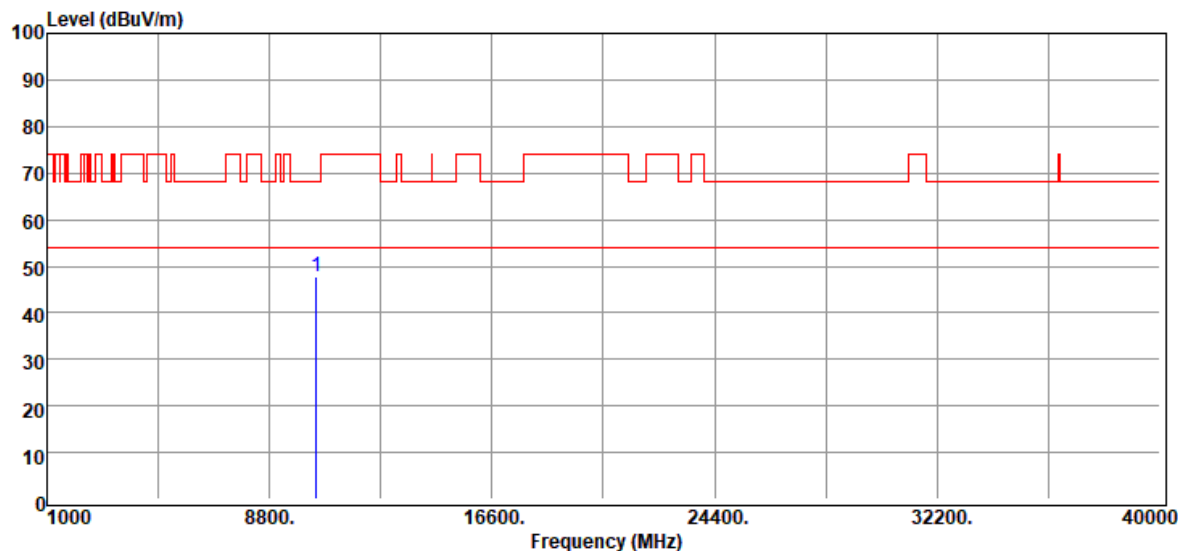
EUT Pol :E2 Plan

Test Date :2020-01-08

Temp./Humi. :21.3/62

Antenna Pol. :HORIZONTAL

Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10440.00	Peak	36.72	11.00	47.72	68.20	-20.48

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台灣檢驗科技股份有限公司

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Member of SGS Group

Report Number :E2/2019/B0014

Operation Mode :802.11ac20 / Band 1

Test Channel :5240 MHz

Test Mode :TX CH HIGH

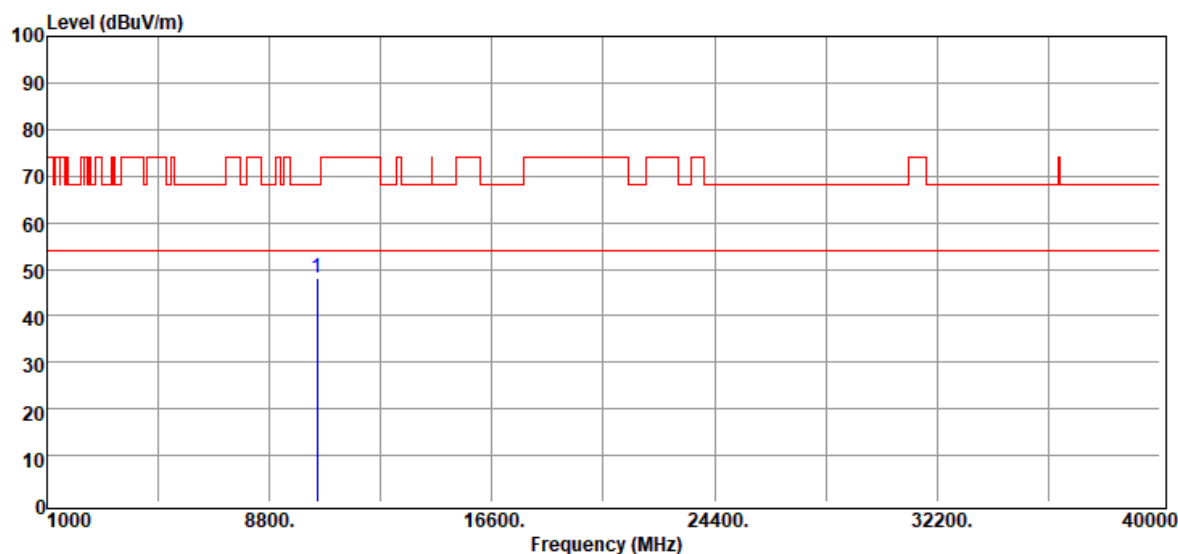
EUT Pol :E2 Plan

Test Date :2020-01-08

Temp./Humi. :21.3/62

Antenna Pol. :VERTICAL

Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10480.00	Peak	36.87	11.18	48.05	68.20	-20.15

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Report Number :E2/2019/B0014

Operation Mode :802.11ac20 / Band 1

Test Channel :5240 MHz

Test Mode :TX CH HIGH

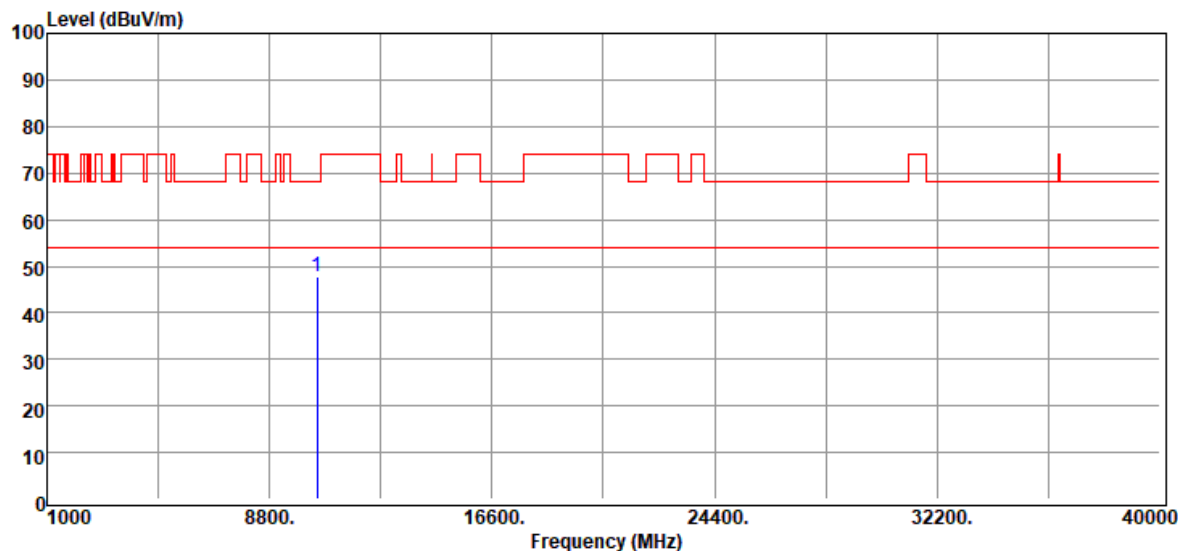
EUT Pol :E2 Plan

Test Date :2020-01-08

Temp./Humi. :21.3/62

Antenna Pol. :HORIZONTAL

Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10480.00	Peak	36.66	11.18	47.84	68.20	-20.36

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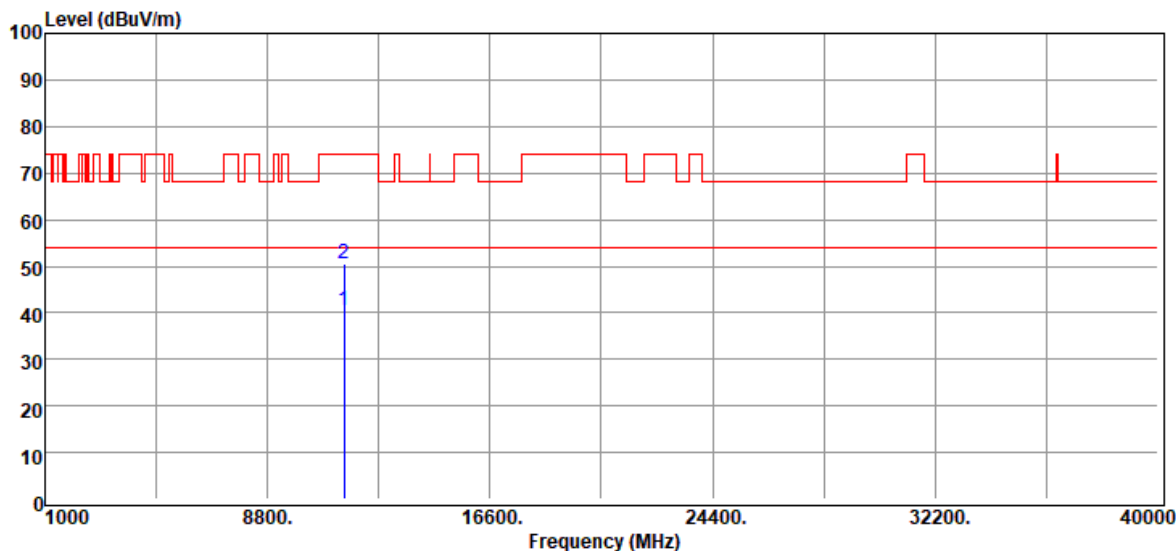
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Report Number	:E2/2019/B0014	Test Date	:2020-01-08
Operation Mode	:802.11ac20 / Band 4	Temp./Humi.	:21.3/62
Test Channel	:5745 MHz	Antenna Pol.	:VERTICAL
Test Mode	:TX CH LOW	Engineer	:Kailin
EUT Pol	:E2 Plan		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11490.00	Average	27.93	12.69	40.62	54.00	-13.38
11490.00	Peak	37.83	12.69	50.52	74.00	-23.48

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Report Number :E2/2019/B0014

Operation Mode :802.11ac20 / Band 4

Test Channel :5745 MHz

Test Mode :TX CH LOW

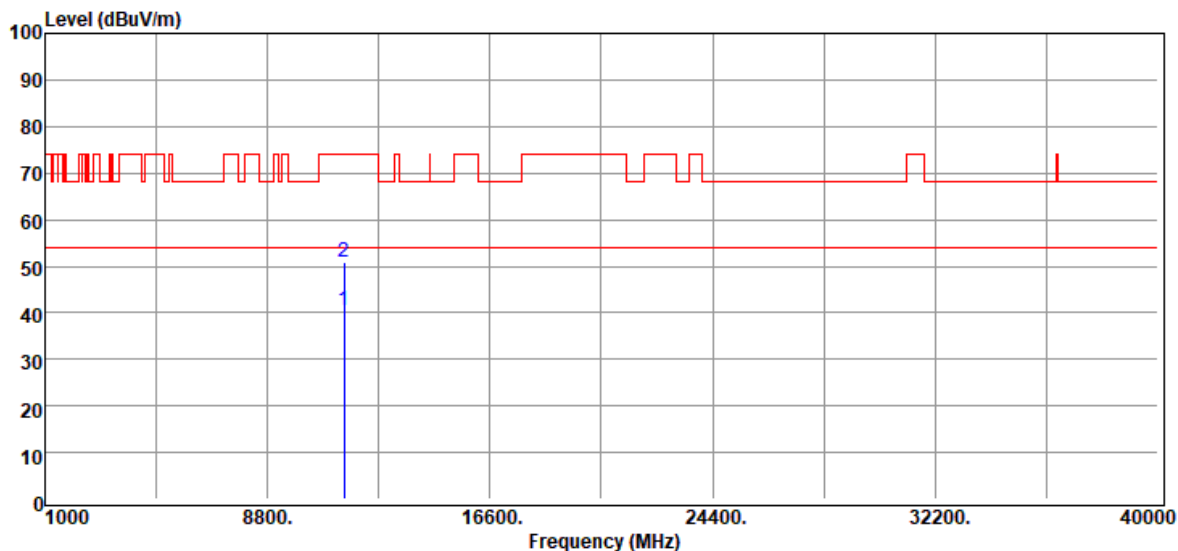
EUT Pol :E2 Plan

Test Date :2020-01-08

Temp./Humi. :21.3/62

Antenna Pol. :HORIZONTAL

Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11490.00	Average	27.84	12.69	40.53	54.00	-13.47
11490.00	Peak	38.23	12.69	50.92	74.00	-23.08

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Report Number :E2/2019/B0014

Operation Mode :802.11ac20 / Band 4

Test Channel :5785 MHz

Test Mode :TX CH MID

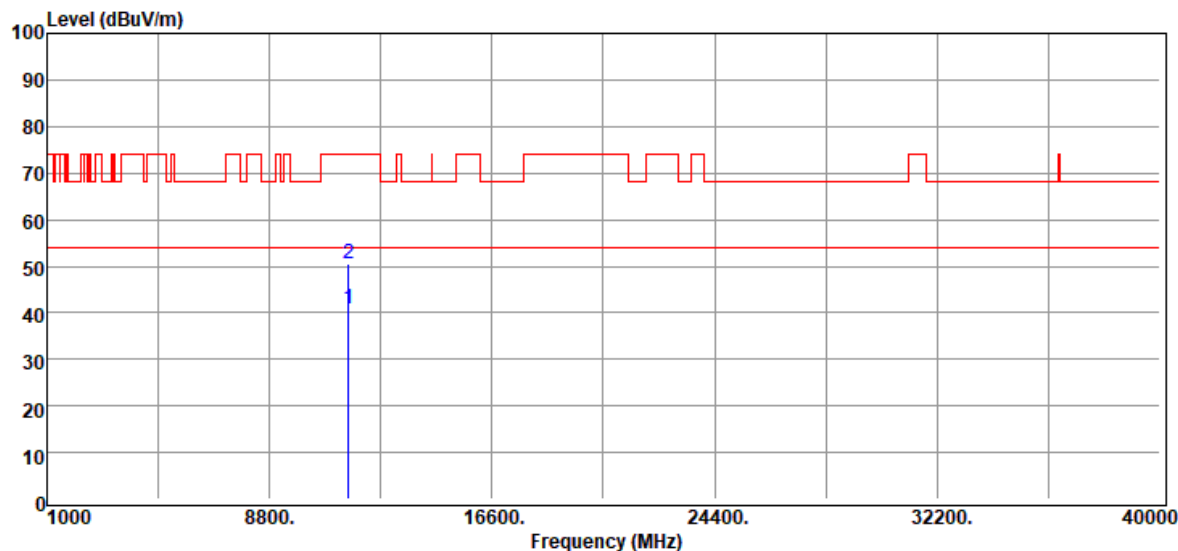
EUT Pol :E2 Plan

Test Date :2020-01-08

Temp./Humi. :21.2/61

Antenna Pol. :VERTICAL

Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11570.00	Average	28.62	12.38	41.00	54.00	-13.00
11570.00	Peak	38.23	12.38	50.61	74.00	-23.39

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Report Number :E2/2019/B0014

Operation Mode :802.11ac20 / Band 4

Test Channel :5785 MHz

Test Mode :TX CH MID

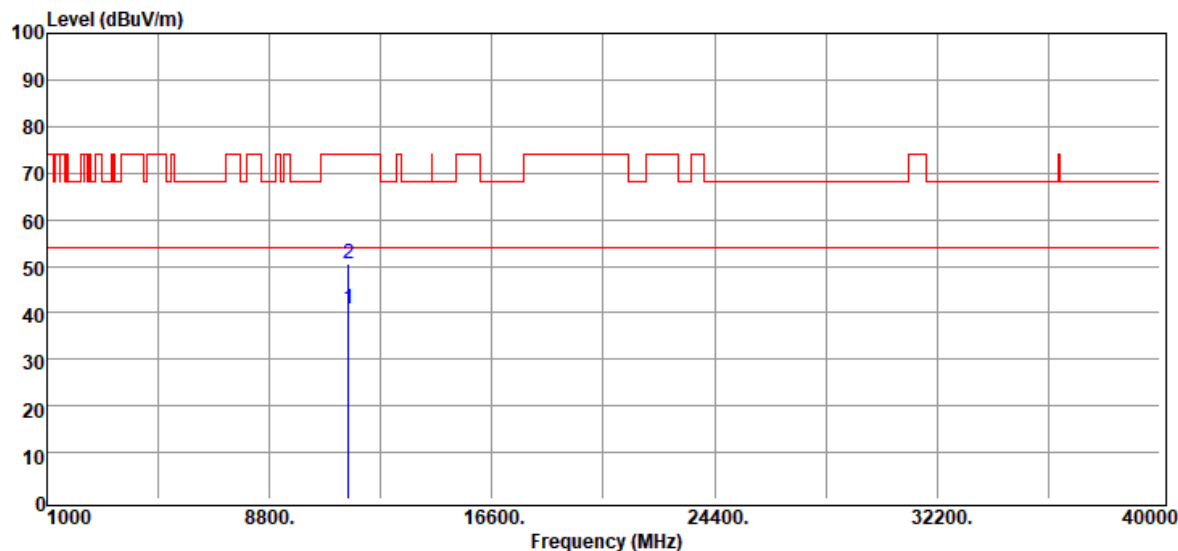
EUT Pol :E2 Plan

Test Date :2020-01-08

Temp./Humi. :21.2/61

Antenna Pol. :HORIZONTAL

Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11570.00	Average	28.62	12.38	41.00	54.00	-13.00
11570.00	Peak	38.05	12.38	50.43	74.00	-23.57

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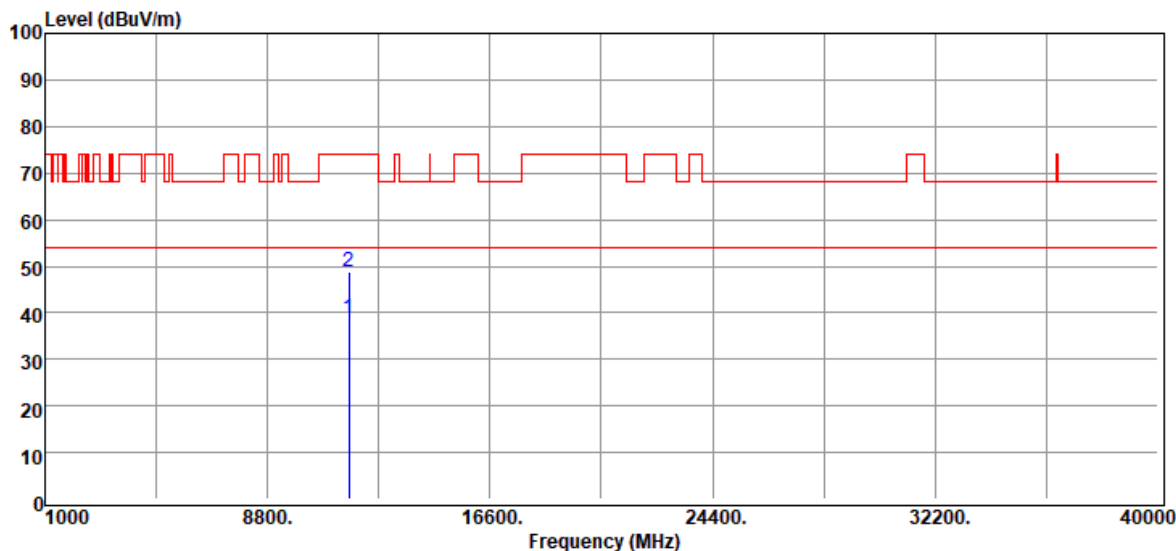
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Report Number :E2/2019/B0014  
 Operation Mode :802.11ac20 / Band 4  
 Test Channel :5825 MHz  
 Test Mode :TX CH HIGH  
 EUT Pol :E2 Plan

Test Date :2020-01-08  
 Temp./Humi. :21.2/61  
 Antenna Pol. :VERTICAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11650.00	Average	27.68	11.21	38.89	54.00	-15.11
11650.00	Peak	37.69	11.21	48.90	74.00	-25.10

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Report Number :E2/2019/B0014

Operation Mode :802.11ac20 / Band 4

Test Channel :5825 MHz

Test Mode :TX CH HIGH

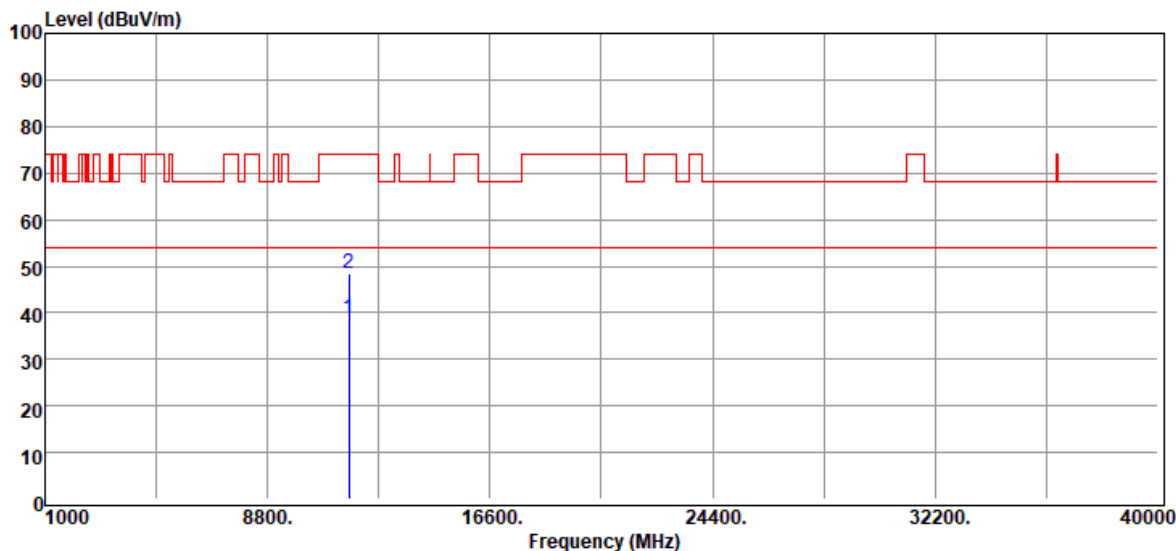
EUT Pol :E2 Plan

Test Date :2020-01-08

Temp./Humi. :21.2/61

Antenna Pol. :HORIZONTAL

Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11650.00	Average	27.48	11.21	38.69	54.00	-15.31
11650.00	Peak	37.25	11.21	48.46	74.00	-25.54

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Report Number :E2/2019/B0014

Operation Mode :802.11ac40 / Band 1

Test Channel :5190 MHz

Test Mode :TX CH LOW

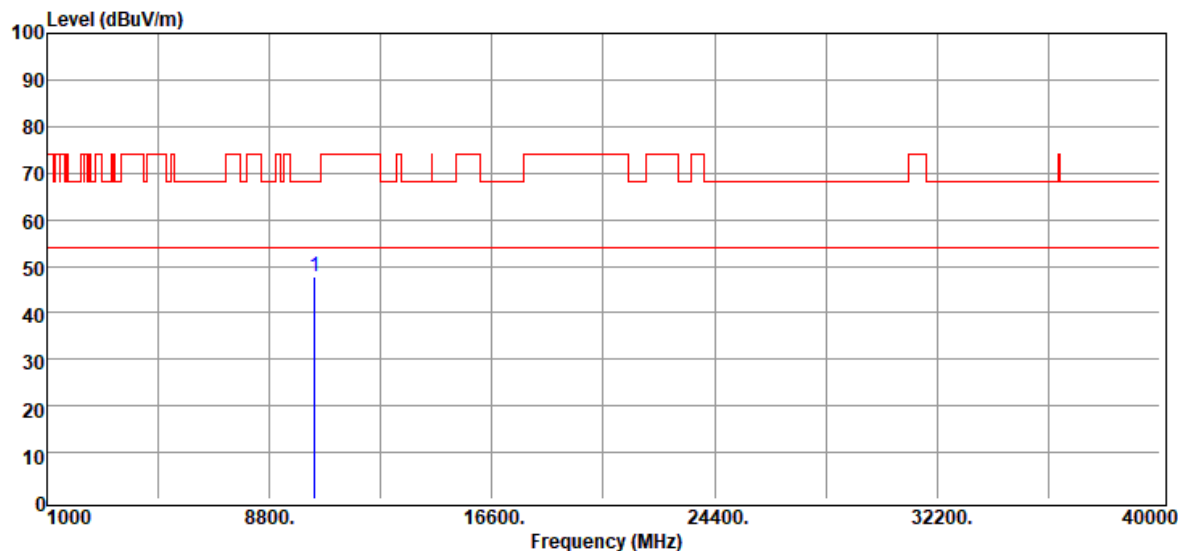
EUT Pol :E2 Plan

Test Date :2020-01-08

Temp./Humi. :21.2/61

Antenna Pol. :VERTICAL

Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10380.00	Peak	37.15	10.57	47.72	68.20	-20.48

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Report Number :E2/2019/B0014

Operation Mode :802.11ac40 / Band 1

Test Channel :5190 MHz

Test Mode :TX CH LOW

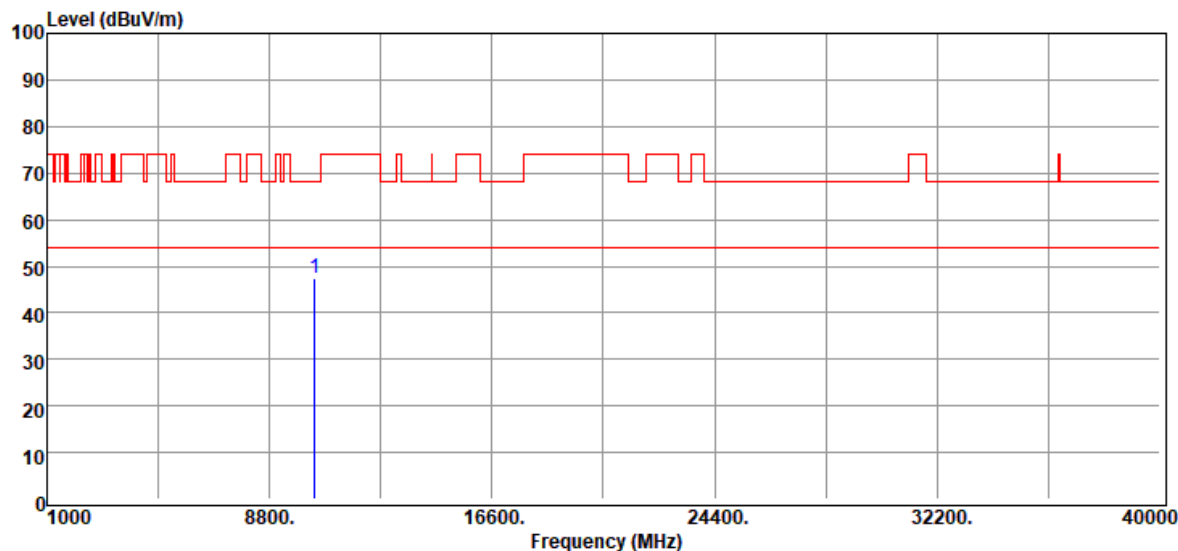
EUT Pol :E2 Plan

Test Date :2020-01-08

Temp./Humi. :21.2/61

Antenna Pol. :HORIZONTAL

Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10380.00	Peak	36.99	10.57	47.56	68.20	-20.64

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Report Number :E2/2019/B0014

Operation Mode :802.11ac40 / Band 1

Test Channel :5230 MHz

Test Mode :TX CH HIGH

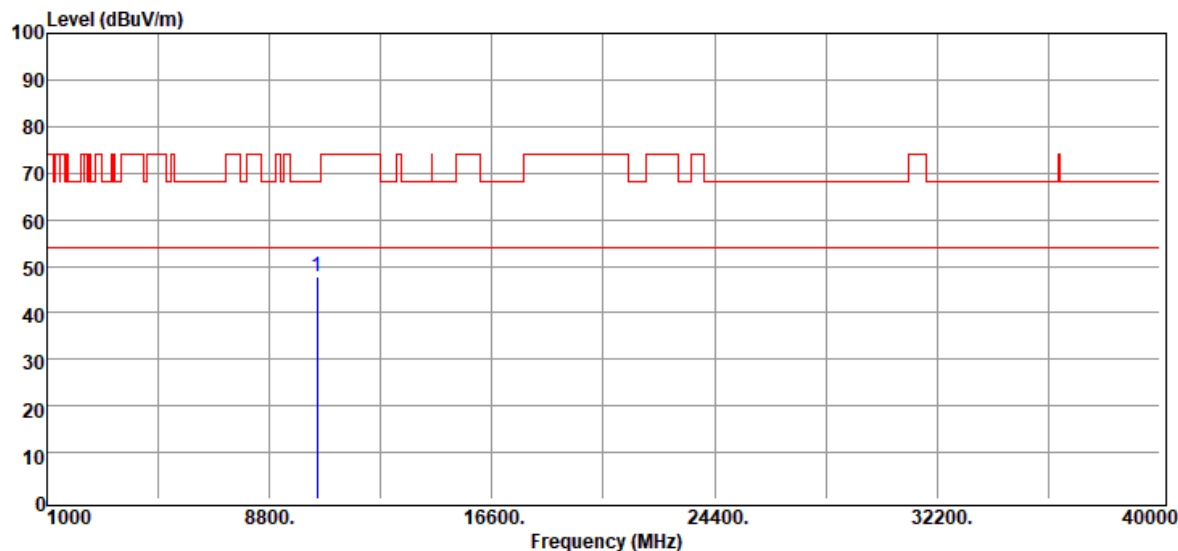
EUT Pol :E2 Plan

Test Date :2020-01-08

Temp./Humi. :21.2/61

Antenna Pol. :VERTICAL

Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10460.00	Peak	36.75	11.10	47.85	68.20	-20.35

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Report Number :E2/2019/B0014

Operation Mode :802.11ac40 / Band 1

Test Channel :5230 MHz

Test Mode :TX CH HIGH

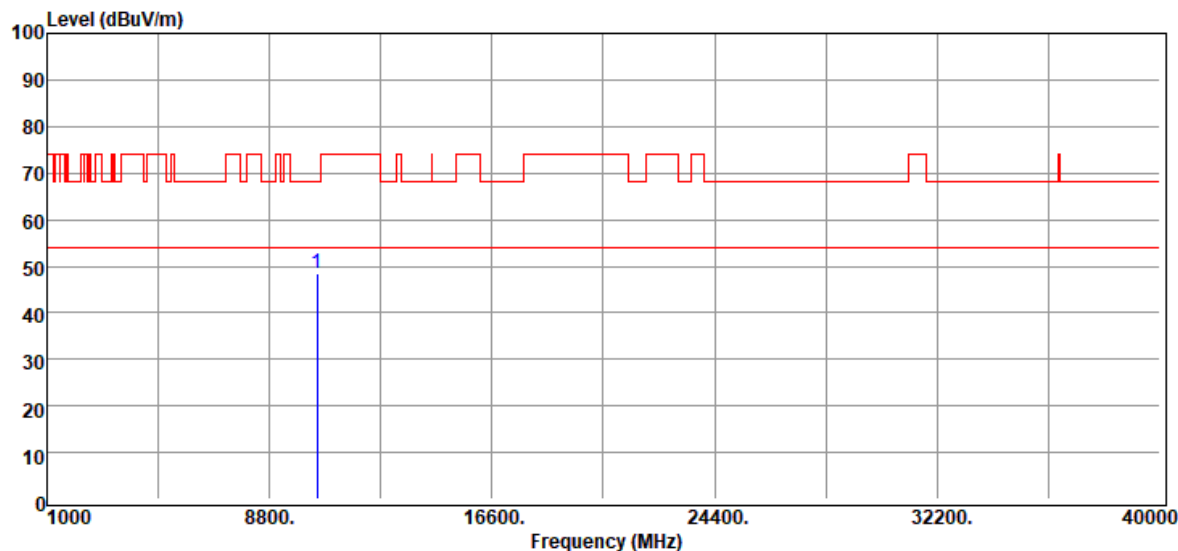
EUT Pol :E2 Plan

Test Date :2020-01-08

Temp./Humi. :21.2/61

Antenna Pol. :HORIZONTAL

Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10460.00	Peak	37.32	11.10	48.42	68.20	-19.78

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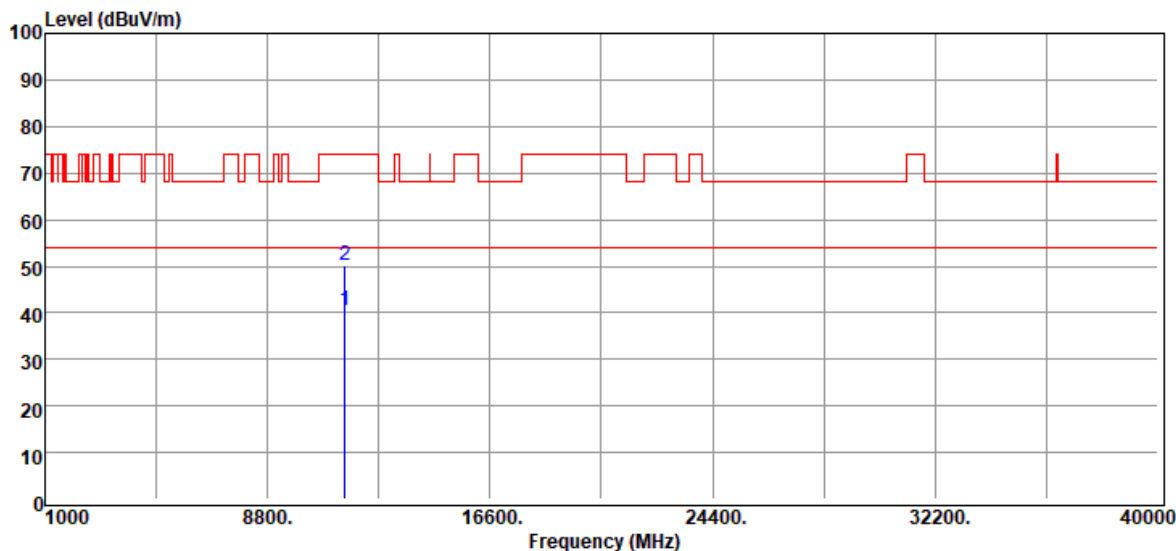
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Report Number :E2/2019/B0014  
 Operation Mode :802.11ac40 / Band 4  
 Test Channel :5755 MHz  
 Test Mode :TX CH LOW  
 EUT Pol :E2 Plan

Test Date :2020-01-08  
 Temp./Humi. :21.2/61  
 Antenna Pol. :VERTICAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11510.00	Average	27.62	12.80	40.42	54.00	-13.58
11510.00	Peak	37.42	12.80	50.22	74.00	-23.78

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Report Number :E2/2019/B0014

Operation Mode :802.11ac40 / Band 4

Test Channel :5755 MHz

Test Mode :TX CH LOW

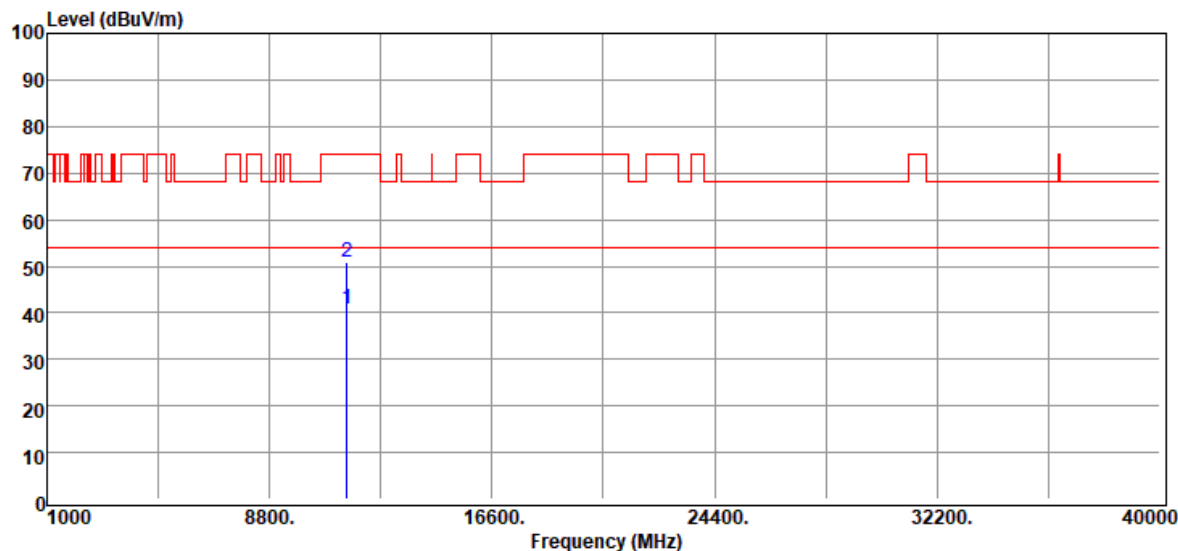
EUT Pol :E2 Plan

Test Date :2020-01-08

Temp./Humi. :21.2/61

Antenna Pol. :HORIZONTAL

Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11510.00	Average	28.00	12.80	40.80	54.00	-13.20
11510.00	Peak	38.05	12.80	50.85	74.00	-23.15

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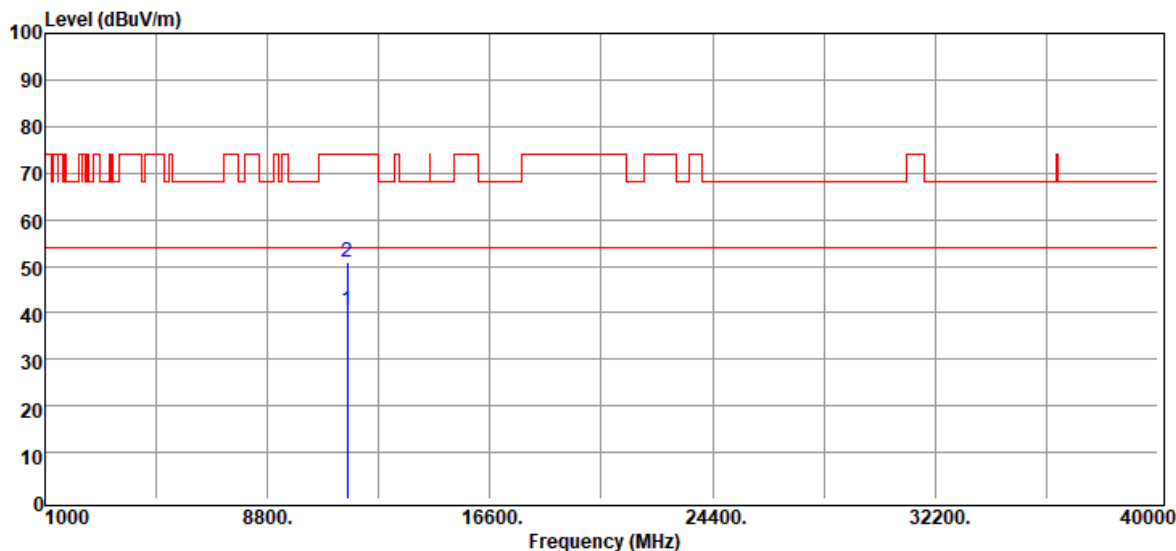
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Report Number	:E2/2019/B0014	Test Date	:2020-01-08
Operation Mode	:802.11ac40 / Band 4	Temp./Humi.	:21.2/61
Test Channel	:5795 MHz	Antenna Pol.	:VERTICAL
Test Mode	:TX CH HIGH	Engineer	:Kailin
EUT Pol	:E2 Plan		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11590.00	Average	28.26	12.24	40.50	54.00	-13.50
11590.00	Peak	38.56	12.24	50.80	74.00	-23.20

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Report Number :E2/2019/B0014

Operation Mode :802.11ac40 / Band 4

Test Channel :5795 MHz

Test Mode :TX CH HIGH

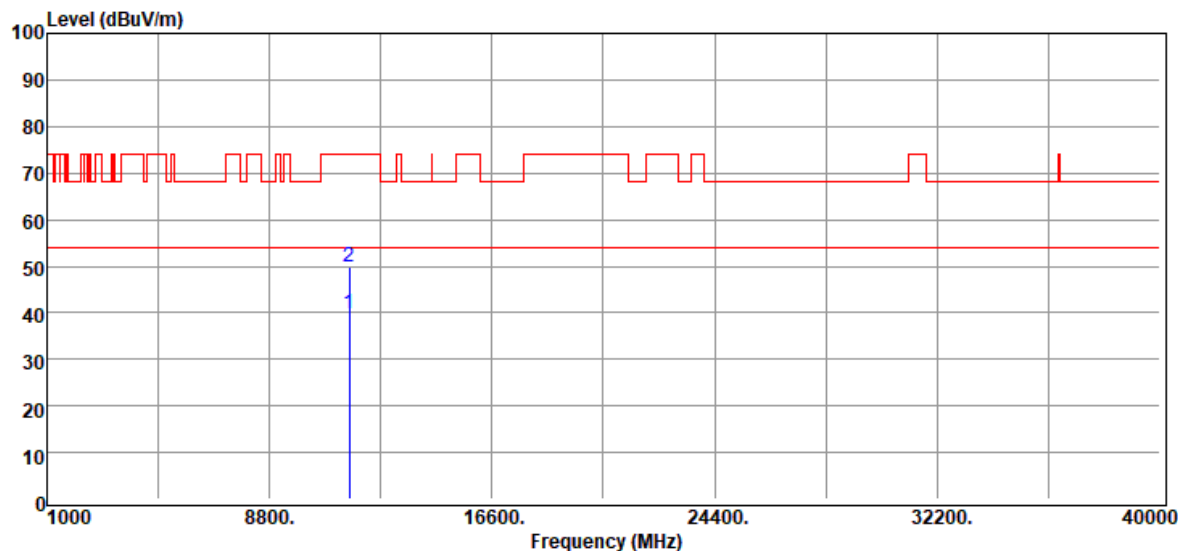
EUT Pol :E2 Plan

Test Date :2020-01-08

Temp./Humi. :21.2/61

Antenna Pol. :HORIZONTAL

Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11590.00	Average	27.65	12.24	39.89	54.00	-14.11
11590.00	Peak	37.74	12.24	49.98	74.00	-24.02

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Report Number :E2/2019/B0014

Operation Mode :802.11ac80 / Band 1

Test Channel :5210 MHz

Test Mode :TX CH LOW

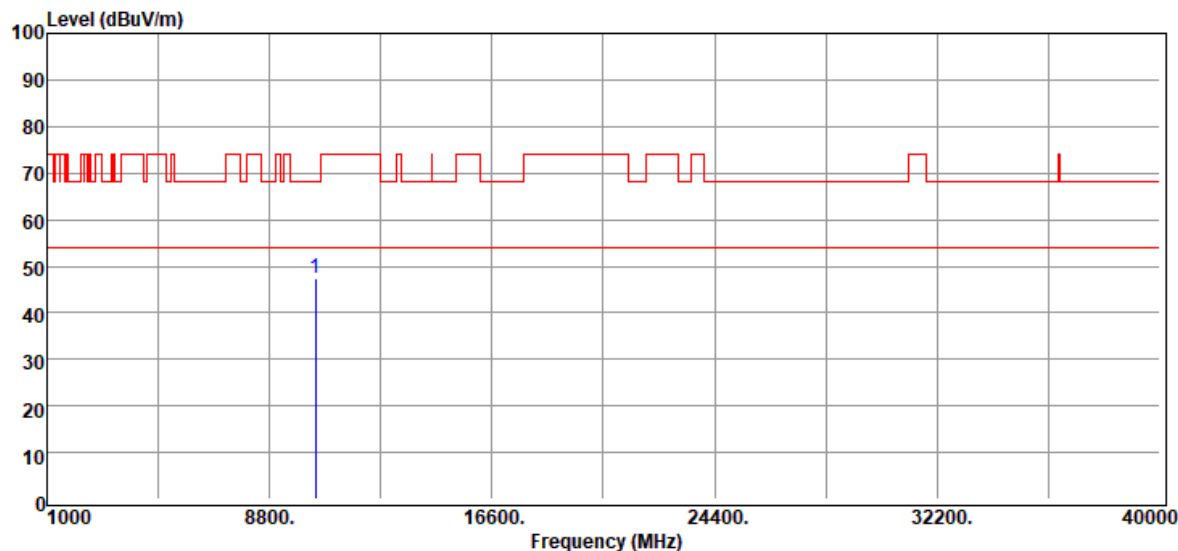
EUT Pol :E2 Plan

Test Date :2020-01-08

Temp./Humi. :21.2/61

Antenna Pol. :VERTICAL

Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10420.00	Peak	36.47	10.92	47.39	68.20	-20.81

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Report Number :E2/2019/B0014

Operation Mode :802.11ac80 / Band 1

Test Channel :5210 MHz

Test Mode :TX CH LOW

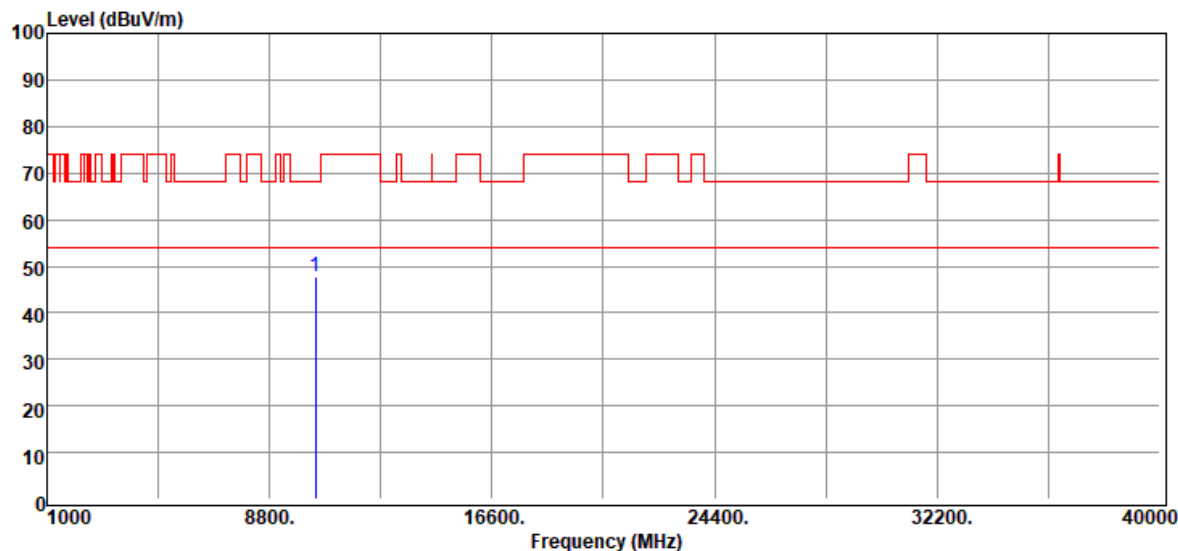
EUT Pol :E2 Plan

Test Date :2020-01-08

Temp./Humi. :21.2/61

Antenna Pol. :HORIZONTAL

Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10420.00	Peak	36.68	10.92	47.60	68.20	-20.60

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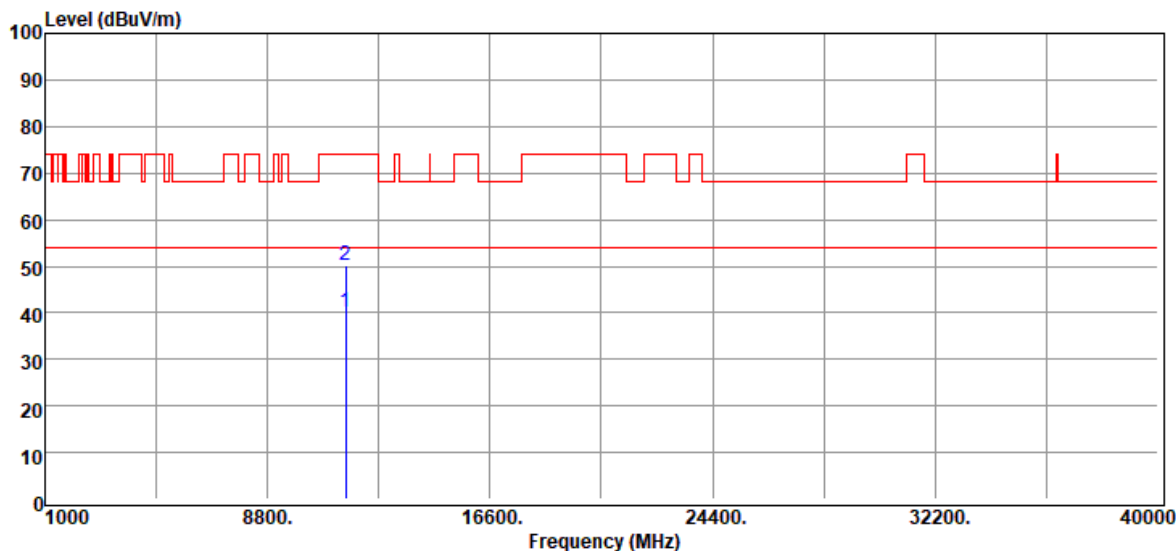
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Report Number :E2/2019/B0014  
 Operation Mode :802.11ac80 / Band 4  
 Test Channel :5775 MHz  
 Test Mode :TX CH LOW  
 EUT Pol :E2 Plan

Test Date :2020-01-08  
 Temp./Humi. :21.2/61  
 Antenna Pol. :VERTICAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11550.00	Average	27.69	12.51	40.20	54.00	-13.80
11550.00	Peak	37.65	12.51	50.16	74.00	-23.84

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Report Number :E2/2019/B0014

Operation Mode :802.11ac80 / Band 4

Test Channel :5775 MHz

Test Mode :TX CH LOW

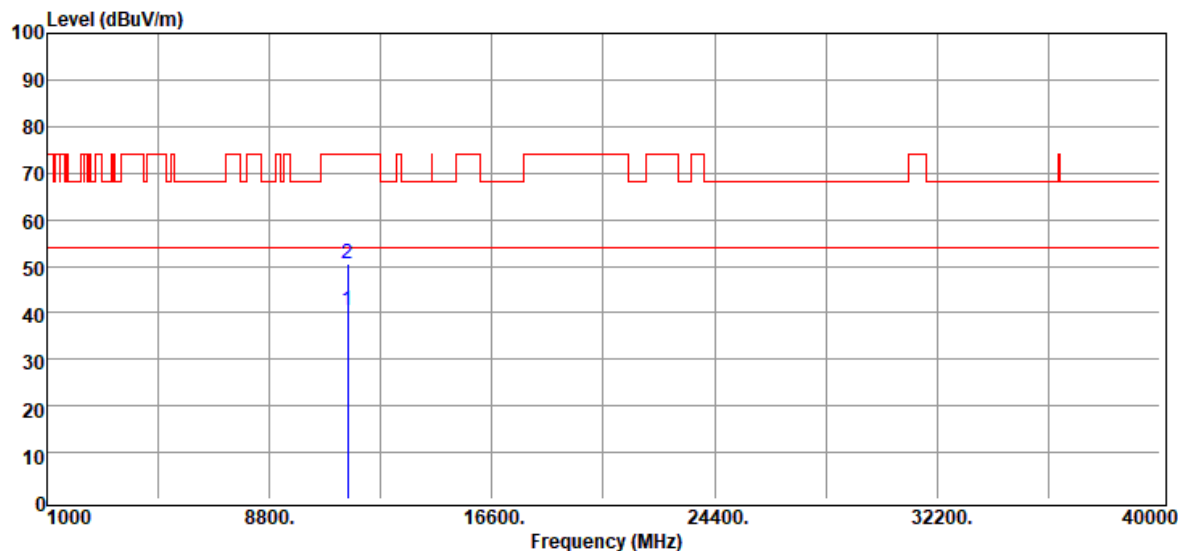
EUT Pol :E2 Plan

Test Date :2020-01-08

Temp./Humi. :21.2/61

Antenna Pol. :HORIZONTAL

Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11550.00	Average	27.99	12.51	40.50	54.00	-13.50
11550.00	Peak	37.99	12.51	50.50	74.00	-23.50

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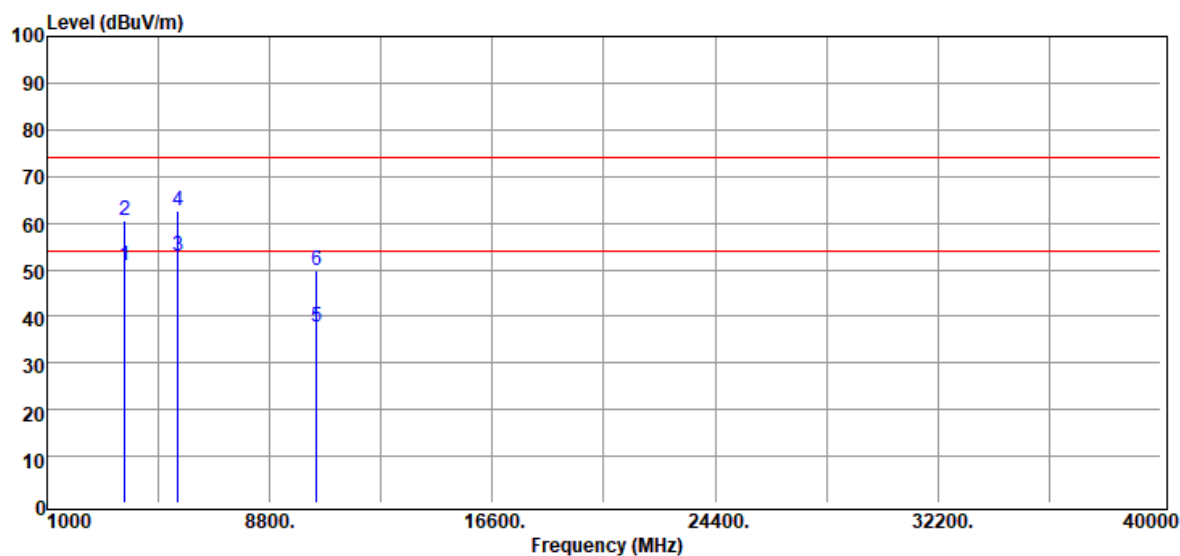
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## Simultaneous (5G WIFI + WWAN)

Report Number :E2/2019/B0014  
Operation Mode :802.11a Band 1+ LTE B2  
Test Frequency :5220 MHz + 1860 MHz  
Test Mode :TX CH MID + LOW  
EUT Pol :E2 Plan

Test Date :2020-03-04  
Temp./Humi. :20.7/68  
Antenna Pol. :VERTICAL  
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
3720.00	Average	18.27	32.56	50.83	54.00	-3.17
3720.00	Peak	28.15	32.56	60.71	74.00	-13.29
5580.00	Average	17.01	36.00	53.01	54.00	-0.99
5580.00	Peak	26.55	36.00	62.55	74.00	-11.45
10440.00	Average	26.82	11.00	37.82	54.00	-16.18
10440.00	Peak	38.76	11.00	49.76	74.00	-24.24

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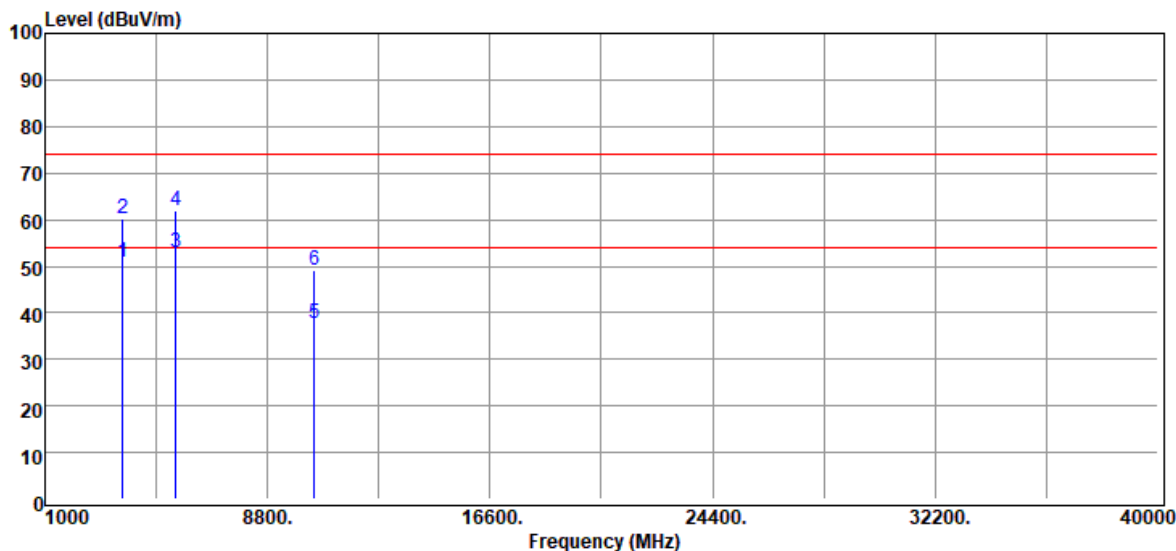
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Report Number :E2/2019/B0014  
 Operation Mode :802.11a Band 1+ LTE B2  
 Test Frequency :5220 MHz + 1860 MHz  
 Test Mode :TX CH MID + LOW  
 EUT Pol :E2 Plan

Test Date :2020-03-04  
 Temp./Humi. :20.7/68  
 Antenna Pol. :HORIZONTAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
3720.00	Average	18.27	32.56	50.83	54.00	-3.17
3720.00	Peak	27.61	32.56	60.17	74.00	-13.83
5580.00	Average	17.04	36.00	53.04	54.00	-0.96
5580.00	Peak	26.05	36.00	62.05	74.00	-11.95
10440.00	Average	26.75	11.00	37.75	54.00	-16.25
10440.00	Peak	38.12	11.00	49.12	74.00	-24.88

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### 11.9.2 Band edge falling to restricted band

#### CDD Mode

Report Number :E2/2019/B0014

Test Date :2019-12-13

Operation Mode :802.11a / Band 1

Temp./Humi. :22.4/56

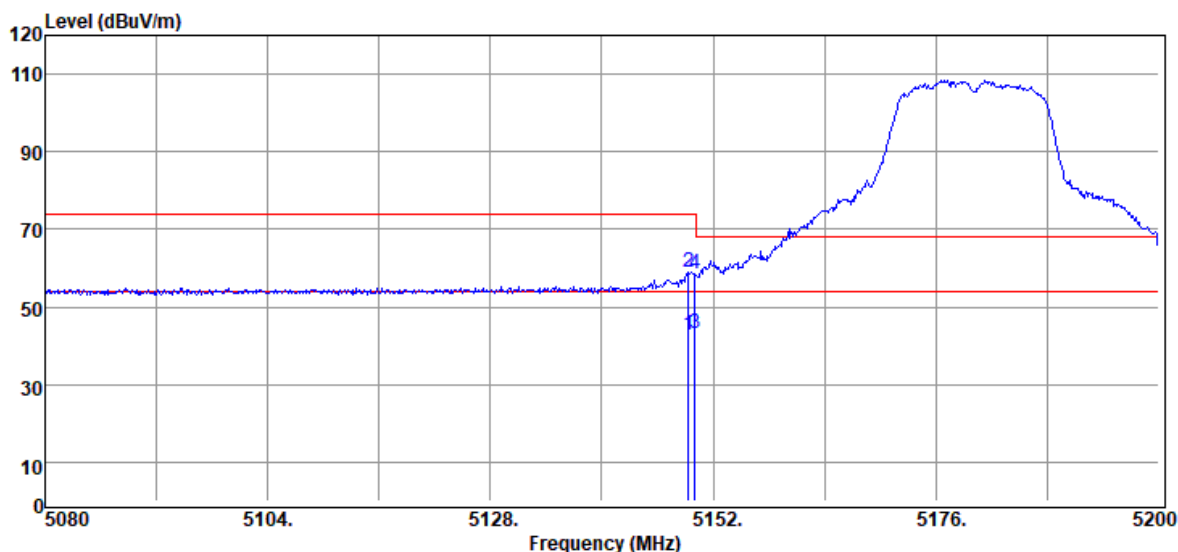
Test Channel :5180 MHz

Antenna Pol. :VERTICAL

Test Mode :BE CH LOW

Engineer :Kailin

EUT Pol :E2 Plan



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5149.36	Average	42.32	0.44	42.76	54.00	-11.24
5149.36	Peak	58.56	0.44	59.00	74.00	-15.00
5150.00	Average	42.88	0.45	43.33	54.00	-10.67
5150.00	Peak	58.12	0.45	58.57	74.00	-15.43

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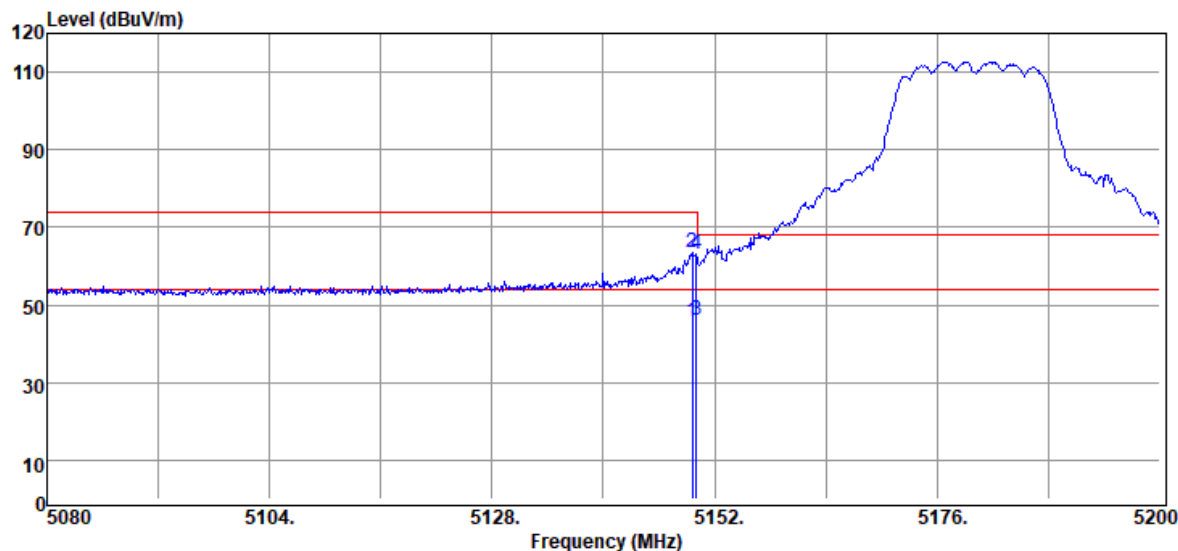
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Report Number :E2/2019/B0014  
 Operation Mode :802.11a / Band 1  
 Test Channel :5180 MHz  
 Test Mode :BE CH LOW  
 EUT Pol :E2 Plan

Test Date :2019-12-13  
 Temp./Humi. :22.4/56  
 Antenna Pol. :HORIZONTAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5149.60	Average	45.23	0.44	45.67	54.00	-8.33
5149.60	Peak	63.26	0.44	63.70	74.00	-10.30
5150.00	Average	45.59	0.45	46.04	54.00	-7.96
5150.00	Peak	62.55	0.45	63.00	74.00	-11.00

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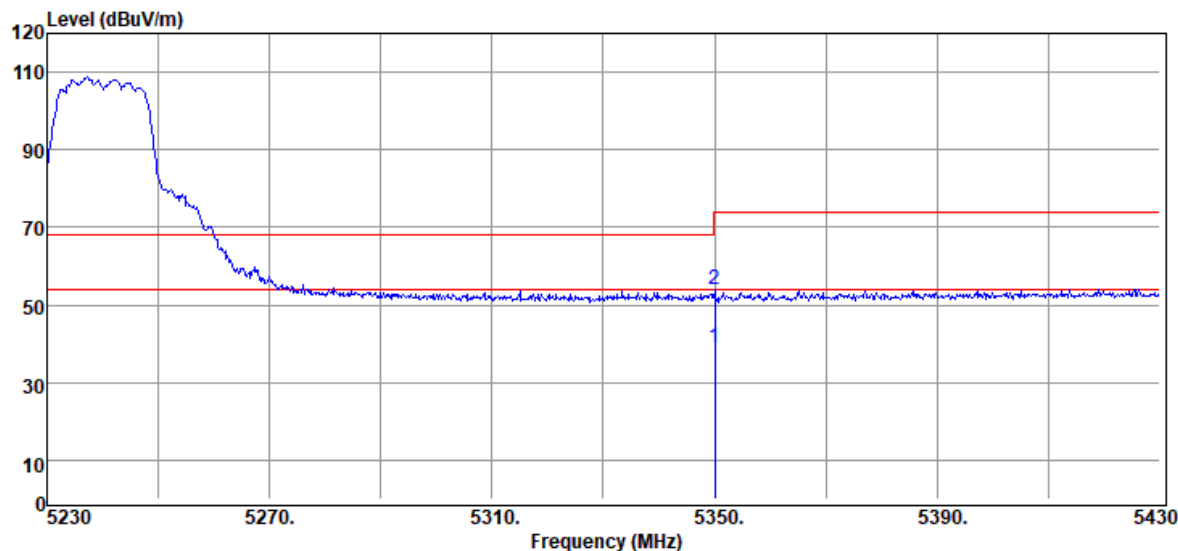
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Report Number :E2/2019/B0014  
 Operation Mode :802.11a / Band 1  
 Test Channel :5240 MHz  
 Test Mode :BE CH HIGH  
 EUT Pol :E2 Plan

Test Date :2019-12-13  
 Temp./Humi. :22.4/56  
 Antenna Pol. :VERTICAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	Average	38.79	0.17	38.96	54.00	-15.04
5350.00	Peak	53.95	0.17	54.12	74.00	-19.88

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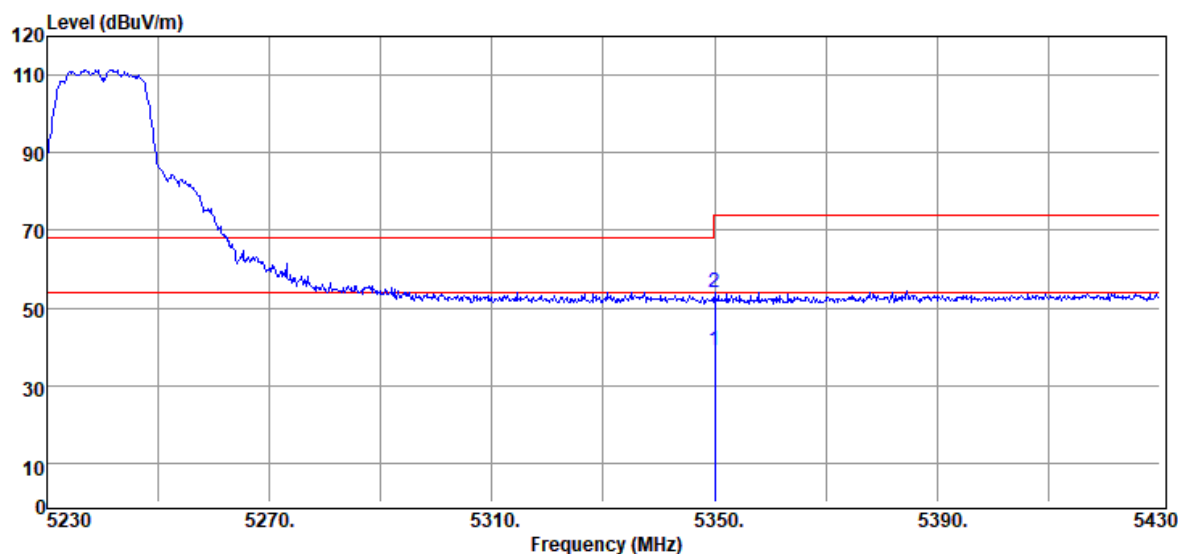
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Report Number :E2/2019/B0014  
 Operation Mode :802.11a / Band 1  
 Test Channel :5240 MHz  
 Test Mode :BE CH HIGH  
 EUT Pol :E2 Plan

Test Date :2019-12-13  
 Temp./Humi. :22.4/56  
 Antenna Pol. :HORIZONTAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	Average	38.95	0.17	39.12	54.00	-14.88
5350.00	Peak	53.85	0.17	54.02	74.00	-19.98

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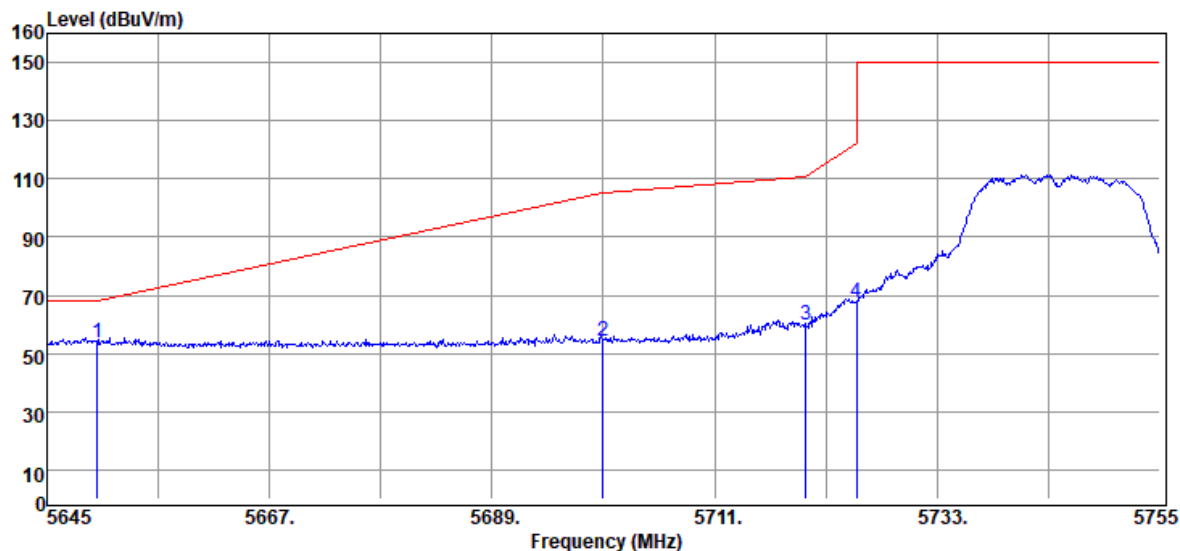
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Report Number :E2/2019/B0014  
 Operation Mode :802.11a / Band 4  
 Test Channel :5745 MHz  
 Test Mode :BE CH LOW  
 EUT Pol :E2 Plan

Test Date :2019-12-13  
 Temp./Humi. :22.4/56  
 Antenna Pol. :VERTICAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	53.03	0.69	53.72	68.20	-14.48
5700.00	Peak	53.47	1.00	54.47	105.20	-50.73
5720.00	Peak	58.57	0.99	59.56	110.80	-51.24
5725.00	Peak	66.50	0.98	67.48	122.20	-54.72

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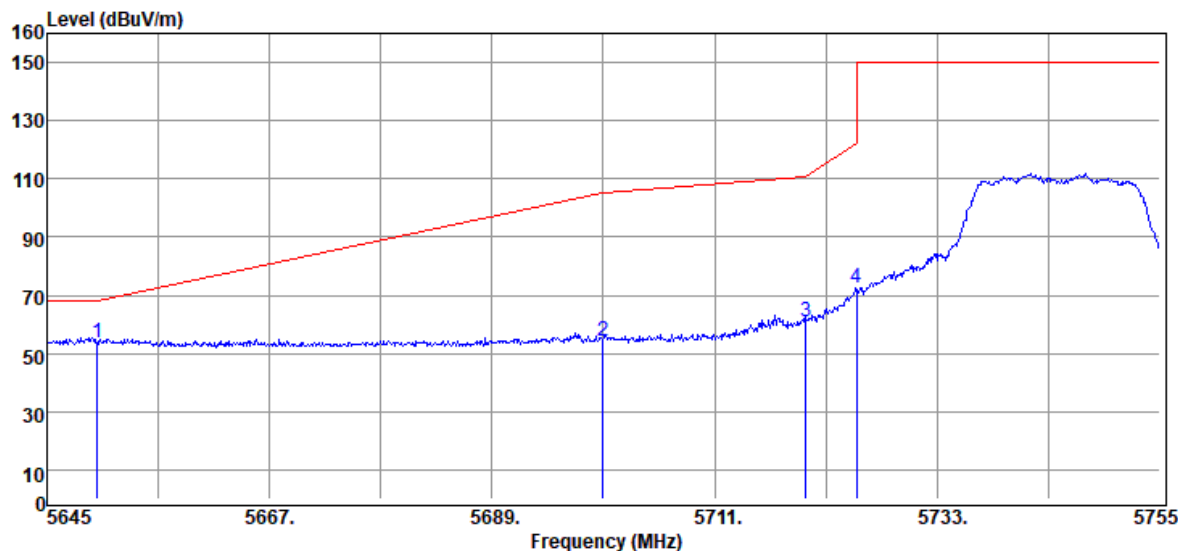
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Report Number :E2/2019/B0014  
 Operation Mode :802.11a / Band 4  
 Test Channel :5745 MHz  
 Test Mode :BE CH LOW  
 EUT Pol :E2 Plan

Test Date :2019-12-13  
 Temp./Humi. :22.4/56  
 Antenna Pol. :HORIZONTAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	52.96	0.69	53.65	68.20	-14.55
5700.00	Peak	53.42	1.00	54.42	105.20	-50.78
5720.00	Peak	60.04	0.99	61.03	110.80	-49.77
5725.00	Peak	71.69	0.98	72.67	122.20	-49.53

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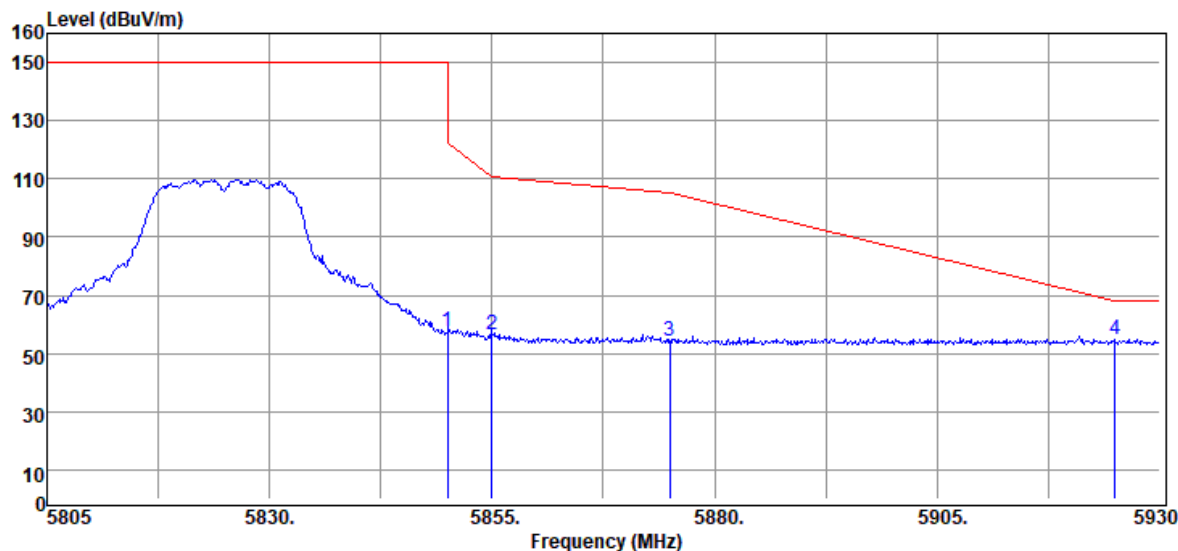
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Report Number :E2/2019/B0014  
 Operation Mode :802.11a / Band 4  
 Test Channel :5825 MHz  
 Test Mode :BE CH HIGH  
 EUT Pol :E2 Plan

Test Date :2019-12-13  
 Temp./Humi. :22.4/56  
 Antenna Pol. :VERTICAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	56.24	1.13	57.37	122.20	-64.83
5855.00	Peak	55.15	1.16	56.31	110.80	-54.49
5875.00	Peak	53.00	1.31	54.31	105.20	-50.89
5925.00	Peak	53.63	1.37	55.00	68.20	-13.20

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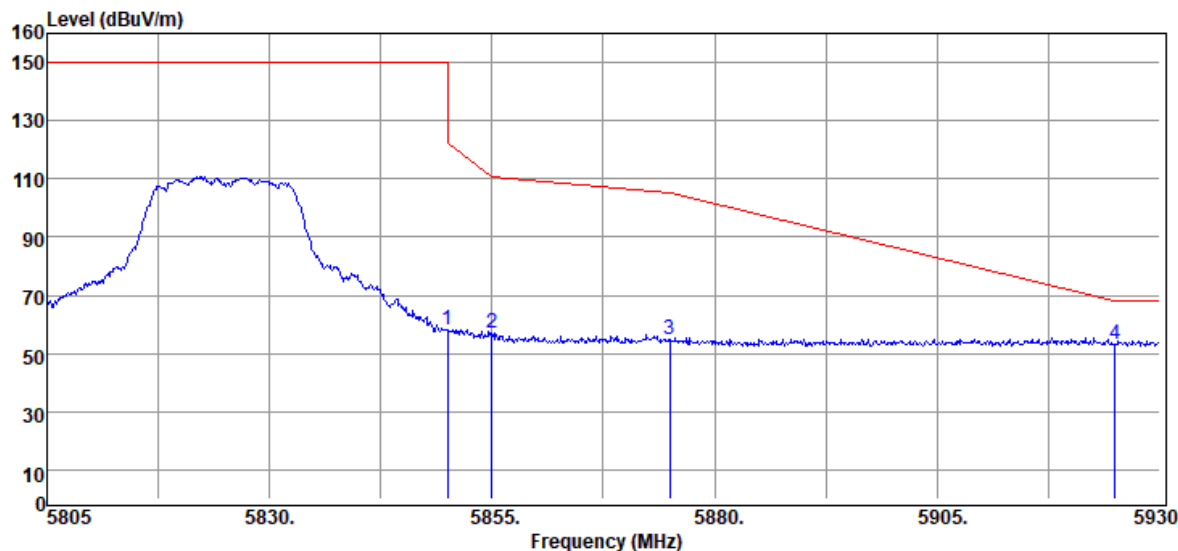
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Report Number :E2/2019/B0014  
 Operation Mode :802.11a / Band 4  
 Test Channel :5825 MHz  
 Test Mode :BE CH HIGH  
 EUT Pol :E2 Plan

Test Date :2019-12-13  
 Temp./Humi. :22.4/56  
 Antenna Pol. :HORIZONTAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	57.06	1.13	58.19	122.20	-64.01
5855.00	Peak	56.14	1.16	57.30	110.80	-53.50
5875.00	Peak	53.55	1.31	54.86	105.20	-50.34
5925.00	Peak	51.97	1.37	53.34	68.20	-14.86

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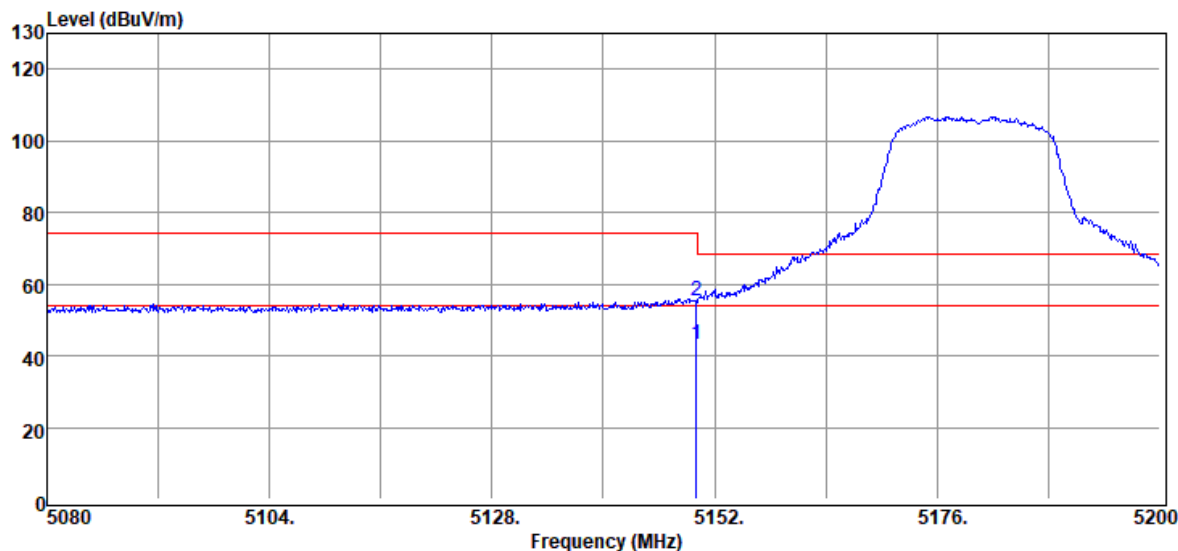
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Report Number :E2/2019/B0014  
 Operation Mode :802.11n20 / Band 1  
 Test Channel :5180 MHz  
 Test Mode :BE CH LOW  
 EUT Pol :E2 Plan

Test Date :2019-12-13  
 Temp./Humi. :22.4/56  
 Antenna Pol. :VERTICAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5150.00	Average	42.66	0.45	43.11	54.00	-10.89
5150.00	Peak	54.97	0.45	55.42	74.00	-18.58

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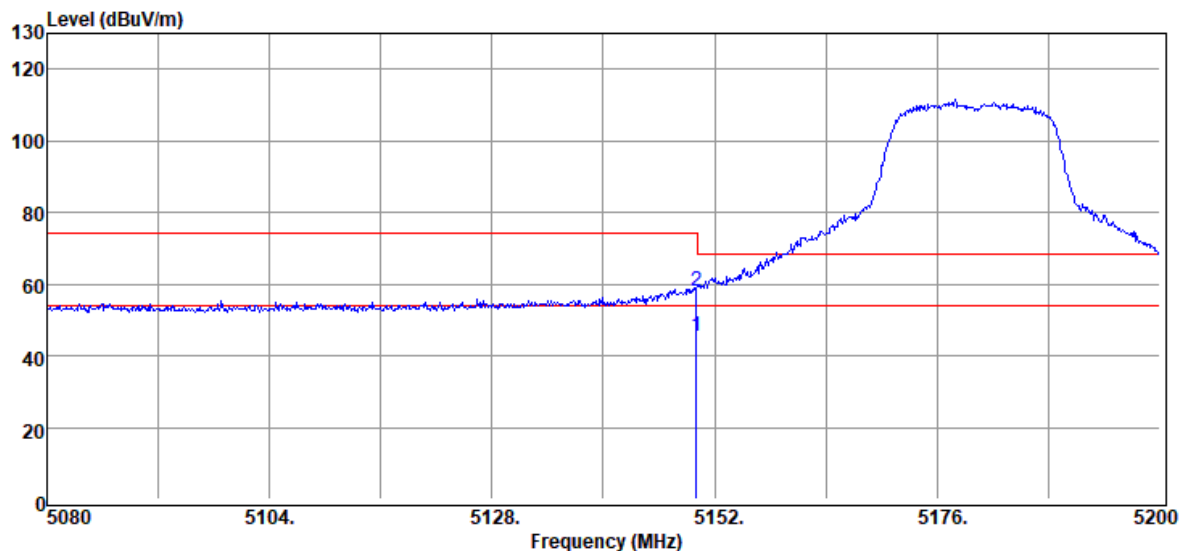
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Report Number :E2/2019/B0014  
 Operation Mode :802.11n20 / Band 1  
 Test Channel :5180 MHz  
 Test Mode :BE CH LOW  
 EUT Pol :E2 Plan

Test Date :2019-12-13  
 Temp./Humi. :22.4/56  
 Antenna Pol. :HORIZONTAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5150.00	Average	44.98	0.45	45.43	54.00	-8.57
5150.00	Peak	57.65	0.45	58.10	74.00	-15.90

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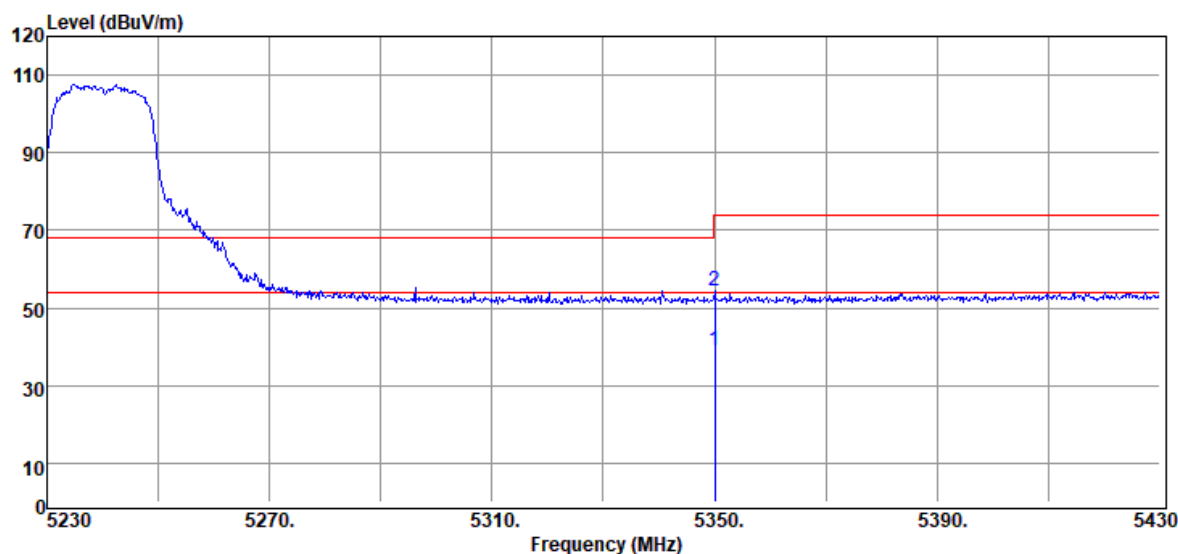
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Report Number :E2/2019/B0014  
 Operation Mode :802.11n20 / Band 1  
 Test Channel :5240 MHz  
 Test Mode :BE CH HIGH  
 EUT Pol :E2 Plan

Test Date :2019-12-13  
 Temp./Humi. :22.4/56  
 Antenna Pol. :VERTICAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	Average	38.88	0.17	39.05	54.00	-14.95
5350.00	Peak	54.08	0.17	54.25	74.00	-19.75

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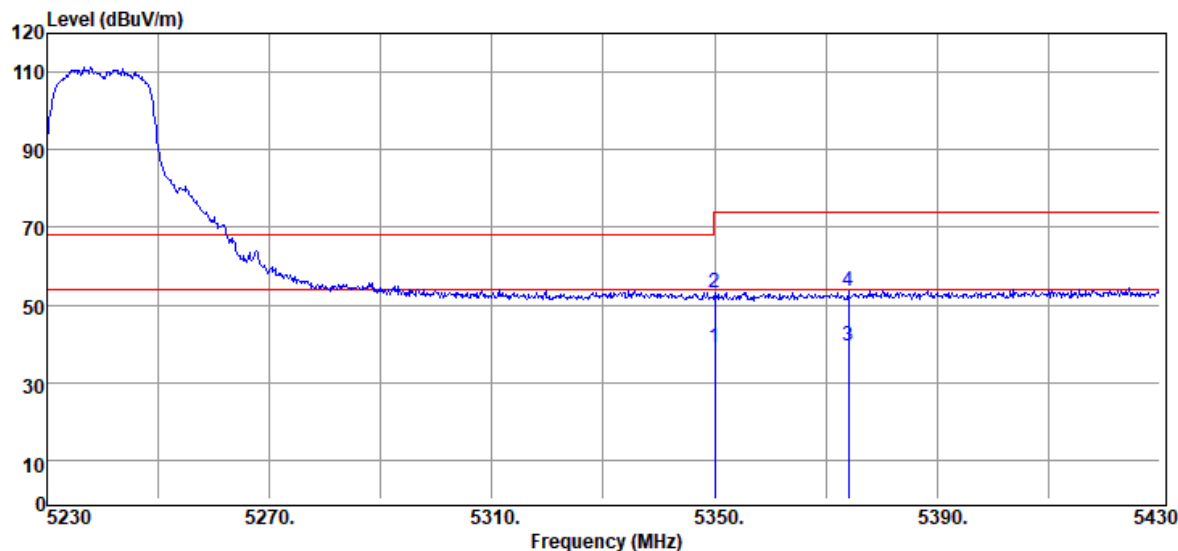
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Report Number :E2/2019/B0014  
 Operation Mode :802.11n20 / Band 1  
 Test Channel :5240 MHz  
 Test Mode :BE CH HIGH  
 EUT Pol :E2 Plan

Test Date :2019-12-13  
 Temp./Humi. :22.4/56  
 Antenna Pol. :HORIZONTAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	Average	38.95	0.17	39.12	54.00	-14.88
5350.00	Peak	52.88	0.17	53.05	74.00	-20.95
5374.00	Average	38.90	0.45	39.35	54.00	-14.65
5374.00	Peak	53.32	0.45	53.77	74.00	-20.23

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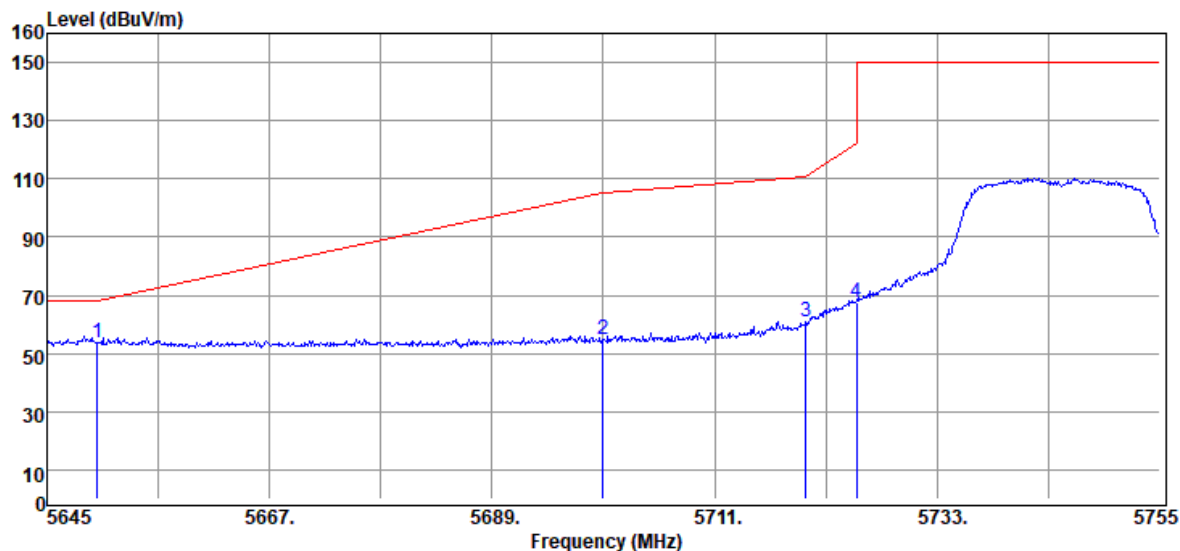
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Report Number :E2/2019/B0014  
 Operation Mode :802.11n20 / Band 4  
 Test Channel :5745 MHz  
 Test Mode :BE CH LOW  
 EUT Pol :E2 Plan

Test Date :2019-12-13  
 Temp./Humi. :22.4/56  
 Antenna Pol. :VERTICAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	53.16	0.69	53.85	68.20	-14.35
5700.00	Peak	53.55	1.00	54.55	105.20	-50.65
5720.00	Peak	59.75	0.99	60.74	110.80	-50.06
5725.00	Peak	66.79	0.98	67.77	122.20	-54.43

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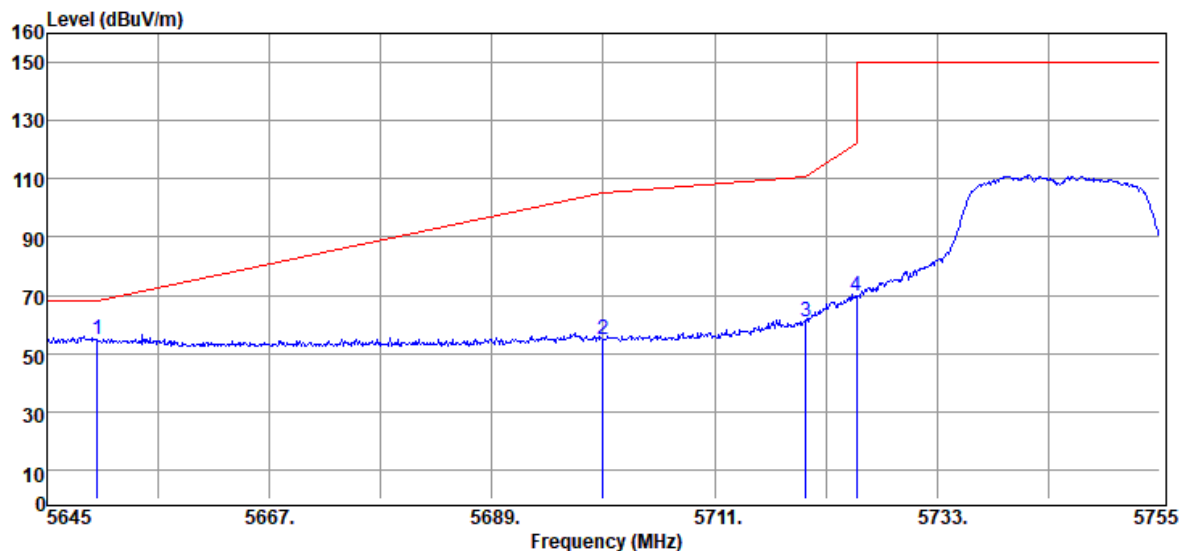
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Report Number :E2/2019/B0014  
 Operation Mode :802.11n20 / Band 4  
 Test Channel :5745 MHz  
 Test Mode :BE CH LOW  
 EUT Pol :E2 Plan

Test Date :2019-12-13  
 Temp./Humi. :22.4/56  
 Antenna Pol. :HORIZONTAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	54.31	0.69	55.00	68.20	-13.20
5700.00	Peak	53.58	1.00	54.58	105.20	-50.62
5720.00	Peak	59.96	0.99	60.95	110.80	-49.85
5725.00	Peak	68.66	0.98	69.64	122.20	-52.56

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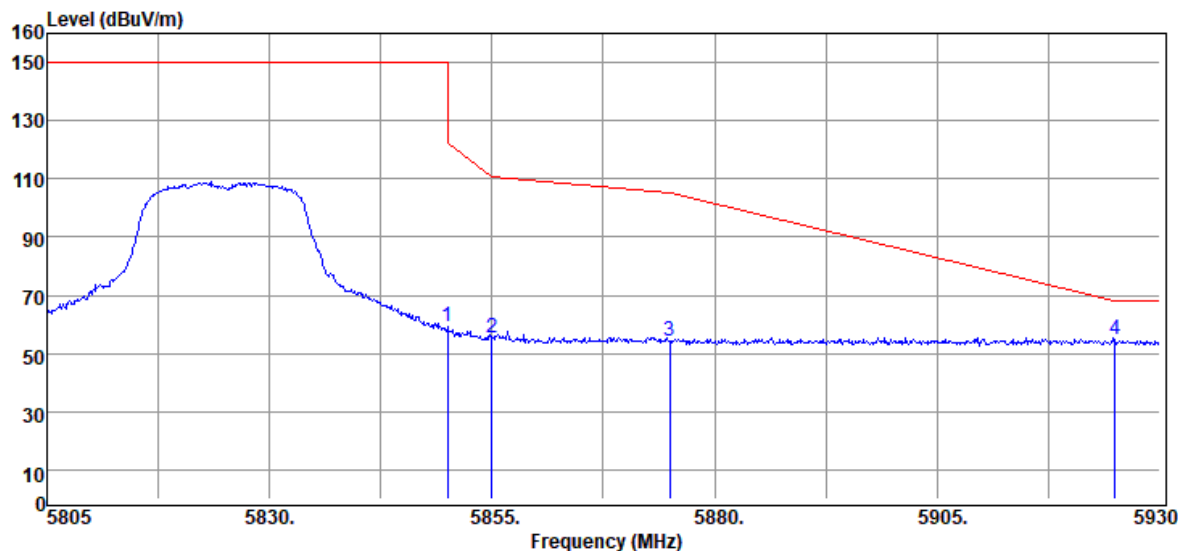
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Report Number :E2/2019/B0014  
 Operation Mode :802.11n20 / Band 4  
 Test Channel :5825 MHz  
 Test Mode :BE CH HIGH  
 EUT Pol :E2 Plan

Test Date :2019-12-13  
 Temp./Humi. :22.4/56  
 Antenna Pol. :VERTICAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	58.28	1.13	59.41	122.20	-62.79
5855.00	Peak	53.99	1.16	55.15	110.80	-55.65
5875.00	Peak	53.20	1.31	54.51	105.20	-50.69
5925.00	Peak	53.31	1.37	54.68	68.20	-13.52

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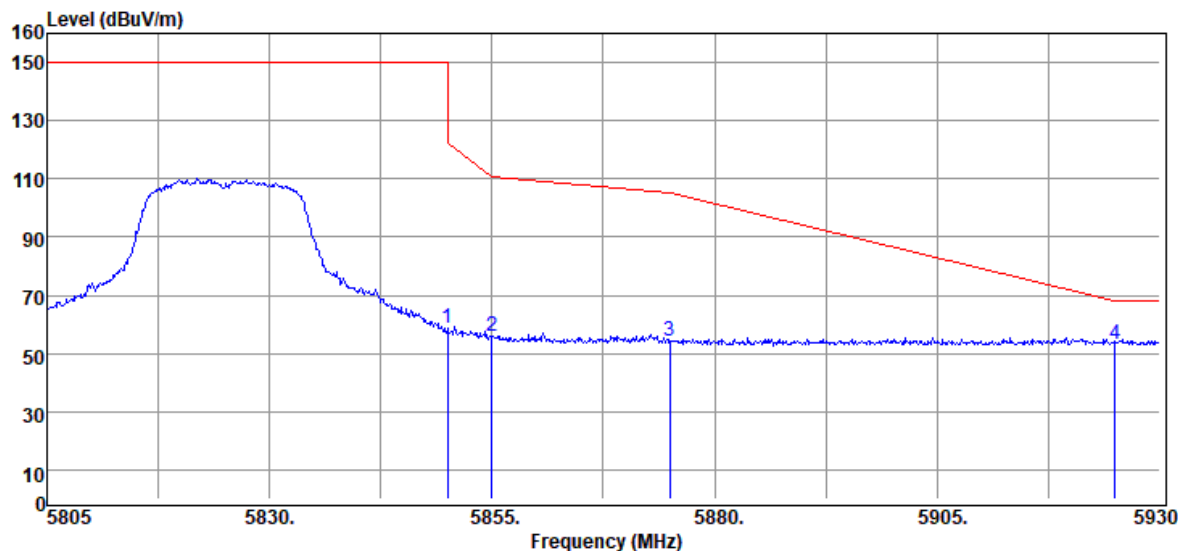
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Report Number :E2/2019/B0014  
 Operation Mode :802.11n20 / Band 4  
 Test Channel :5825 MHz  
 Test Mode :BE CH HIGH  
 EUT Pol :E2 Plan

Test Date :2019-12-13  
 Temp./Humi. :22.4/56  
 Antenna Pol. :HORIZONTAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	57.45	1.13	58.58	122.20	-63.62
5855.00	Peak	54.86	1.16	56.02	110.80	-54.78
5875.00	Peak	53.03	1.31	54.34	105.20	-50.86
5925.00	Peak	51.76	1.37	53.13	68.20	-15.07

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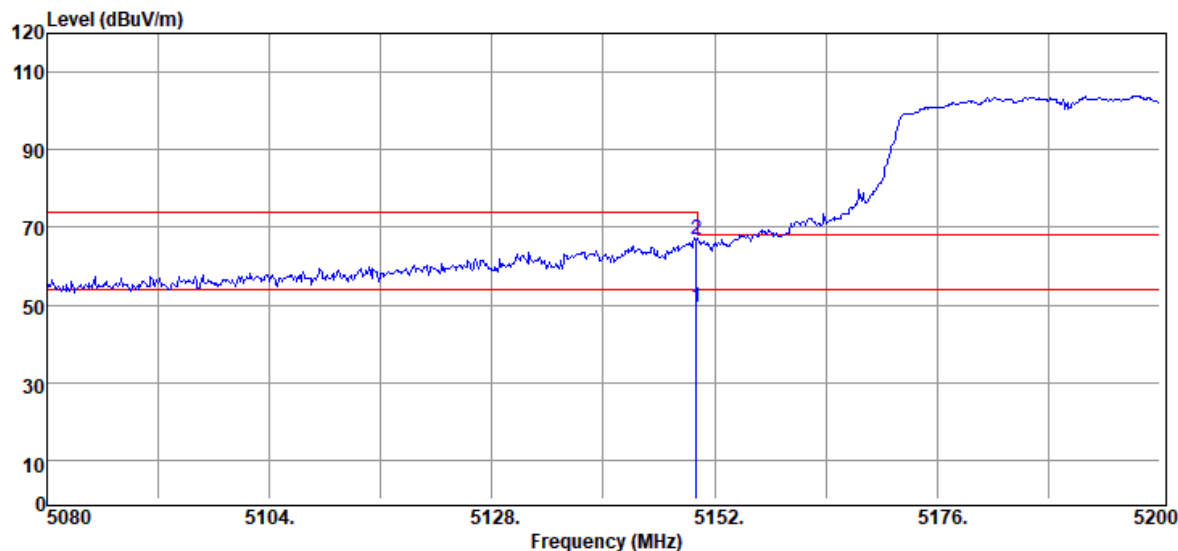
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Report Number :E2/2019/B0014  
 Operation Mode :802.11n40 / Band 1  
 Test Channel :5190 MHz  
 Test Mode :BE CH LOW  
 EUT Pol :E2 Plan

Test Date :2019-12-13  
 Temp./Humi. :22.4/56  
 Antenna Pol. :VERTICAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5150.00	Average	48.78	0.45	49.23	54.00	-4.77
5150.00	Peak	66.29	0.45	66.74	74.00	-7.26

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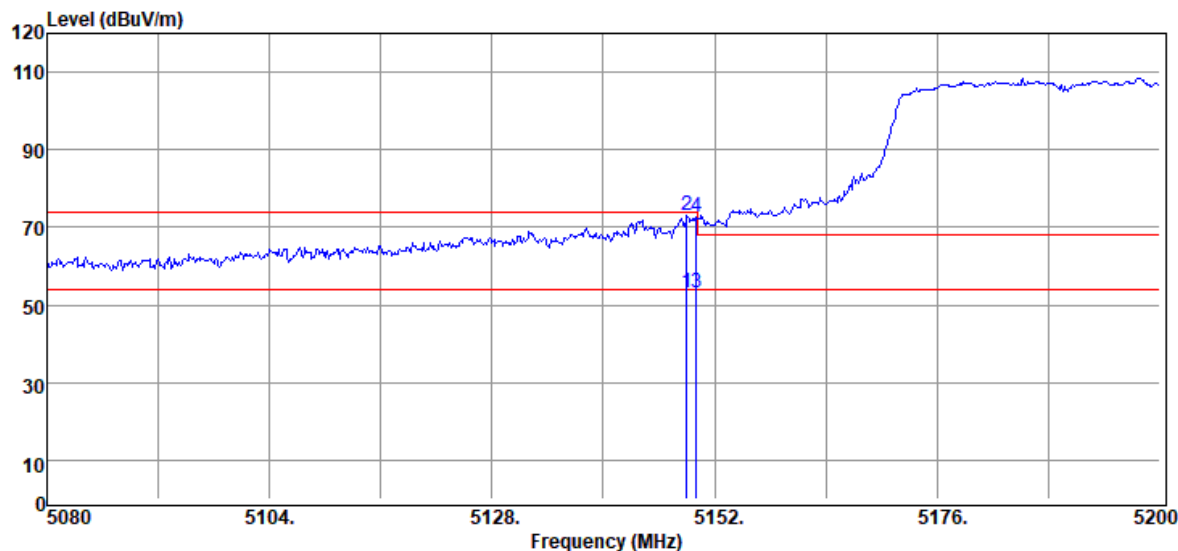
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Report Number :E2/2019/B0014  
 Operation Mode :802.11n40 / Band 1  
 Test Channel :5190 MHz  
 Test Mode :BE CH LOW  
 EUT Pol :E2 Plan

Test Date :2019-12-13  
 Temp./Humi. :22.4/56  
 Antenna Pol. :HORIZONTAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5149.00	Average	52.79	0.44	53.23	54.00	-0.77
5149.00	Peak	72.54	0.44	72.98	74.00	-1.02
5150.00	Average	52.89	0.45	53.34	54.00	-0.66
5150.00	Peak	72.04	0.45	72.49	74.00	-1.51

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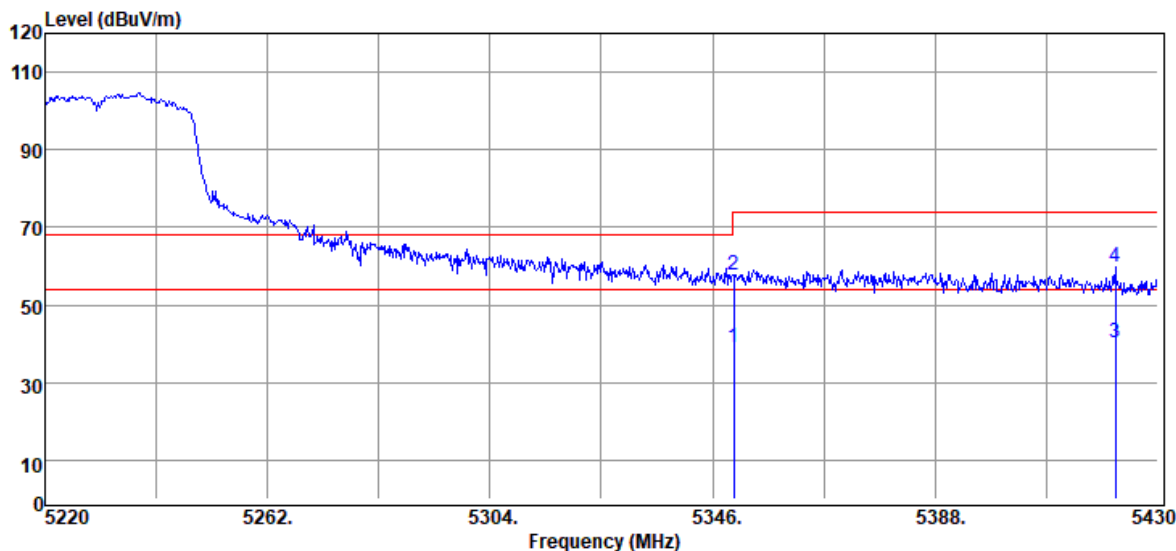
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Report Number :E2/2019/B0014  
 Operation Mode :802.11n40 / Band 1  
 Test Channel :5230 MHz  
 Test Mode :BE CH HIGH  
 EUT Pol :E2 Plan

Test Date :2019-12-13  
 Temp./Humi. :22.4/56  
 Antenna Pol. :VERTICAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	Average	39.02	0.17	39.19	54.00	-14.81
5350.00	Peak	57.47	0.17	57.64	74.00	-16.36
5422.02	Average	39.26	0.97	40.23	54.00	-13.77
5422.02	Peak	58.71	0.97	59.68	74.00	-14.32

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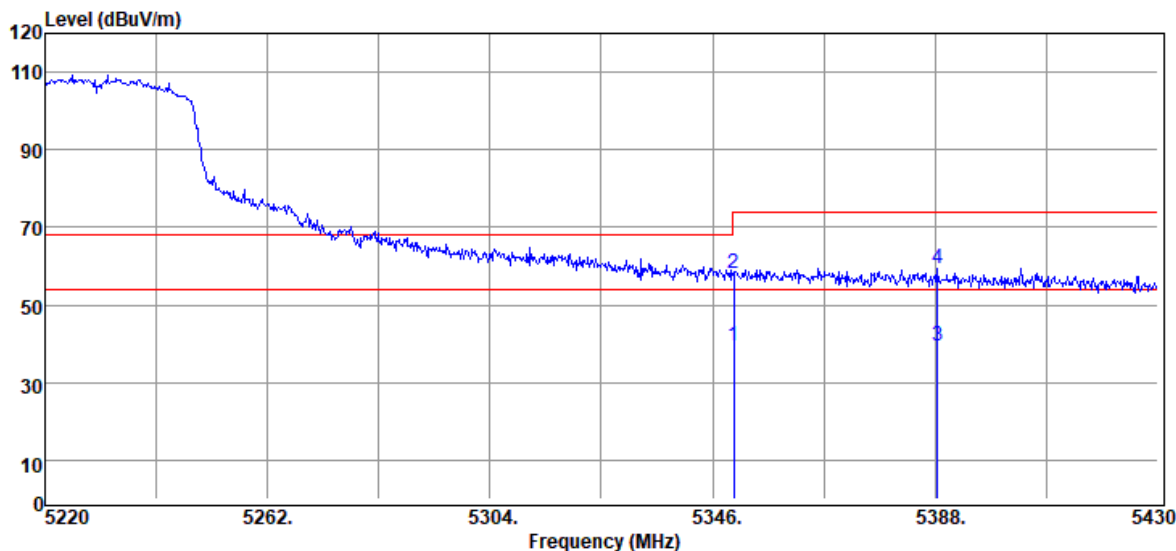
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Report Number :E2/2019/B0014  
 Operation Mode :802.11n40 / Band 1  
 Test Channel :5230 MHz  
 Test Mode :BE CH HIGH  
 EUT Pol :E2 Plan

Test Date :2019-12-13  
 Temp./Humi. :22.4/56  
 Antenna Pol. :HORIZONTAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	Average	39.11	0.17	39.28	54.00	-14.72
5350.00	Peak	57.90	0.17	58.07	74.00	-15.93
5388.42	Average	38.96	0.63	39.59	54.00	-14.41
5388.42	Peak	58.85	0.63	59.48	74.00	-14.52

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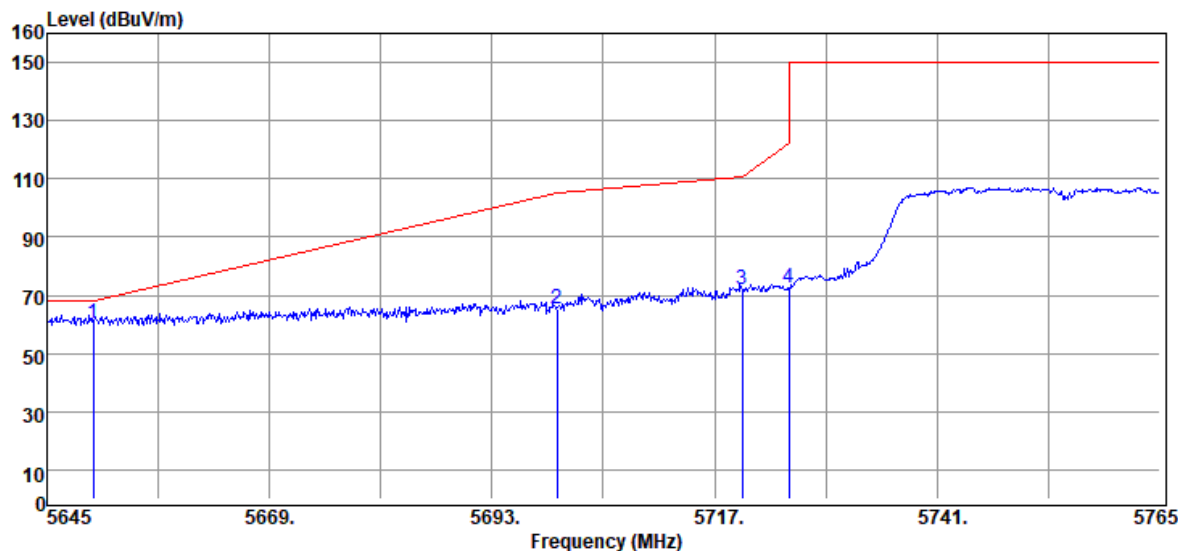
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Report Number :E2/2019/B0014  
 Operation Mode :802.11n40 / Band 4  
 Test Channel :5755 MHz  
 Test Mode :BE CH LOW  
 EUT Pol :E2 Plan

Test Date :2019-12-13  
 Temp./Humi. :22.4/56  
 Antenna Pol. :VERTICAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	59.47	0.69	60.16	68.20	-8.04
5700.00	Peak	64.59	1.00	65.59	105.20	-39.61
5720.00	Peak	70.93	0.99	71.92	110.80	-38.88
5725.00	Peak	71.44	0.98	72.42	122.20	-49.78

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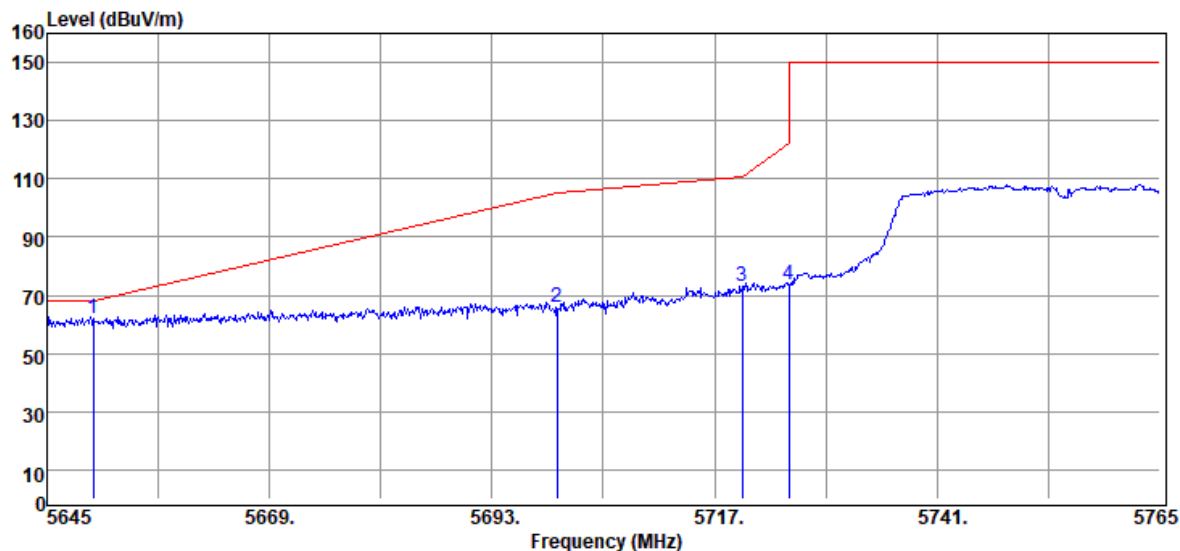
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Report Number :E2/2019/B0014  
 Operation Mode :802.11n40 / Band 4  
 Test Channel :5755 MHz  
 Test Mode :BE CH LOW  
 EUT Pol :E2 Plan

Test Date :2019-12-13  
 Temp./Humi. :22.4/56  
 Antenna Pol. :HORIZONTAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	61.33	0.69	62.02	68.20	-6.18
5700.00	Peak	64.61	1.00	65.61	105.20	-39.59
5720.00	Peak	71.97	0.99	72.96	110.80	-37.84
5725.00	Peak	72.87	0.98	73.85	122.20	-48.35

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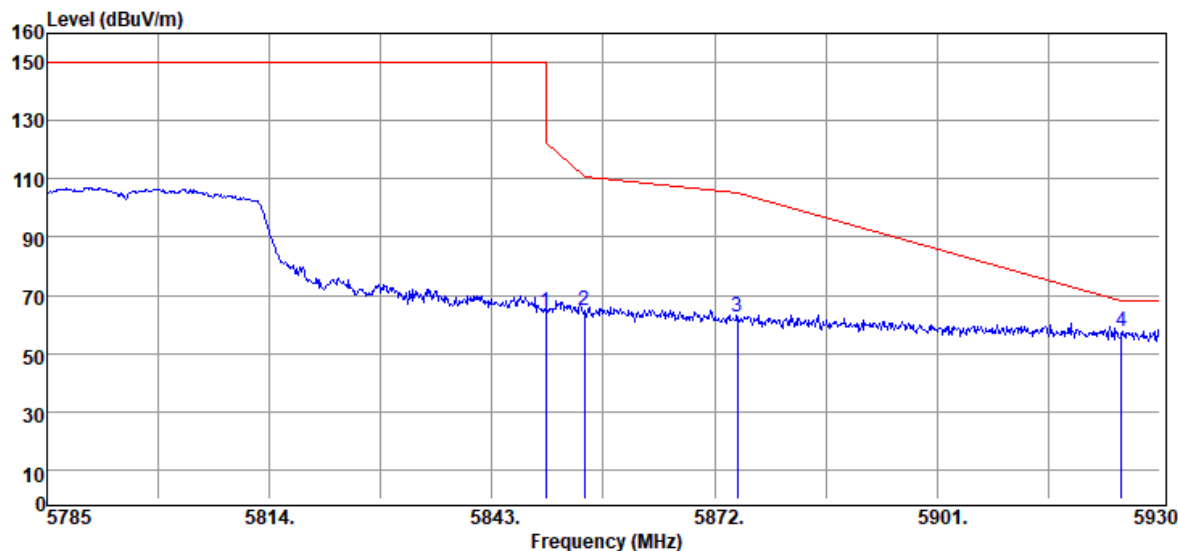
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Report Number :E2/2019/B0014  
 Operation Mode :802.11n40 / Band 4  
 Test Channel :5795 MHz  
 Test Mode :BE CH HIGH  
 EUT Pol :E2 Plan

Test Date :2019-12-13  
 Temp./Humi. :22.4/56  
 Antenna Pol. :VERTICAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	63.19	1.13	64.32	122.20	-57.88
5855.00	Peak	63.53	1.16	64.69	110.80	-46.11
5875.00	Peak	61.18	1.31	62.49	105.20	-42.71
5925.00	Peak	56.04	1.37	57.41	68.20	-10.79

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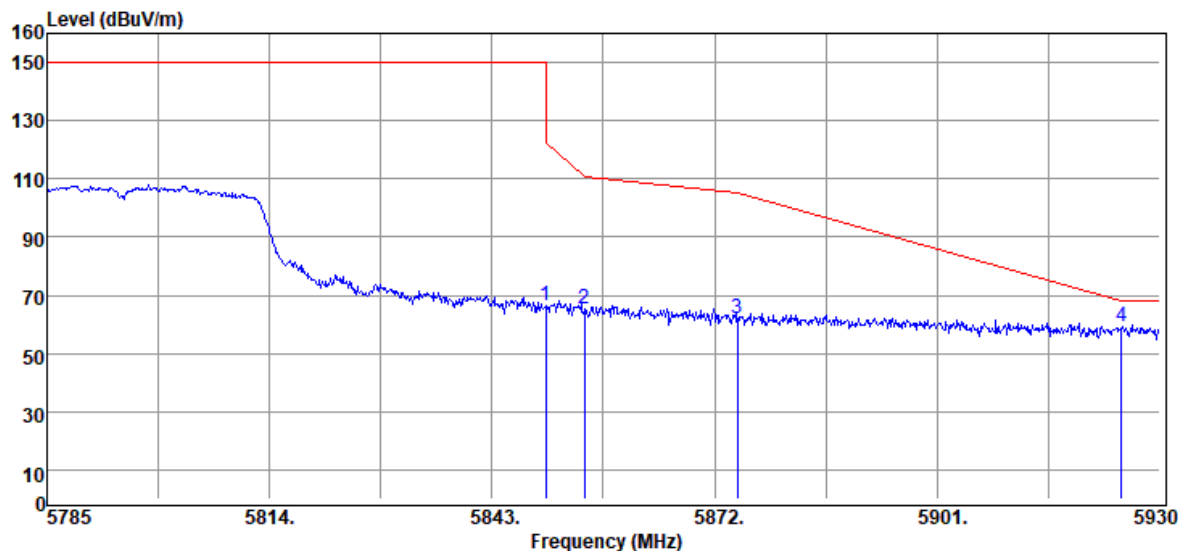
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Report Number :E2/2019/B0014  
 Operation Mode :802.11n40 / Band 4  
 Test Channel :5795 MHz  
 Test Mode :BE CH HIGH  
 EUT Pol :E2 Plan

Test Date :2019-12-13  
 Temp./Humi. :22.4/56  
 Antenna Pol. :HORIZONTAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	65.17	1.13	66.30	122.20	-55.90
5855.00	Peak	64.07	1.16	65.23	110.80	-45.57
5875.00	Peak	60.96	1.31	62.27	105.20	-42.93
5925.00	Peak	57.64	1.37	59.01	68.20	-9.19

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Report Number :E2/2019/B0014

Operation Mode :802.11ac20 / Band 1

Test Channel :5180 MHz

Test Mode :BE CH LOW

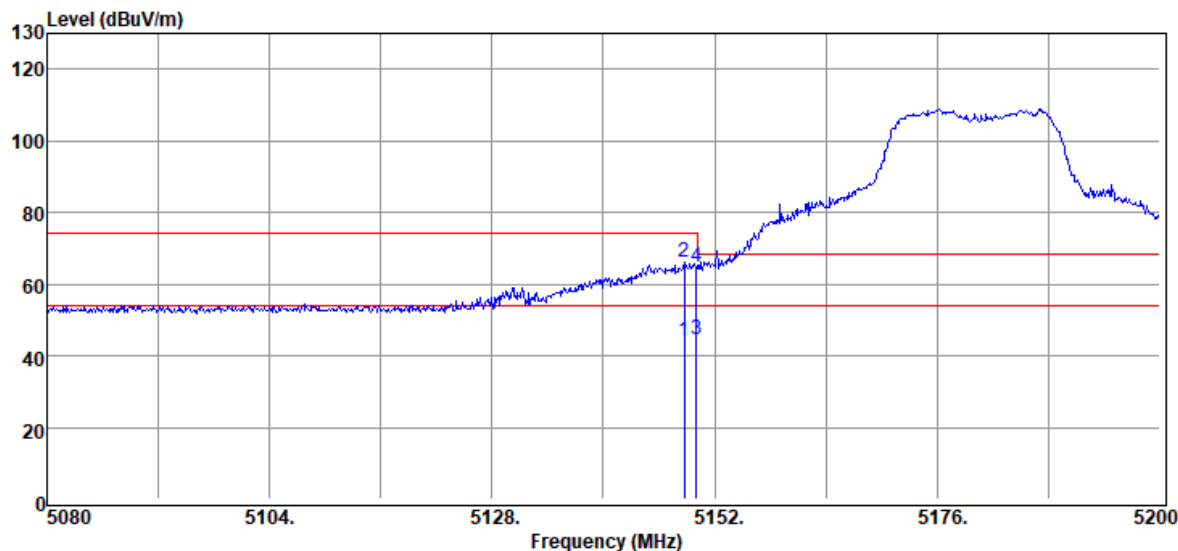
EUT Pol :E2 Plan

Test Date :2019-12-16

Temp./Humi. :23.1/59

Antenna Pol. :VERTICAL

Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5148.76	Average	43.55	0.44	43.99	54.00	-10.01
5148.76	Peak	65.51	0.44	65.95	74.00	-8.05
5150.00	Average	44.01	0.45	44.46	54.00	-9.54
5150.00	Peak	64.23	0.45	64.68	74.00	-9.32

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Report Number :E2/2019/B0014

Operation Mode :802.11ac20 / Band 1

Test Channel :5180 MHz

Test Mode :BE CH LOW

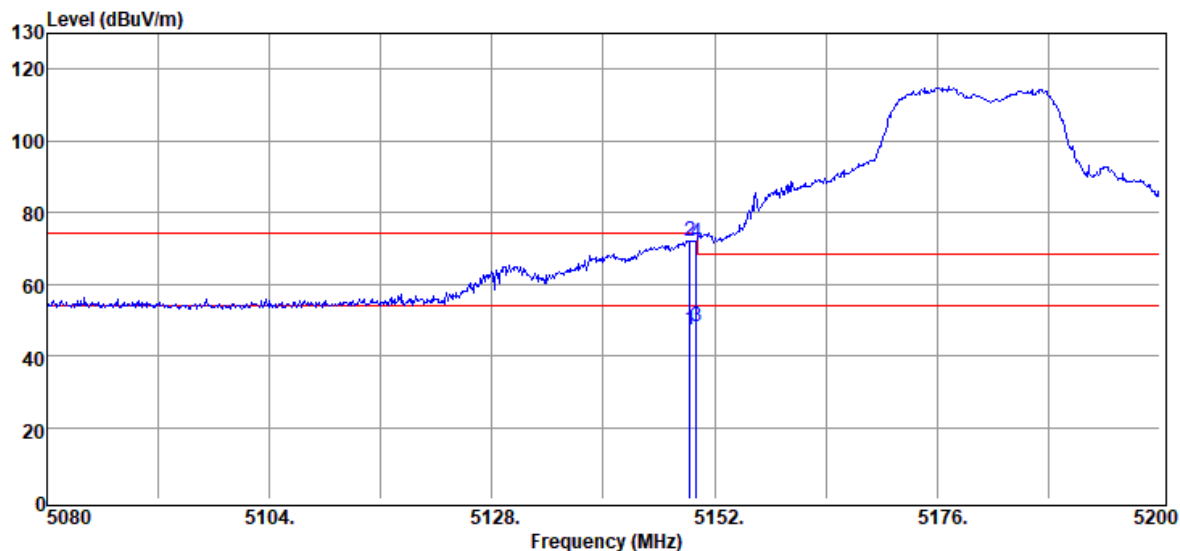
EUT Pol :E2 Plan

Test Date :2019-12-16

Temp./Humi. :23.1/59

Antenna Pol. :HORIZONTAL

Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5149.36	Average	46.99	0.44	47.43	54.00	-6.57
5149.36	Peak	71.74	0.44	72.18	74.00	-1.82
5150.00	Average	47.66	0.45	48.11	54.00	-5.89
5150.00	Peak	70.97	0.45	71.42	74.00	-2.58

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Report Number :E2/2019/B0014

Operation Mode :802.11ac20 / Band 1

Test Channel :5240 MHz

Test Mode :BE CH HIGH

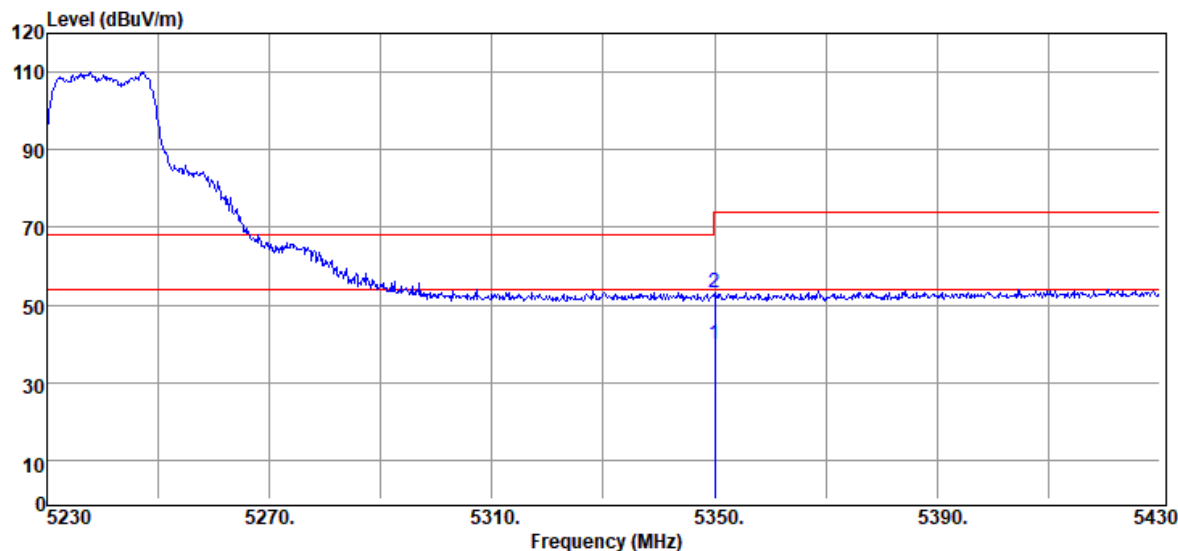
EUT Pol :E2 Plan

Test Date :2019-12-16

Temp./Humi. :23.1/59

Antenna Pol. :VERTICAL

Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	Average	39.59	0.17	39.76	54.00	-14.24
5350.00	Peak	53.14	0.17	53.31	74.00	-20.69

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Report Number :E2/2019/B0014

Operation Mode :802.11ac20 / Band 1

Test Channel :5240 MHz

Test Mode :BE CH HIGH

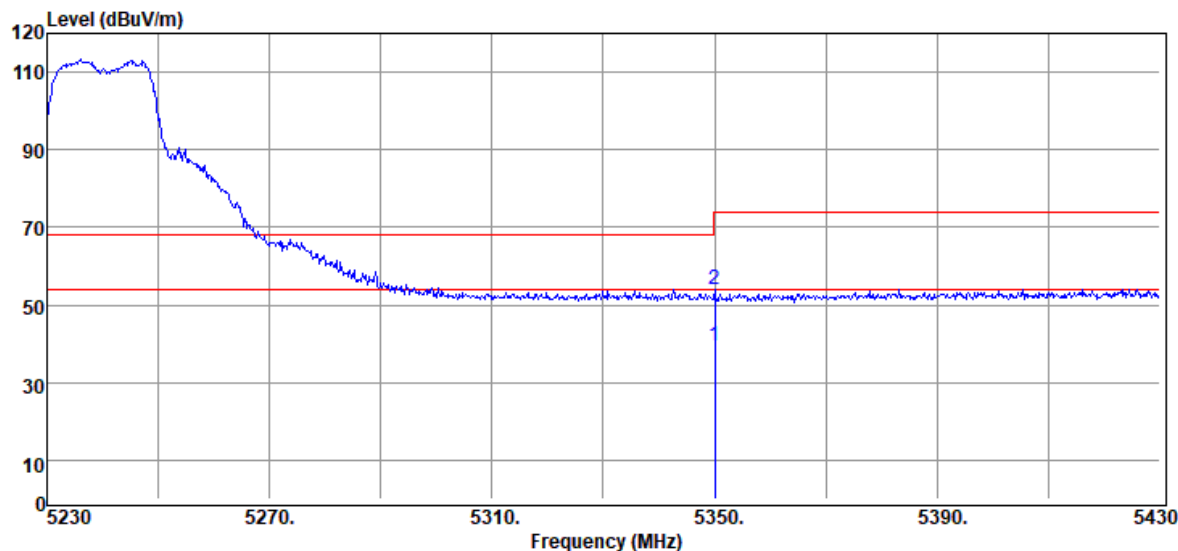
EUT Pol :E2 Plan

Test Date :2019-12-16

Temp./Humi. :23.1/59

Antenna Pol. :HORIZONTAL

Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	Average	39.34	0.17	39.51	54.00	-14.49
5350.00	Peak	53.89	0.17	54.06	74.00	-19.94

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Report Number :E2/2019/B0014

Test Date :2019-12-16

Operation Mode :802.11ac20 / Band 4

Temp./Humi. :23.1/59

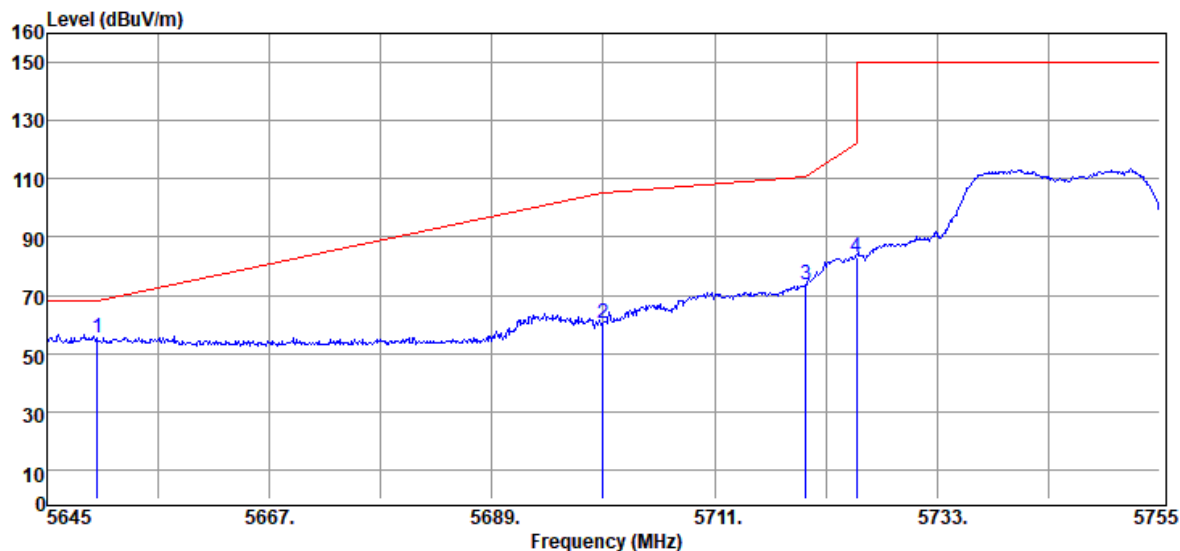
Test Channel :5745 MHz

Antenna Pol. :VERTICAL

Test Mode :BE CH LOW

Engineer :Kailin

EUT Pol :E2 Plan



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	54.43	0.69	55.12	68.20	-13.08
5700.00	Peak	59.32	1.00	60.32	105.20	-44.88
5720.00	Peak	72.54	0.99	73.53	110.80	-37.27
5725.00	Peak	82.11	0.98	83.09	122.20	-39.11

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Report Number :E2/2019/B0014

Operation Mode :802.11ac20 / Band 4

Test Channel :5745 MHz

Test Mode :BE CH LOW

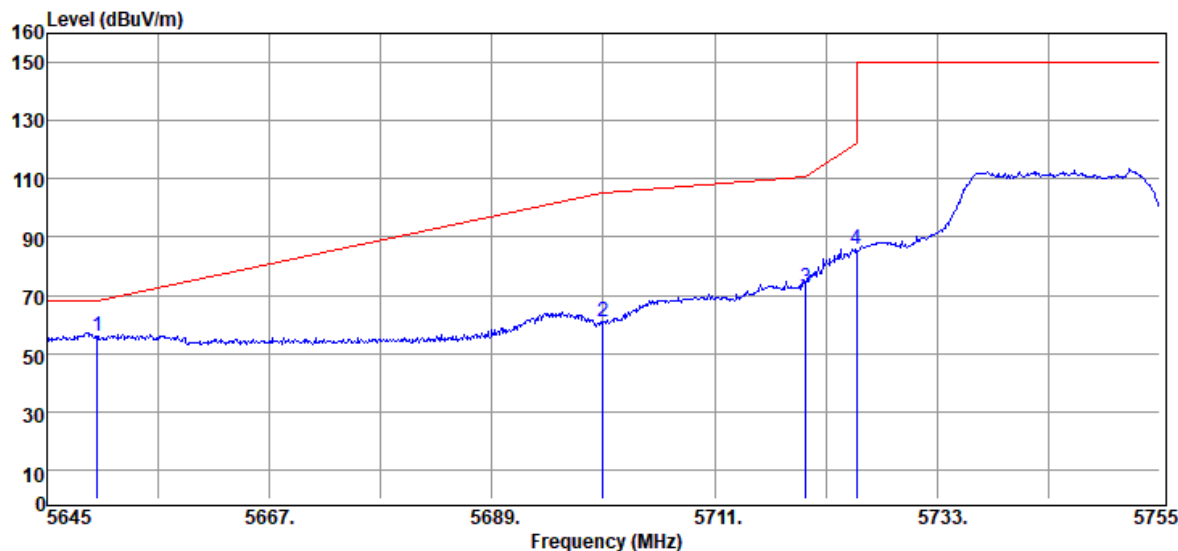
EUT Pol :E2 Plan

Test Date :2019-12-16

Temp./Humi. :23.1/59

Antenna Pol. :HORIZONTAL

Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	55.22	0.69	55.91	68.20	-12.29
5700.00	Peak	59.77	1.00	60.77	105.20	-44.43
5720.00	Peak	71.81	0.99	72.80	110.80	-38.00
5725.00	Peak	84.62	0.98	85.60	122.20	-36.60

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Report Number :E2/2019/B0014

Test Date :2019-12-16

Operation Mode :802.11ac20 / Band 4

Temp./Humi. :23.1/59

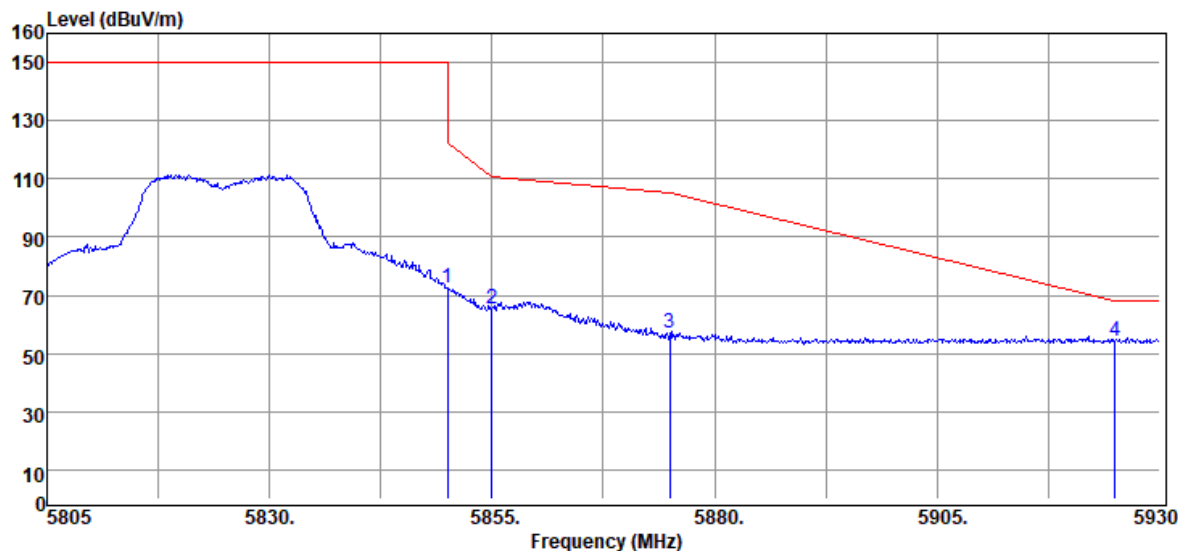
Test Channel :5825 MHz

Antenna Pol. :VERTICAL

Test Mode :BE CH HIGH

Engineer :Kailin

EUT Pol :E2 Plan



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	71.37	1.13	72.50	122.20	-49.70
5855.00	Peak	64.31	1.16	65.47	110.80	-45.33
5875.00	Peak	55.65	1.31	56.96	105.20	-48.24
5925.00	Peak	53.09	1.37	54.46	68.20	-13.74

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Operation Mode :802.11ac20 / Band 4

Test Channel :5825 MHz

Test Mode :BE CH HIGH

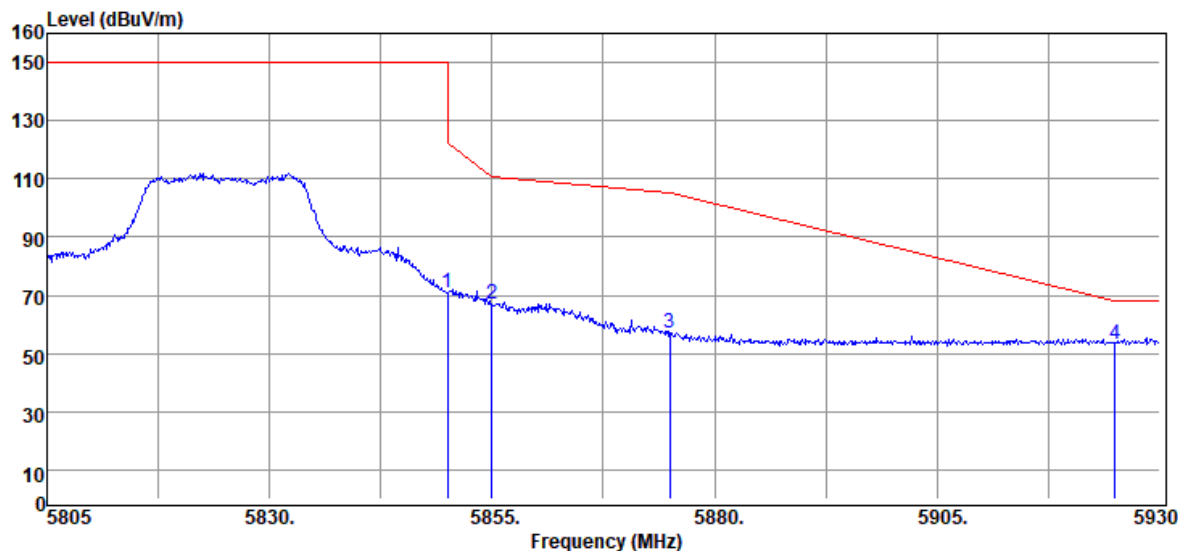
EUT Pol :E2 Plan

Test Date :2019-12-16

Temp./Humi. :23.1/59

Antenna Pol. :HORIZONTAL

Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	69.95	1.13	71.08	122.20	-51.12
5855.00	Peak	65.62	1.16	66.78	110.80	-44.02
5875.00	Peak	55.79	1.31	57.10	105.20	-48.10
5925.00	Peak	51.83	1.37	53.20	68.20	-15.00

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Report Number :E2/2019/B0014

Operation Mode :802.11ac40 / Band 1

Test Channel :5190 MHz

Test Mode :BE CH LOW

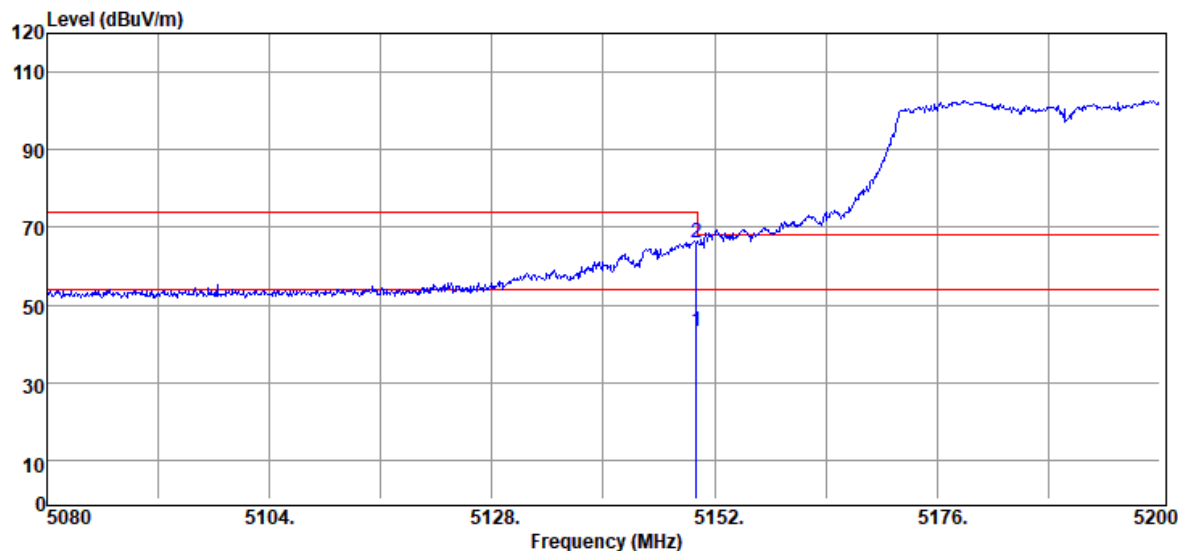
EUT Pol :E2 Plan

Test Date :2019-12-16

Temp./Humi. :23.1/59

Antenna Pol. :VERTICAL

Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5150.00	Average	42.89	0.45	43.34	54.00	-10.66
5150.00	Peak	65.68	0.45	66.13	74.00	-7.87

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Report Number :E2/2019/B0014

Operation Mode :802.11ac40 / Band 1

Test Channel :5190 MHz

Test Mode :BE CH LOW

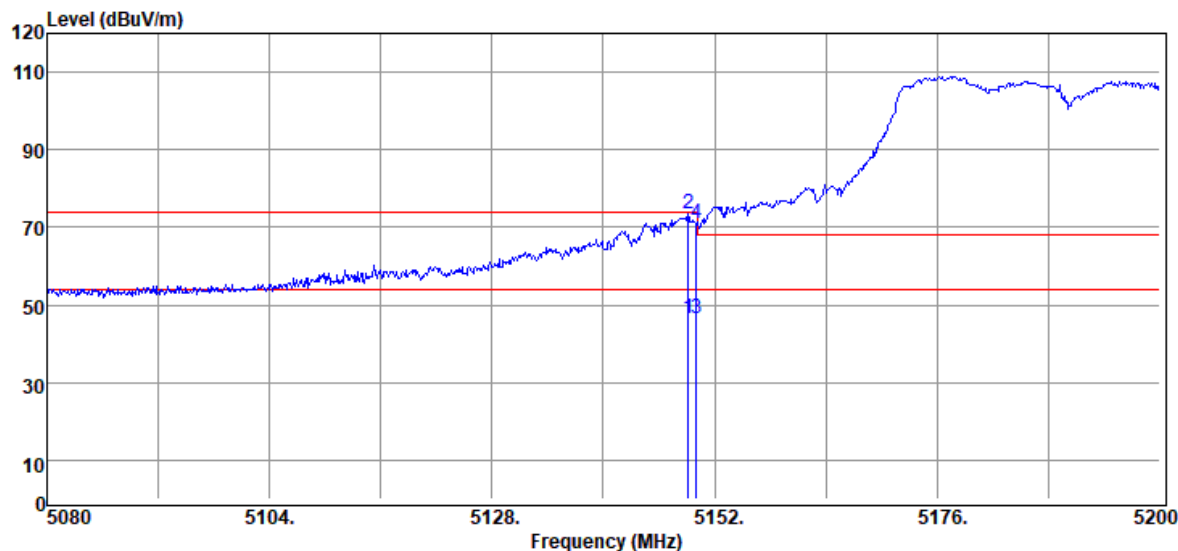
EUT Pol :E2 Plan

Test Date :2019-12-16

Temp./Humi. :23.1/59

Antenna Pol. :HORIZONTAL

Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5149.12	Average	45.89	0.44	46.33	54.00	-7.67
5149.12	Peak	72.90	0.44	73.34	74.00	-0.66
5150.00	Average	45.86	0.45	46.31	54.00	-7.69
5150.00	Peak	70.72	0.45	71.17	74.00	-2.83

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Report Number :E2/2019/B0014

Operation Mode :802.11ac40 / Band 1

Test Channel :5230 MHz

Test Mode :BE CH HIGH

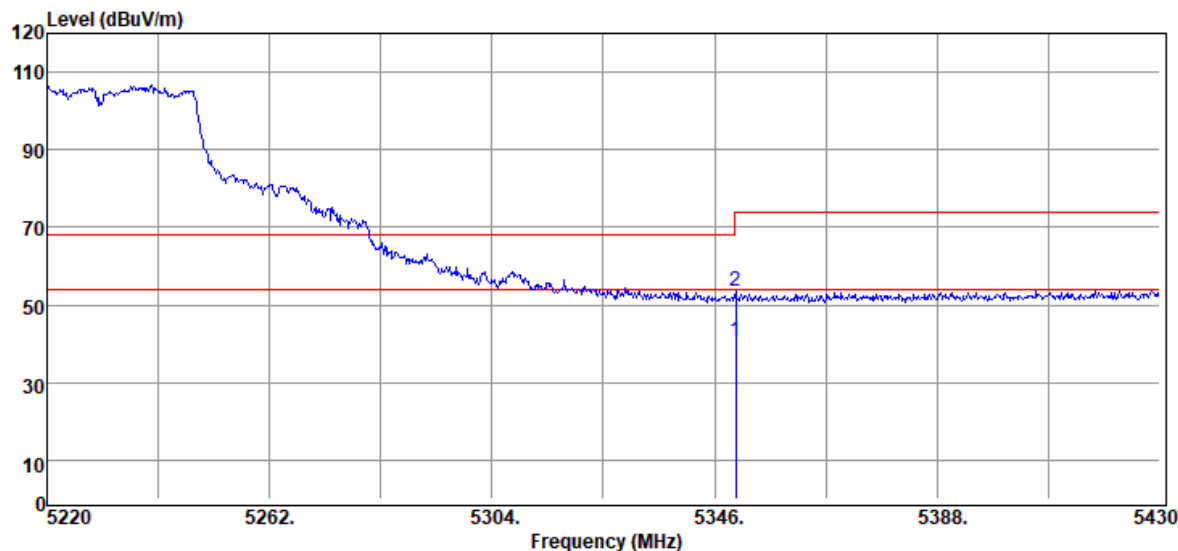
EUT Pol :E2 Plan

Test Date :2019-12-16

Temp./Humi. :23.0/58

Antenna Pol. :VERTICAL

Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	Average	40.62	0.17	40.79	54.00	-13.21
5350.00	Peak	53.60	0.17	53.77	74.00	-20.23

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Report Number :E2/2019/B0014

Operation Mode :802.11ac40 / Band 1

Test Channel :5230 MHz

Test Mode :BE CH HIGH

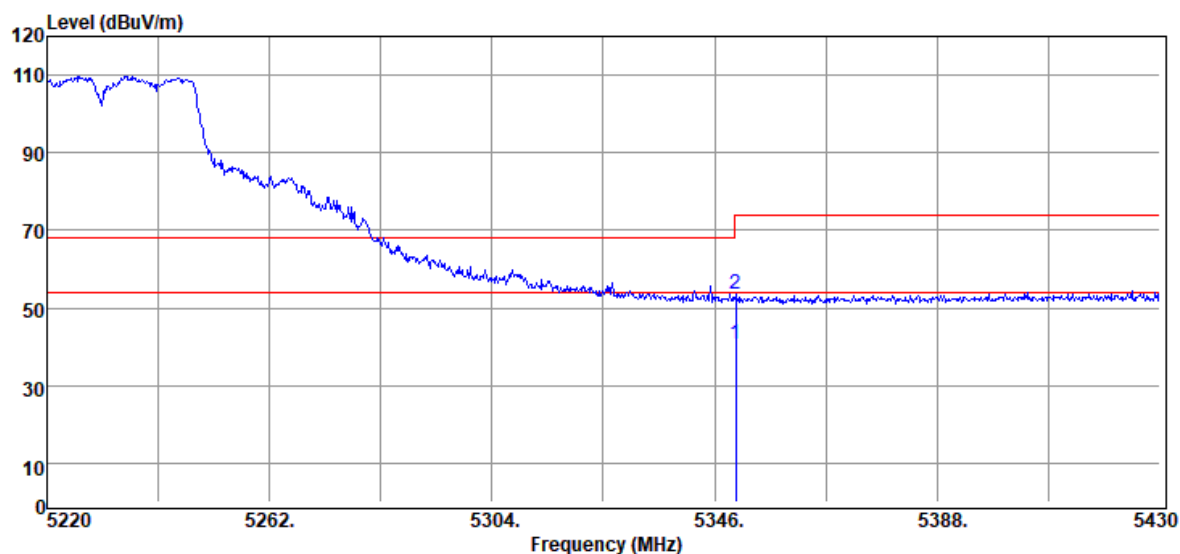
EUT Pol :E2 Plan

Test Date :2019-12-16

Temp./Humi. :23.0/58

Antenna Pol. :HORIZONTAL

Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	Average	40.62	0.17	40.79	54.00	-13.21
5350.00	Peak	53.26	0.17	53.43	74.00	-20.57

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Report Number :E2/2019/B0014

Test Date :2019-12-16

Operation Mode :802.11ac40 / Band 4

Temp./Humi. :23.0/58

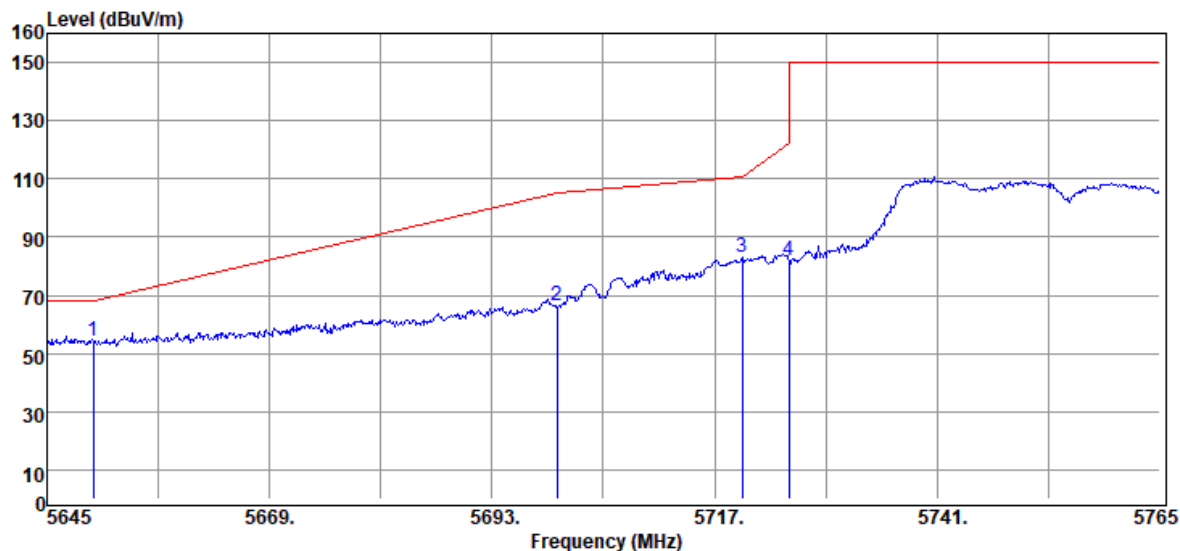
Test Channel :5755 MHz

Antenna Pol. :VERTICAL

Test Mode :BE CH LOW

Engineer :Kailin

EUT Pol :E2 Plan



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	53.56	0.69	54.25	68.20	-13.95
5700.00	Peak	65.18	1.00	66.18	105.20	-39.02
5720.00	Peak	82.03	0.99	83.02	110.80	-27.78
5725.00	Peak	80.76	0.98	81.74	122.20	-40.46

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Member of SGS Group

Report Number :E2/2019/B0014

Operation Mode :802.11ac40 / Band 4

Test Channel :5755 MHz

Test Mode :BE CH LOW

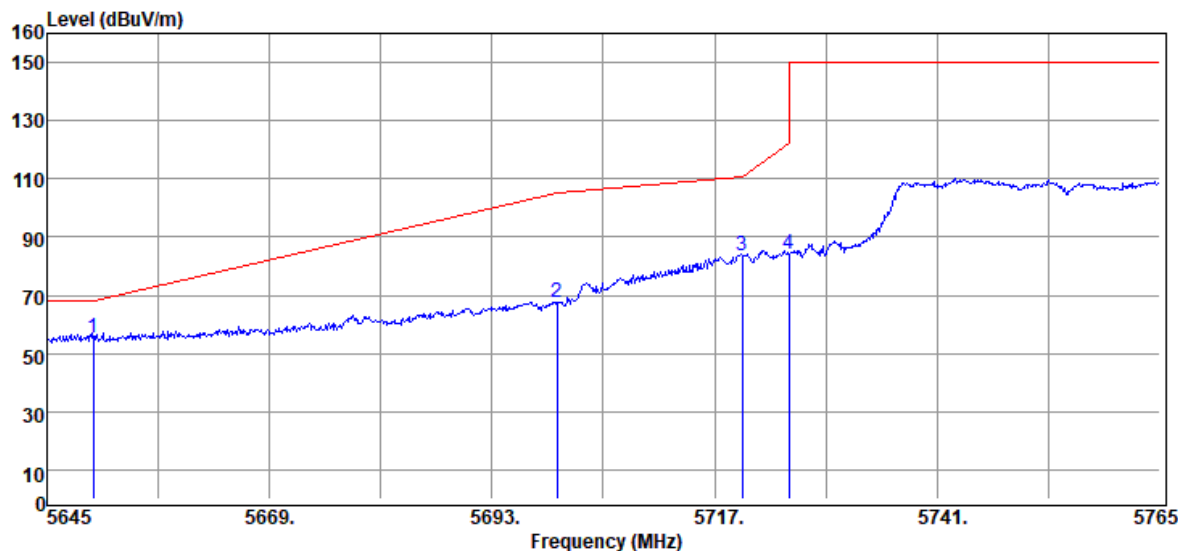
EUT Pol :E2 Plan

Test Date :2019-12-16

Temp./Humi. :23.0/58

Antenna Pol. :HORIZONTAL

Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	54.40	0.69	55.09	68.20	-13.11
5700.00	Peak	66.44	1.00	67.44	105.20	-37.76
5720.00	Peak	82.60	0.99	83.59	110.80	-27.21
5725.00	Peak	83.05	0.98	84.03	122.20	-38.17

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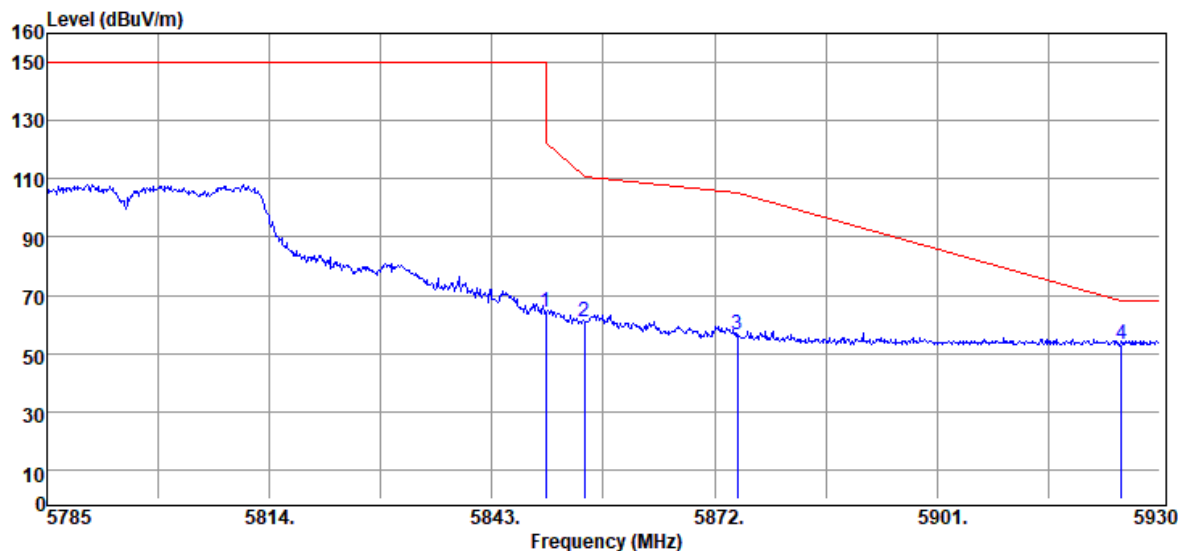
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Member of SGS Group

Report Number :E2/2019/B0014  
 Operation Mode :802.11ac40 / Band 4  
 Test Channel :5795 MHz  
 Test Mode :BE CH HIGH  
 EUT Pol :E2 Plan

Test Date :2019-12-16  
 Temp./Humi. :23.0/58  
 Antenna Pol. :VERTICAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	62.97	1.13	64.10	122.20	-58.10
5855.00	Peak	59.95	1.16	61.11	110.80	-49.69
5875.00	Peak	55.33	1.31	56.64	105.20	-48.56
5925.00	Peak	51.60	1.37	52.97	68.20	-15.23

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Report Number :E2/2019/B0014

Operation Mode :802.11ac40 / Band 4

Test Channel :5795 MHz

Test Mode :BE CH HIGH

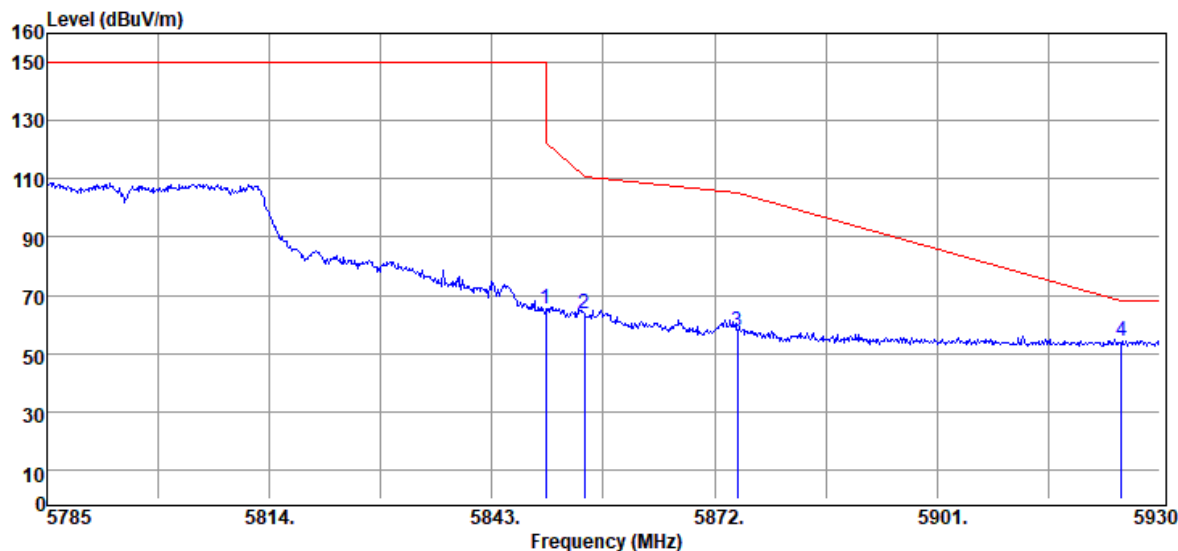
EUT Pol :E2 Plan

Test Date :2019-12-16

Temp./Humi. :23.0/58

Antenna Pol. :HORIZONTAL

Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	64.22	1.13	65.35	122.20	-56.85
5855.00	Peak	62.36	1.16	63.52	110.80	-47.28
5875.00	Peak	56.43	1.31	57.74	105.20	-47.46
5925.00	Peak	52.88	1.37	54.25	68.20	-13.95

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Report Number :E2/2019/B0014

Test Date :2019-12-16

Operation Mode :802.11ac80 / Band 1

Temp./Humi. :23.0/58

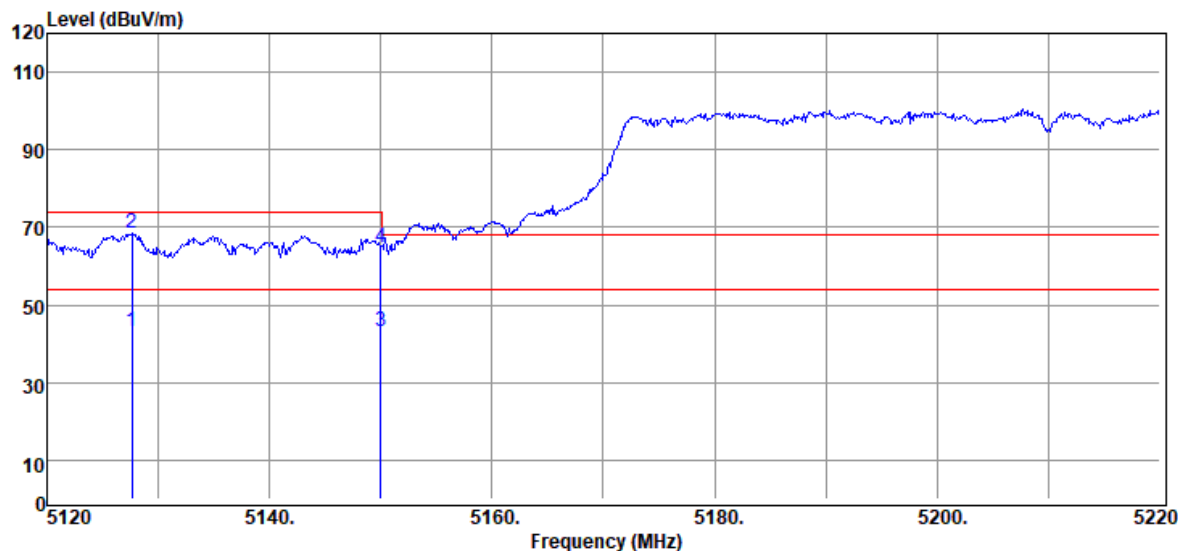
Test Channel :5210 MHz

Antenna Pol. :VERTICAL

Test Mode :BE CH LOW

Engineer :Kailin

EUT Pol :E2 Plan



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5127.60	Average	42.89	0.32	43.21	54.00	-10.79
5127.60	Peak	68.06	0.32	68.38	74.00	-5.62
5150.00	Average	42.74	0.45	43.19	54.00	-10.81
5150.00	Peak	64.47	0.45	64.92	74.00	-9.08

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Report Number :E2/2019/B0014

Operation Mode :802.11ac80 / Band 1

Test Channel :5210 MHz

Test Mode :BE CH LOW

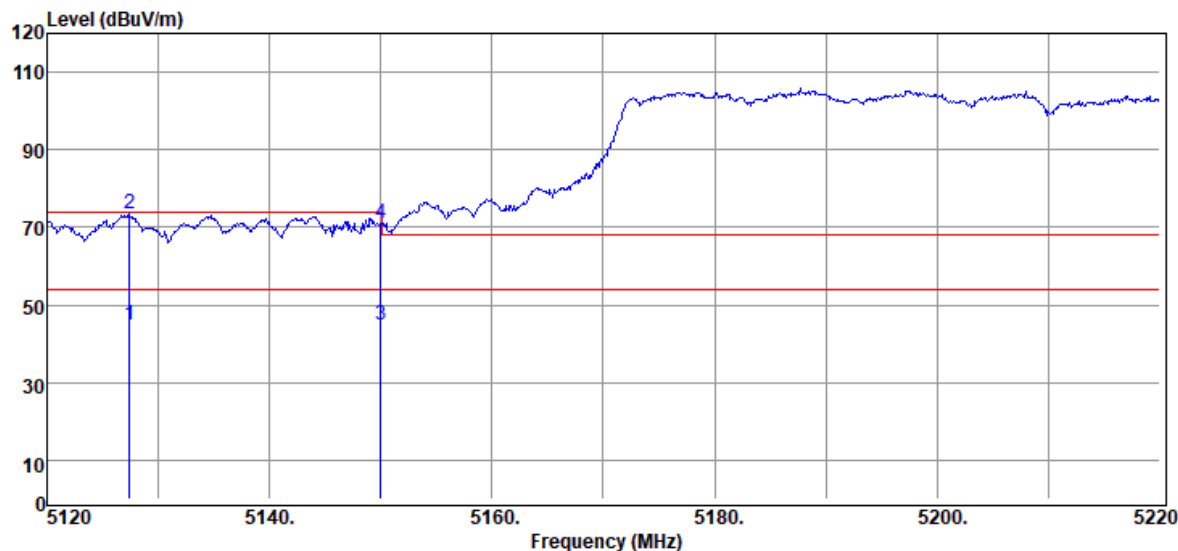
EUT Pol :E2 Plan

Test Date :2019-12-16

Temp./Humi. :23.0/58

Antenna Pol. :HORIZONTAL

Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5127.40	Average	44.66	0.32	44.98	54.00	-9.02
5127.40	Peak	73.01	0.32	73.33	74.00	-0.67
5150.00	Average	44.22	0.45	44.67	54.00	-9.33
5150.00	Peak	70.40	0.45	70.85	74.00	-3.15

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Report Number :E2/2019/B0014

Operation Mode :802.11ac80 / Band 4

Test Channel :5775 MHz

Test Mode :BE CH LOW

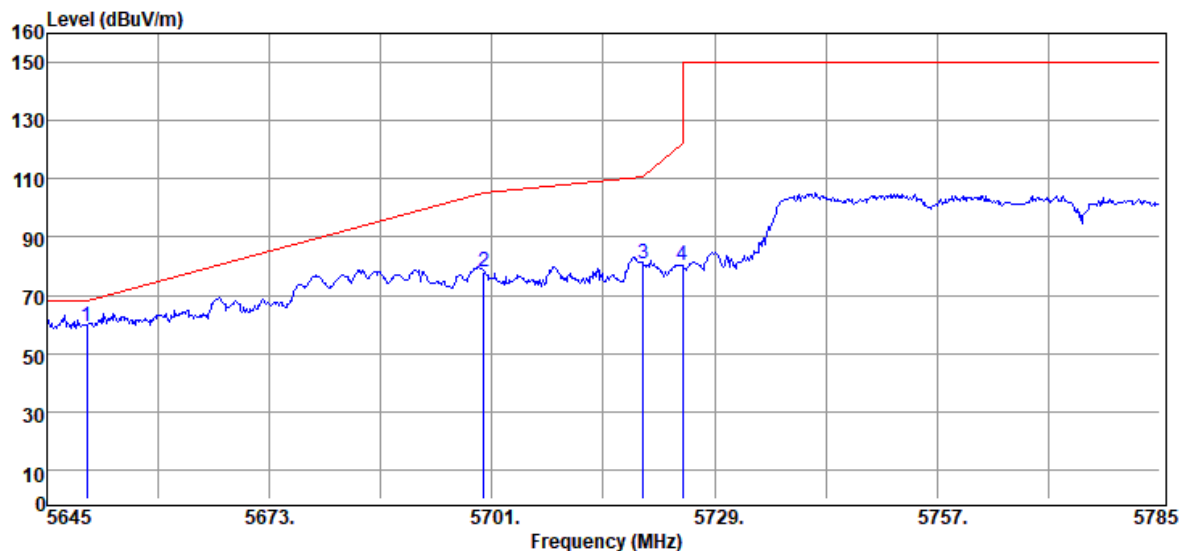
EUT Pol :E2 Plan

Test Date :2019-12-16

Temp./Humi. :23.0/58

Antenna Pol. :VERTICAL

Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	58.77	0.69	59.46	68.20	-8.74
5700.00	Peak	77.09	1.00	78.09	105.20	-27.11
5720.00	Peak	79.98	0.99	80.97	110.80	-29.83
5725.00	Peak	79.16	0.98	80.14	122.20	-42.06

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Operation Mode :802.11ac80 / Band 4

Test Channel :5775 MHz

Test Mode :BE CH LOW

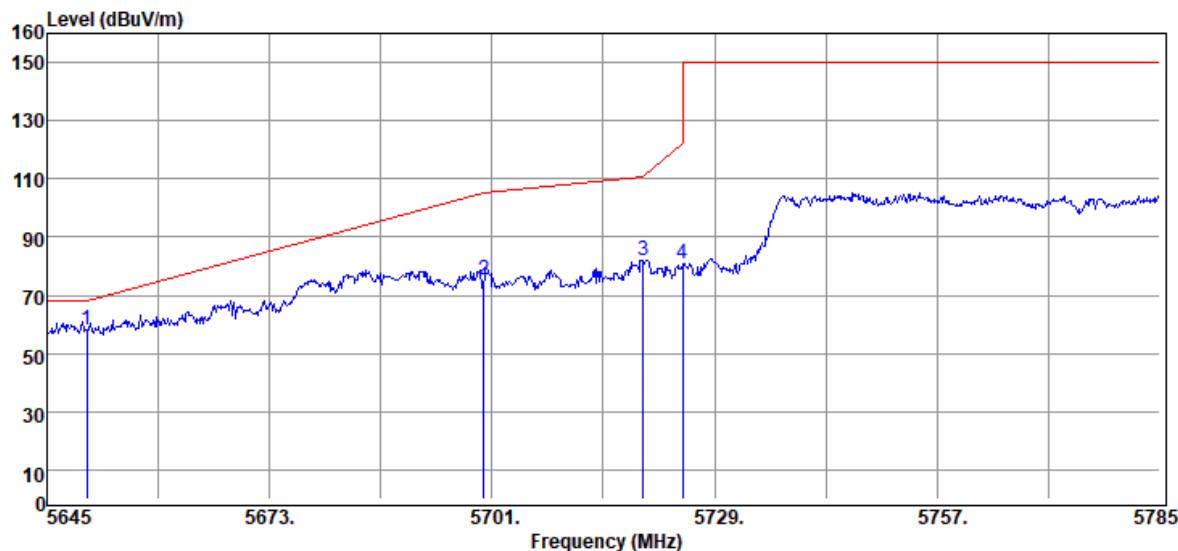
EUT Pol :E2 Plan

Test Date :2019-12-16

Temp./Humi. :23.0/58

Antenna Pol. :HORIZONTAL

Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	57.27	0.69	57.96	68.20	-10.24
5700.00	Peak	74.24	1.00	75.24	105.20	-29.96
5720.00	Peak	81.14	0.99	82.13	110.80	-28.67
5725.00	Peak	79.81	0.98	80.79	122.20	-41.41

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Report Number :E2/2019/B0014

Operation Mode :802.11ac80 / Band 4

Test Channel :5775 MHz

Test Mode :BE CH HIGH

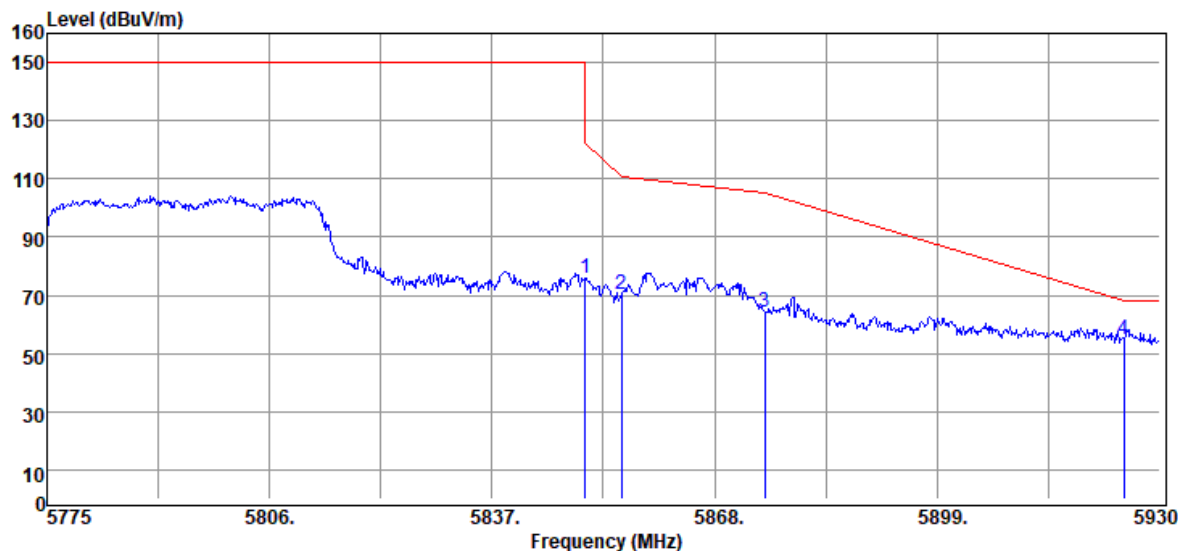
EUT Pol :E2 Plan

Test Date :2019-12-16

Temp./Humi. :23.0/58

Antenna Pol. :VERTICAL

Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	74.98	1.13	76.11	122.20	-46.09
5855.00	Peak	69.06	1.16	70.22	110.80	-40.58
5875.00	Peak	62.90	1.31	64.21	105.20	-40.99
5925.00	Peak	53.30	1.37	54.67	68.20	-13.53

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Report Number :E2/2019/B0014

Operation Mode :802.11ac80 / Band 4

Test Channel :5775 MHz

Test Mode :BE CH HIGH

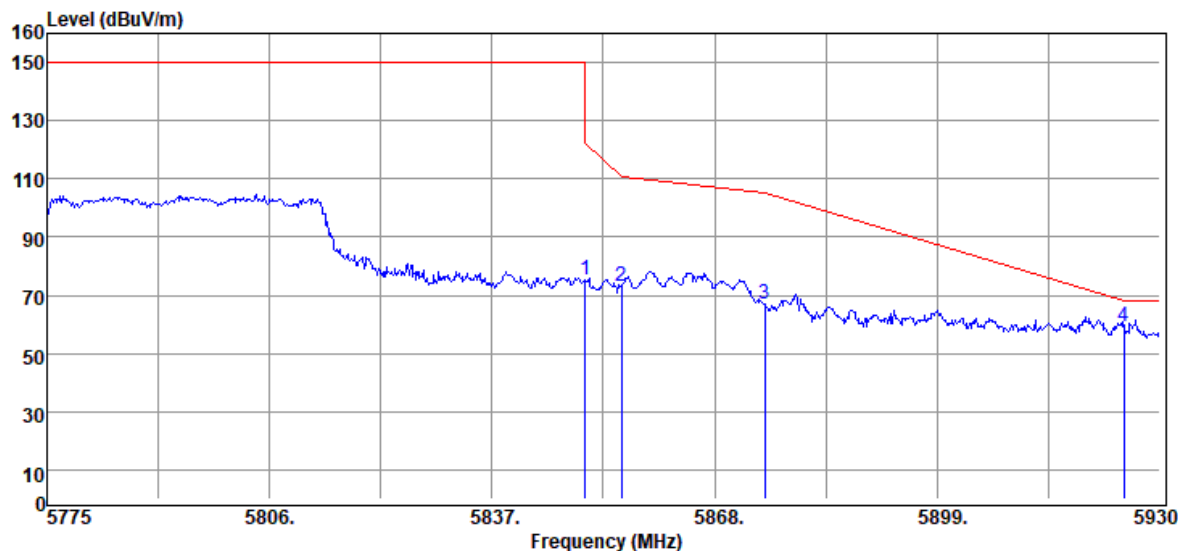
EUT Pol :E2 Plan

Test Date :2019-12-16

Temp./Humi. :23.0/58

Antenna Pol. :HORIZONTAL

Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	74.30	1.13	75.43	122.20	-46.77
5855.00	Peak	72.19	1.16	73.35	110.80	-37.45
5875.00	Peak	65.90	1.31	67.21	105.20	-37.99
5925.00	Peak	57.80	1.37	59.17	68.20	-9.03

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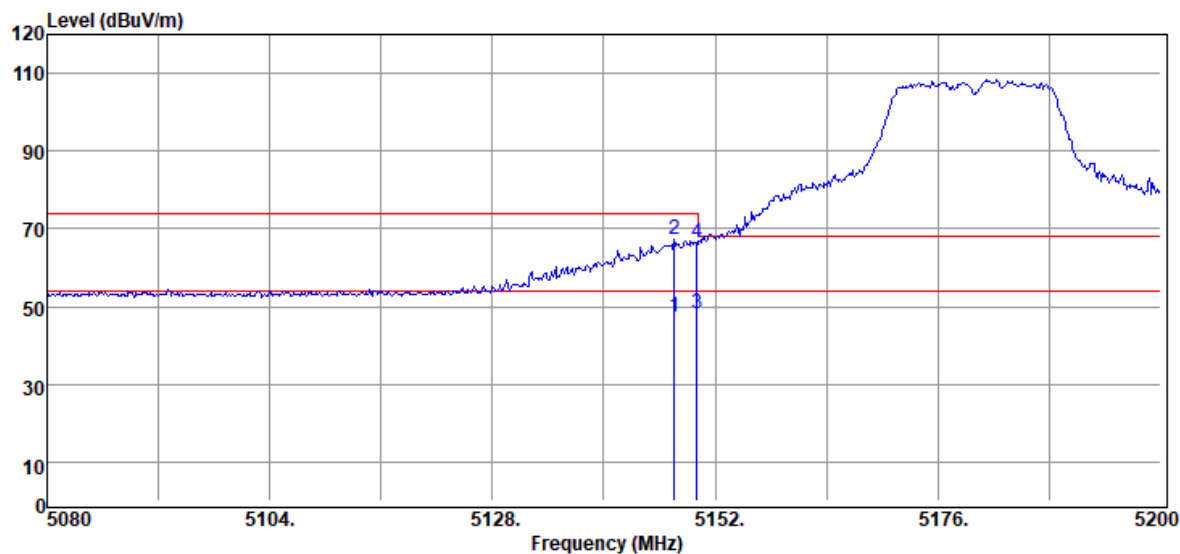
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## Beamforming Mode

Report Number :E2/2019/B0014  
 Operation Mode :802.11a / Band 1  
 Test Channel :5180 MHz  
 Test Mode :BE CH LOW  
 EUT Pol :E2 Plan

Test Date :2020-01-07  
 Temp./Humi. :21.9/68  
 Antenna Pol. :VERTICAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5147.56	Average	47.02	0.43	47.45	54.00	-6.55
5147.56	Peak	67.04	0.43	67.47	74.00	-6.53
5150.00	Average	47.62	0.45	48.07	54.00	-5.93
5150.00	Peak	66.04	0.45	66.49	74.00	-7.51

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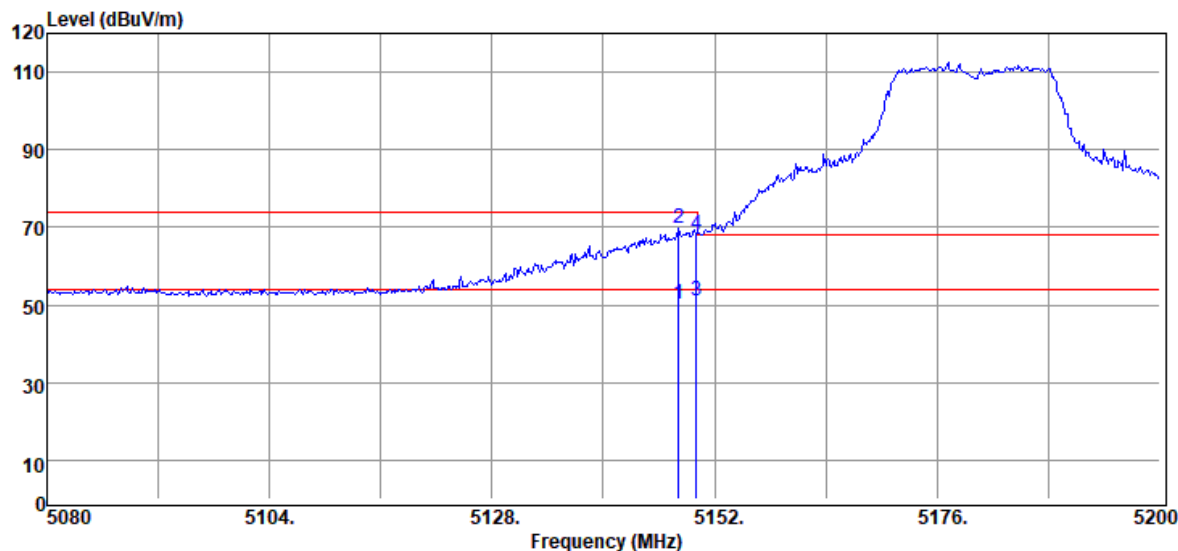
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Report Number :E2/2019/B0014  
 Operation Mode :802.11a / Band 1  
 Test Channel :5180 MHz  
 Test Mode :BE CH LOW  
 EUT Pol :E2 Plan

Test Date :2020-01-07  
 Temp./Humi. :21.9/68  
 Antenna Pol. :HORIZONTAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5148.16	Average	49.62	0.44	50.06	54.00	-3.94
5148.16	Peak	69.15	0.44	69.59	74.00	-4.41
5150.00	Average	50.66	0.45	51.11	54.00	-2.89
5150.00	Peak	67.72	0.45	68.17	74.00	-5.83

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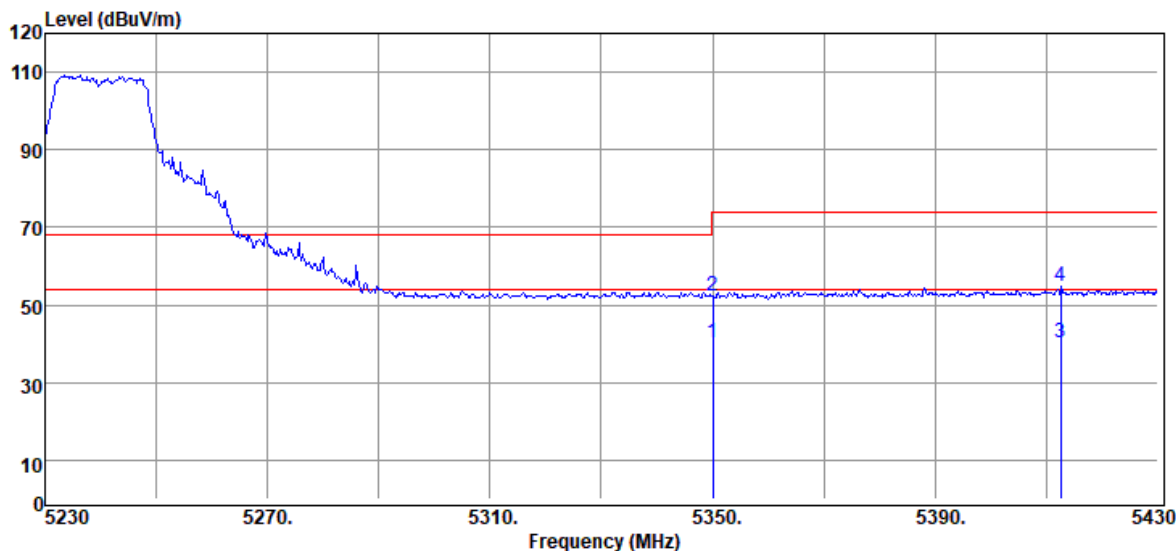
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Report Number :E2/2019/B0014  
Operation Mode :802.11a / Band 1  
Test Channel :5240 MHz  
Test Mode :BE CH HIGH  
EUT Pol :E2 Plan

Test Date :2020-01-07  
Temp./Humi. :21.9/68  
Antenna Pol. :VERTICAL  
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	Average	39.98	0.17	40.15	54.00	-13.85
5350.00	Peak	52.16	0.17	52.33	74.00	-21.67
5412.60	Average	39.45	0.88	40.33	54.00	-13.67
5412.60	Peak	53.73	0.88	54.61	74.00	-19.39

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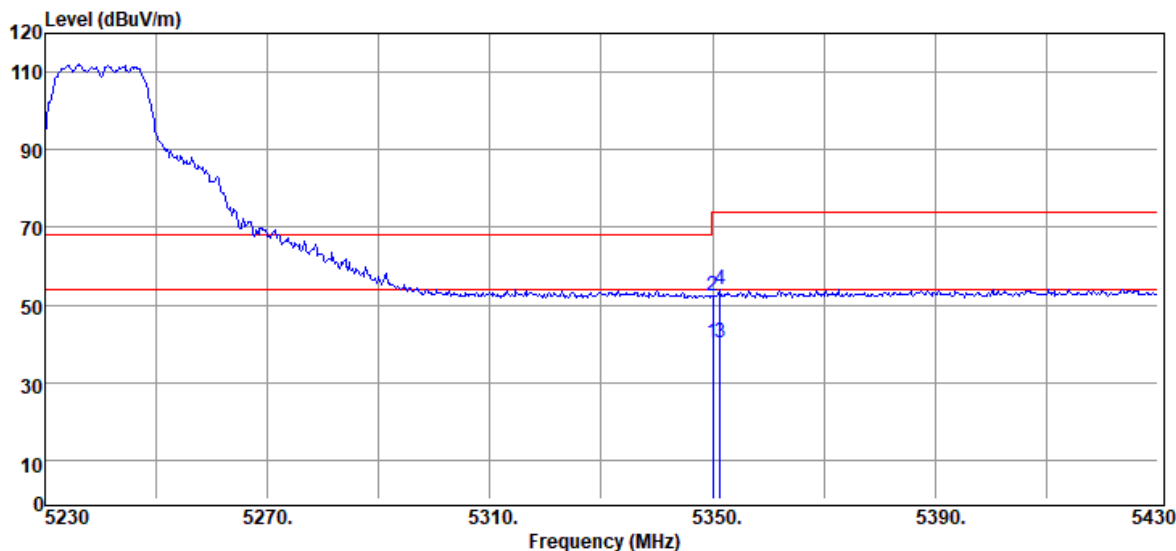
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Report Number :E2/2019/B0014  
 Operation Mode :802.11a / Band 1  
 Test Channel :5240 MHz  
 Test Mode :BE CH HIGH  
 EUT Pol :E2 Plan

Test Date :2020-01-07  
 Temp./Humi. :21.9/68  
 Antenna Pol. :HORIZONTAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	Average	39.91	0.17	40.08	54.00	-13.92
5350.00	Peak	52.35	0.17	52.52	74.00	-21.48
5351.40	Average	40.03	0.18	40.21	54.00	-13.79
5351.40	Peak	53.90	0.18	54.08	74.00	-19.92

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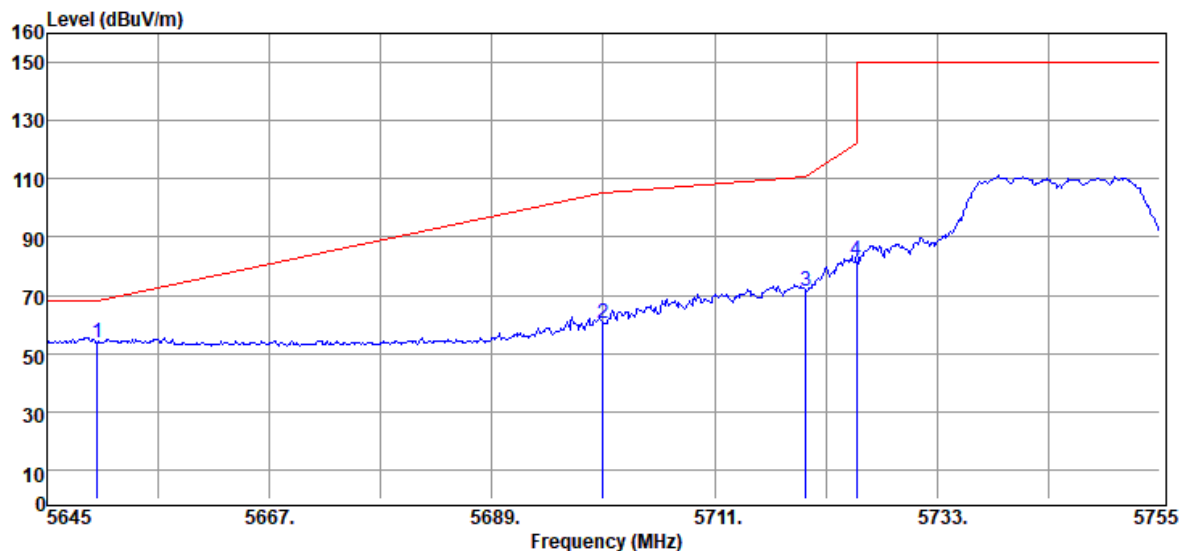
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Report Number :E2/2019/B0014  
 Operation Mode :802.11a / Band 4  
 Test Channel :5745 MHz  
 Test Mode :BE CH LOW  
 EUT Pol :E2 Plan

Test Date :2020-01-07  
 Temp./Humi. :21.9/68  
 Antenna Pol. :VERTICAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	53.04	0.69	53.73	68.20	-14.47
5700.00	Peak	59.35	1.00	60.35	105.20	-44.85
5720.00	Peak	70.69	0.99	71.68	110.80	-39.12
5725.00	Peak	80.68	0.98	81.66	122.20	-40.54

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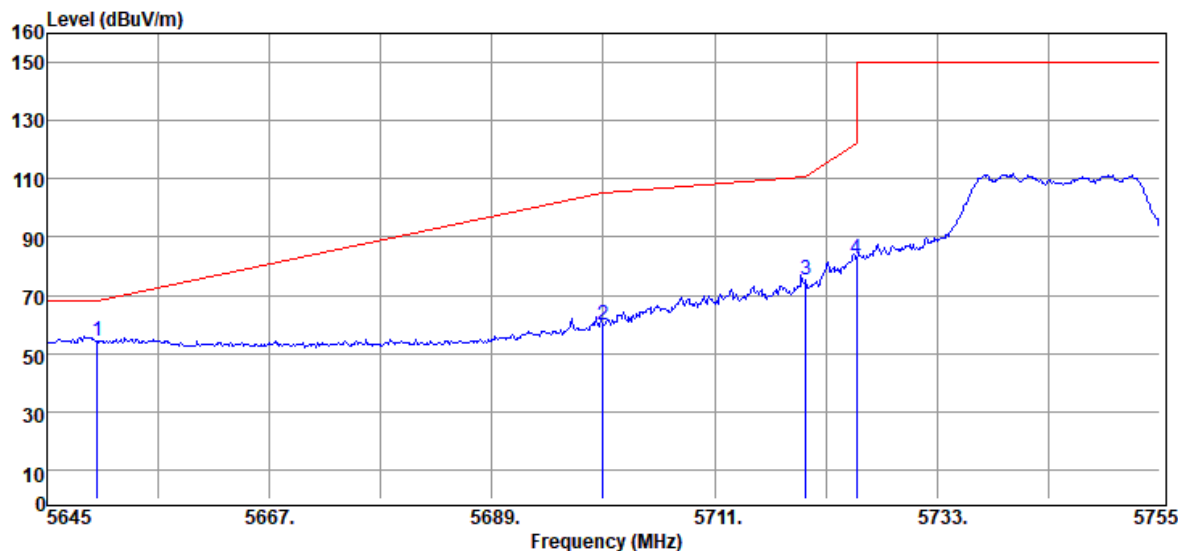
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Report Number :E2/2019/B0014  
Operation Mode :802.11a / Band 4  
Test Channel :5745 MHz  
Test Mode :BE CH LOW  
EUT Pol :E2 Plan

Test Date :2020-01-07  
Temp./Humi. :21.9/68  
Antenna Pol. :HORIZONTAL  
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	53.65	0.69	54.34	68.20	-13.86
5700.00	Peak	58.52	1.00	59.52	105.20	-45.68
5720.00	Peak	74.09	0.99	75.08	110.80	-35.72
5725.00	Peak	81.58	0.98	82.56	122.20	-39.64

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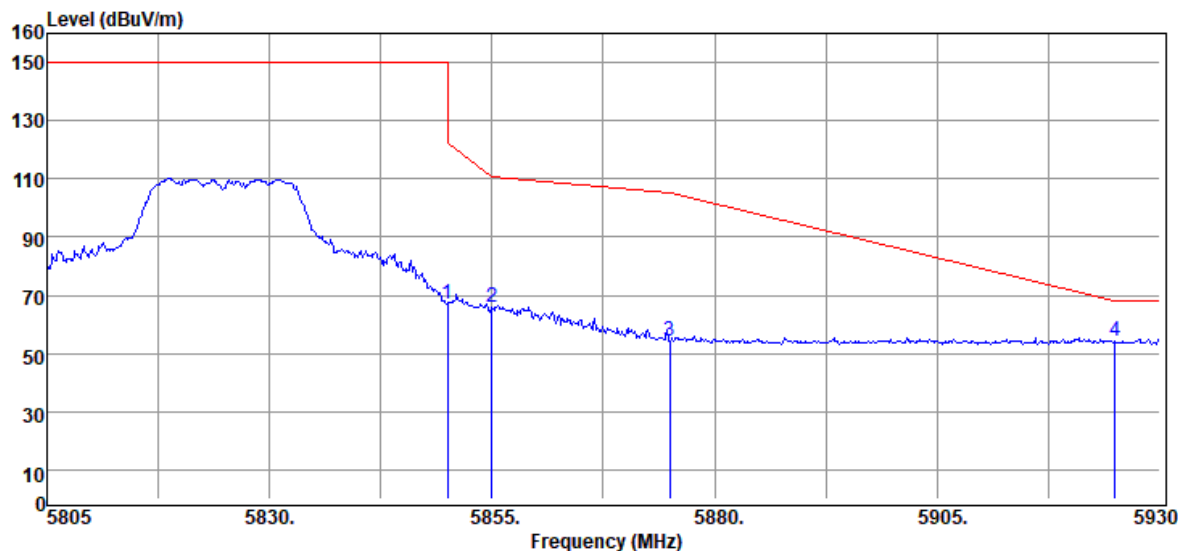
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Report Number :E2/2019/B0014  
 Operation Mode :802.11a / Band 4  
 Test Channel :5825 MHz  
 Test Mode :BE CH HIGH  
 EUT Pol :E2 Plan

Test Date :2020-01-07  
 Temp./Humi. :21.9/68  
 Antenna Pol. :VERTICAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	65.73	1.13	66.86	122.20	-55.34
5855.00	Peak	64.73	1.16	65.89	110.80	-44.91
5875.00	Peak	52.72	1.31	54.03	105.20	-51.17
5925.00	Peak	52.62	1.37	53.99	68.20	-14.21

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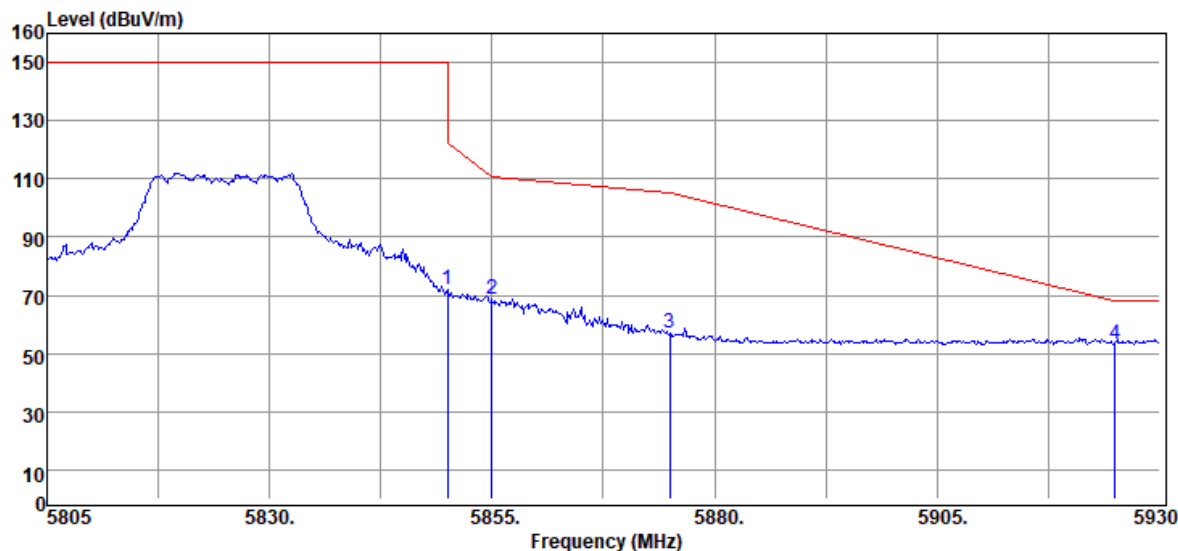
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Report Number :E2/2019/B0014  
 Operation Mode :802.11a / Band 4  
 Test Channel :5825 MHz  
 Test Mode :BE CH HIGH  
 EUT Pol :E2 Plan

Test Date :2020-01-07  
 Temp./Humi. :21.9/68  
 Antenna Pol. :HORIZONTAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	70.66	1.13	71.79	122.20	-50.41
5855.00	Peak	67.45	1.16	68.61	110.80	-42.19
5875.00	Peak	55.53	1.31	56.84	105.20	-48.36
5925.00	Peak	52.02	1.37	53.39	68.20	-14.81

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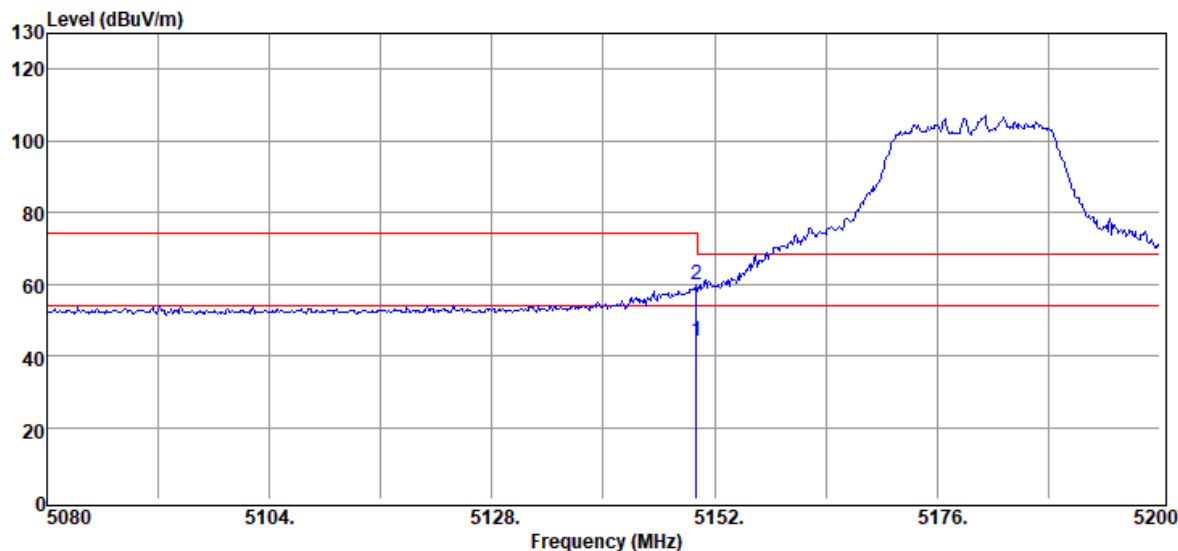
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Report Number :E2/2019/B0014  
 Operation Mode :802.11n20 / Band 1  
 Test Channel :5180 MHz  
 Test Mode :BE CH LOW  
 EUT Pol :E2 Plan

Test Date :2020-01-07  
 Temp./Humi. :22.1/67  
 Antenna Pol. :VERTICAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5150.00	Average	43.81	0.45	44.26	54.00	-9.74
5150.00	Peak	59.22	0.45	59.67	74.00	-14.33

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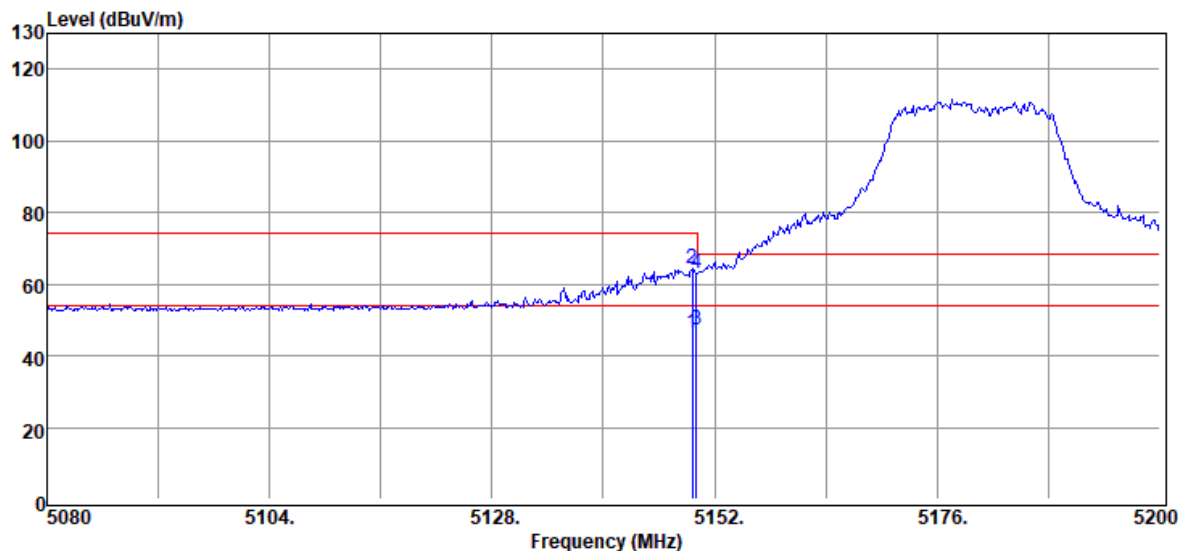
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Report Number :E2/2019/B0014  
 Operation Mode :802.11n20 / Band 1  
 Test Channel :5180 MHz  
 Test Mode :BE CH LOW  
 EUT Pol :E2 Plan

Test Date :2020-01-07  
 Temp./Humi. :22.1/67  
 Antenna Pol. :HORIZONTAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5149.60	Average	45.84	0.44	46.28	54.00	-7.72
5149.60	Peak	63.90	0.44	64.34	74.00	-9.66
5150.00	Average	46.62	0.45	47.07	54.00	-6.93
5150.00	Peak	62.51	0.45	62.96	74.00	-11.04

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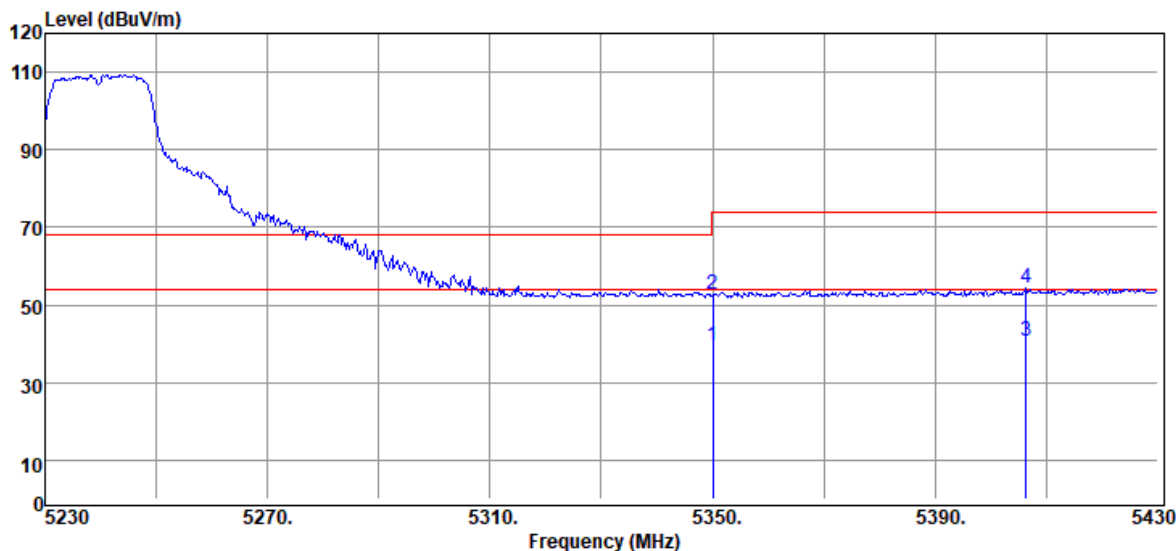
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Report Number :E2/2019/B0014  
 Operation Mode :802.11n20 / Band 1  
 Test Channel :5240 MHz  
 Test Mode :BE CH HIGH  
 EUT Pol :E2 Plan

Test Date :2020-01-07  
 Temp./Humi. :22.1/67  
 Antenna Pol. :VERTICAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	Average	39.48	0.17	39.65	54.00	-14.35
5350.00	Peak	52.39	0.17	52.56	74.00	-21.44
5406.40	Average	39.89	0.83	40.72	54.00	-13.28
5406.40	Peak	53.55	0.83	54.38	74.00	-19.62

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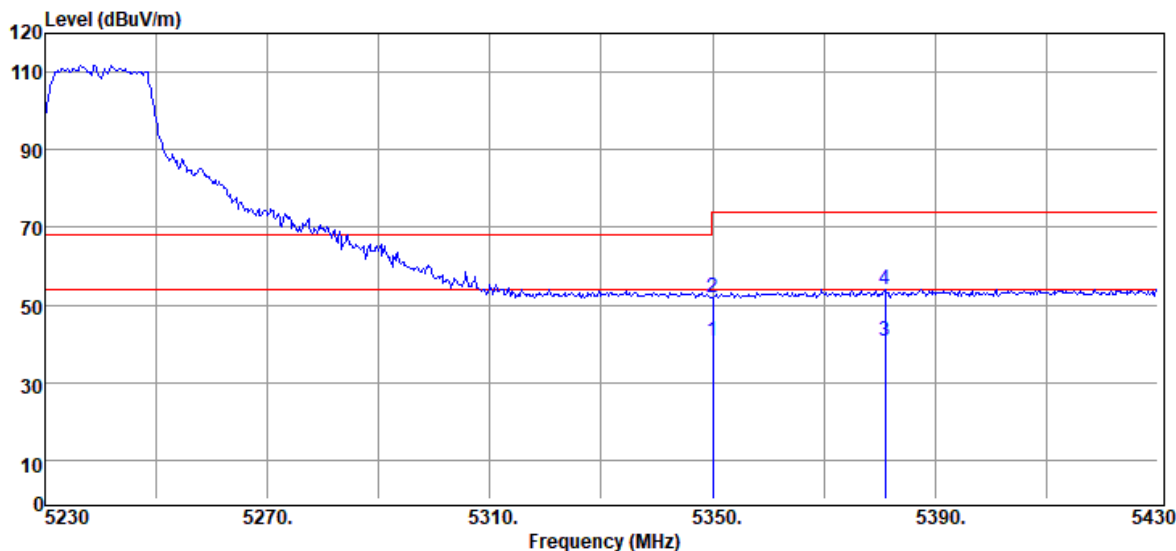
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Report Number :E2/2019/B0014  
 Operation Mode :802.11n20 / Band 1  
 Test Channel :5240 MHz  
 Test Mode :BE CH HIGH  
 EUT Pol :E2 Plan

Test Date :2020-01-07  
 Temp./Humi. :22.1/67  
 Antenna Pol. :HORIZONTAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	Average	40.62	0.17	40.79	54.00	-13.21
5350.00	Peak	51.65	0.17	51.82	74.00	-22.18
5381.00	Average	40.26	0.54	40.80	54.00	-13.20
5381.00	Peak	53.52	0.54	54.06	74.00	-19.94

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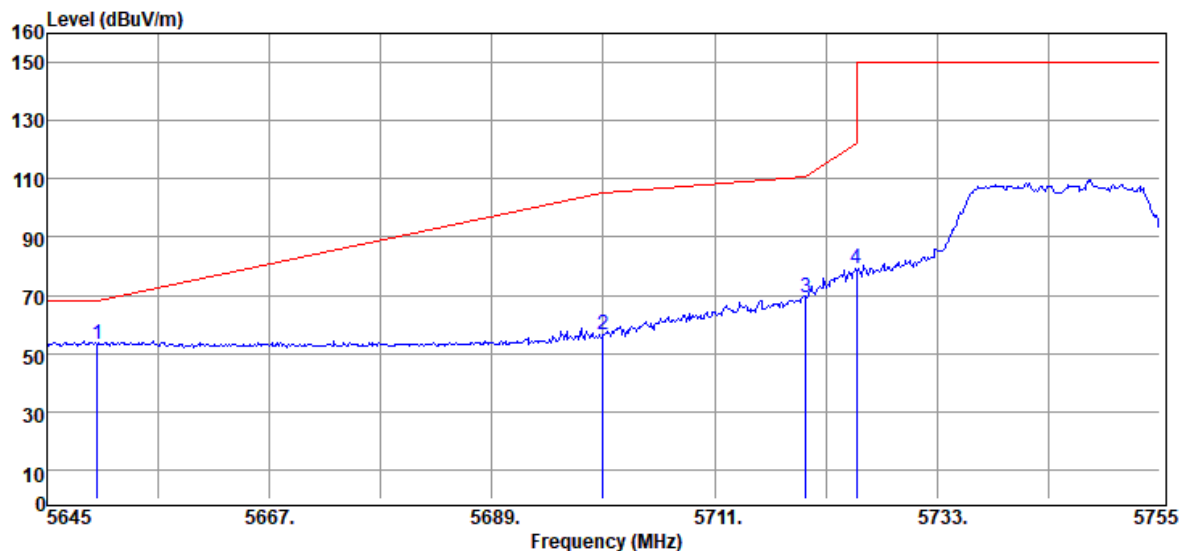
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Report Number :E2/2019/B0014  
Operation Mode :802.11n20 / Band 4  
Test Channel :5745 MHz  
Test Mode :BE CH LOW  
EUT Pol :E2 Plan

Test Date :2020-01-07  
Temp./Humi. :22.1/67  
Antenna Pol. :VERTICAL  
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	52.43	0.69	53.12	68.20	-15.08
5700.00	Peak	55.65	1.00	56.65	105.20	-48.55
5720.00	Peak	68.04	0.99	69.03	110.80	-41.77
5725.00	Peak	78.25	0.98	79.23	122.20	-42.97

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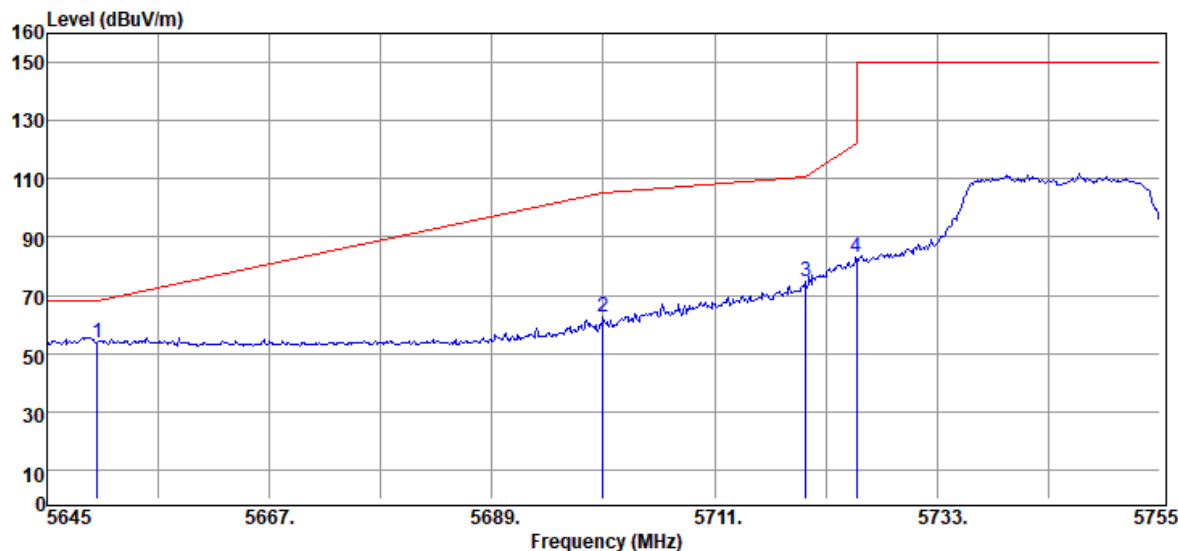
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Report Number :E2/2019/B0014  
 Operation Mode :802.11n20 / Band 4  
 Test Channel :5745 MHz  
 Test Mode :BE CH LOW  
 EUT Pol :E2 Plan

Test Date :2020-01-07  
 Temp./Humi. :22.1/67  
 Antenna Pol. :HORIZONTAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	53.21	0.69	53.90	68.20	-14.30
5700.00	Peak	61.41	1.00	62.41	105.20	-42.79
5720.00	Peak	73.86	0.99	74.85	110.80	-35.95
5725.00	Peak	82.31	0.98	83.29	122.20	-38.91

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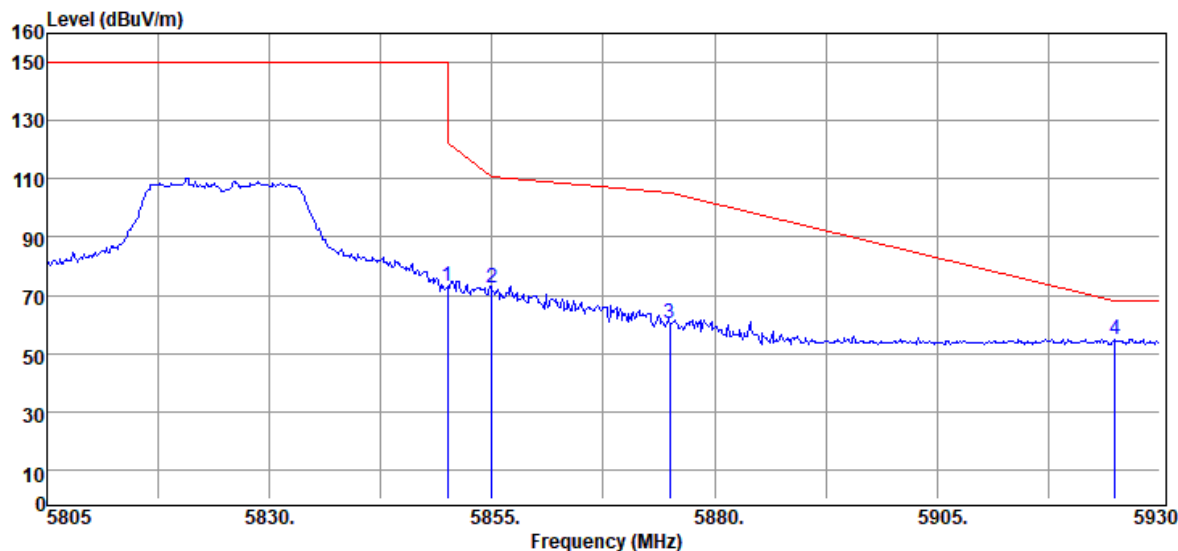
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Report Number :E2/2019/B0014  
Operation Mode :802.11n20 / Band 4  
Test Channel :5825 MHz  
Test Mode :BE CH HIGH  
EUT Pol :E2 Plan

Test Date :2020-01-07  
Temp./Humi. :22.1/67  
Antenna Pol. :VERTICAL  
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	72.14	1.13	73.27	122.20	-48.93
5855.00	Peak	71.33	1.16	72.49	110.80	-38.31
5875.00	Peak	59.19	1.31	60.50	105.20	-44.70
5925.00	Peak	53.18	1.37	54.55	68.20	-13.65

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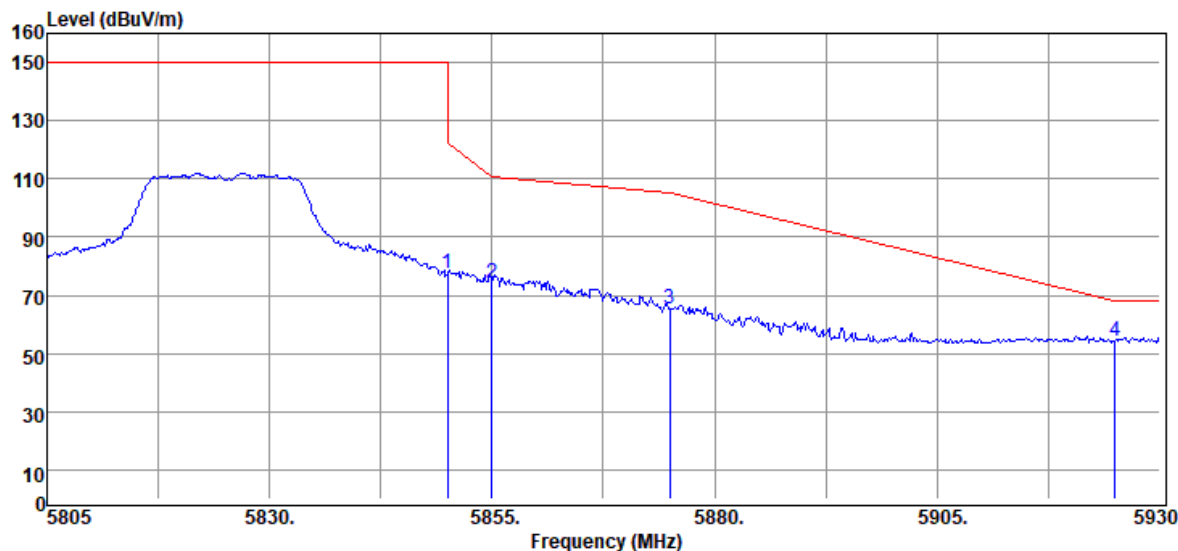
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Report Number :E2/2019/B0014  
 Operation Mode :802.11n20 / Band 4  
 Test Channel :5825 MHz  
 Test Mode :BE CH HIGH  
 EUT Pol :E2 Plan

Test Date :2020-01-07  
 Temp./Humi. :22.1/67  
 Antenna Pol. :HORIZONTAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	76.32	1.13	77.45	122.20	-44.75
5855.00	Peak	73.07	1.16	74.23	110.80	-36.57
5875.00	Peak	64.06	1.31	65.37	105.20	-39.83
5925.00	Peak	52.82	1.37	54.19	68.20	-14.01

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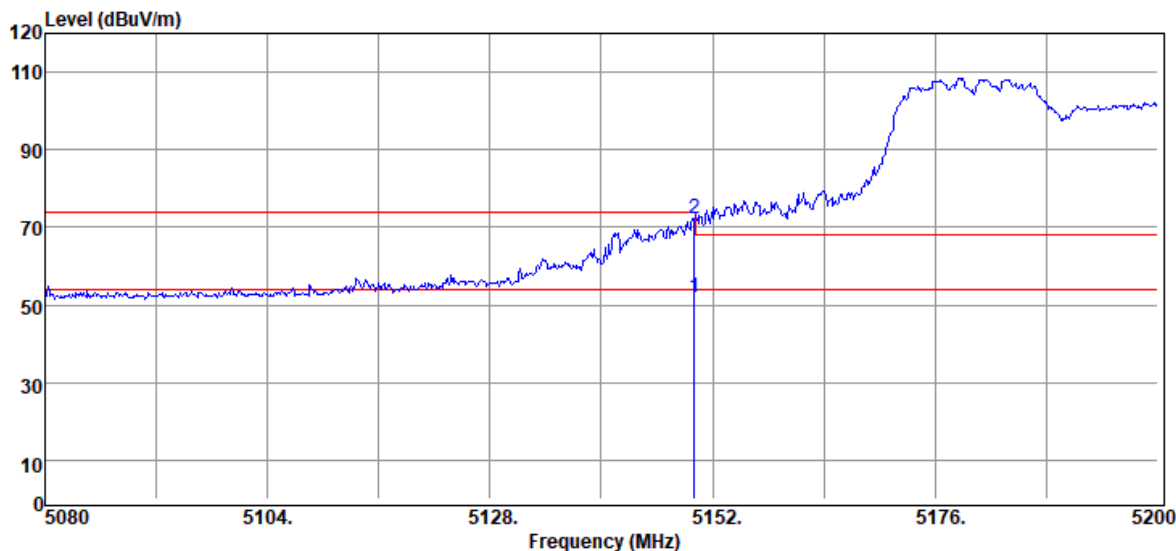
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Report Number :E2/2019/B0014  
 Operation Mode :802.11n40 / Band 1  
 Test Channel :5190 MHz  
 Test Mode :BE CH LOW  
 EUT Pol :E2 Plan

Test Date :2020-01-07  
 Temp./Humi. :22.3/66  
 Antenna Pol. :VERTICAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5150.00	Average	51.27	0.45	51.72	54.00	-2.28
5150.00	Peak	71.94	0.45	72.39	74.00	-1.61

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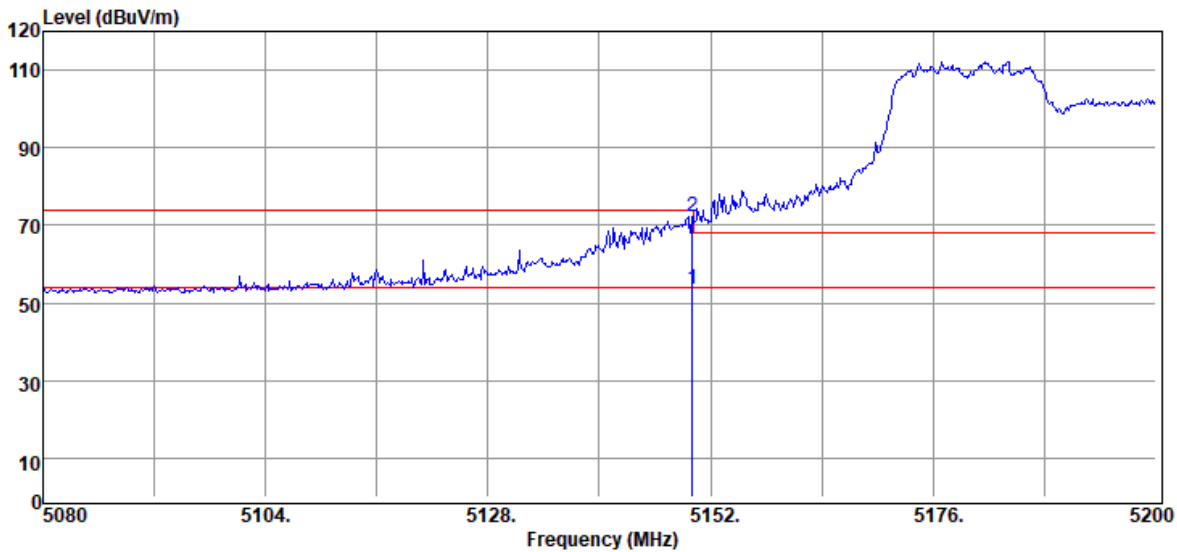
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Report Number :E2/2019/B0014  
 Operation Mode :802.11n40 / Band 1  
 Test Channel :5190 MHz  
 Test Mode :BE CH LOW  
 EUT Pol :E2 Plan

Test Date :2020-01-07  
 Temp./Humi. :22.3/66  
 Antenna Pol. :HORIZONTAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5150.00	Average	52.93	0.45	53.38	54.00	-0.62
5150.00	Peak	71.98	0.45	72.43	74.00	-1.57

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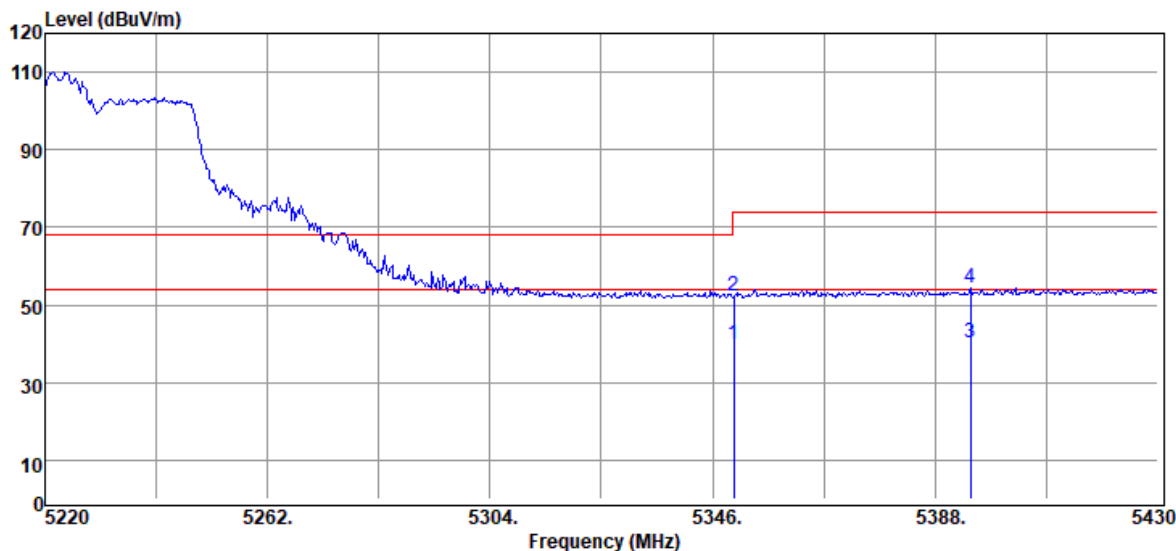
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Report Number :E2/2019/B0014  
Operation Mode :802.11n40 / Band 1  
Test Channel :5230 MHz  
Test Mode :BE CH HIGH  
EUT Pol :E2 Plan

Test Date :2020-01-07  
Temp./Humi. :22.3/66  
Antenna Pol. :VERTICAL  
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	Average	39.71	0.17	39.88	54.00	-14.12
5350.00	Peak	52.06	0.17	52.23	74.00	-21.77
5394.72	Average	39.75	0.70	40.45	54.00	-13.55
5394.72	Peak	53.53	0.70	54.23	74.00	-19.77

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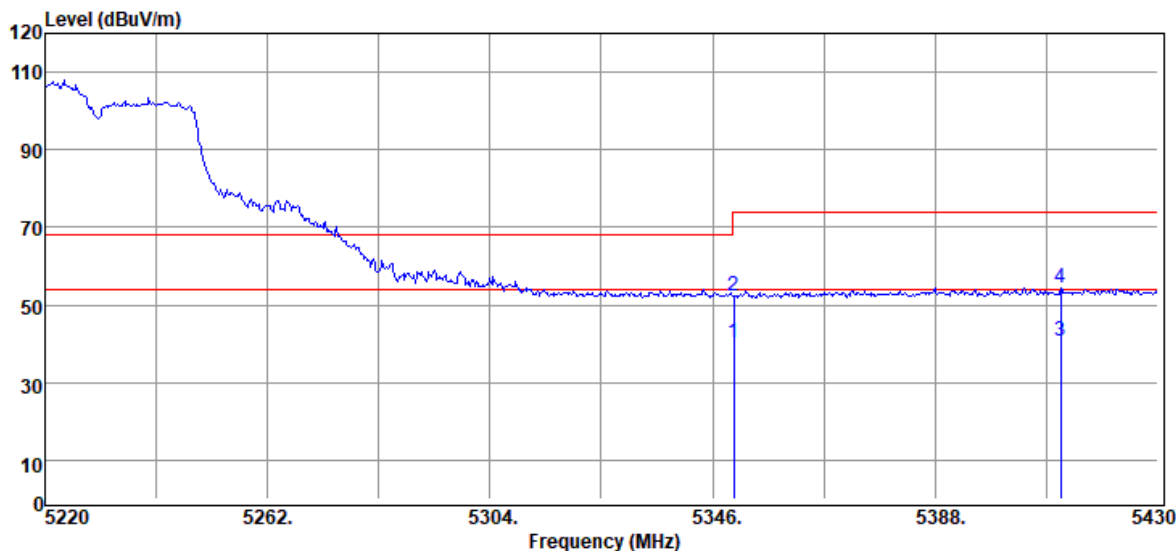
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Report Number :E2/2019/B0014  
Operation Mode :802.11n40 / Band 1  
Test Channel :5230 MHz  
Test Mode :BE CH HIGH  
EUT Pol :E2 Plan

Test Date :2020-01-07  
Temp./Humi. :22.3/66  
Antenna Pol. :HORIZONTAL  
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	Average	40.12	0.17	40.29	54.00	-13.71
5350.00	Peak	51.98	0.17	52.15	74.00	-21.85
5411.73	Average	39.80	0.88	40.68	54.00	-13.32
5411.73	Peak	53.44	0.88	54.32	74.00	-19.68

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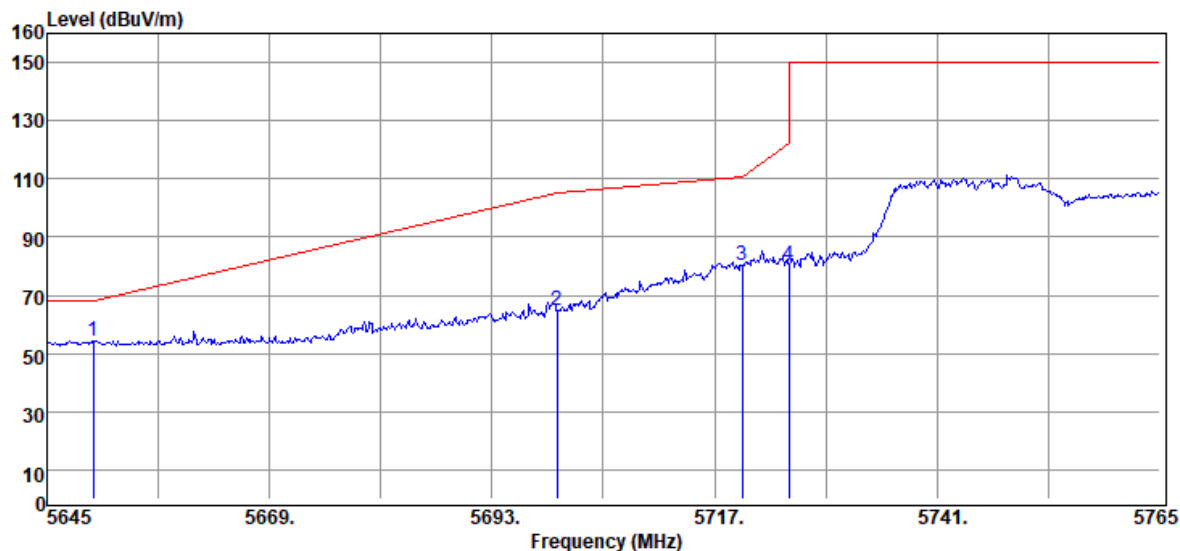
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Report Number :E2/2019/B0014  
 Operation Mode :802.11n40 / Band 4  
 Test Channel :5755 MHz  
 Test Mode :BE CH LOW  
 EUT Pol :E2 Plan

Test Date :2020-01-07  
 Temp./Humi. :22.3/66  
 Antenna Pol. :VERTICAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	53.55	0.69	54.24	68.20	-13.96
5700.00	Peak	63.92	1.00	64.92	105.20	-40.28
5720.00	Peak	79.03	0.99	80.02	110.80	-30.78
5725.00	Peak	79.56	0.98	80.54	122.20	-41.66

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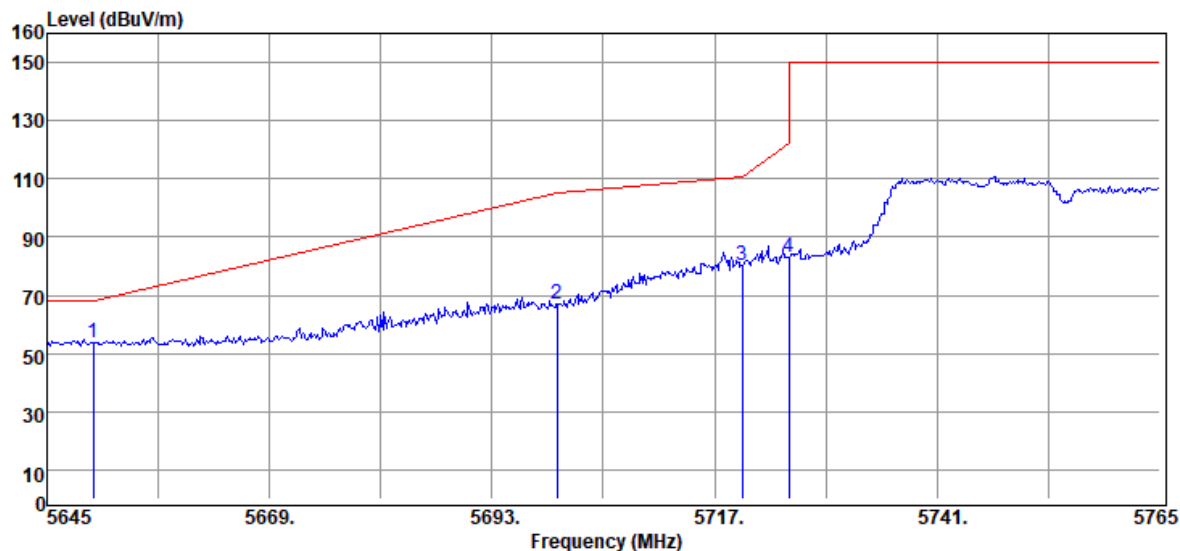
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Report Number :E2/2019/B0014  
 Operation Mode :802.11n40 / Band 4  
 Test Channel :5755 MHz  
 Test Mode :BE CH LOW  
 EUT Pol :E2 Plan

Test Date :2020-01-07  
 Temp./Humi. :22.3/66  
 Antenna Pol. :HORIZONTAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	52.88	0.69	53.57	68.20	-14.63
5700.00	Peak	65.92	1.00	66.92	105.20	-38.28
5720.00	Peak	79.56	0.99	80.55	110.80	-30.25
5725.00	Peak	82.24	0.98	83.22	122.20	-38.98

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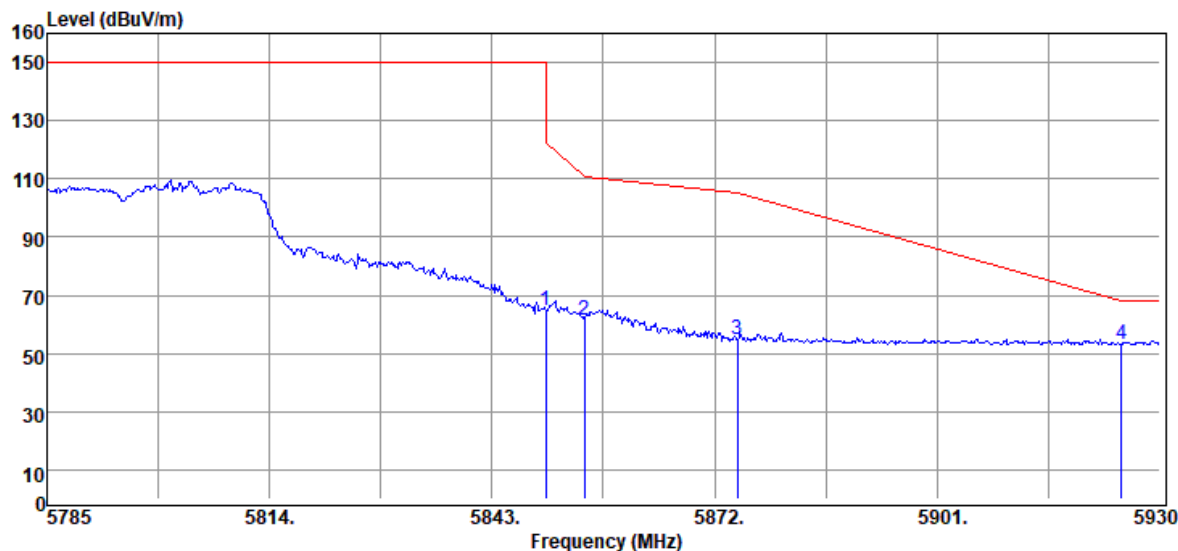
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Report Number :E2/2019/B0014  
 Operation Mode :802.11n40 / Band 4  
 Test Channel :5795 MHz  
 Test Mode :BE CH HIGH  
 EUT Pol :E2 Plan

Test Date :2020-01-07  
 Temp./Humi. :22.3/66  
 Antenna Pol. :VERTICAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	63.48	1.13	64.61	122.20	-57.59
5855.00	Peak	60.07	1.16	61.23	110.80	-49.57
5875.00	Peak	53.66	1.31	54.97	105.20	-50.23
5925.00	Peak	51.86	1.37	53.23	68.20	-14.97

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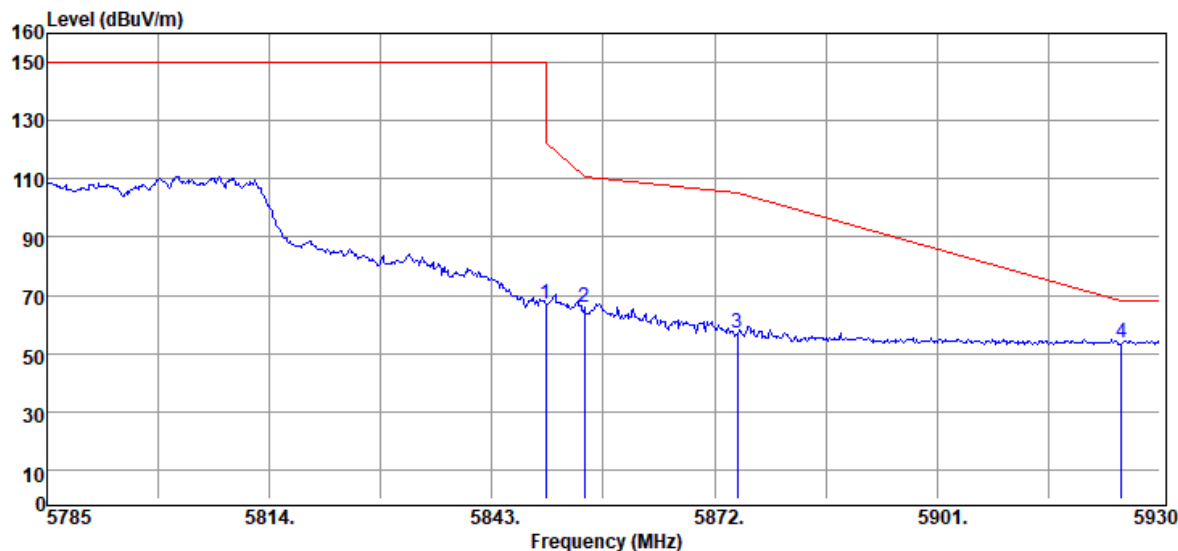
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Report Number :E2/2019/B0014  
 Operation Mode :802.11n40 / Band 4  
 Test Channel :5795 MHz  
 Test Mode :BE CH HIGH  
 EUT Pol :E2 Plan

Test Date :2020-01-07  
 Temp./Humi. :22.3/66  
 Antenna Pol. :HORIZONTAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	65.97	1.13	67.10	122.20	-55.10
5855.00	Peak	64.74	1.16	65.90	110.80	-44.90
5875.00	Peak	55.87	1.31	57.18	105.20	-48.02
5925.00	Peak	52.25	1.37	53.62	68.20	-14.58

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Report Number :E2/2019/B0014

Test Date :2020-01-08

Operation Mode :802.11ac20 / Band 1

Temp./Humi. :21.7/63

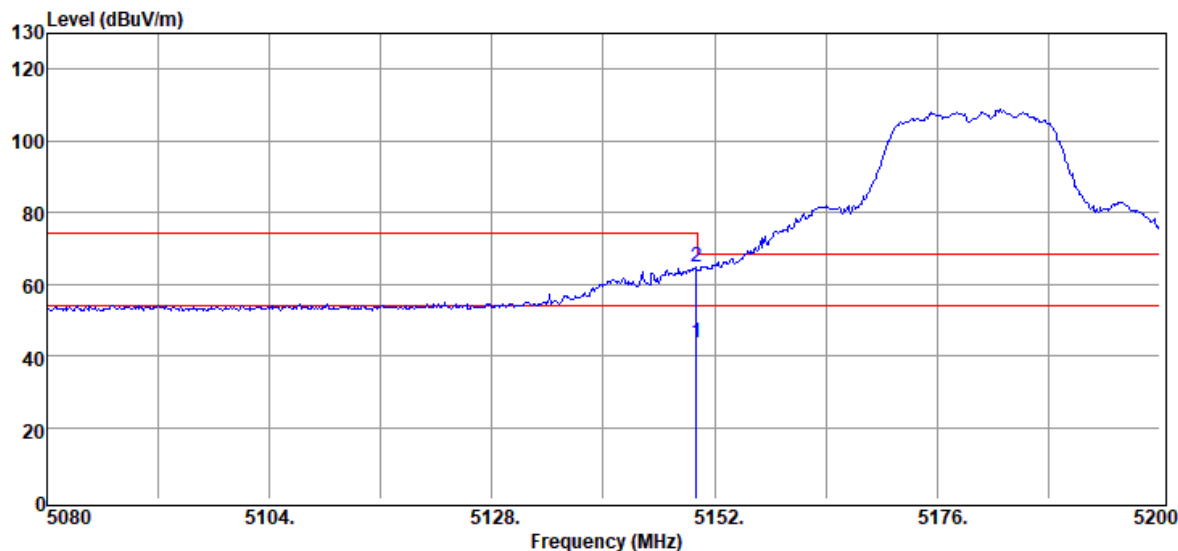
Test Channel :5180 MHz

Antenna Pol. :VERTICAL

Test Mode :BE CH LOW

Engineer :Kailin

EUT Pol :E2 Plan



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5150.00	Average	43.06	0.45	43.51	54.00	-10.49
5150.00	Peak	64.34	0.45	64.79	74.00	-9.21

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Report Number :E2/2019/B0014

Operation Mode :802.11ac20 / Band 1

Test Channel :5180 MHz

Test Mode :BE CH LOW

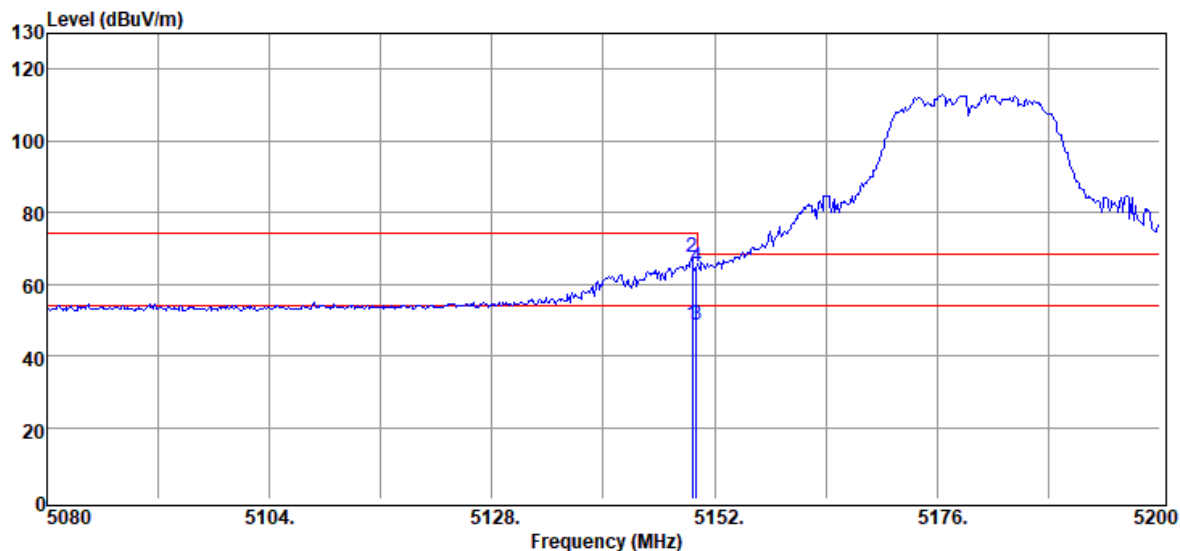
EUT Pol :E2 Plan

Test Date :2020-01-08

Temp./Humi. :21.7/63

Antenna Pol. :HORIZONTAL

Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5149.60	Average	47.95	0.44	48.39	54.00	-5.61
5149.60	Peak	67.01	0.44	67.45	74.00	-6.55
5150.00	Average	48.23	0.45	48.68	54.00	-5.32
5150.00	Peak	64.31	0.45	64.76	74.00	-9.24

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Test Date :2020-01-08

Operation Mode :802.11ac20 / Band 1

Temp./Humi. :21.7/63

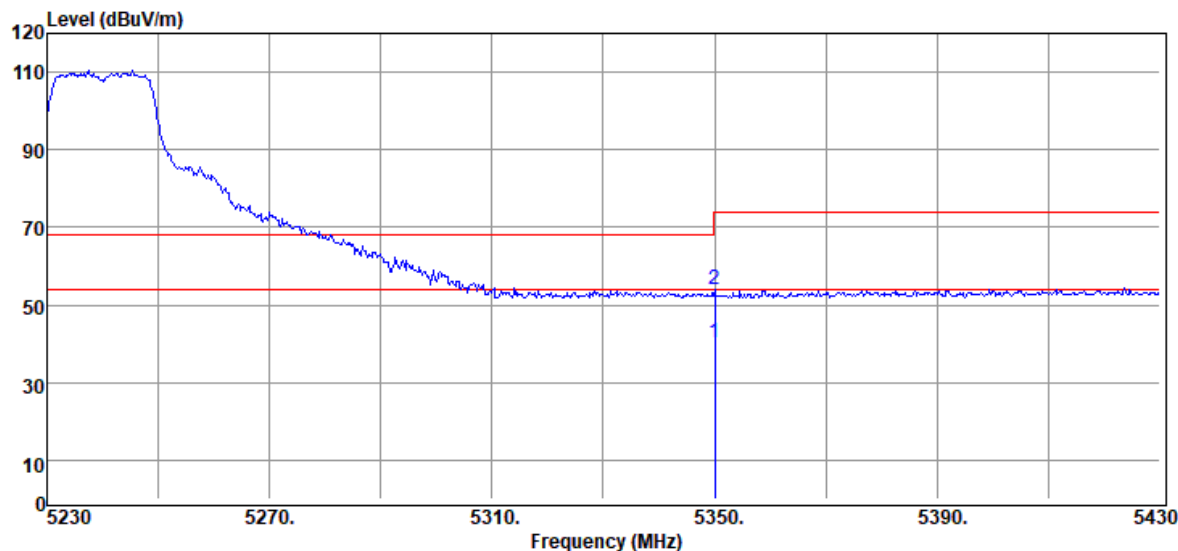
Test Channel :5240 MHz

Antenna Pol. :VERTICAL

Test Mode :BE CH HIGH

Engineer :Kailin

EUT Pol :E2 Plan



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	Average	40.06	0.17	40.23	54.00	-13.77
5350.00	Peak	53.64	0.17	53.81	74.00	-20.19

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Test Date :2020-01-08

Operation Mode :802.11ac20 / Band 1

Temp./Humi. :21.7/63

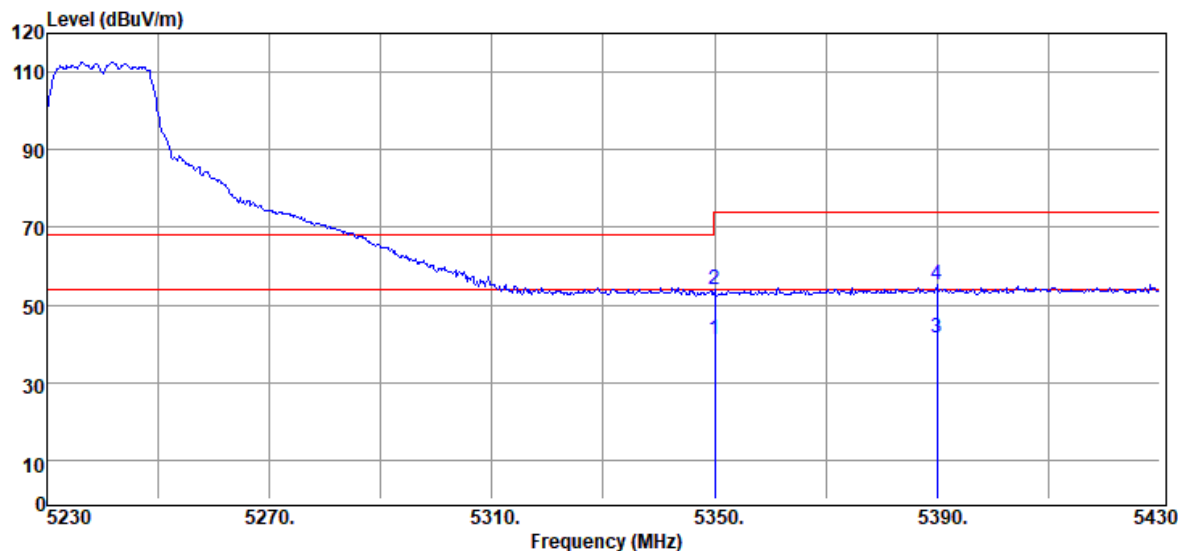
Test Channel :5240 MHz

Antenna Pol. :HORIZONTAL

Test Mode :BE CH HIGH

Engineer :Kailin

EUT Pol :E2 Plan



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	Average	41.06	0.17	41.23	54.00	-12.77
5350.00	Peak	53.88	0.17	54.05	74.00	-19.95
5390.00	Average	40.97	0.65	41.62	54.00	-12.38
5390.00	Peak	54.37	0.65	55.02	74.00	-18.98

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Report Number :E2/2019/B0014

Test Date :2020-01-08

Operation Mode :802.11ac20 / Band 4

Temp./Humi. :21.7/63

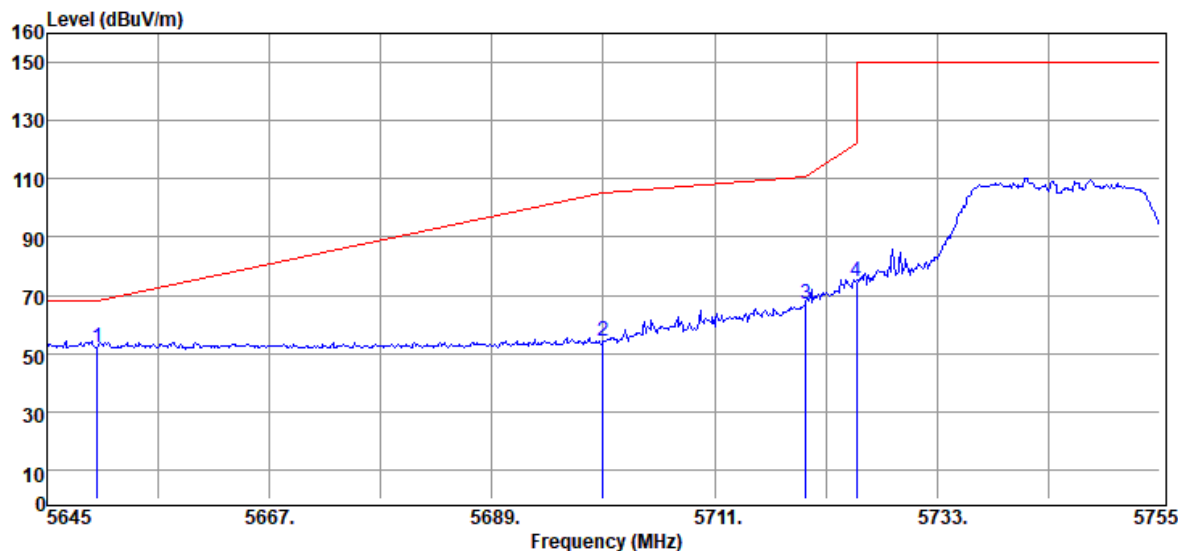
Test Channel :5745 MHz

Antenna Pol. :VERTICAL

Test Mode :BE CH LOW

Engineer :Kailin

EUT Pol :E2 Plan



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	51.53	0.69	52.22	68.20	-15.98
5700.00	Peak	53.52	1.00	54.52	105.20	-50.68
5720.00	Peak	65.97	0.99	66.96	110.80	-43.84
5725.00	Peak	73.98	0.98	74.96	122.20	-47.24

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Test Date :2020-01-08

Operation Mode :802.11ac20 / Band 4

Temp./Humi. :21.7/63

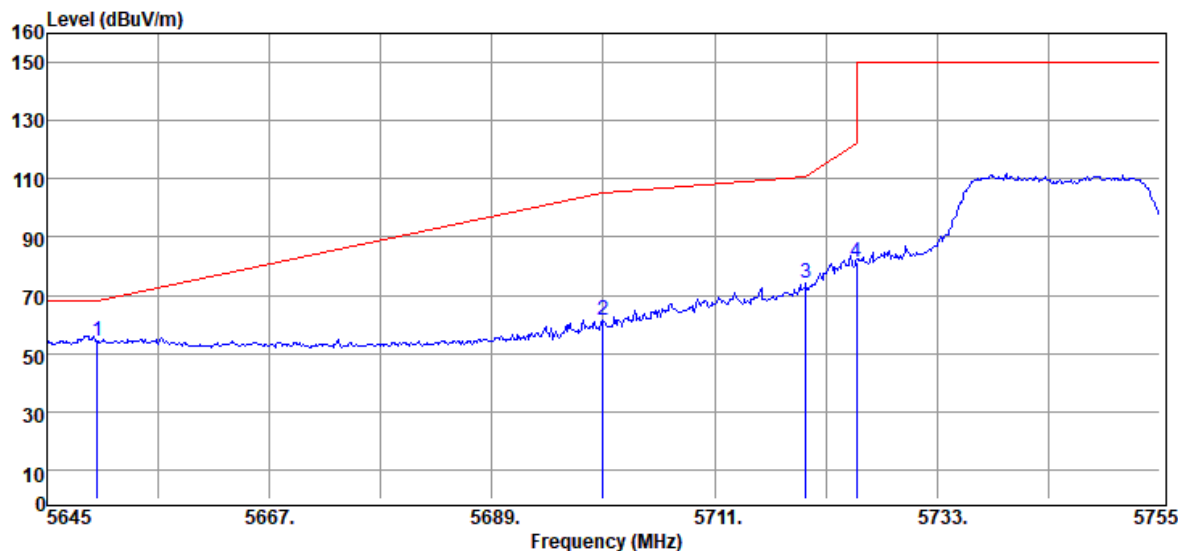
Test Channel :5745 MHz

Antenna Pol. :HORIZONTAL

Test Mode :BE CH LOW

Engineer :Kailin

EUT Pol :E2 Plan



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	53.78	0.69	54.47	68.20	-13.73
5700.00	Peak	60.49	1.00	61.49	105.20	-43.71
5720.00	Peak	73.28	0.99	74.27	110.80	-36.53
5725.00	Peak	80.39	0.98	81.37	122.20	-40.83

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Report Number :E2/2019/B0014

Test Date :2020-01-08

Operation Mode :802.11ac20 / Band 4

Temp./Humi. :21.7/63

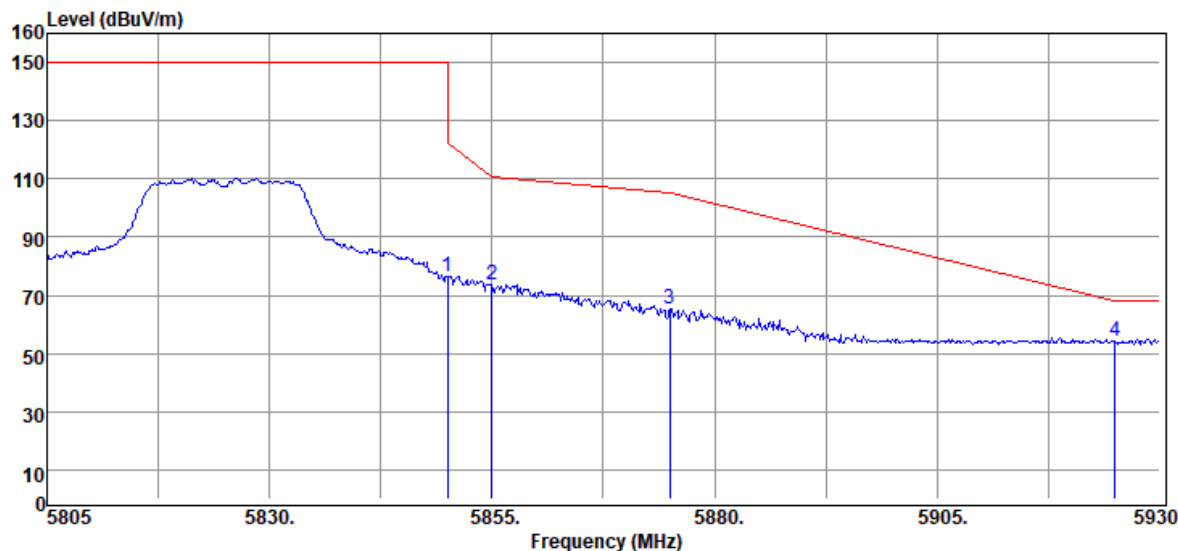
Test Channel :5825 MHz

Antenna Pol. :VERTICAL

Test Mode :BE CH HIGH

Engineer :Kailin

EUT Pol :E2 Plan



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	75.11	1.13	76.24	122.20	-45.96
5855.00	Peak	72.38	1.16	73.54	110.80	-37.26
5875.00	Peak	63.93	1.31	65.24	105.20	-39.96
5925.00	Peak	53.08	1.37	54.45	68.20	-13.75

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Operation Mode :802.11ac20 / Band 4

Temp./Humi. :21.7/63

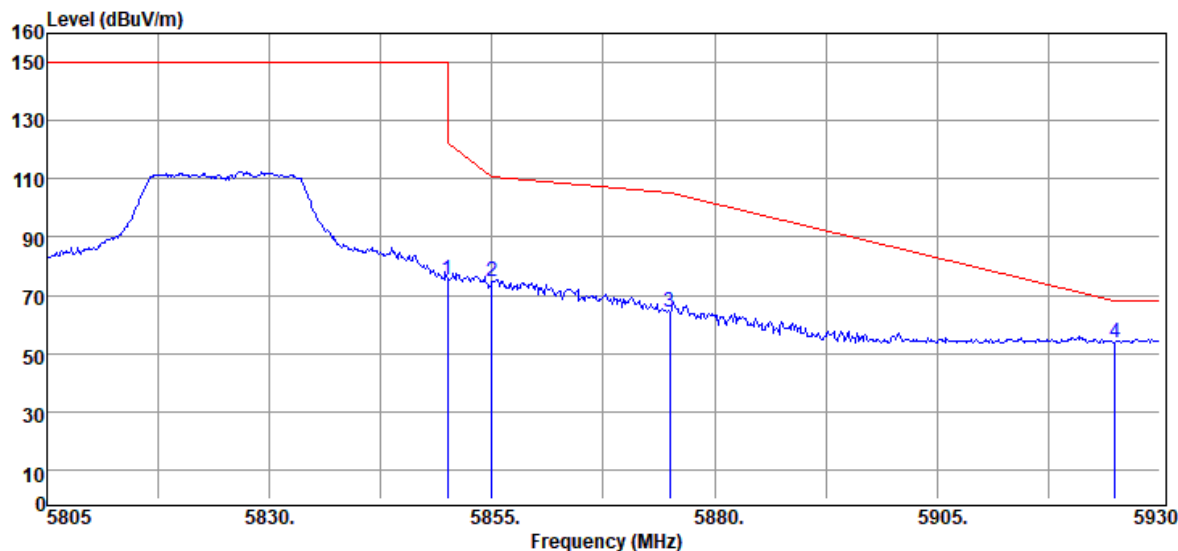
Test Channel :5825 MHz

Antenna Pol. :HORIZONTAL

Test Mode :BE CH HIGH

Engineer :Kailin

EUT Pol :E2 Plan



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	74.38	1.13	75.51	122.20	-46.69
5855.00	Peak	73.67	1.16	74.83	110.80	-35.97
5875.00	Peak	63.13	1.31	64.44	105.20	-40.76
5925.00	Peak	52.57	1.37	53.94	68.20	-14.26

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Report Number :E2/2019/B0014

Operation Mode :802.11ac40 / Band 1

Test Channel :5190 MHz

Test Mode :BE CH LOW

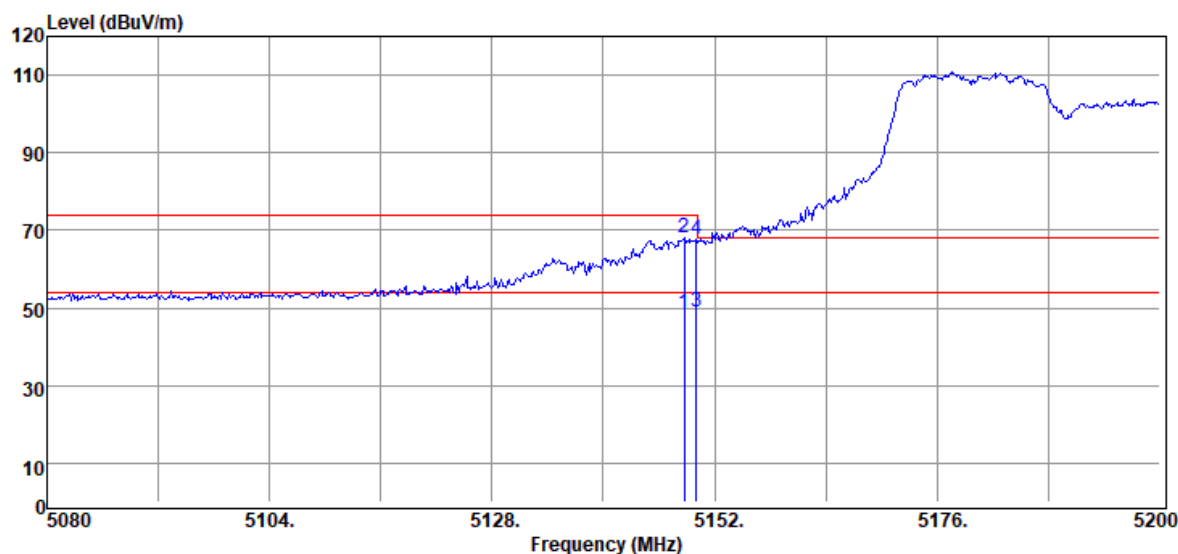
EUT Pol :E2 Plan

Test Date :2020-01-08

Temp./Humi. :21.7/63

Antenna Pol. :VERTICAL

Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5148.76	Average	48.26	0.44	48.70	54.00	-5.30
5148.76	Peak	67.51	0.44	67.95	74.00	-6.05
5150.00	Average	48.49	0.45	48.94	54.00	-5.06
5150.00	Peak	67.19	0.45	67.64	74.00	-6.36

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Report Number :E2/2019/B0014

Operation Mode :802.11ac40 / Band 1

Test Channel :5190 MHz

Test Mode :BE CH LOW

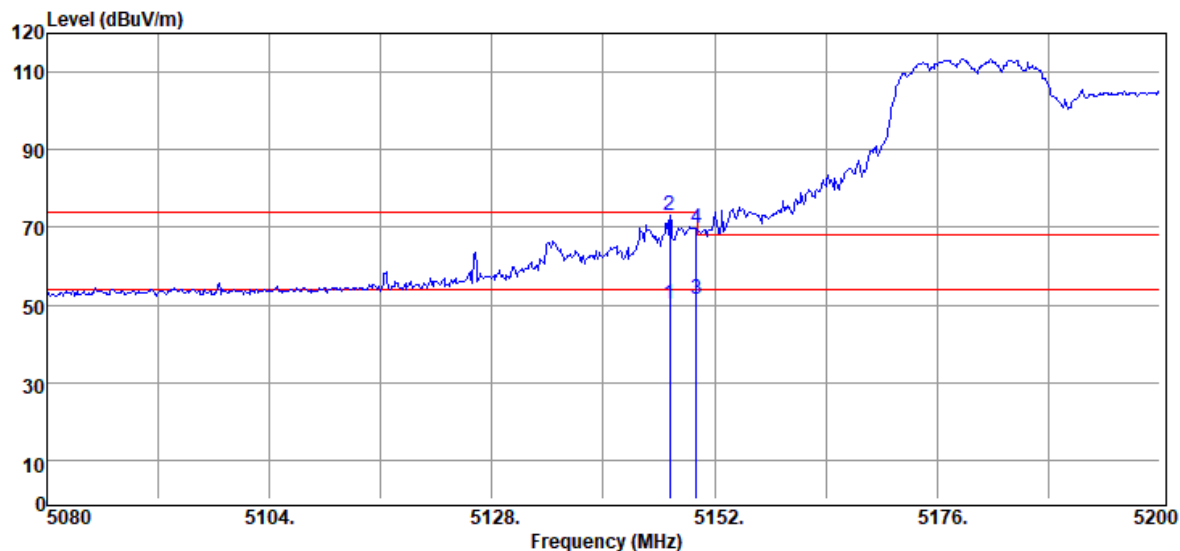
EUT Pol :E2 Plan

Test Date :2020-01-08

Temp./Humi. :21.7/63

Antenna Pol. :HORIZONTAL

Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5147.20	Average	49.88	0.43	50.31	54.00	-3.69
5147.20	Peak	72.76	0.43	73.19	74.00	-0.81
5150.00	Average	50.91	0.45	51.36	54.00	-2.64
5150.00	Peak	69.14	0.45	69.59	74.00	-4.41

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Report Number :E2/2019/B0014

Test Date :2020-01-08

Operation Mode :802.11ac40 / Band 1

Temp./Humi. :21.7/63

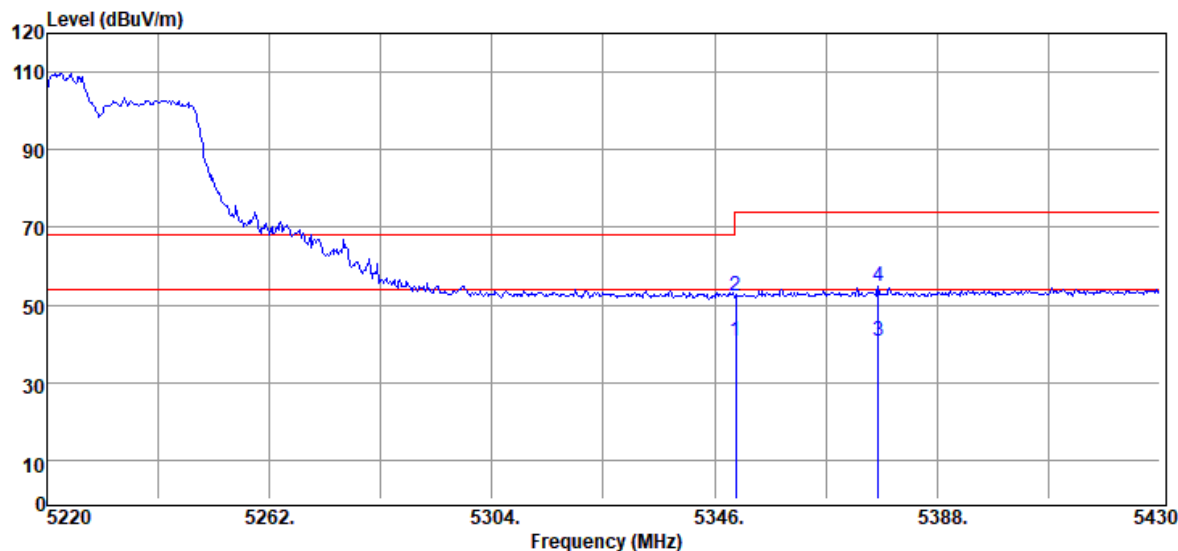
Test Channel :5230 MHz

Antenna Pol. :VERTICAL

Test Mode :BE CH HIGH

Engineer :Kailin

EUT Pol :E2 Plan



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	Average	40.71	0.17	40.88	54.00	-13.12
5350.00	Peak	52.18	0.17	52.35	74.00	-21.65
5376.87	Average	40.15	0.49	40.64	54.00	-13.36
5376.87	Peak	54.25	0.49	54.74	74.00	-19.26

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Operation Mode :802.11ac40 / Band 1

Test Channel :5230 MHz

Test Mode :BE CH HIGH

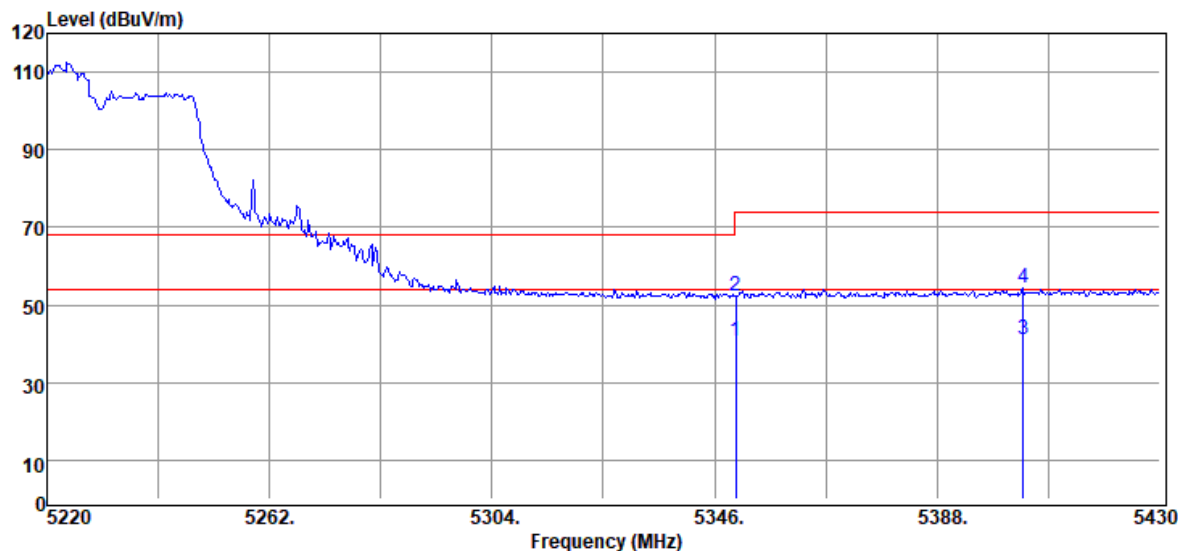
EUT Pol :E2 Plan

Test Date :2020-01-08

Temp./Humi. :21.7/63

Antenna Pol. :HORIZONTAL

Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	Average	40.51	0.17	40.68	54.00	-13.32
5350.00	Peak	52.08	0.17	52.25	74.00	-21.75
5404.17	Average	40.22	0.81	41.03	54.00	-12.97
5404.17	Peak	53.58	0.81	54.39	74.00	-19.61

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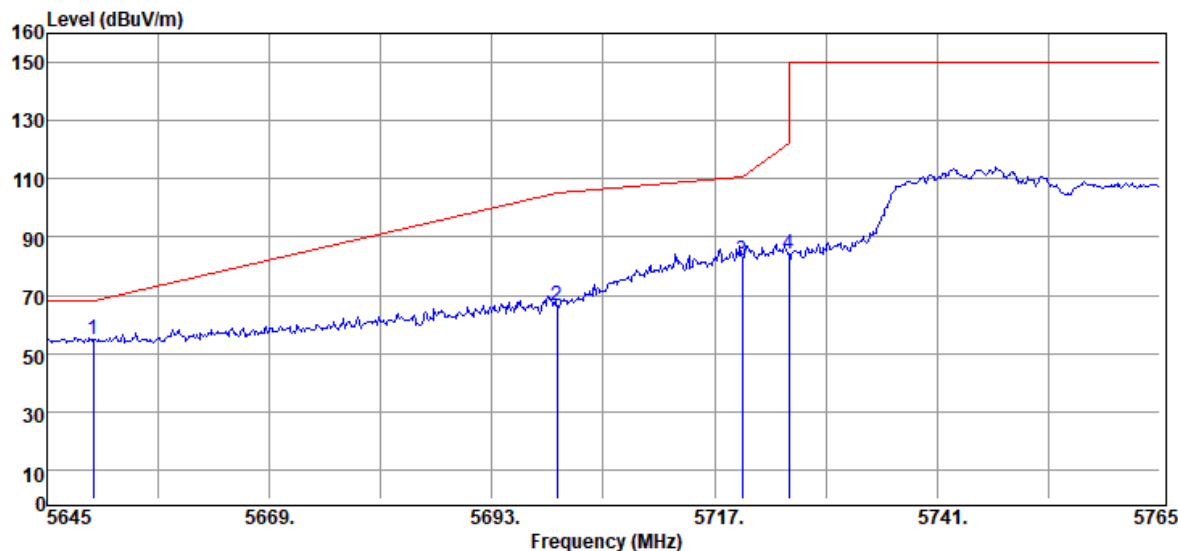
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Report Number :E2/2019/B0014  
 Operation Mode :802.11ac40 / Band 4  
 Test Channel :5755 MHz  
 Test Mode :BE CH LOW  
 EUT Pol :E2 Plan

Test Date :2020-01-08  
 Temp./Humi. :21.5/64  
 Antenna Pol. :VERTICAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	54.07	0.69	54.76	68.20	-13.44
5700.00	Peak	65.50	1.00	66.50	105.20	-38.70
5720.00	Peak	80.99	0.99	81.98	110.80	-28.82
5725.00	Peak	82.99	0.98	83.97	122.20	-38.23

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Report Number :E2/2019/B0014

Operation Mode :802.11ac40 / Band 4

Test Channel :5755 MHz

Test Mode :BE CH LOW

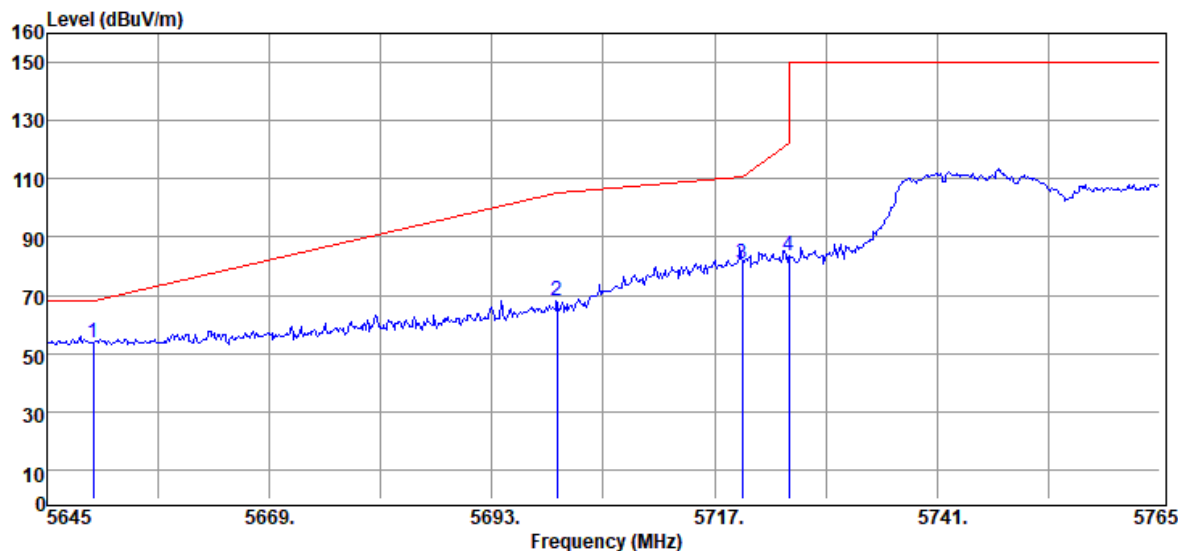
EUT Pol :E2 Plan

Test Date :2020-01-08

Temp./Humi. :21.5/64

Antenna Pol. :HORIZONTAL

Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	52.98	0.69	53.67	68.20	-14.53
5700.00	Peak	66.86	1.00	67.86	105.20	-37.34
5720.00	Peak	80.11	0.99	81.10	110.80	-29.70
5725.00	Peak	82.86	0.98	83.84	122.20	-38.36

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Report Number :E2/2019/B0014

Test Date :2020-01-08

Operation Mode :802.11ac40 / Band 4

Temp./Humi. :21.5/64

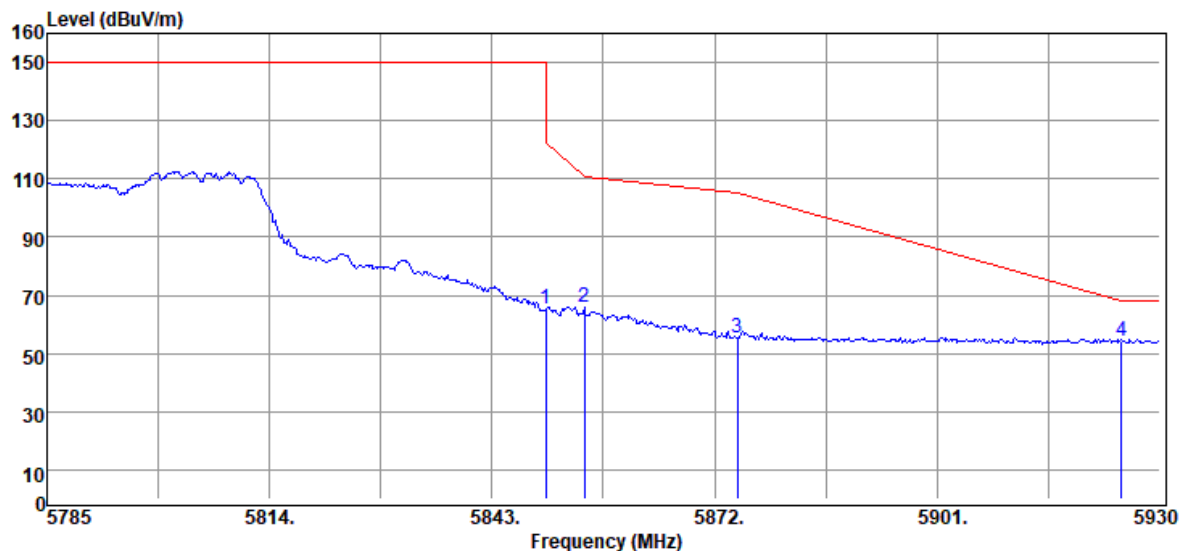
Test Channel :5795 MHz

Antenna Pol. :VERTICAL

Test Mode :BE CH HIGH

Engineer :Kailin

EUT Pol :E2 Plan



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	64.31	1.13	65.44	122.20	-56.76
5855.00	Peak	64.45	1.16	65.61	110.80	-45.19
5875.00	Peak	54.11	1.31	55.42	105.20	-49.78
5925.00	Peak	53.11	1.37	54.48	68.20	-13.72

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Report Number :E2/2019/B0014

Operation Mode :802.11ac40 / Band 4

Test Channel :5795 MHz

Test Mode :BE CH HIGH

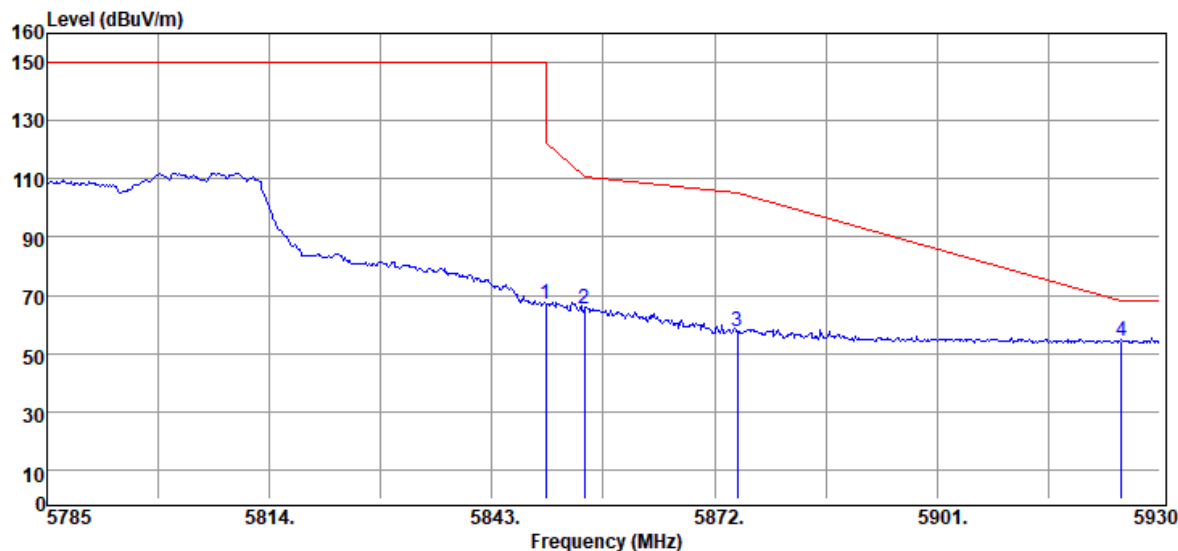
EUT Pol :E2 Plan

Test Date :2020-01-08

Temp./Humi. :21.5/64

Antenna Pol. :HORIZONTAL

Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	65.86	1.13	66.99	122.20	-55.21
5855.00	Peak	64.18	1.16	65.34	110.80	-45.46
5875.00	Peak	56.17	1.31	57.48	105.20	-47.72
5925.00	Peak	53.10	1.37	54.47	68.20	-13.73

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Report Number :E2/2019/B0014

Operation Mode :802.11ac80 / Band 1

Test Channel :5210 MHz

Test Mode :BE CH LOW

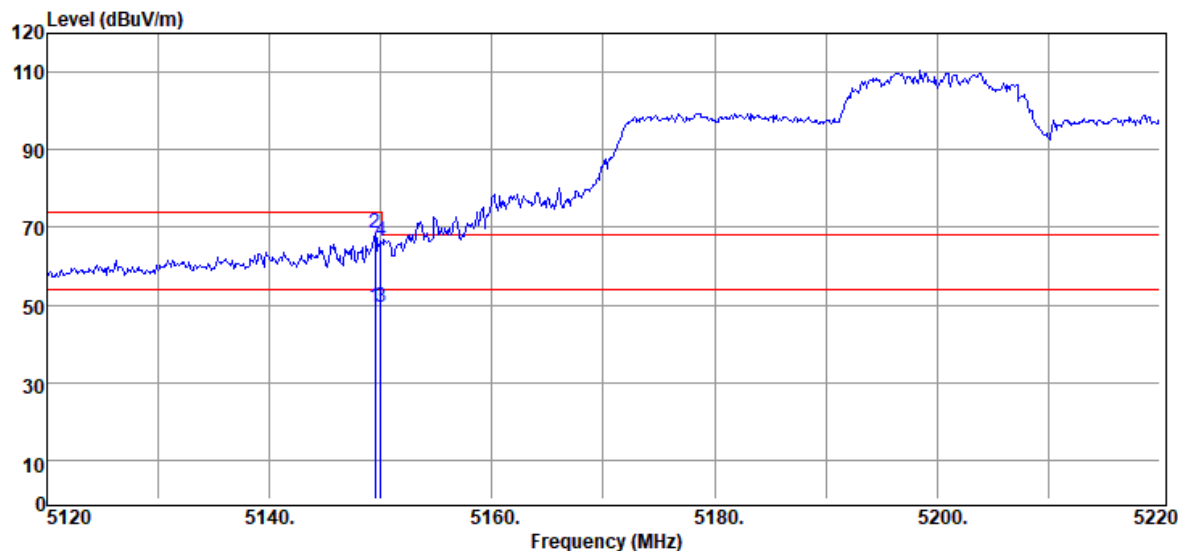
EUT Pol :E2 Plan

Test Date :2020-01-08

Temp./Humi. :21.5/64

Antenna Pol. :VERTICAL

Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5149.50	Average	48.92	0.44	49.36	54.00	-4.64
5149.50	Peak	68.12	0.44	68.56	74.00	-5.44
5150.00	Average	48.97	0.45	49.42	54.00	-4.58
5150.00	Peak	65.87	0.45	66.32	74.00	-7.68

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Report Number :E2/2019/B0014

Test Date :2020-01-08

Operation Mode :802.11ac80 / Band 1

Temp./Humi. :21.5/64

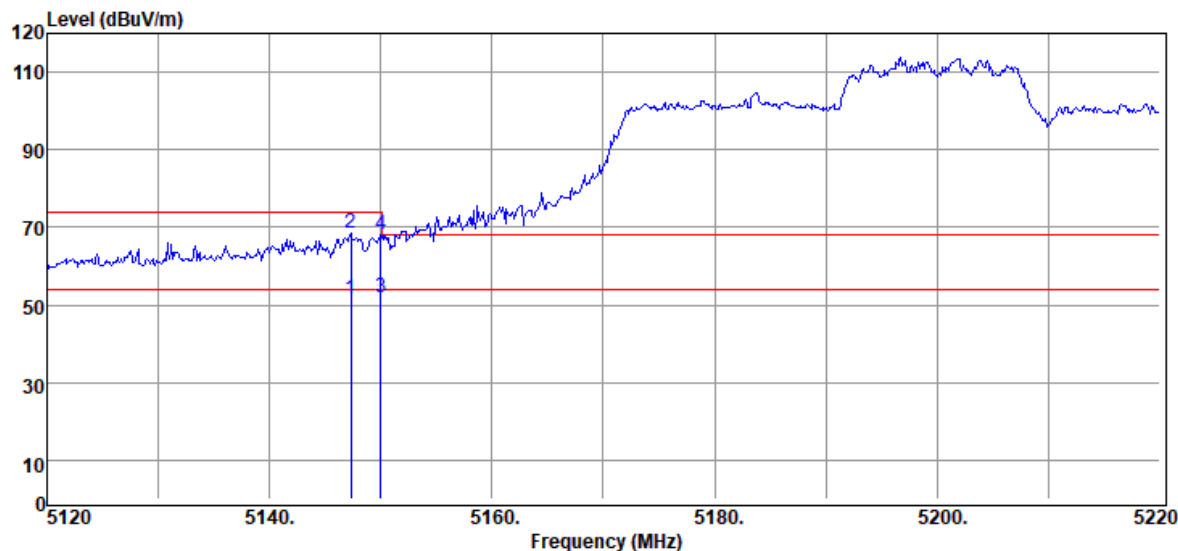
Test Channel :5210 MHz

Antenna Pol. :HORIZONTAL

Test Mode :BE CH LOW

Engineer :Kailin

EUT Pol :E2 Plan



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5147.30	Average	50.97	0.43	51.40	54.00	-2.60
5147.30	Peak	67.96	0.43	68.39	74.00	-5.61
5150.00	Average	51.38	0.45	51.83	54.00	-2.17
5150.00	Peak	67.64	0.45	68.09	74.00	-5.91

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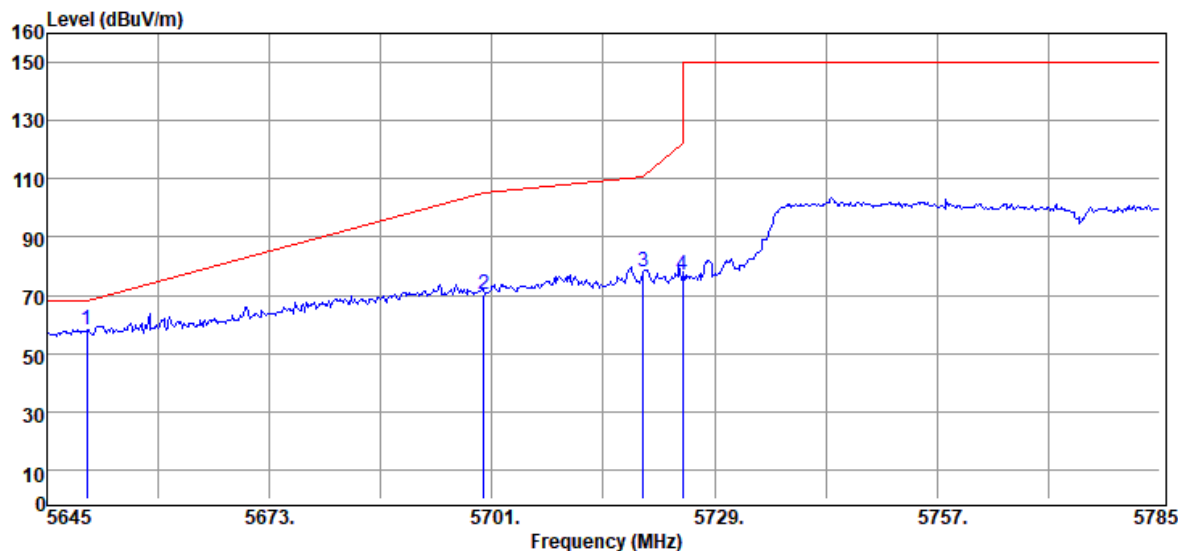
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Report Number :E2/2019/B0014  
 Operation Mode :802.11ac80 / Band 4  
 Test Channel :5775 MHz  
 Test Mode :BE CH LOW  
 EUT Pol :E2 Plan

Test Date :2020-01-08  
 Temp./Humi. :21.5/64  
 Antenna Pol. :VERTICAL  
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	57.41	0.69	58.10	68.20	-10.10
5700.00	Peak	69.25	1.00	70.25	105.20	-34.95
5720.00	Peak	77.11	0.99	78.10	110.80	-32.70
5725.00	Peak	75.77	0.98	76.75	122.20	-45.45

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Test Date :2020-01-08

Operation Mode :802.11ac80 / Band 4

Temp./Humi. :21.5/64

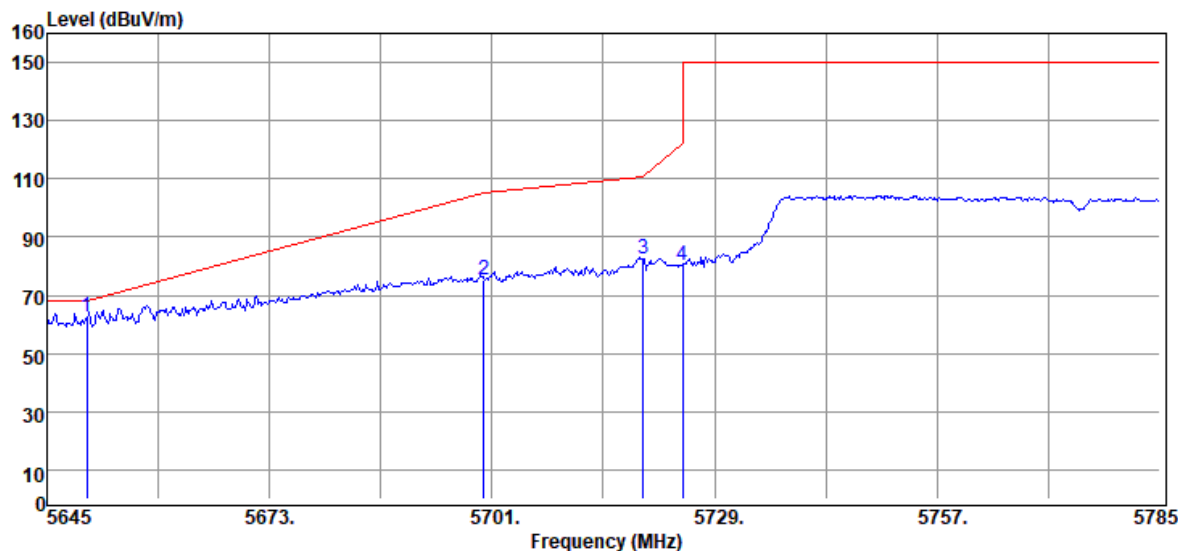
Test Channel :5775 MHz

Antenna Pol. :HORIZONTAL

Test Mode :BE CH LOW

Engineer :Kailin

EUT Pol :E2 Plan



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	61.76	0.69	62.45	68.20	-5.75
5700.00	Peak	74.23	1.00	75.23	105.20	-29.97
5720.00	Peak	81.44	0.99	82.43	110.80	-28.37
5725.00	Peak	79.49	0.98	80.47	122.20	-41.73

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Report Number :E2/2019/B0014

Test Date :2020-01-08

Operation Mode :802.11ac80 / Band 4

Temp./Humi. :21.5/64

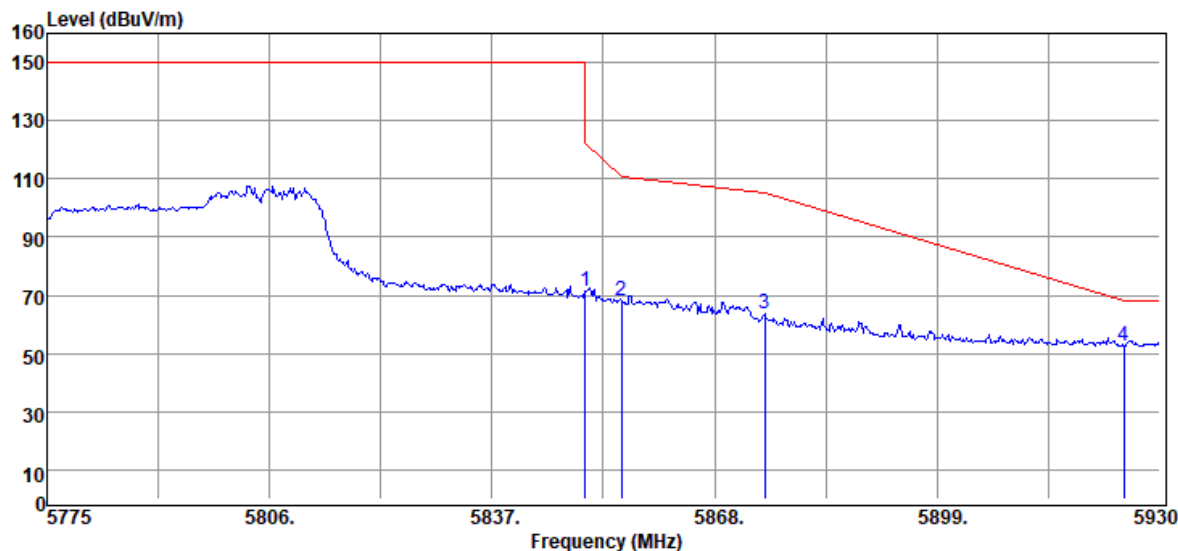
Test Channel :5775 MHz

Antenna Pol. :VERTICAL

Test Mode :BE CH HIGH

Engineer :Kailin

EUT Pol :E2 Plan



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	70.08	1.13	71.21	122.20	-50.99
5855.00	Peak	66.79	1.16	67.95	110.80	-42.85
5875.00	Peak	62.56	1.31	63.87	105.20	-41.33
5925.00	Peak	51.17	1.37	52.54	68.20	-15.66

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Operation Mode :802.11ac80 / Band 4

Test Channel :5775 MHz

Test Mode :BE CH HIGH

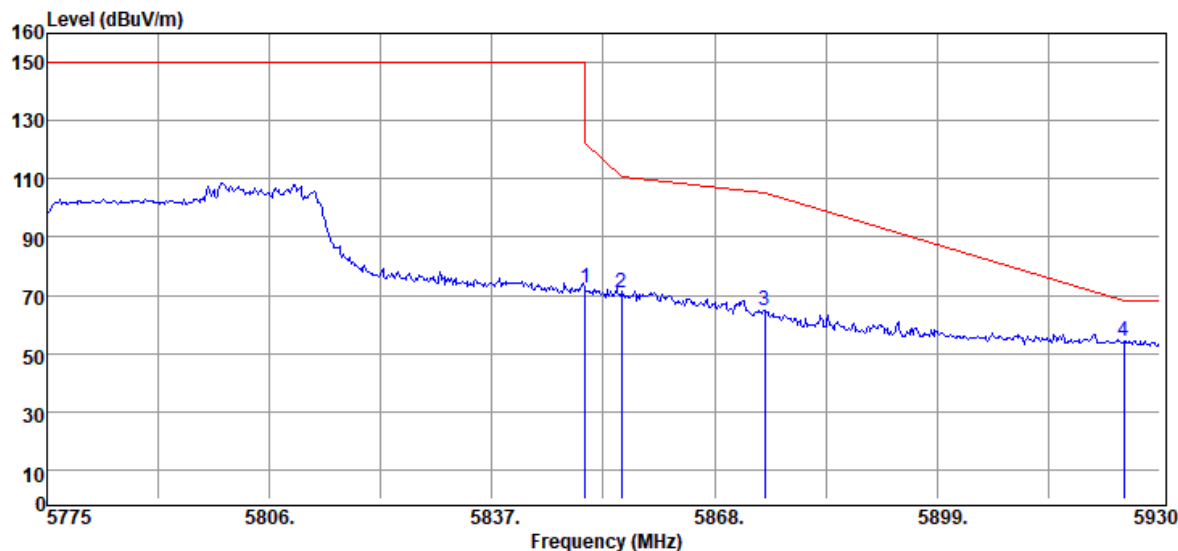
EUT Pol :E2 Plan

Test Date :2020-01-08

Temp./Humi. :21.5/64

Antenna Pol. :HORIZONTAL

Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	71.13	1.13	72.26	122.20	-49.94
5855.00	Peak	69.46	1.16	70.62	110.80	-40.18
5875.00	Peak	63.59	1.31	64.90	105.20	-40.30
5925.00	Peak	52.85	1.37	54.22	68.20	-13.98

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## 12 TRANSMISSION IN THE ABSENCE OF DATA

### 12.1 Standard Applicable

According to §15.407(c)

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

### 12.2 Result

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

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## 13 FREQUENCY STABILITY

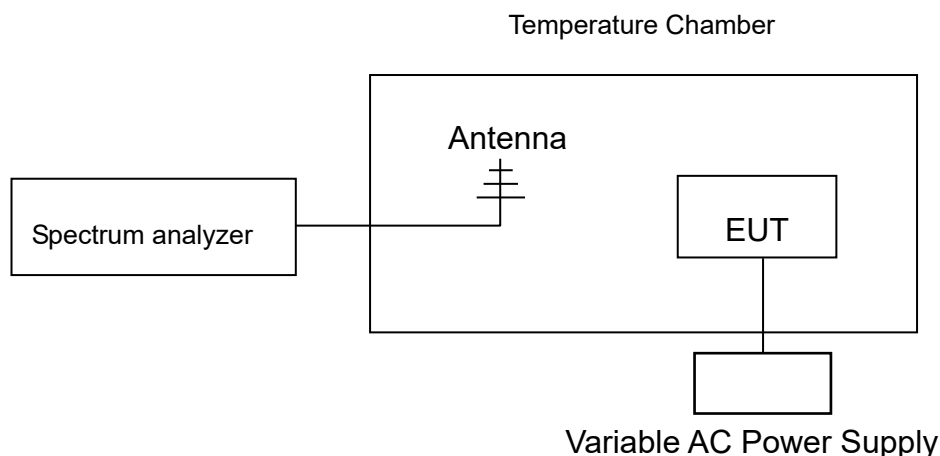
### 13.1 Standard Applicable

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

### 13.2 Measurement Procedure

1. The EUT was placed inside temperature chamber and powered and powered by nominal DC voltage.
2. Set EUT as normal operation.
3. Turn the EUT on and couple its output to spectrum.
4. Turn the EUT off and set the chamber to the highest temperature specified.
5. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT and measure the operating frequency.
6. Repeat step with the temperature chamber set to the lowest temperature.

### 13.3 Test SET-UP



### 13.4 Measurement Equipment Used:

SGS Conducted Room					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
DC Block	PASTERNAK	PE8210	RF32	11/20/2019	11/19/2020
Spectrum Analyzer	Agilent	N9010A	MY57120200	03/06/2019	03/05/2020
Attenuator	Marvelous	MVE2213-10	RF31	11/20/2019	11/19/2020

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### 13.5 Measurement Result

#### Start up

Operation Mode	802.11 a	Test Date	20191221
Temperature	: 22.4°C	Test By	Henry
Humidity	: 72%		

Test Temp.(°C)	Test Voltage(V)	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-20	13.8	36	5180	5,180.02683	-0.00000518
	10.8	36	5180	5,180.01913	-0.00000369
25	12	36	5180	5,180.01489	-0.00000288
45	13.8	36	5180	5,180.03000	-0.00000579
	10.8	36	5180	5,180.02240	-0.00000432

#### 2 minutes

Operation Mode	802.11 a	Test Date	20191221
Temperature	: 22.4°C	Test By	Henry
Humidity	: 72%		

Test Temp.(°C)	Test Voltage(V)	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-20	13.8	36	5180	5,180.03043	-0.00000587
	10.8	36	5180	5,180.02863	-0.00000553
25	12	36	5180	5,180.02463	-0.00000475
45	13.8	36	5180	5,180.02157	-0.00000416
	10.8	36	5180	5,180.01974	-0.00000381

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## 5 minutes

Operation Mode	802.11 a	Test Date	20191221
Temperature	: 22.4°C	Test By	Henry
Humidity	: 72%		

Test Temp.(°C)	Test Voltage(V)	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-20	13.8	36	5180	5,180.02418	-0.00000467
	10.8	36	5180	5,180.02370	-0.00000457
25	12	36	5180	5,180.02184	-0.00000422
45	13.8	36	5180	5,180.03074	-0.00000593
	10.8	36	5180	5,180.02160	-0.00000417

## 10 minutes

Operation Mode	802.11 a	Test Date	20191221
Temperature	: 22.4°C	Test By	Henry
Humidity	: 72%		

Test Temp.(°C)	Test Voltage(V)	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-20	13.8	36	5180	5,180.01858	-0.00000359
	10.8	36	5180	5,180.02415	-0.00000466
25	12	36	5180	5,180.02729	-0.00000527
45	13.8	36	5180	5,180.03192	-0.00000616
	10.8	36	5180	5,180.02402	-0.00000464

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## 14 ANTENNA REQUIREMENT

### 14.1 Standard Applicable

According to §15.203, an intentional radiator shall be designed to ensure that no antenna other than furnished by the responsible party shall be used with the device.

According to §15.407, If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

### 14.2 Antenna Connected Construction

The antenna is designed as permanently attached and no consideration of replacement. Please see EUT photo for details.

*~ End of Report ~*

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