

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT**INTENTIONAL RADIATOR CERTIFICATION TO
FCC PART 15 SUBPART E REQUIREMENT**

OF

Applicant: silex technology, Inc.
2-3-1 Hikaridai, Seika-cho, Souraku-gun, Kyoto 619-0237, Japan

Product Name: SX-SDMAC2

Brand Name: silex technology, Inc.

Marketing Name: Wireless Embedded Module

Model No.: SX-SDMAC2

Model Difference: N/A

Report Number: T190321W03-RP4

FCC ID: N6C-SDMAC2

FCC Rule Part: §15.407, Cat: NII

Issue Date: Jul. 05, 2019

Date of Test: Mar. 21, 2019 ~ Jun. 06, 2019

Date of EUT Received: Mar. 21, 2019

Issued by: Compliance Certification Services Inc. Wugu Lab.
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The test Result was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were given in ANSI C63.10: 2013 and compliance standards.

The test results of this report relate only to the tested sample (EUT) identified in this report. The test Report of full or partial shall not copy. Without written approval of Compliance Certification Services Inc. (Wugu Laboratory).

Tested By:**Jerry Lu / Sr. Engineer****Approved By:****Kevin Tsai / Deputy Manager**

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Revision History

Report Number	Revision	Description	Effected Page	Issue Date	Revised By
T190321W03-RP4	Rev.00	Initial creation of document	All	Jun. 19, 2019	Violetta Tang
T190321W03-RP4	Rev.01	Update description of test plots	62~341	Jul. 05, 2019	Violetta Tang

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1 GENERAL INFORMATION

1.1 Product Description

Product Name:	SX-SDMAC2
Brand Name:	silex technology, Inc.
Marketing Name:	Wireless Embedded Module
Model No.:	SX-SDMAC2
Model Difference:	N/A
Hardware Version:	N/A
Software Version:	N/A
Power Supply:	3.3Vdc

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WLAN 802.11	Frequency Range	Channels	Rated Power (Avg.) (dBm)	Modulation Technology
a	5150~5250	4	16.81 (2TX)	OFDM
	5250~5350	4	18.94 (2TX)	
	5470~5725	11	18.65 (2TX)	
	5725-5850	5	18.96 (2TX)	
n_HT ac_VHT 20M	5150~5250	4	HT: 16.79 (MIMO-CDD)	OFDM
	5250~5350	4	HT: 18.48 (MIMO-CDD)	
	5470~5725	11	HT: 18.26 (MIMO-CDD)	
	5725-5850	5	HT: 18.49 (MIMO-CDD)	
n_HT ac_VHT 40M	5150~5250	2	HT: 17.37 (MIMO-CDD)	OFDM
	5250~5350	2	HT: 17.31 (MIMO-CDD)	
	5470~5725	5	HT: 17.36 (MIMO-CDD)	
	5725-5850	2	HT: 17.28 (MIMO-CDD)	
ac_VHT 80M	5150~5250	1	10.81 (MIMO-CDD)	OFDM
	5250~5350	1	14.81 (MIMO-CDD)	
	5470~5725	2	17.37 (MIMO-CDD)	
	5725~5850	1	16.24 (MIMO-CDD)	
Modulation type		64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 802.11ac only		
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 Antenna Designation

Antenna Type	Supplier	Antenna Part No.	Freq. (MHz)	Peak Antenna Gain (dBi)	Worst Antenna Gain
PCB	Unictron	H2B1PC1A1C (AA258)	5GHz	4.4	
PCB	Unictron	H2B1PD1A1C (AA222)	5GHz	4.2	
PCB	molex	146153	5GHz	5	V
Dipole	Sansei Denki	ANTDC-081A0/B0	5GHz	2	V
Dipole	Sansei Denki	ANTDP-027A0	5GHz	0.8	
Dipole	Sansei Denki	ANTDP-039A0	5GHz	0.8	

Note: Pre-scanned was done on the above 6 antennas, the PCB (146153) & the Dipole (ANTDC-081A0/B0) results higher emission at 5GHz. Therefore, the completed set of measurement was done on both antennas to be presented on this test report.

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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

Note: All test items have been performed and record as per the above standards.

1.4 Test Facility

Compliance Certification Services Inc. Wugu Lab. No.11, Wugong 6th Rd.,
Wugu Dist., New Taipei City 24891, Taiwan. (R.O.C.) (TAF code 1309)

FCC Designation number: TW1309

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 according to §15.207. The two LISNs provide 50 µH/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.

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.

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2.5 Configuration of Tested System

Fig. 2-1 Radiated Emission

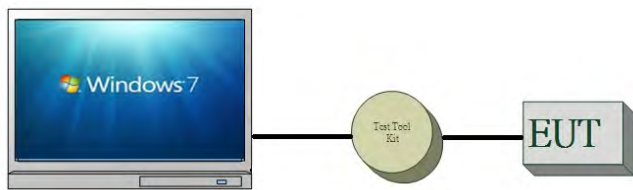


Fig 2-3 Conduction (AC Power Line) Emission

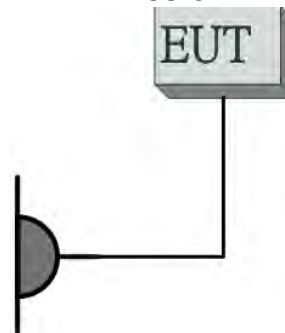


Fig 2-2 Conducted (Antenna Port) Configuration

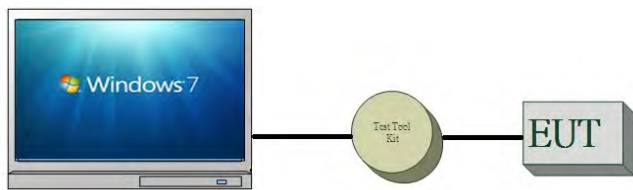


Table 2-1 Equipment Used in Tested System

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	N/A	N/A	N/A	N/A	N/A
3.	Test Tool Kit	N/A	N/A	N/A	N/A	N/A

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3 SUMMARY OF TEST RESULT

FCC Rules	Description Of Test	Result
§15.207	AC Power Line Conducted Emission	Compliant
§15.403(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 Operated in U-NII Bands

Operated band in 5150 MHz ~5250 MHz:

802.11a / n HT20 Mode, 802.11ac VHT20 Mode	
Channel	Frequency
36	5180
40	5200
44	5220
48	5240

802.11 n HT40 Mode, 802.11ac VHT40 Mode	
channel	Frequency
38	5190
46	5230

802.11ac VHT80 Mode	
channel	Frequency
42	5210

Operated band in 5250 MHz ~5350 MHz:

802.11a / n HT20 Mode, 802.11ac VHT20 Mode	
channel	Frequency
52	5260
56	5280
60	5300
64	5320

802.11 n HT40 Mode, 802.11ac VHT40 Mode	
channel	Frequency
54	5270
62	5310

802.11ac VHT80 Mode	
Channel	Frequency
58	5290

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Operated band in 5470 MHz ~5725 MHz:

802.11a / n HT20 Mode, 802.11ac VHT20 Mode	
Channel	Frequency
100	5500
104	5520
108	5540
112	5560
116	5580
120	5600
124	5620
128	5640
132	5660
136	5680
140	5700

802.11 n HT40 Mode, 802.11ac VHT40 Mode	
channel	Frequency
102	5510
110	5550
118	5590
126	5630
134	5670

802.11ac VHT80 Mode	
channel	Frequency
106	5530
122	5610

Operated band in 5745 MHz ~5850 MHz:

802.11a / n HT20 Mode, 802.11ac VHT20 Mode	
Channel	Frequency
149	5745
153	5765
157	5785
161	5805
165	5825

802.11 n HT40 Mode, 802.11ac VHT40 Mode	
channel	Frequency
151	5755
159	5795

802.11ac VHT80 Mode	
channel	Frequency
155	5775

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4.2 The Worst Test Modes and Channel Details

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

Modulation	Transmission Chain		Multiple Transmission Spatial
☒ 802.11 a	☒ Ch0	☒ Ch1	☒ 2TX
☒ 802.11 n	☒ Ch0	☒ Ch1	☒ MIMO
☒ 802.11 ac	☒ Ch0	☒ Ch1	☒ 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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AC POWER LINE CONDUCTED EMISSION TEST:

Test Condition	AC Power line conducted emission for line and neutral
Worst Case	Operation in normal mode

RADIATED EMISSION TEST:

RADIATED EMISSION TEST (BELOW 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	44	OFDM	6	2TX
802.11ac_VHT80	5210	42	42	OFDM	MCS0	MIMO
802.11a	5260~5320	52 to 64	60	OFDM	6	2TX
802.11ac_VHT80	5290	58	58	OFDM	MCS0	MIMO
802.11a	5500~5700	100 to 140	116	OFDM	6	2TX
802.11ac_VHT80	5530~5610	106 to 138	122	OFDM	MCS0	MIMO
802.11a	5745~5825	149 to 165	157	OFDM	6	2TX
802.11ac_VHT80	5775	155	155	OFDM	MCS0	MIMO
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
802.11n_HT20				OFDM	MCS8	MIMO
802.11n_HT40	5190~5230	38 to 46	38,46	OFDM	MCS8	MIMO
802.11ac_VHT80	5210	42	42	OFDM	MCS0	MIMO
802.11a	5260~5320	52 to 64	52,60,64	OFDM	6	2TX
802.11n_HT20				OFDM	MCS8	MIMO
802.11n_HT40	5270~5310	54 to 62	54,62	OFDM	MCS8	MIMO
802.11ac_VHT80	5290	58	58	OFDM	MCS0	MIMO
802.11a	5500~5700	100 to 140	100,116,140	OFDM	6	2TX
802.11n_HT20				OFDM	MCS8	MIMO
802.11n_HT40	5510~5670	102 to 134	102,110,134	OFDM	MCS8	MIMO
802.11ac_VHT80	5530~5610	106 to 122	106,122	OFDM	MCS0	MIMO
802.11a	5745~5825	149 to 165	149,157,165	OFDM	6	2TX
802.11n_HT20				OFDM	MCS8	MIMO
802.11n_HT40	5755~5795	151 to 159	151,159	OFDM	MCS8	MIMO
802.11ac_VHT80	5775	155	155	OFDM	MCS0	MIMO

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 H position was reported.

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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
802.11n_HT20				OFDM	MCS8	MIMO
802.11n_HT40	5190~5230	38 to 46	38,46	OFDM	MCS8	MIMO
802.11ac_VHT80	5210	42	42	OFDM	MCS0	MIMO
802.11a	5260~5320	52 to 64	52,60,64	OFDM	6	2TX
802.11n_HT20				OFDM	MCS8	MIMO
802.11n_HT40	5270~5310	54 to 62	54,62	OFDM	MCS8	MIMO
802.11ac_VHT80	5290	58	58	OFDM	MCS0	MIMO
802.11a	5500~5700	100 to 140	100,116,140	OFDM	6	2TX
802.11n_HT20				OFDM	MCS8	MIMO
802.11n_HT40	5510~5670	102 to 134	102,110,134	OFDM	MCS8	MIMO
802.11ac_VHT80	5530~5610	106 to 122	106,122	OFDM	MCS0	MIMO
802.11a	5745~5825	149 to 165	149,157,165	OFDM	6	2TX
802.11n_HT20				OFDM	MCS8	MIMO
802.11n_HT40	5755~5795	151 to 159	151,159	OFDM	MCS8	MIMO
802.11ac_VHT80	5775	155	155	OFDM	MCS0	MIMO

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5 MEASUREMENT UNCERTAINTY

PARAMETER	UNCERTAINTY
AC Powerline Conducted Emission	+/- 1.2575 dB
26dB & 6dB Emission Bandwidth	+/- 147.256 Hz
The Maximum Output Power	+/- 2.128 dB
Peak Power Spectral Density	+/- 2.878 dB
Frequency Stability	+/- 147.256 Hz
3M Semi Anechoic Chamber / 30M~200M	+/- 4.12 dB
3M Semi Anechoic Chamber / 200M~1000M	+/- 4.68 dB
3M Semi Anechoic Chamber / 1G~8G	+/- 5.18 dB
3M Semi Anechoic Chamber / 8G~18G	+/- 5.47 dB
3M Semi Anechoic Chamber / 18G~26G	+/- 3.81 dB
3M Semi Anechoic Chamber / 26G~40G	+/- 3.87 dB

Note:

1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
2. ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report.
3. 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

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
CABLE	EMCI	CFD300-NL	CERF	06/29/2018	06/28/2019
EMI Test Receiver	R&S	ESCI	100064	07/24/2018	07/23/2019
LISN	SCHWARZBECK	NSLK 8127	8127-541	01/31/2019	01/30/2020
LISN	SCHAFFNER	NNB 41	03/10013	02/13/2019	02/12/2020
Software	EZ-EMC(CCS-3A1-CE)				

6.3 EUT Setup

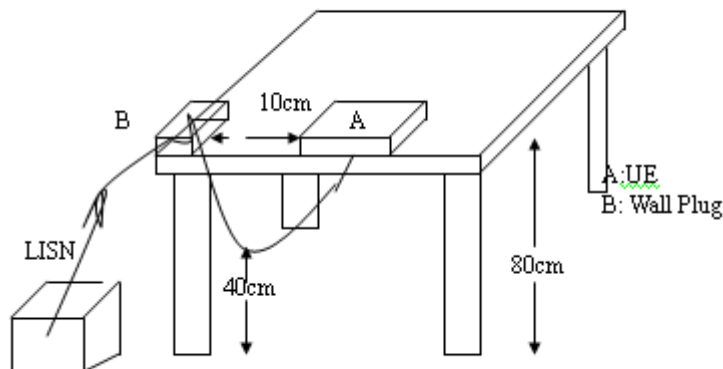
1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2013.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The rear of the EUT and peripherals were placed flushed with the rear of the table top.
3. The LISN was connected with 120Vac/60Hz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

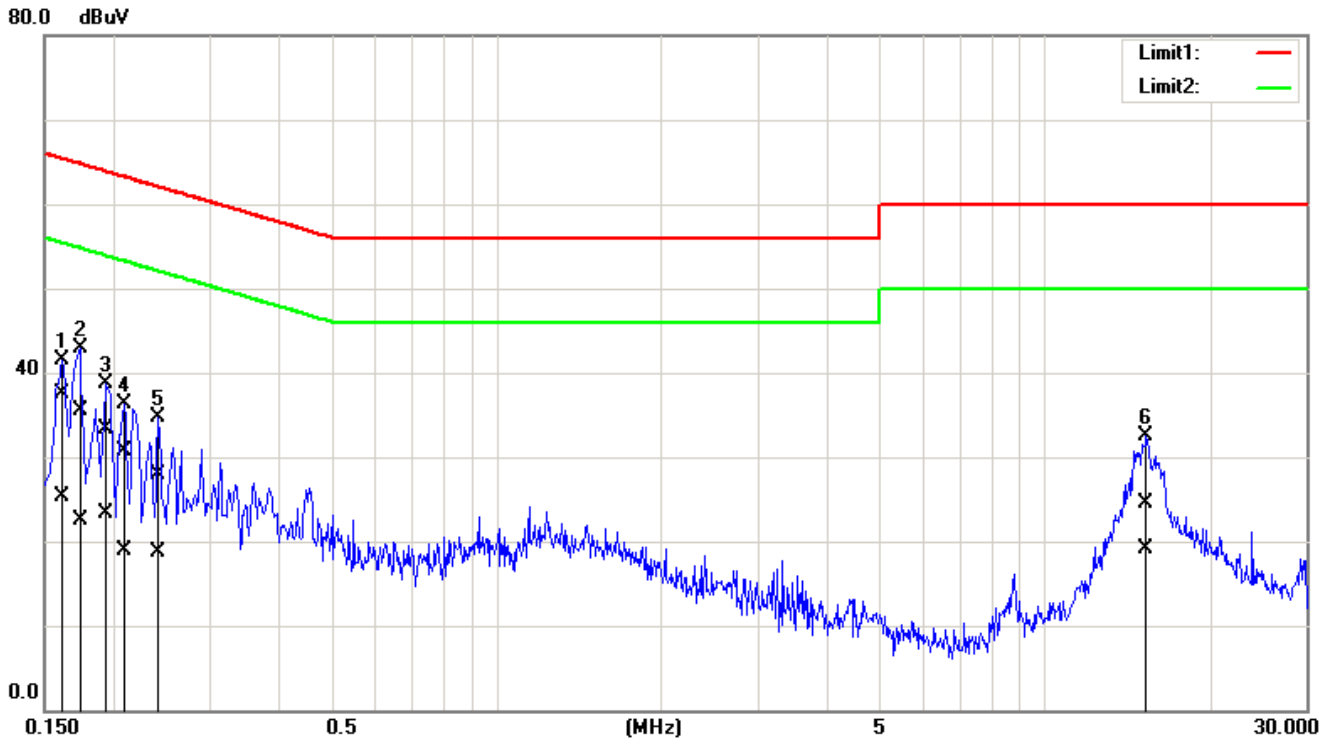
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Description:	Operation	Date:	2019/5/24
Line:	L1	Temp.(°C)/Hum.(%):	23.8(°C)/59%
Test Voltage:	AC 120V/60Hz	Test By:	Peter



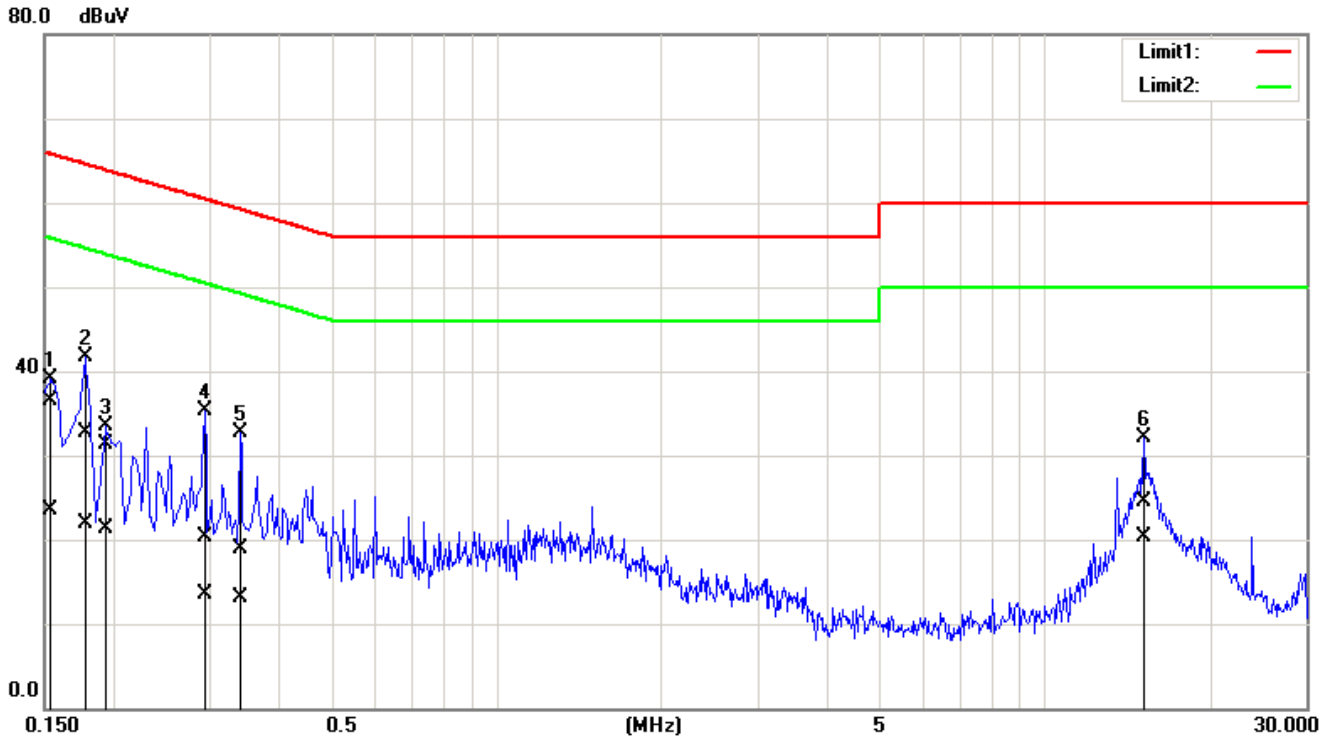
No.	Fre- quency	Qua- siPeak reading	Average reading	Cor- rection factor	Qua- siPeak result	Average result	Qua- siPeak limit	Average limit	Qua- siPeak margin	Aver- age margin	Re- mark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1*	0.1620	37.34	25.06	0.16	37.50	25.22	65.36	55.36	-27.86	-30.14	Pass
2	0.1740	35.42	22.30	0.16	35.58	22.46	64.76	54.77	-29.18	-32.31	Pass
3	0.1940	33.10	23.10	0.15	33.25	23.25	63.86	53.86	-30.61	-30.61	Pass
4	0.2100	30.62	18.80	0.15	30.77	18.95	63.20	53.21	-32.43	-34.26	Pass
5	0.2420	27.74	18.51	0.15	27.89	18.66	62.02	52.03	-34.13	-33.37	Pass
6	15.3460	24.01	18.55	0.59	24.60	19.14	60.00	50.00	-35.40	-30.86	Pass

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Description:	Operation	Date:	2019/5/24
Line:	N	Temp.(°C)/Hum.(%):	23.8(°C)/59%
Test Voltage:	AC 120V/60Hz	Test By:	Peter



No.	Fre- quency	Qua- siPeak reading	Average reading	Cor- rection factor	Qua- siPeak result	Average result	Qua- siPeak limit	Average limit	Qua- siPeak margin	Aver- age margin	Re- mark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1*	0.1539	36.32	23.38	0.10	36.42	23.48	65.78	55.79	-29.36	-32.31	Pass
2	0.1780	32.60	21.78	0.10	32.70	21.88	64.57	54.58	-31.87	-32.70	Pass
3	0.1940	31.28	21.13	0.10	31.38	21.23	63.86	53.86	-32.48	-32.63	Pass
4	0.2940	20.11	13.45	0.10	20.21	13.55	60.41	50.41	-40.20	-36.86	Pass
5	0.3420	18.71	13.02	0.11	18.82	13.13	59.15	49.15	-40.33	-36.02	Pass
6	15.1460	23.98	19.83	0.47	24.45	20.30	60.00	50.00	-35.55	-29.70	Pass

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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.

Formula:

$$\text{Duty Cycle} = \text{Ton} / (\text{Ton} + \text{Toff})$$

Measurement Procedure:

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

Duty Cycle:

Mode	Duty Cycle (%)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
802.11a	93.24	0.30	0.48	1.00
802.11n_20	94.05	0.27	0.52	1.00
802.11n_40	90.71	0.42	1.05	2.00
802.11ac_80	76.44	1.17	2.16	3.00

Duty Cycle Factor: $10 * \log(1/0.9324) = 0.3$

Duty Cycle Factor: $10 * \log(1/0.9405) = 0.27$

Duty Cycle Factor: $10 * \log(1/0.9071) = 0.42$

Duty Cycle Factor: $10 * \log(1/0.7644) = 1.17$

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DUTY CYCLE TEST SIGNAL MEASUREMENT RESULT

802.11a



802.11n HT20



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802.11n HT 40



802.11 ac VHT 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.
 - 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.
 - 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.
6. Repeat above procedures until all frequency of interest measured was complete.

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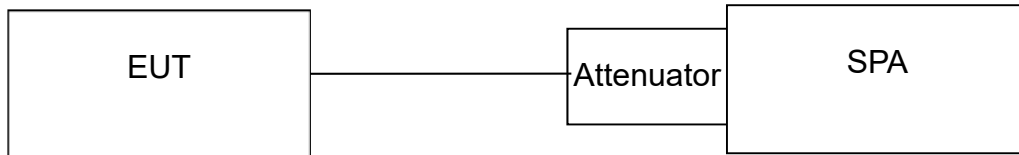
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8.3 Measurement Equipment Used

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
PXA Spectrum Analyzer	Agilent	N9030A	MY53120760	04/22/2019	04/21/2020
Thermo-static/Hrgrosatic Chamber	TAICHY	MHG-150LF	930619	10/08/2018	10/07/2019
DC Block	Mini-Circuits	BLK-18-S+	31129(1)	02/26/2019	02/25/2020
Attenuator	Mini-Circuit	BW-S10W2+	1	02/26/2019	02/25/2020
Attenuator	Mini-Circuit	BW-S10W2+	3	02/26/2019	02/25/2020

8.4 Test Set-up



8.5 Measurement Result

26dB Bandwidth

802.11a_Ch0

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	18.49	12.668
5220	18.65	12.706
5240	18.52	12.677
5260	18.65	12.706
5300	18.48	12.667
5320	18.06	12.568
5500	18.81	12.744
5580	18.79	12.738
5700	18.89	12.763

802.11a_Ch1

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	18.58	12.691
5220	20.09	13.030
5240	19.72	12.950
5260	18.08	12.572
5300	18.30	12.625
5320	18.56	12.685
5500	20.26	13.066
5580	18.46	12.663
5700	18.59	12.693

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802.11n_HT20_Ch0

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	20.08	13.027
5220	25.54	14.073
5240	20.23	13.059
5260	19.36	12.868
5300	19.20	12.832
5320	19.26	12.845
5500	29.36	14.678
5580	19.37	12.872
5700	19.48	12.896

802.11n_HT20_Ch1

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	19.42	12.882
5220	19.10	12.811
5240	19.52	12.904
5260	19.28	12.850
5300	19.30	12.856
5320	19.45	12.888
5500	19.71	12.946
5580	19.51	12.903
5700	19.50	12.901

802.11n_HT40_Ch0

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	39.33	15.947
5230	40.59	16.084
5270	39.25	15.939
5310	38.94	15.904
5510	39.24	15.937
5550	39.39	15.954
5670	39.10	15.922

802.11n_HT40_Ch1

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	40.88	16.115
5230	39.88	16.007
5270	39.95	16.015
5310	39.45	15.960
5510	43.96	16.431
5550	39.52	15.968
5670	40.30	16.053

802.11ac_VHT80_Ch0

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	86.95	19.393
5290	79.95	19.028
5530	79.13	18.984
5610	80.32	19.048

802.11ac_VHT80_Ch1

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	80.87	19.078
5290	81.50	19.111
5530	80.75	19.071
5610	80.63	19.065

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

802.11a_Ch0

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	15.99	12.038
5785	15.92	12.019
5825	14.70	11.674

802.11a_Ch1

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	15.08	11.785
5785	15.46	11.892
5825	13.55	11.320

802.11n_HT20_Ch0

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	15.12	11.797
5785	15.69	11.957
5825	15.44	11.886

802.11n_HT20_Ch1

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	15.14	11.800
5785	15.06	11.777
5825	14.67	11.665

802.11n_HT40_Ch0

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	35.08	15.450
5795	33.85	15.296

802.11n_HT40_Ch1

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	35.08	15.450
5795	35.13	15.456

802.11ac_VHT80_Ch0

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	70.10	18.457

802.11ac_VHT80_Ch1

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	72.61	18.610

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99% BW Verification of DFS Function

802.11a_Ch0

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5240	5248.13	< 5250
5745	5736.69	> 5725

802.11a_Ch1

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5240	5248.13	< 5250
5745	5736.87	> 5725

802.11n_HT20_Ch0

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5240	5248.73	< 5250
5745	5736.21	> 5725

802.11n_HT20_Ch1

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5240	5248.70	< 5250
5745	5736.24	> 5725

802.11n_HT40_Ch0

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5230	5247.90	< 5250
5755	5736.90	> 5725

802.11n_HT40_Ch1

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5230	5247.85	< 5250
5755	5736.95	> 5725

802.11ac_VHT80_Ch0

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5210	5247.20	< 5250
5775	5737.50	> 5725

802.11n_HT80_Ch1

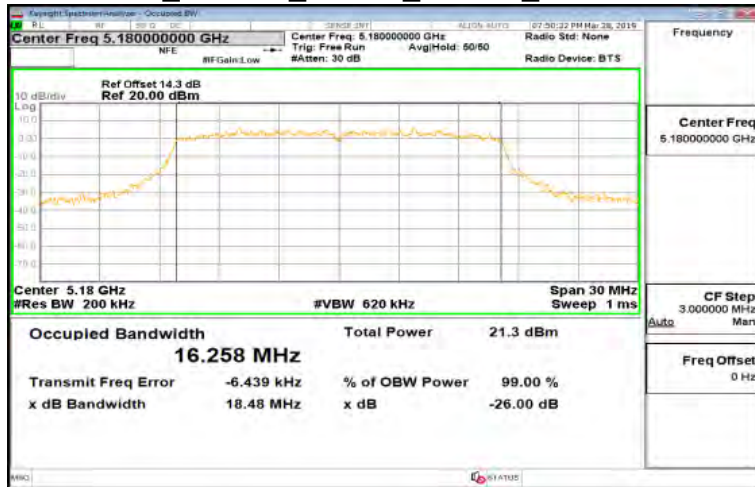
Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5210	5247.30	< 5250
5775	5737.20	> 5725

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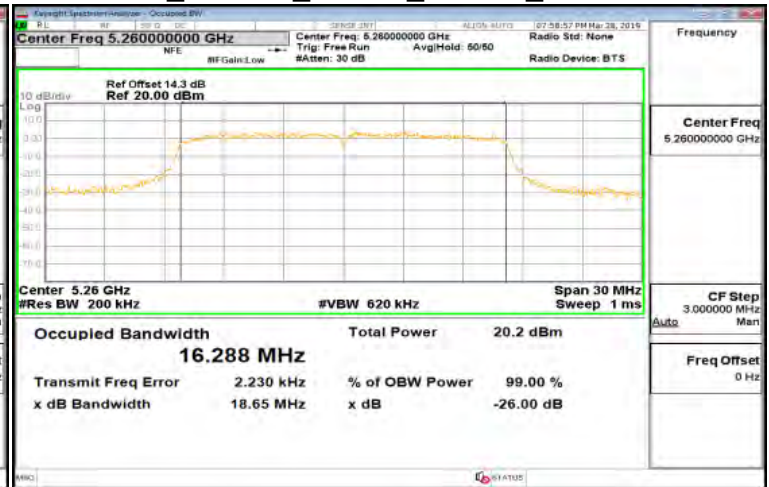
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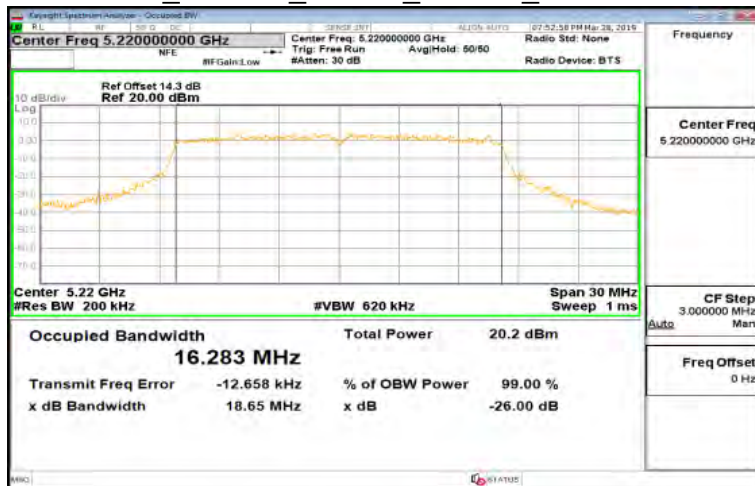
FCC 802.11a 20MHz_Chain0_5180MHz



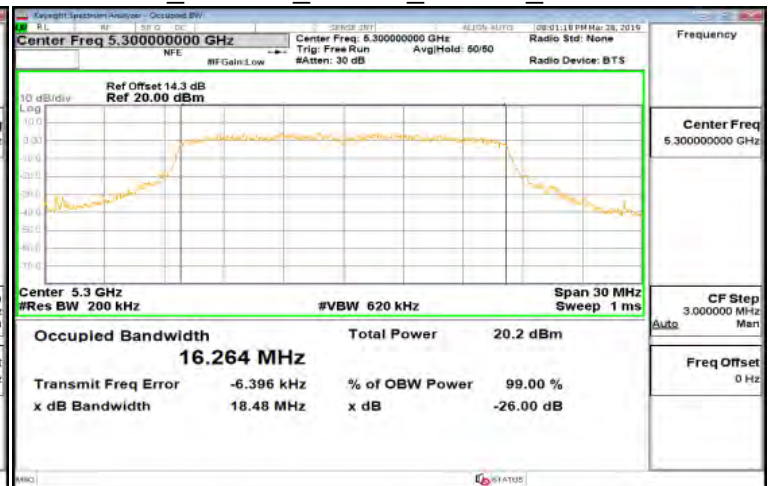
FCC 802.11a 20MHz_Chain0_5260MHz



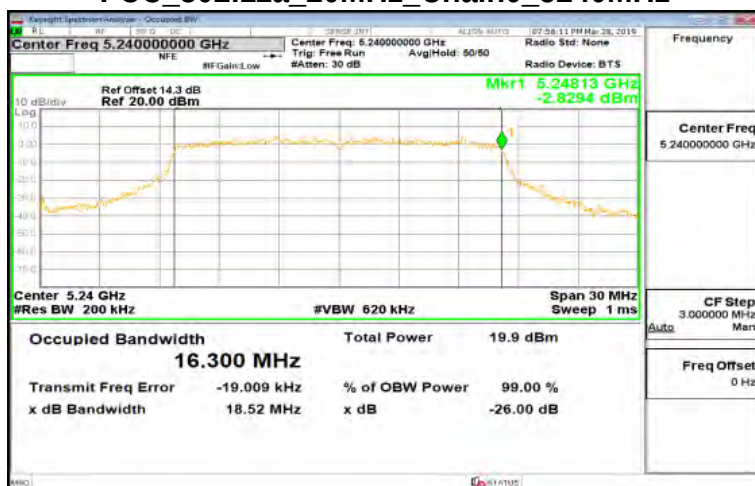
FCC 802.11a 20MHz_Chain0_5220MHz



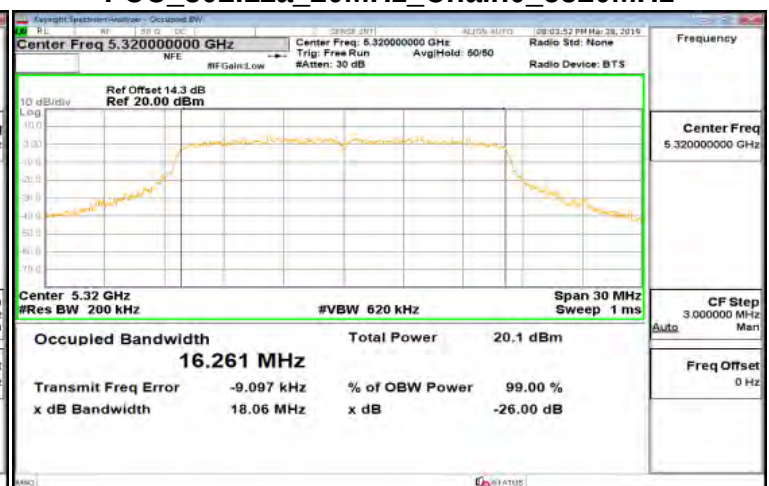
FCC 802.11a 20MHz_Chain0_5300MHz



FCC 802.11a 20MHz_Chain0_5240MHz



FCC 802.11a 20MHz_Chain0_5320MHz

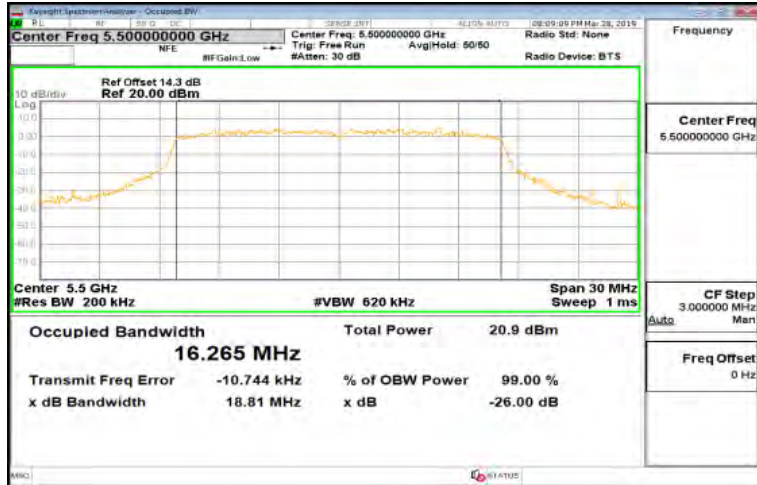


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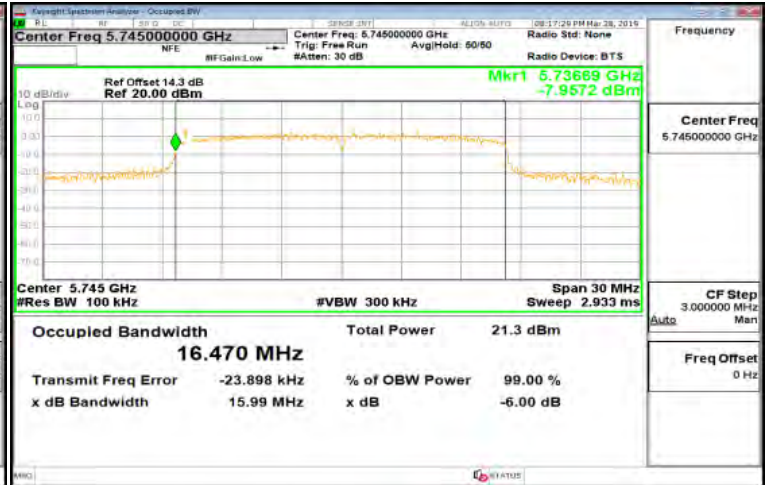
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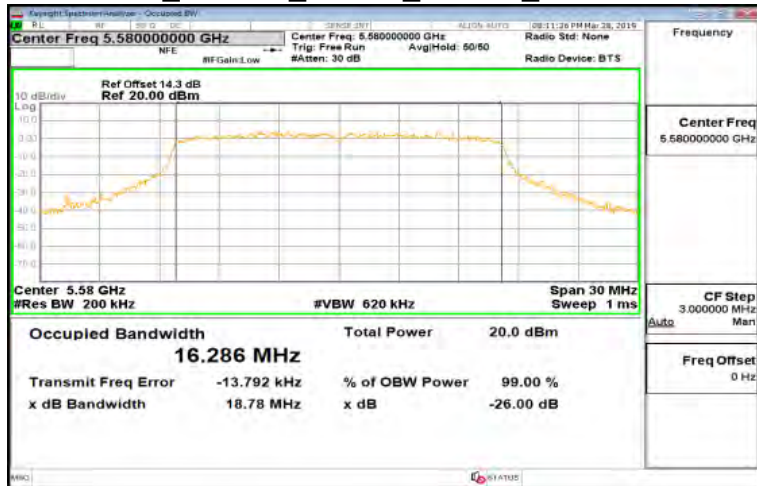
FCC 802.11a 20MHz_Chain0_5500MHz



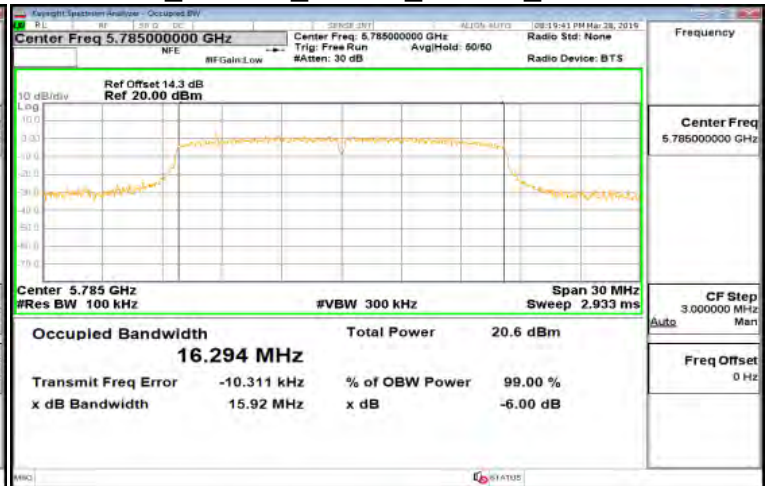
FCC 802.11a 20MHz_Chain0_5745MHz



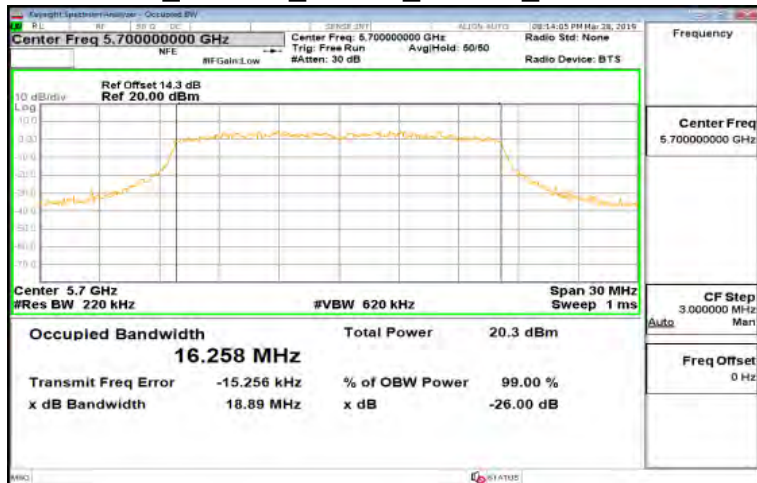
FCC 802.11a 20MHz_Chain0_5580MHz



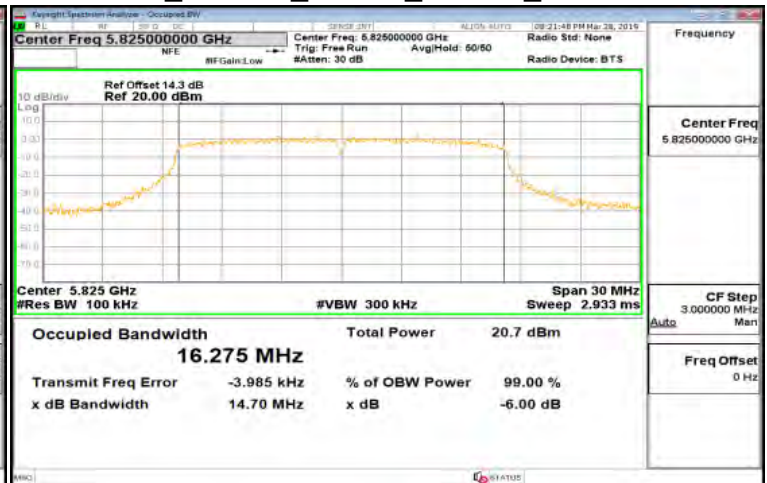
FCC 802.11a 20MHz_Chain0_5785MHz



FCC 802.11a 20MHz_Chain0_5700MHz



FCC 802.11a 20MHz_Chain0_5825MHz

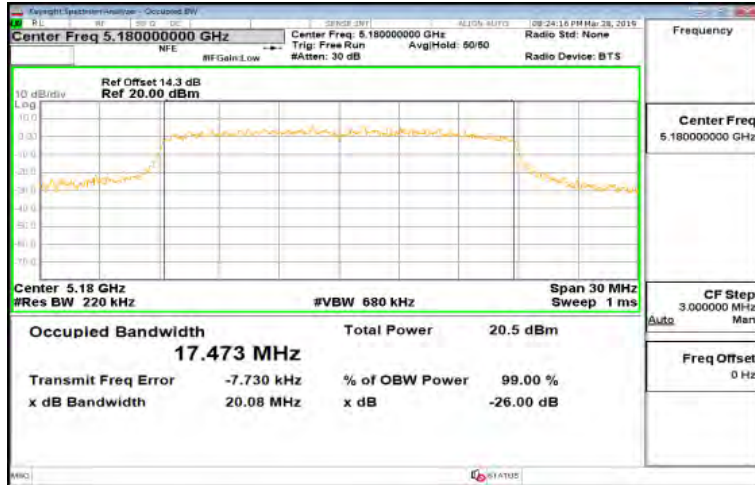


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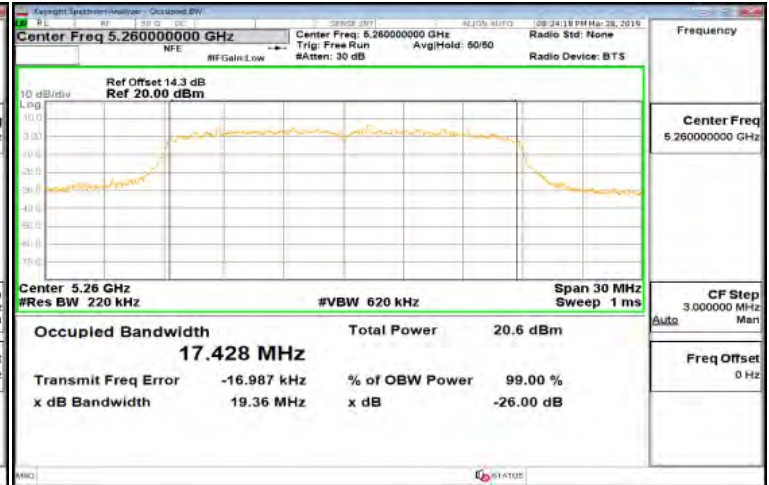
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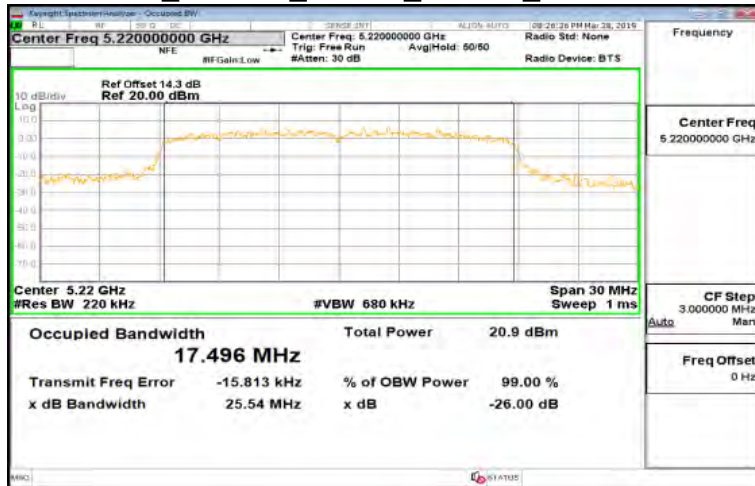
FCC 802.11n 20MHz_Chain0_5180MHz



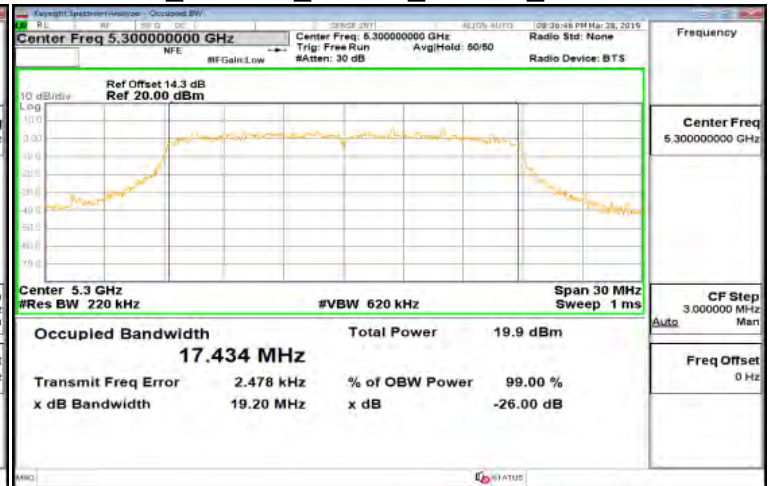
FCC 802.11n 20MHz_Chain0_5260MHz



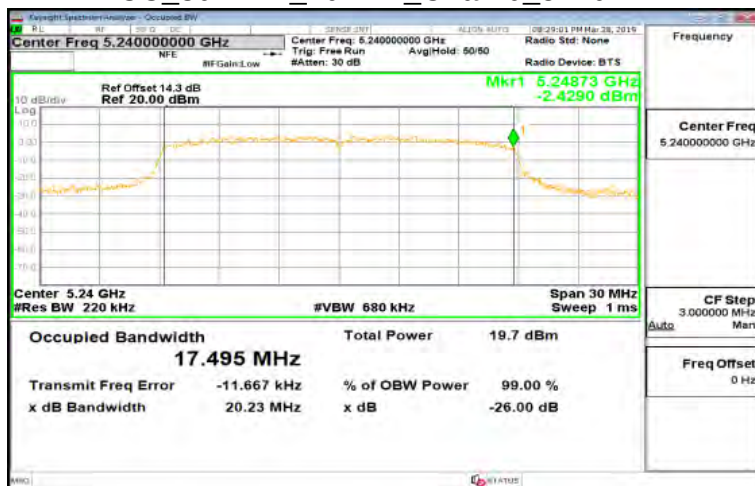
FCC 802.11n 20MHz_Chain0_5220MHz



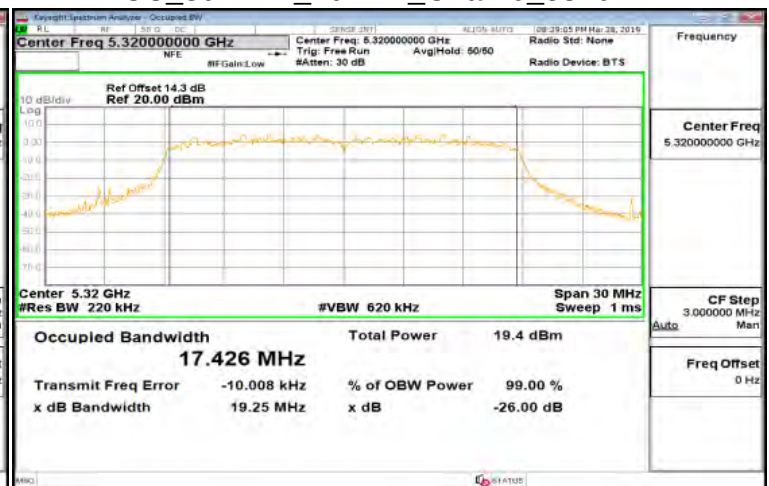
FCC 802.11n 20MHz_Chain0_5300MHz



FCC 802.11n 20MHz_Chain0_5240MHz



FCC 802.11n 20MHz_Chain0_5320MHz

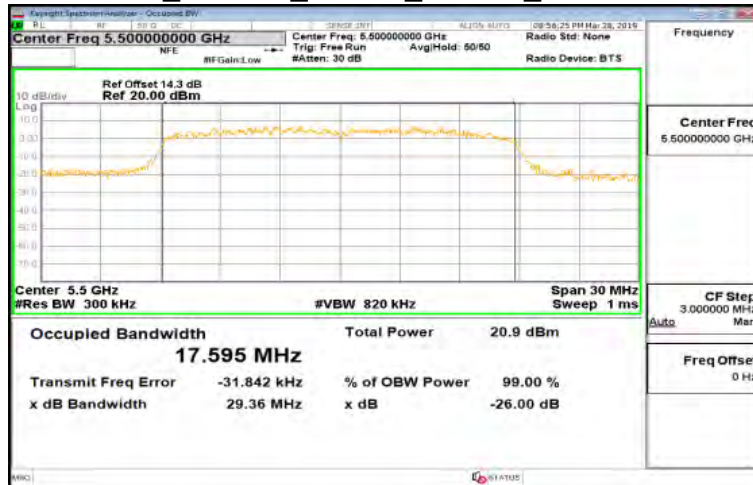


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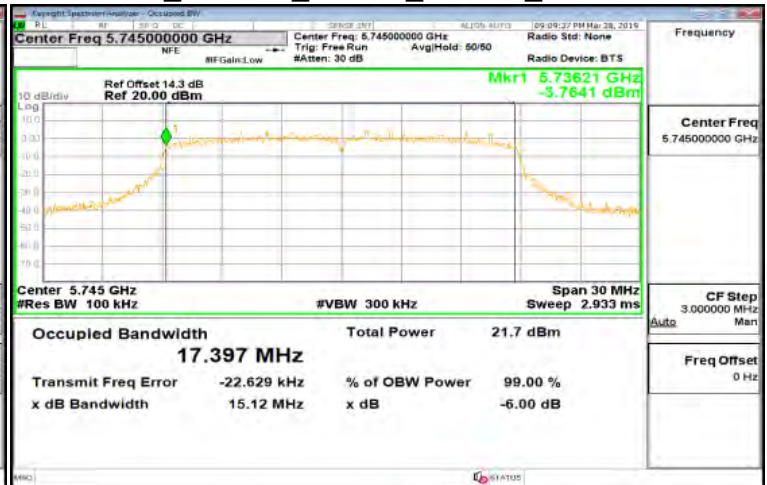
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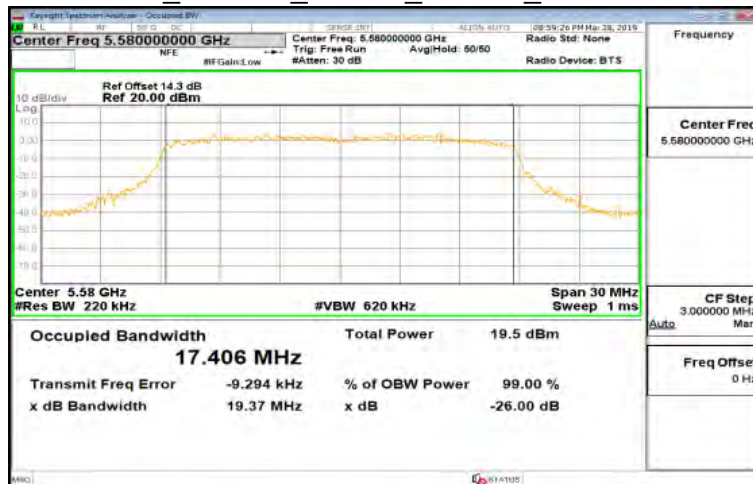
FCC 802.11n 20MHz_Chain0_5500MHz



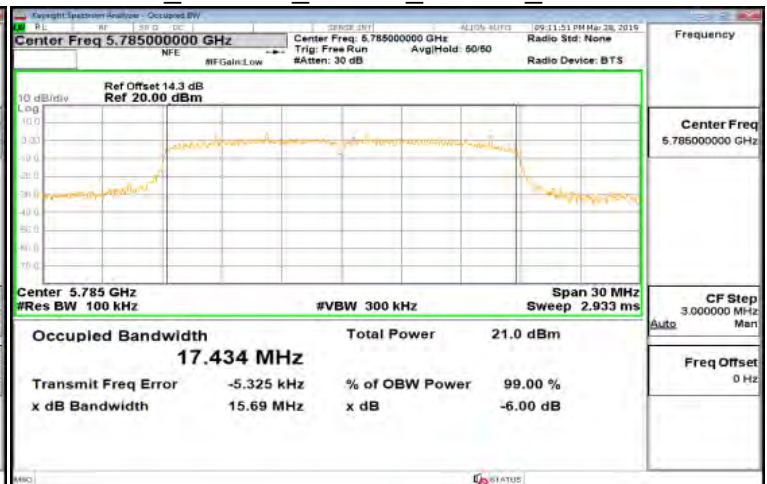
FCC 802.11n 20MHz_Chain0_5745MHz



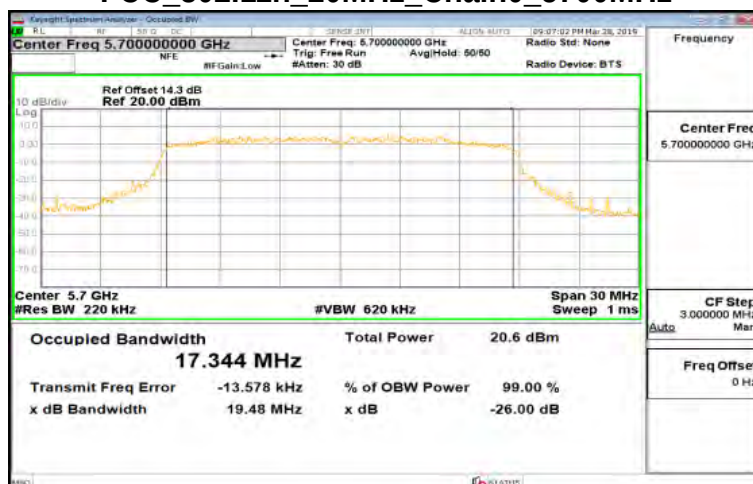
FCC 802.11n 20MHz_Chain0_5580MHz



FCC 802.11n 20MHz_Chain0_5785MHz



FCC 802.11n 20MHz_Chain0_5700MHz



FCC 802.11n 20MHz_Chain0_5825MHz

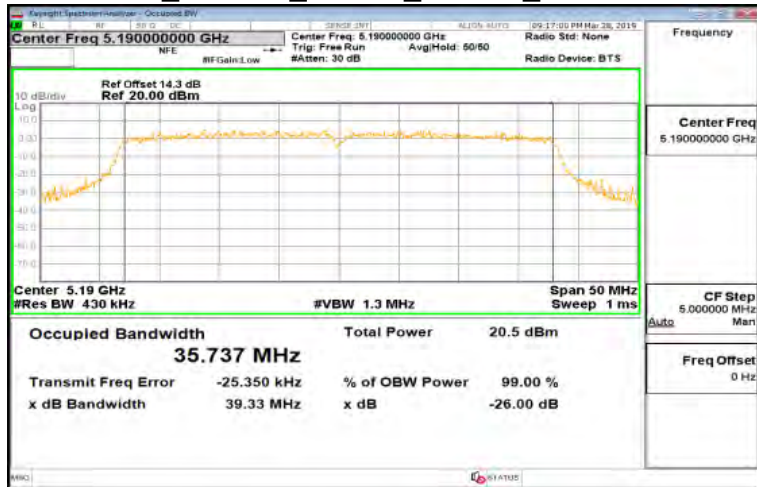


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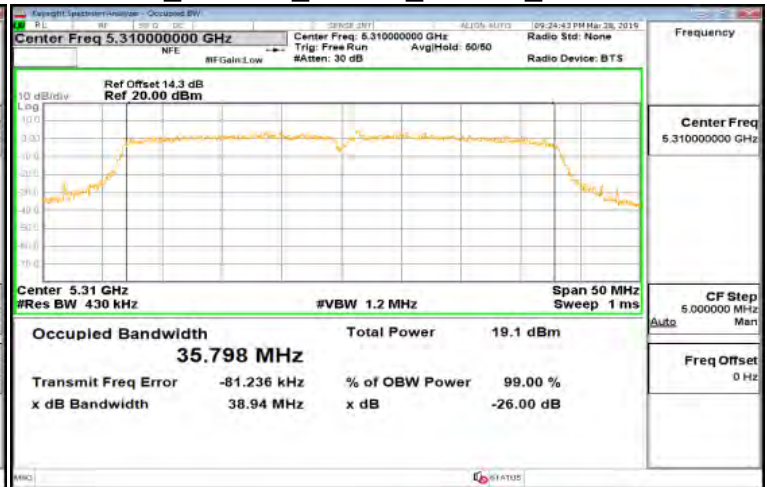
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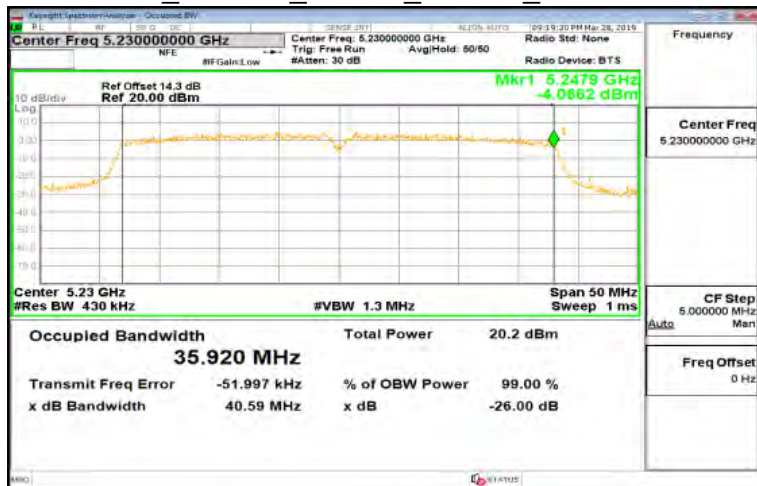
FCC 802.11n 40MHz_Chain0_5190MHz



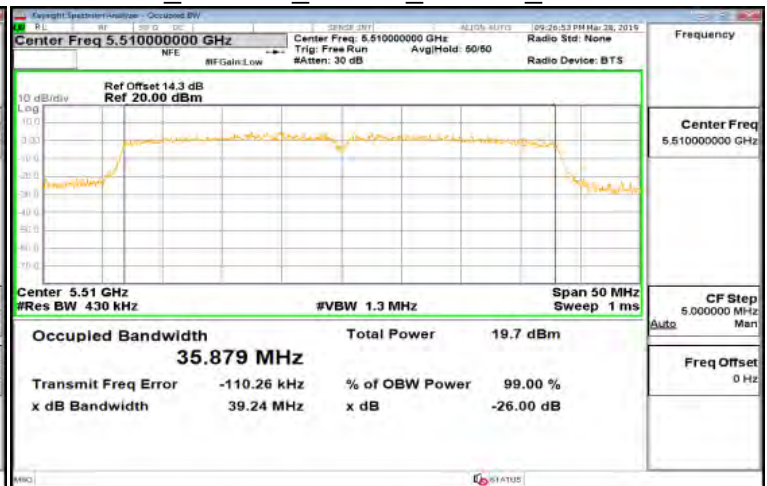
FCC 802.11n 40MHz_Chain0_5310MHz



FCC 802.11n 40MHz_Chain0_5230MHz



FCC 802.11n 40MHz_Chain0_5510MHz



FCC 802.11n 40MHz_Chain0_5270MHz



FCC 802.11n 40MHz_Chain0_5550MHz

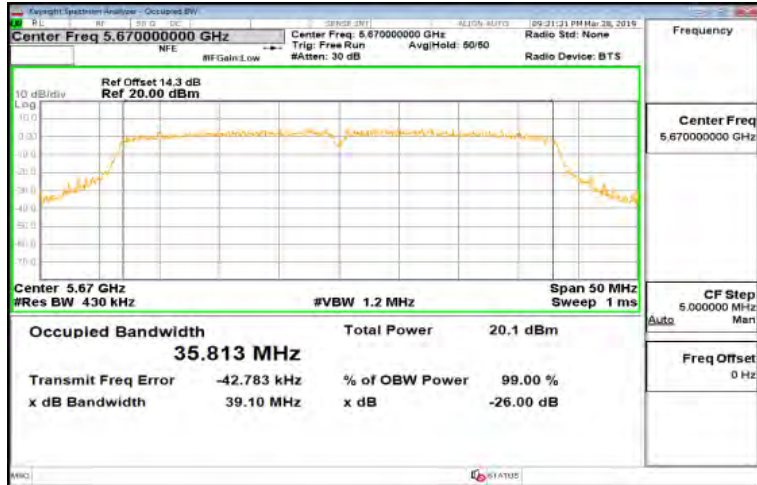


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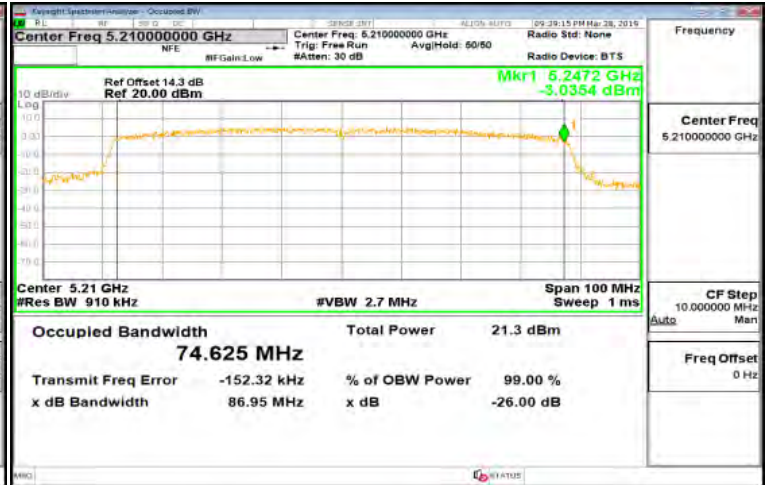
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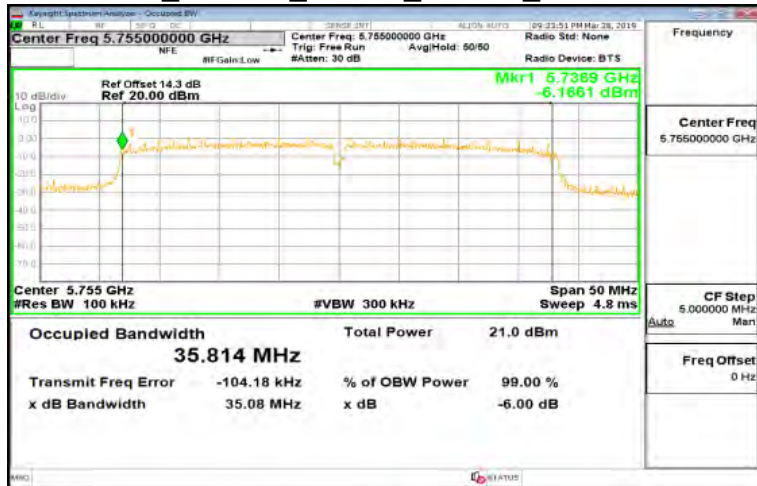
FCC 802.11n 40MHz_Chain0 5670MHz



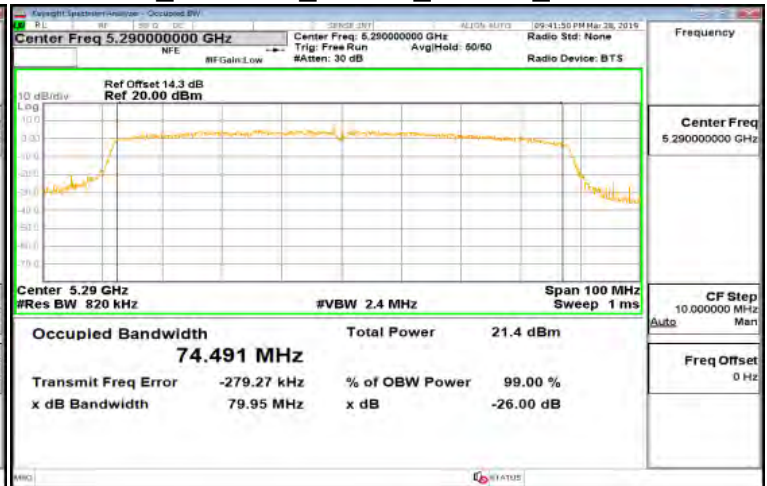
FCC 802.11ac 80MHz_Chain0 5210MHz



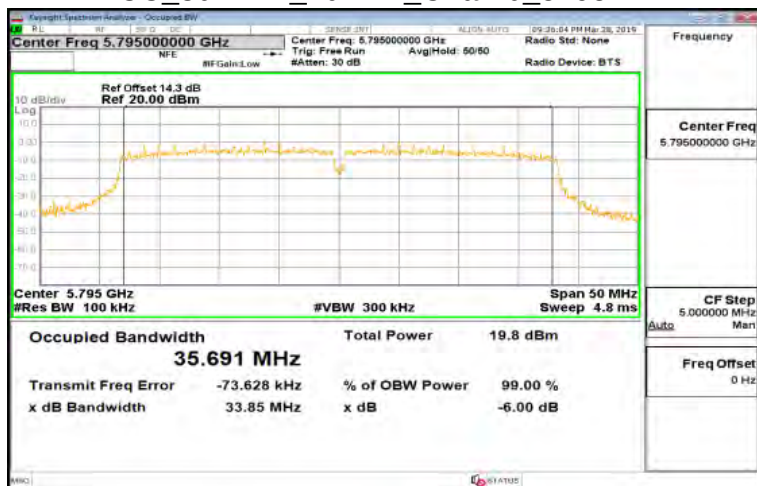
FCC 802.11n 40MHz_Chain0 5755MHz



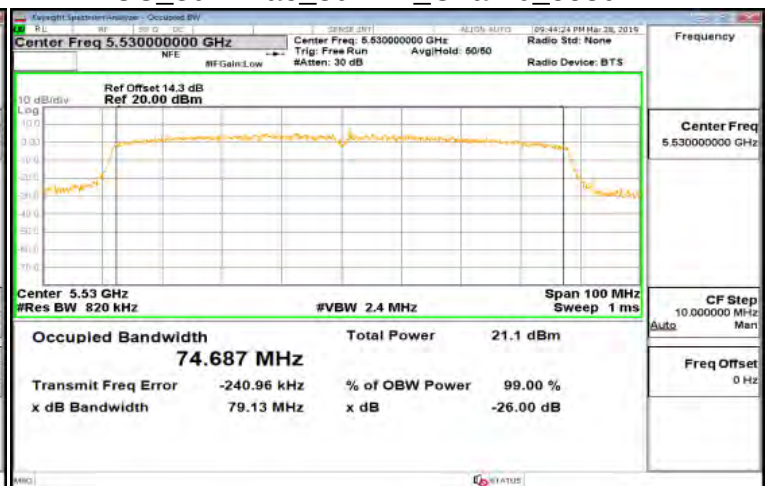
FCC 802.11ac 80MHz_Chain0 5290MHz



FCC 802.11n 40MHz_Chain0 5795MHz



FCC 802.11ac 80MHz_Chain0 5530MHz

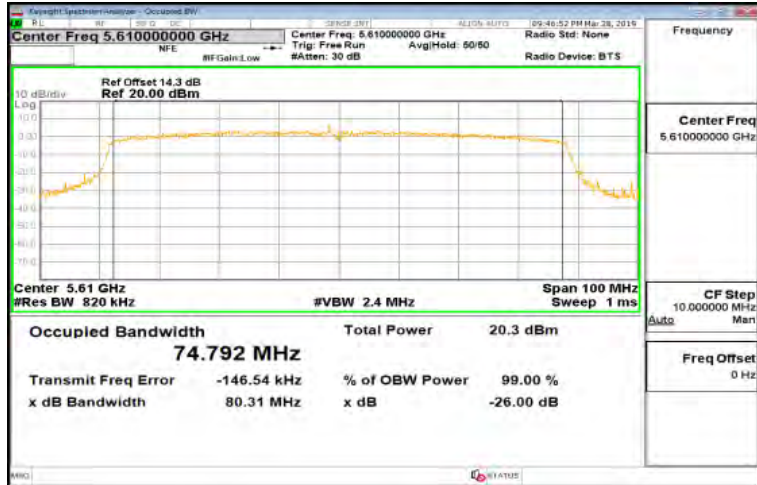


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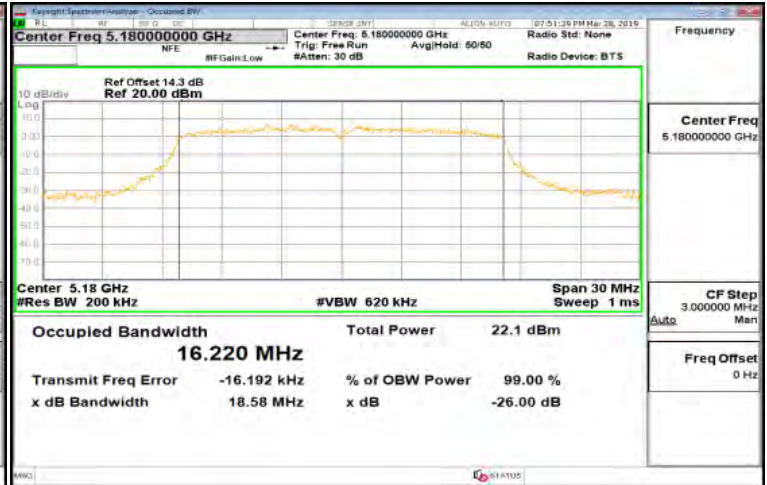
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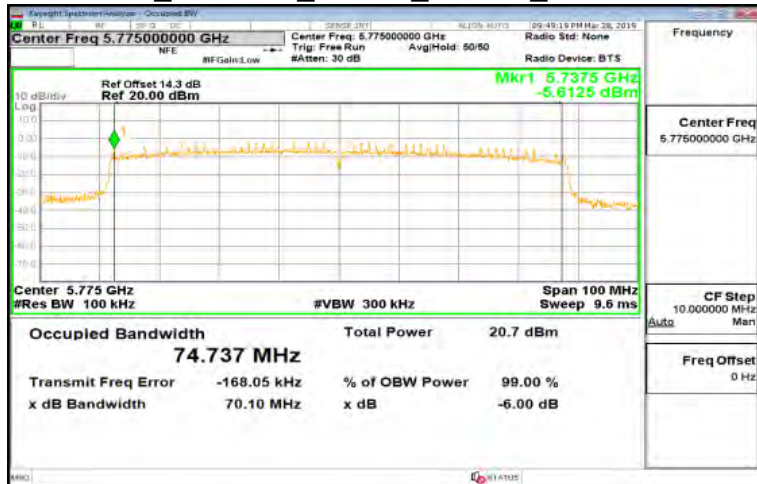
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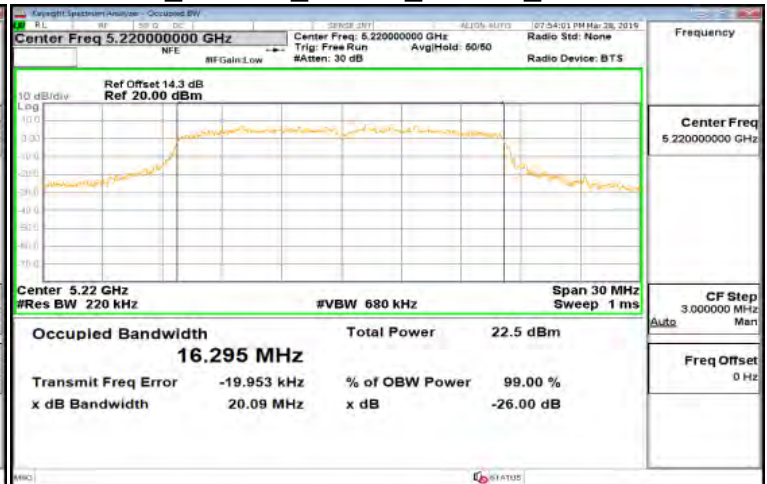
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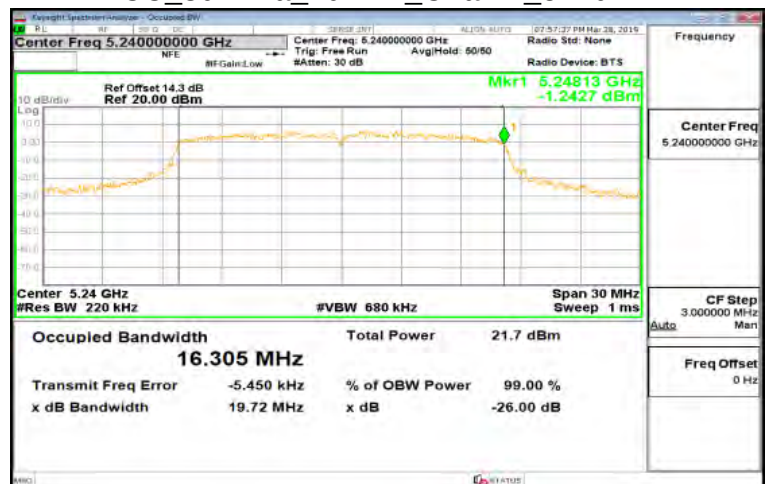
FCC 802.11ac 80MHz Chain0 5775MHz



FCC 802.11a 20MHz Chain1 5220MHz



FCC 802.11a 20MHz Chain1 5240MHz

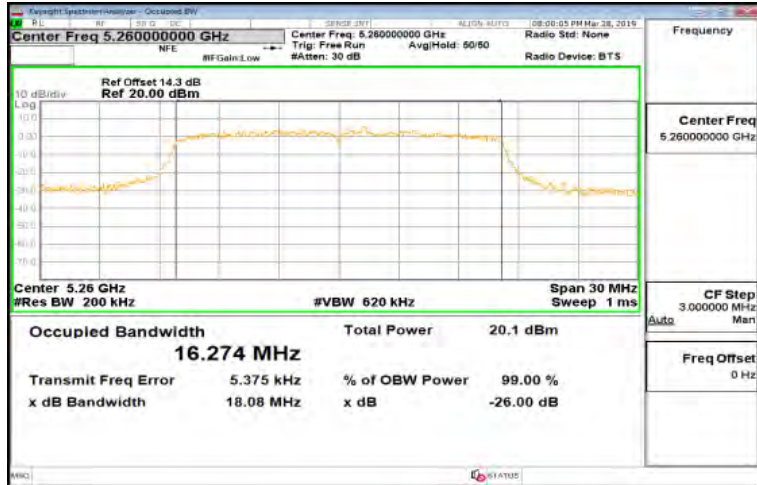


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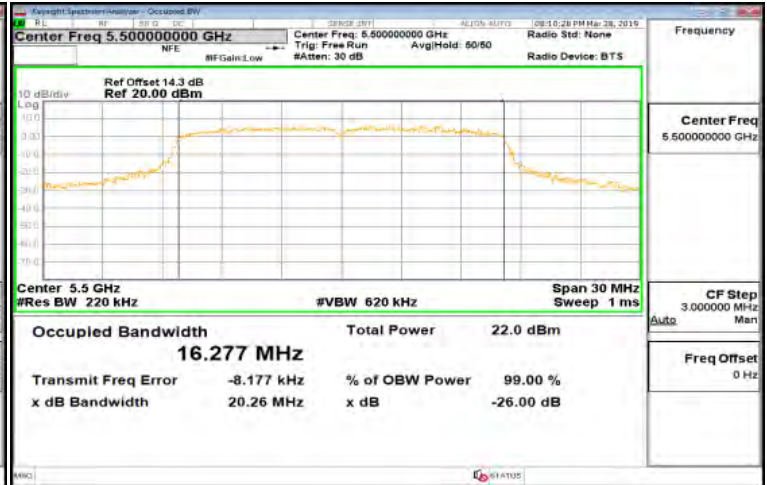
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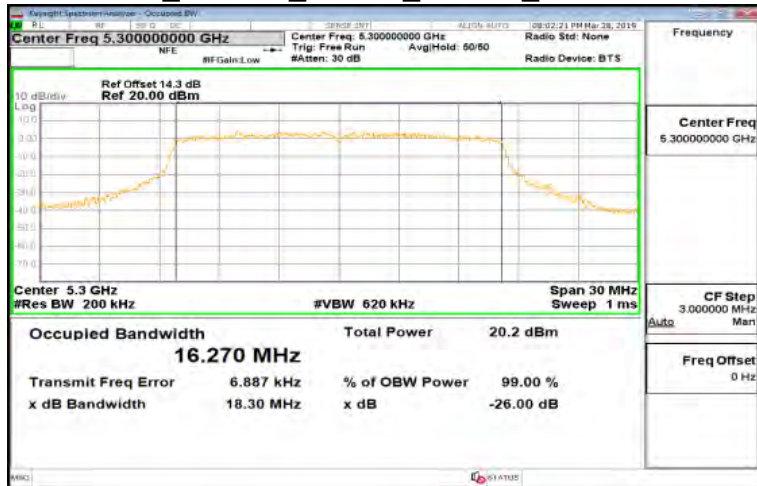
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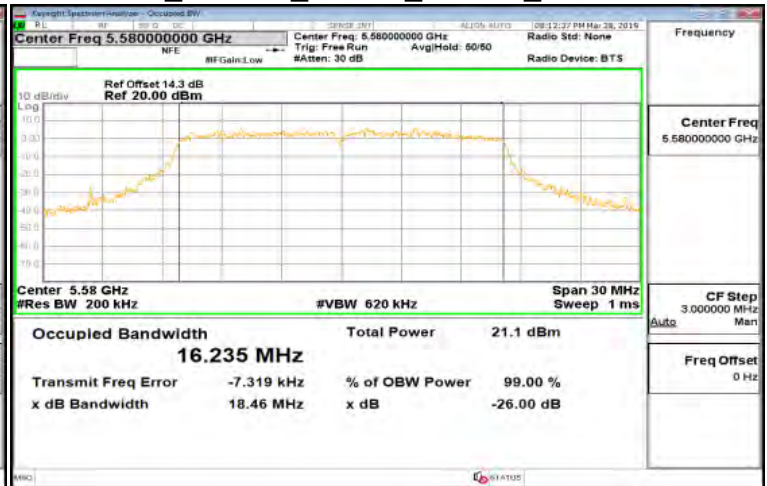
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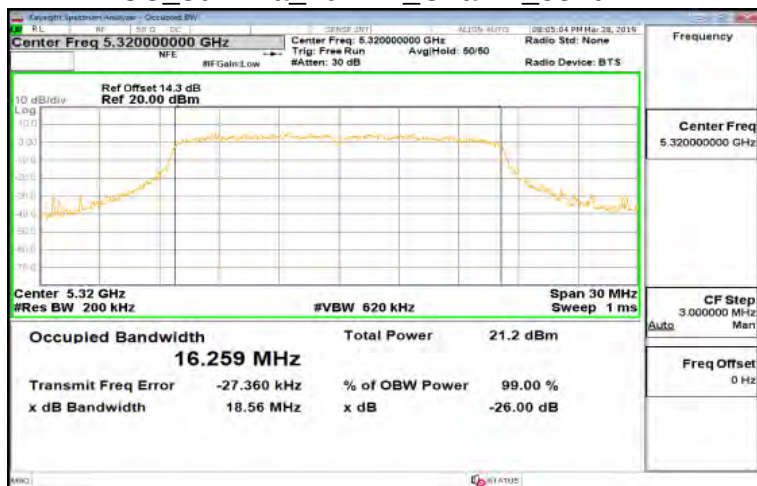
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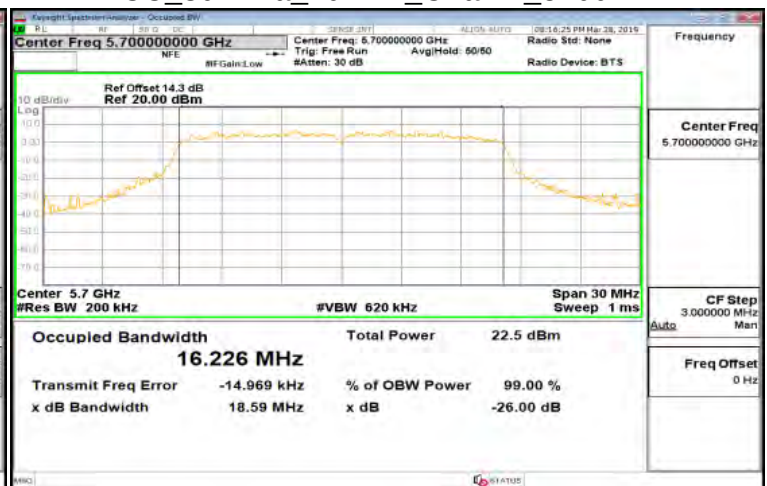
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FCC 802.11a 20MHz_Chain1_5320MHz



FCC 802.11a 20MHz_Chain1_5700MHz

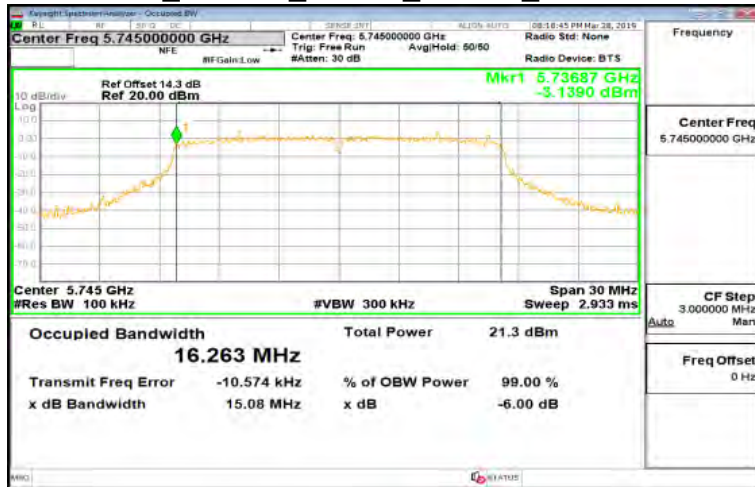


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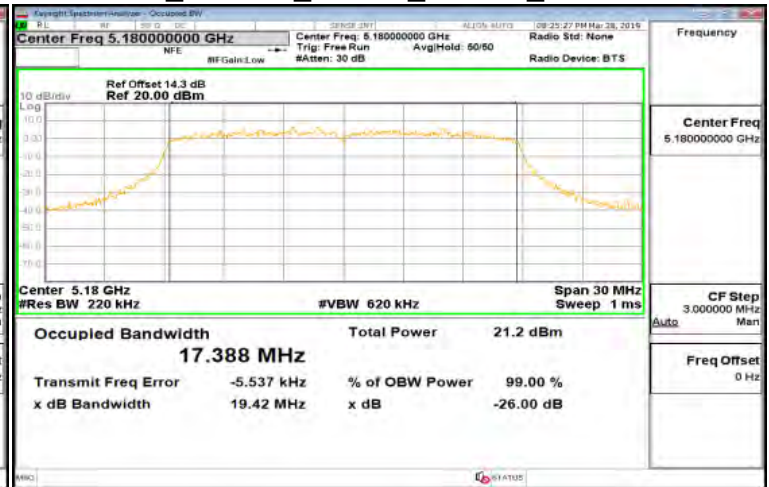
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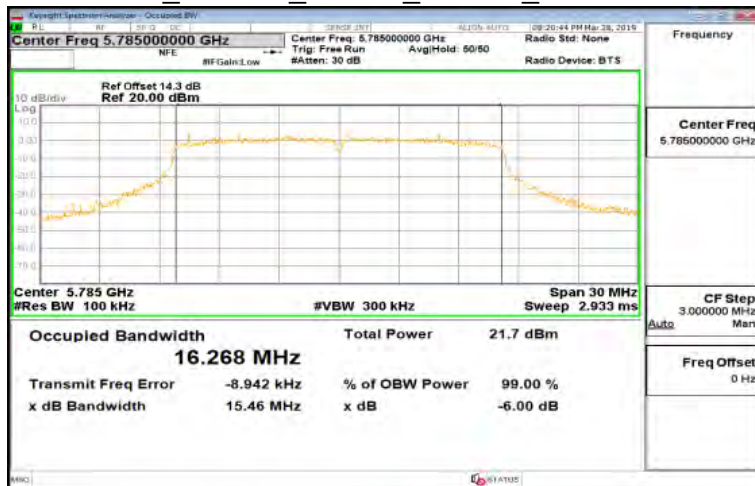
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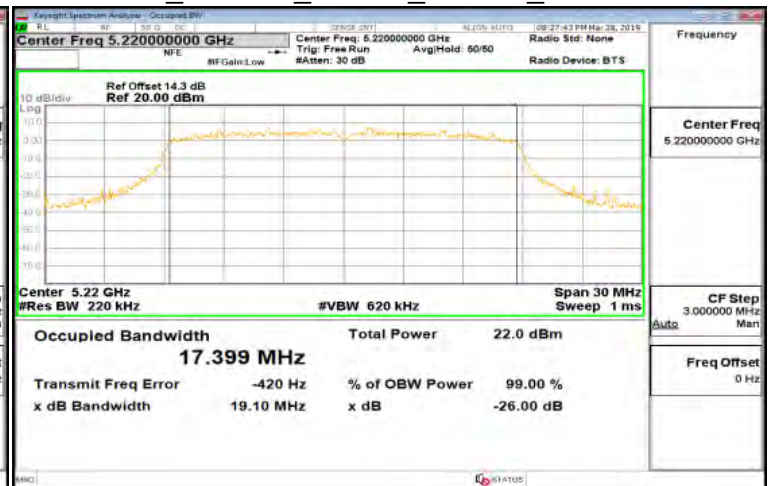
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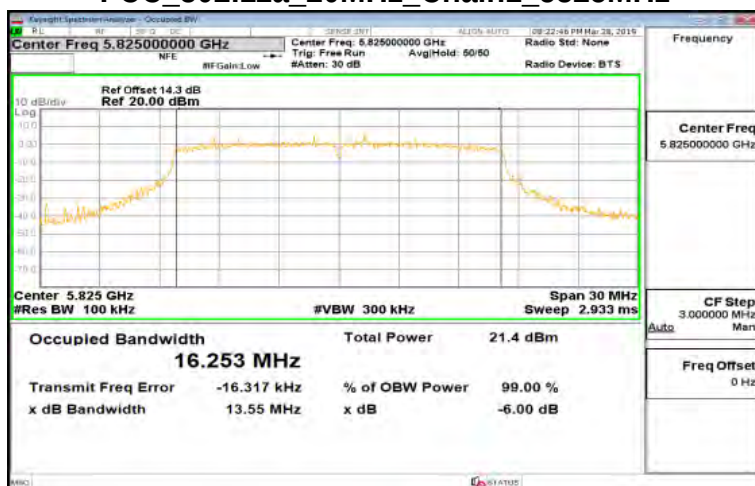
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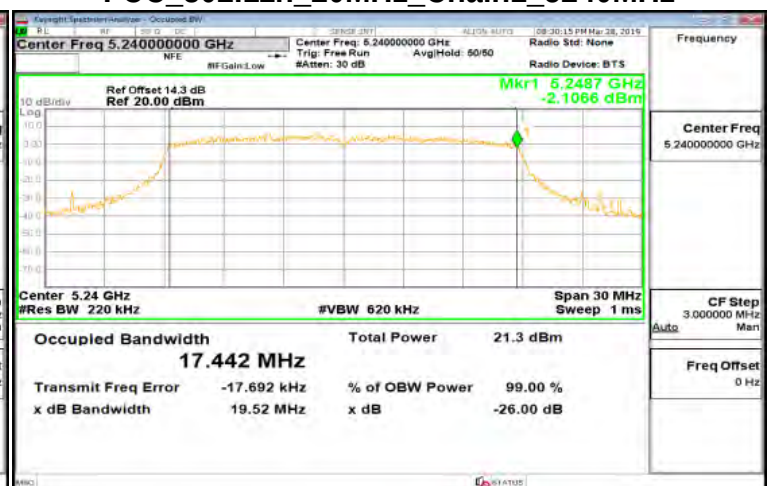
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FCC 802.11a 20MHz_Chain1_5825MHz



FCC 802.11n 20MHz_Chain1_5240MHz

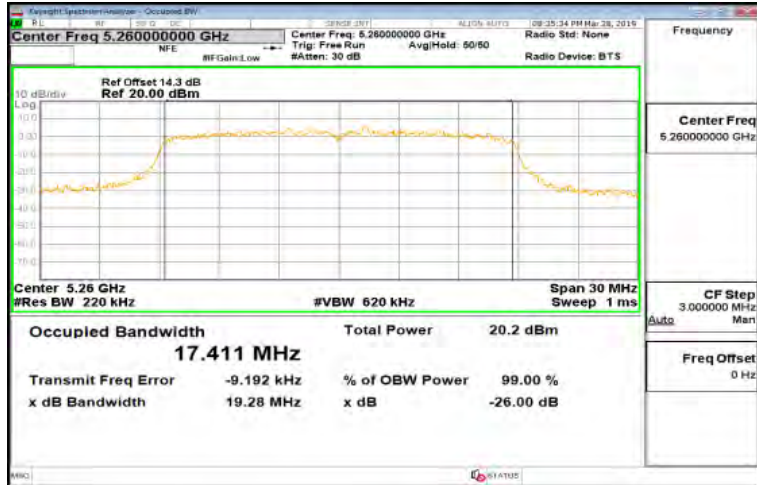


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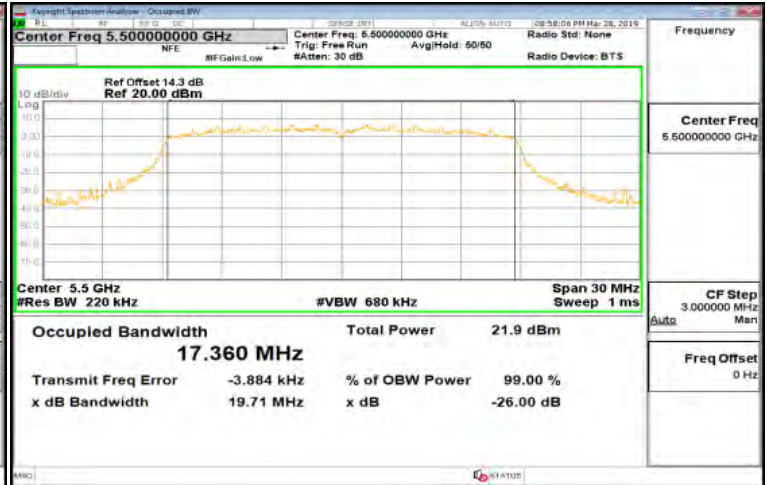
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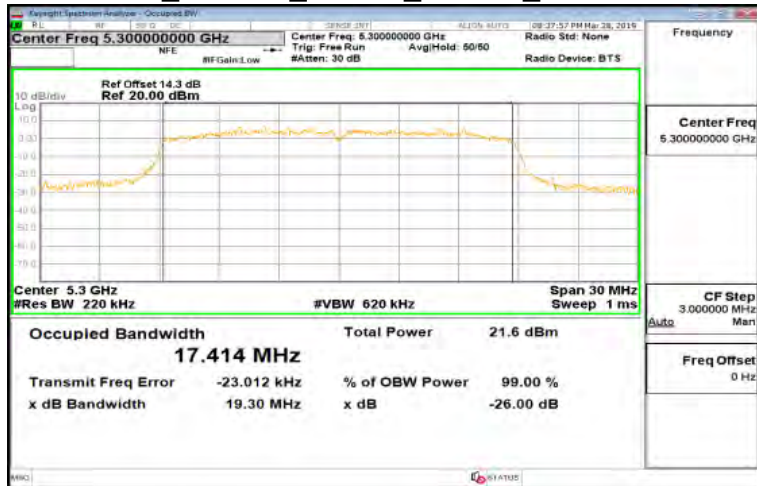
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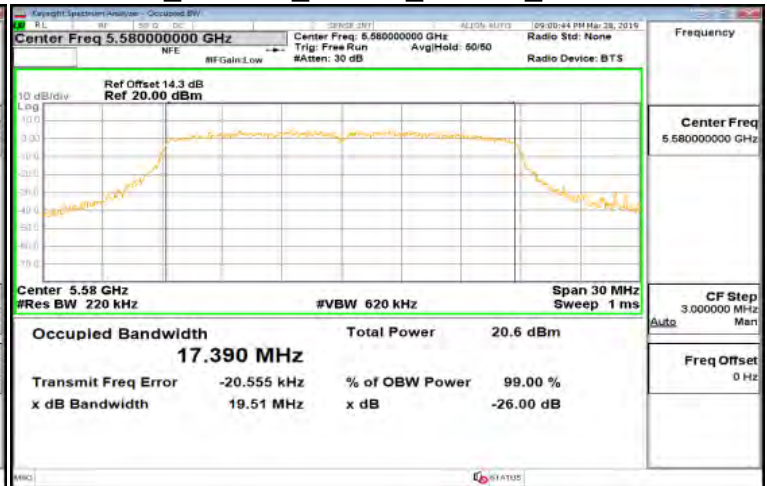
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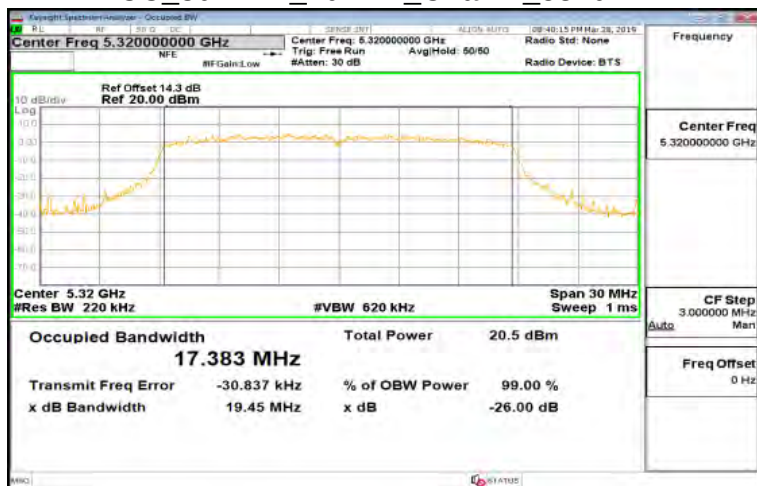
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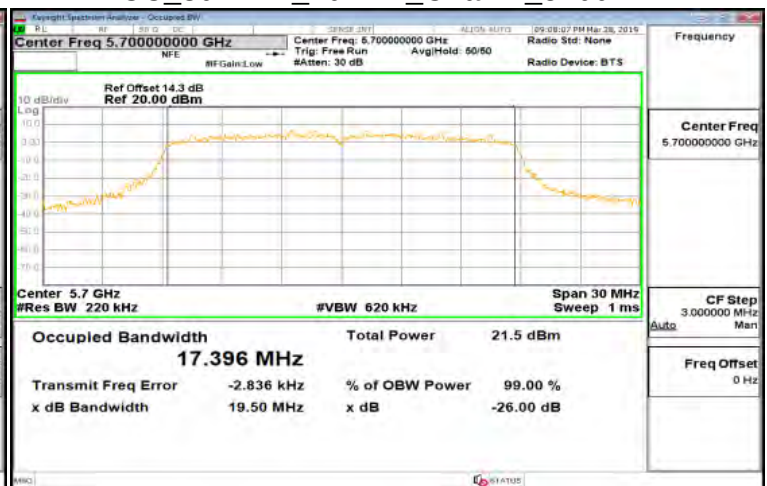
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FCC 802.11n 20MHz_Chain1_5700MHz

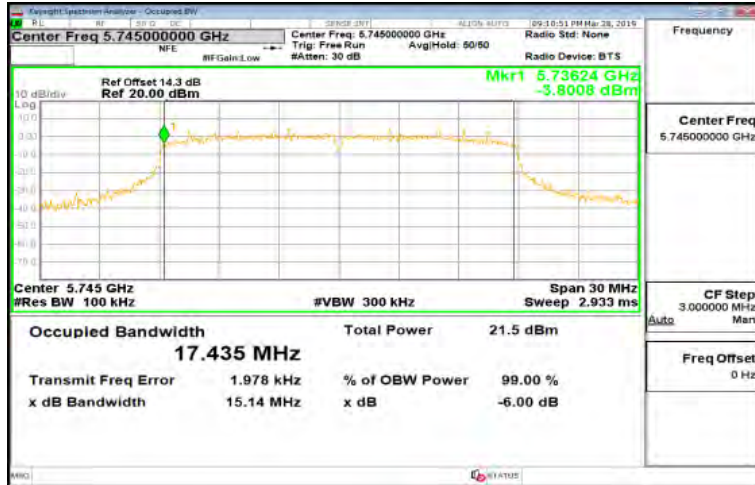


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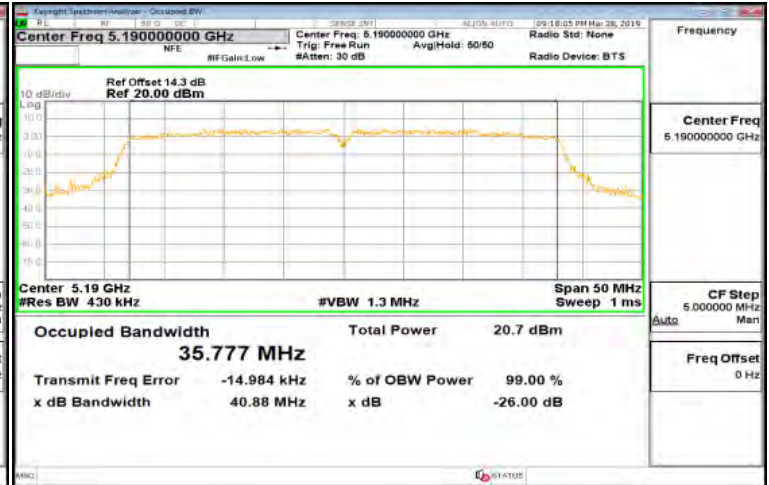
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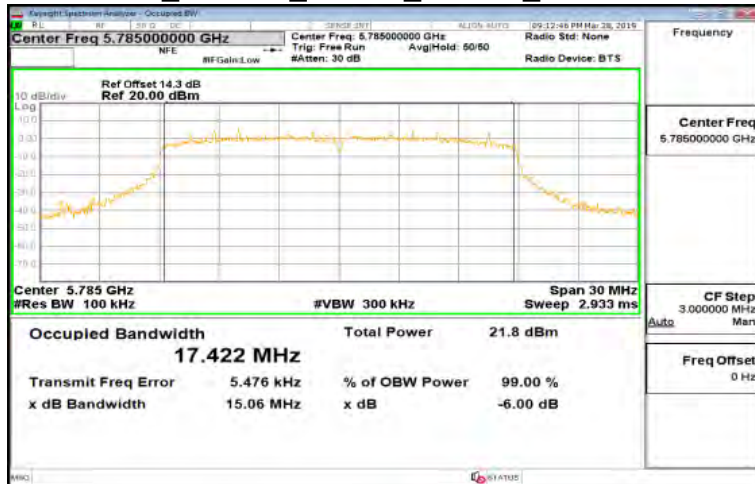
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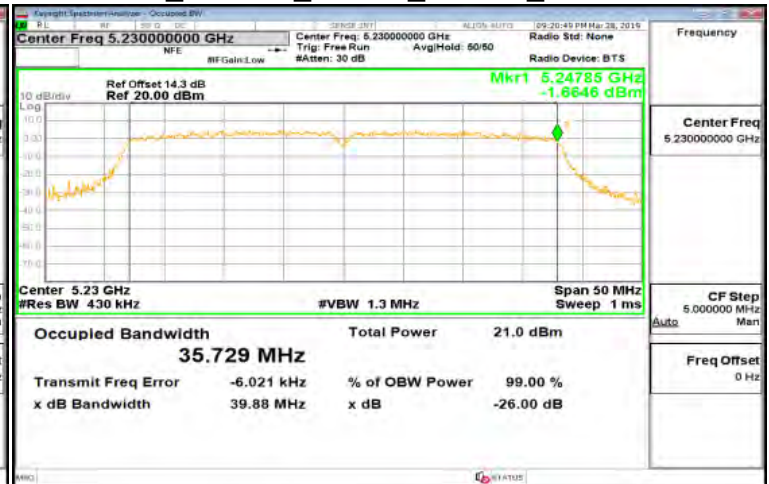
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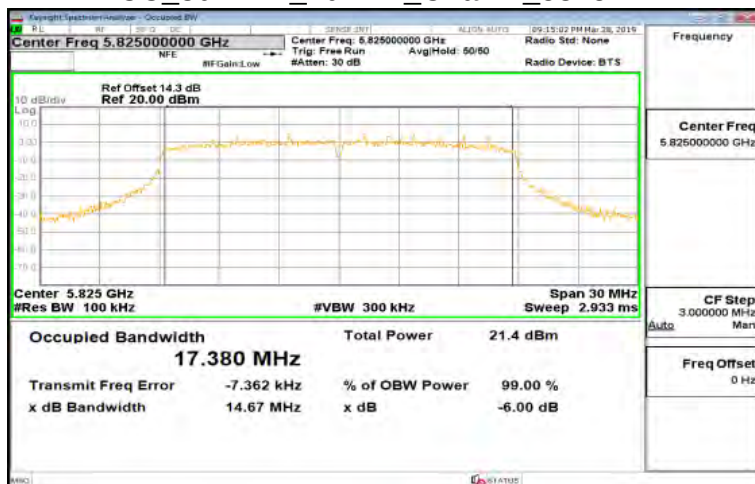
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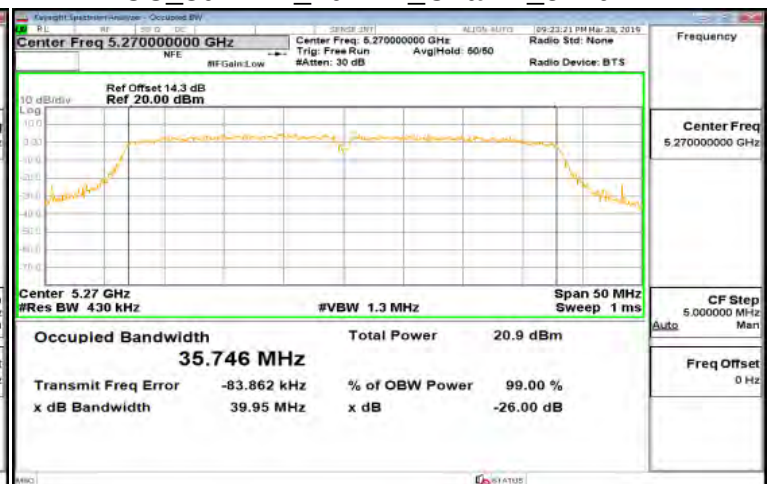
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FCC 802.11n 20MHz_Chain1_5825MHz



FCC 802.11n 40MHz_Chain1_5270MHz

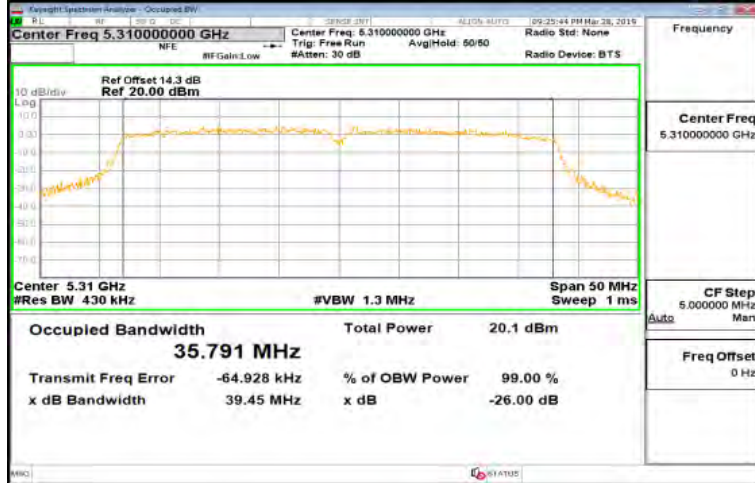


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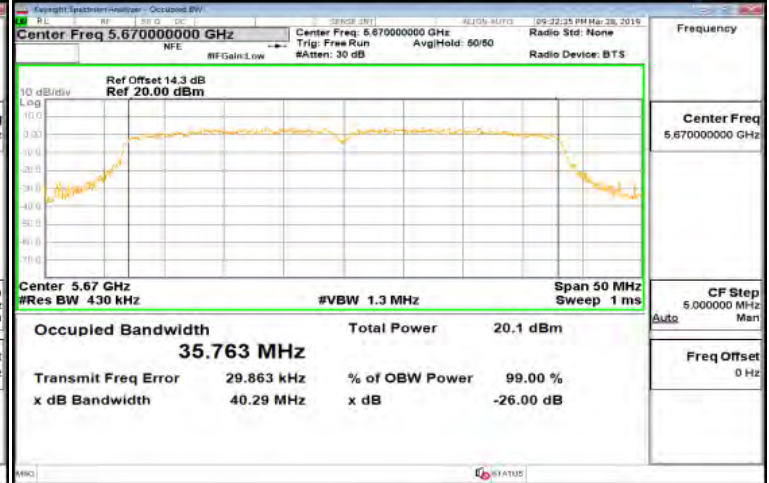
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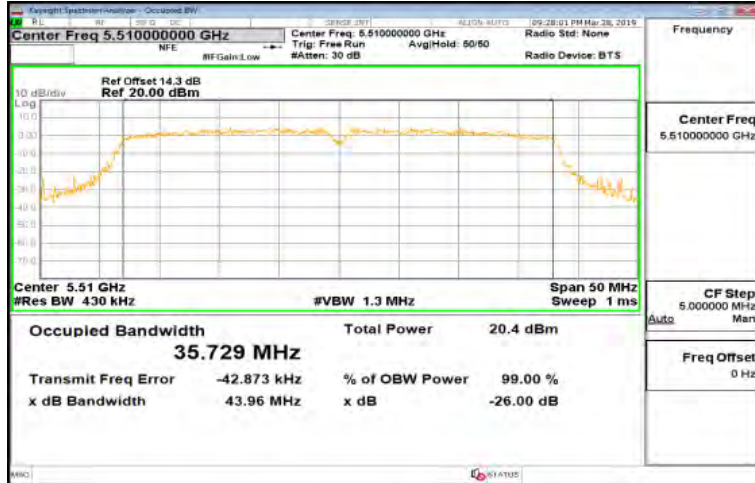
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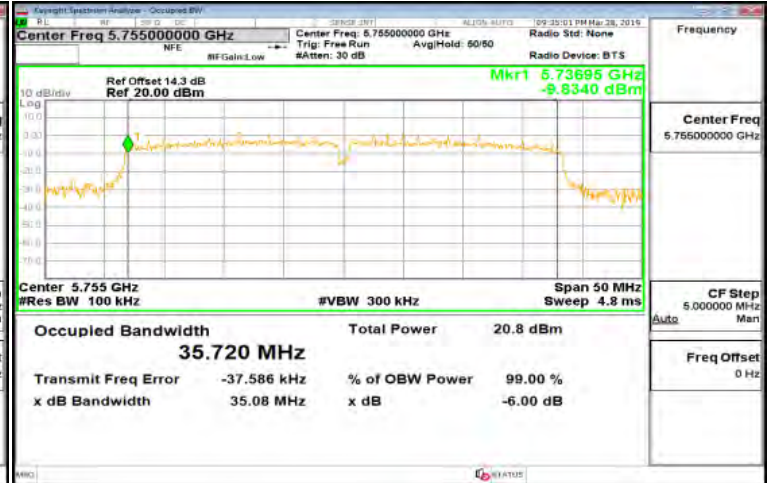
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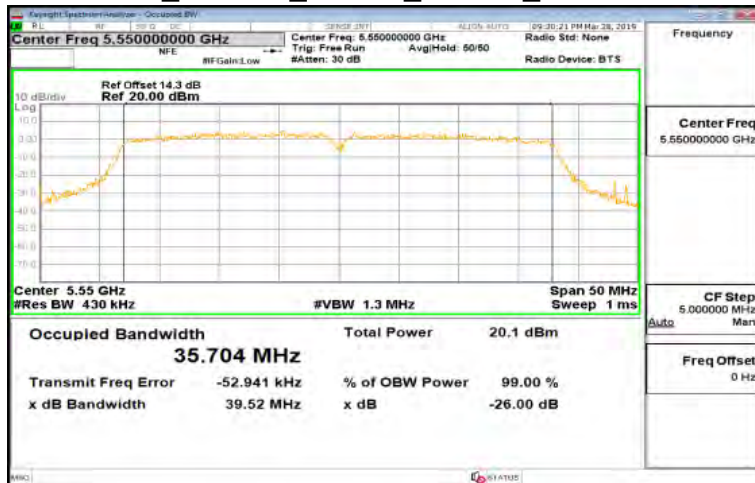
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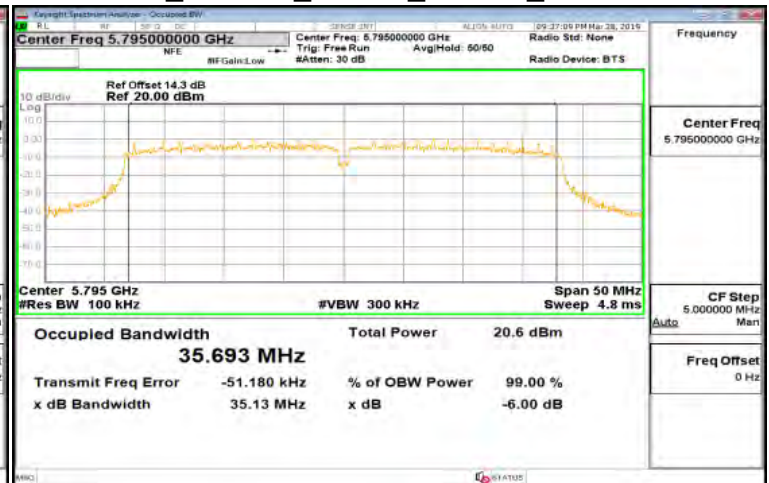
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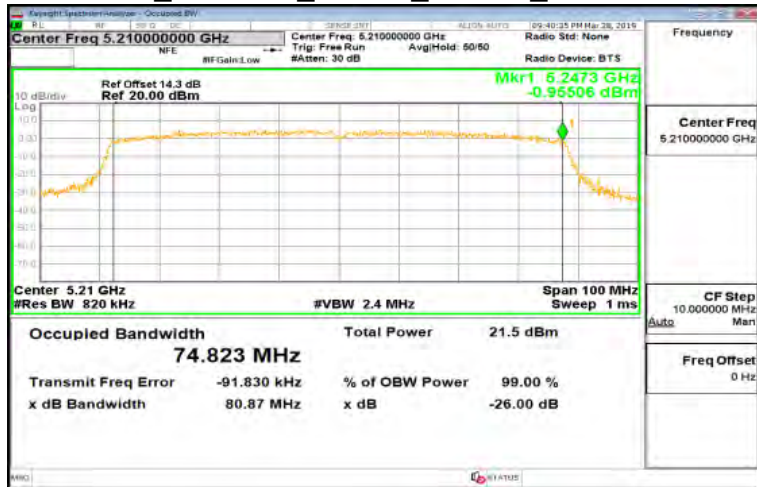


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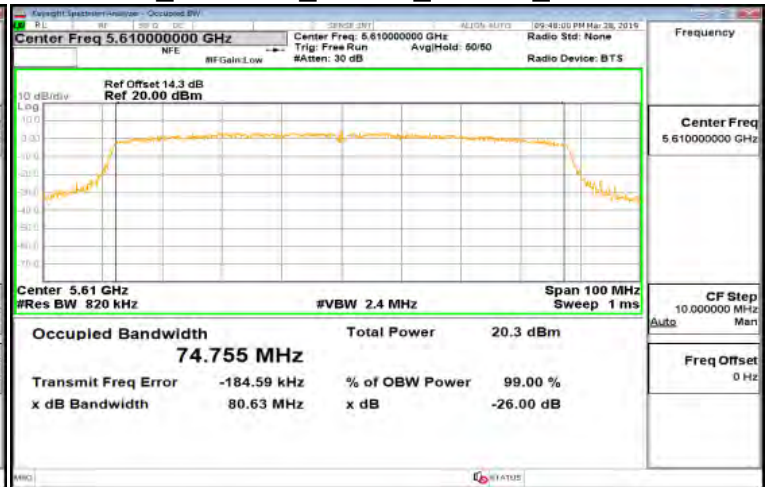
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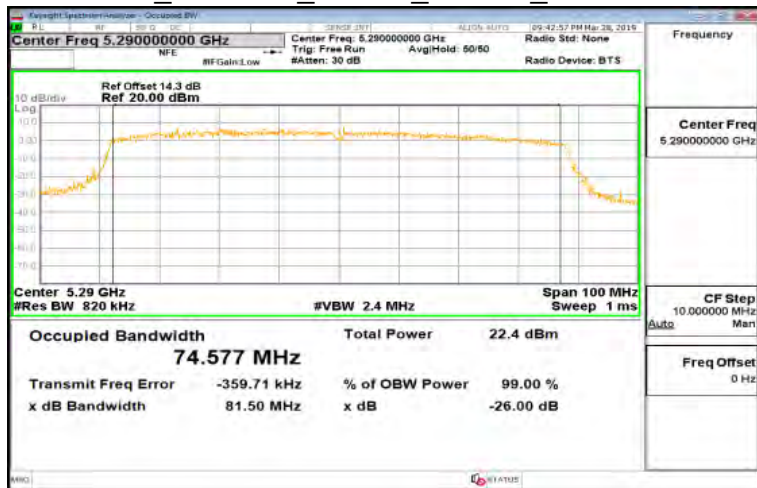
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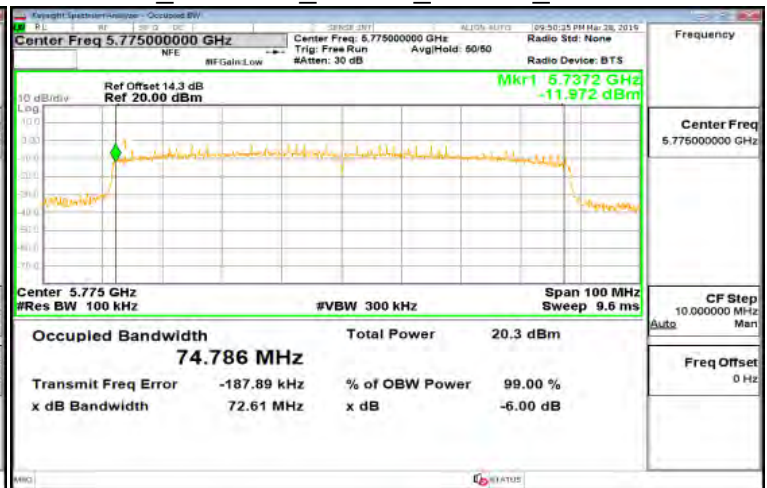
FCC 802.11ac 80MHz Chain1 5610MHz



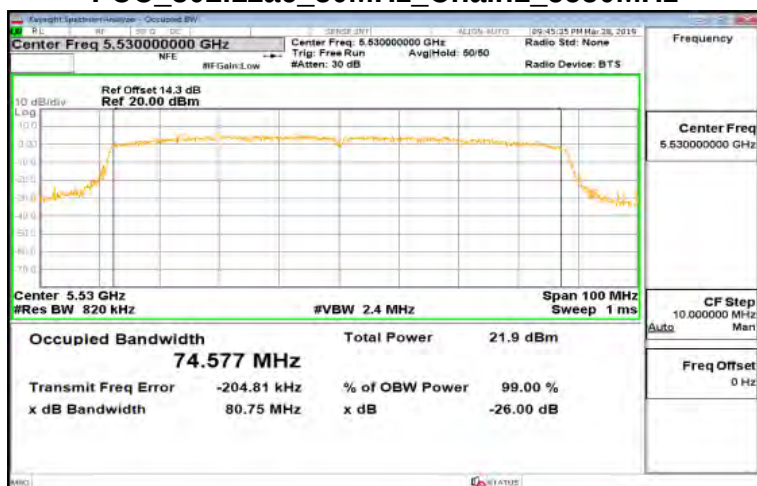
FCC 802.11ac 80MHz Chain1 5290MHz



FCC 802.11ac 80MHz Chain1 5775MHz



FCC 802.11ac 80MHz Chain1 5530MHz



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9 MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

9.1 Standard Applicable

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

(f)Cyclic Delay Diversity (CDD) [also known as cyclic shift diversity (CSD)]. CDD signals are correlated and create unintended array gain that varies with signal bandwidth, antenna geometry, and cyclic delay values. Consequently, depending on system parameters, it may be appropriate to use different values of array gain for compliance with power limits versus compliance with power spectral density limits.

(i) For power measurements on IEEE 802.11 devices, 1,2

Array Gain = 0 dB (i.e., no array gain) for NANT ≤ 4;

Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any NANT;

Array Gain = 5 log(NANT/NSS) dB or 3 dB, whichever is less, for 20-MHz channel widths with NANT ≥ 5.

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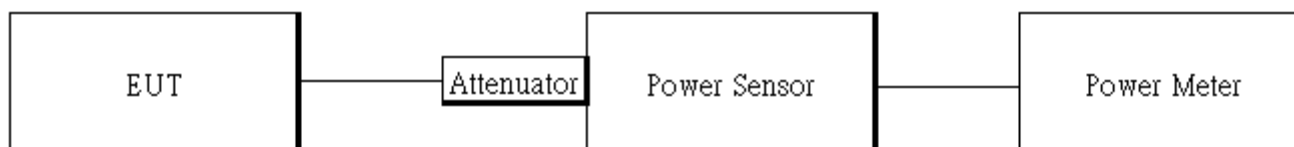
9.2 Measurement Procedure

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

9.3 Measurement Equipment Used

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power Meter	Anritsu	ML2496A	1242004	10/23/2018	10/22/2019
Power Sensor	Anritsu	MA2411B	1207365	10/23/2018	10/22/2019
Power Sensor	Anritsu	MA2411B	1207368	10/24/2018	10/23/2019
Attenuator	Mini-Circuit	BW-S10W2+	1	02/26/2019	02/25/2020
Attenuator	Mini-Circuit	BW-S10W2+	3	02/26/2019	02/25/2020

9.4 Test Set-up



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9.5 Measurement Result

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	13.25	13.72	16.81	47.925	23.98		PASS
44	5220	6	12.76	13.19	16.29	42.605	23.98		PASS
48	5240	6	12.59	12.76	15.99	39.720	23.98		PASS
52	5260	6	15.71	15.02	18.69	74.011	23.98	or $11+10\log(B) = 23.57$	PASS
60	5300	6	15.94	15.28	18.94	78.285	23.98	or $11+10\log(B) = 23.62$	PASS
64	5320	6	14.26	13.18	17.07	50.907	23.98	or $11+10\log(B) = 23.57$	PASS
100	5500	6	13.81	12.75	16.63	45.989	23.98	or $11+10\log(B) = 23.74$	PASS
116	5580	6	15.83	14.77	18.65	73.224	23.98	or $11+10\log(B) = 23.66$	PASS
140	5700	6	12.66	11.51	15.44	34.972	23.98	or $11+10\log(B) = 23.69$	PASS
149	5745	6	15.81	14.85	18.67	73.633	30.00		PASS
157	5785	6	16.12	14.79	18.82	76.208	30.00		PASS
165	5825	6	16.03	15.22	18.96	78.671	30.00		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	12.69	13.46	16.37	43.339	23.98		PASS
44	5220	MCS8	12.87	13.18	16.30	42.702	23.98		PASS
48	5240	MCS8	13.58	13.45	16.79	47.777	23.98		PASS
52	5260	MCS8	15.44	14.68	18.35	68.443	23.98	or $11+10\log(B) = 23.85$	PASS
60	5300	MCS8	15.61	14.75	18.48	70.436	23.98	or $11+10\log(B) = 23.83$	PASS
64	5320	MCS8	13.92	12.98	16.75	47.338	23.98	or $11+10\log(B) = 23.85$	PASS
100	5500	MCS8	13.82	12.78	16.61	45.791	23.98	or $11+10\log(B) = 23.95$	PASS
116	5580	MCS8	15.53	14.35	18.26	66.937	23.98	or $11+10\log(B) = 23.87$	PASS
140	5700	MCS8	13.88	12.71	16.61	45.825	23.98	or $11+10\log(B) = 23.90$	PASS
149	5745	MCS8	15.23	14.67	18.24	66.615	30.00		PASS
157	5785	MCS8	15.76	14.52	18.46	70.159	30.00		PASS
165	5825	MCS8	15.46	14.96	18.49	70.695	30.00		PASS

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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	14.05	13.72	17.32	53.974	23.98	PASS
46	5230	MCS8	14.26	13.58	17.37	54.539	23.98	PASS
54	5270	MCS8	14.24	13.47	17.31	53.775	23.98 or 11+10log(B) = 26.94	PASS
62	5310	MCS8	13.27	12.54	16.35	43.192	23.98 or 11+10log(B) = 26.90	PASS
102	5510	MCS8	9.85	8.94	12.85	19.287	23.98 or 11+10log(B) = 26.94	PASS
110	5550	MCS8	14.39	13.41	17.36	54.467	23.98 or 11+10log(B) = 26.95	PASS
134	5670	MCS8	13.52	12.43	16.44	44.084	23.98 or 11+10log(B) = 26.92	PASS
151	5755	MCS8	11.94	11.44	15.13	32.591	30.00	PASS
159	5795	MCS8	14.28	13.37	17.28	53.488	30.00	PASS

802.11ac_VHT80_MIMO

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
42	5210	MCS0	6.78	6.48	10.81	12.049	23.98	PASS
58	5290	MCS0	11.09	10.12	14.81	30.263	23.98 or 11+10log(B) = 30.03	PASS
106	5530	MCS0	4.21	3.74	8.16	6.544	23.98 or 11+10log(B) = 29.98	PASS
122	5610	MCS0	13.7	12.63	17.37	54.638	23.98 or 11+10log(B) = 30.05	PASS
155	5775	MCS0	12.25	11.87	16.24	42.085	30.00	PASS

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10 MAXIMUM POWER SPECTRAL DENSITY

10.1 Standard Applicable

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

(f)Cyclic Delay Diversity (CDD) [also known as cyclic shift diversity (CSD)]. CDD signals are correlated and create unintended array gain that varies with signal bandwidth, antenna geometry, and cyclic delay values. Consequently, depending on system parameters, it may be appropriate to use different values of array gain for compliance with power limits versus compliance with power spectral density limits.

(i) If all antennas have the same gain, GANT, Directional gain = GANT + Array Gain, where Array Gain is as follows.

- For power spectral density (PSD) measurements on all devices,
Array Gain = 10 log(NANT/NSS) dB.

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	8.01	8.99	dBm/MHz
UNII-2A	8.01	8.99	dBm/MHz
U-NII-2C	8.01	8.99	dBm/MHz
U-NII-3	8.01	27.99	dBm/500 kHz

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10.2 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 Spectrum.
4. **For U-NII1, U-NII-2A, U-NII-2C Band:**
Set RBW=1MHz, VBW=3MHz, where span is enough to capture the entire bandwidth, Sweep time = Auto (601 pts), detector = sample, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)
For U-NII-3 Band:
Set RBW=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 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=2 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

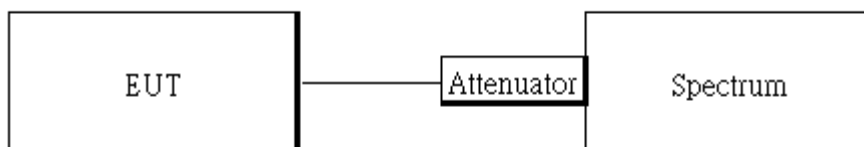
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
PXA Spectrum Analyzer	Agilent	N9030A	MY53120760	04/22/2019	04/21/2020
Thermo-static/Hrgrosatic Chamber	TAICHY	MHG-150LF	930619	10/08/2018	10/07/2019
DC Block	Mini-Circuits	BLK-18-S+	31129(1)	02/26/2019	02/25/2020
Attenuator	Mini-Circuit	BW-S10W2+	1	02/26/2019	02/25/2020
Attenuator	Mini-Circuit	BW-S10W2+	3	02/26/2019	02/25/2020

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10.4 Test Set-up



10.5 Measurement Result

POWER DENSITY 802.11a MODE_2TX					
Frequency (MHz)	PSD W/O Duty Factor (dBm)	Duty Factor	PSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5180	1.65	0.30	1.95	8.99	-7.04
5220	1.39	0.30	1.69	8.99	-7.30
5240	1.51	0.30	1.81	8.99	-7.18
5260	4.35	0.30	4.65	8.99	-4.34
5300	5.93	0.30	6.23	8.99	-2.76
5320	4.86	0.30	5.16	8.99	-3.83
5500	5.09	0.30	5.39	8.99	-3.60
5580	2.36	0.30	2.66	8.99	-6.33
5700	3.34	0.30	3.64	8.99	-5.35
5745	14.09	-	14.09	27.99	-13.90
5785	12.89	-	12.89	27.99	-15.10
5825	12.36	-	12.36	27.99	-15.63
POWER DENSITY 802.11n HT20 MODE_MIMO					
Frequency (MHz)	PSD W/O Duty Factor (dBm)	Duty Factor	PSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5180	1.23	0.27	1.50	8.99	-7.49
5220	1.68	0.27	1.95	8.99	-7.04
5240	1.45	0.27	1.72	8.99	-7.27
5260	1.53	0.27	1.80	8.99	-7.19
5300	0.92	0.27	1.19	8.99	-7.80
5320	4.66	0.27	4.93	8.99	-4.06
5500	2.74	0.27	3.01	8.99	-5.98
5580	2.40	0.27	2.67	8.99	-6.32
5700	4.07	0.27	4.34	8.99	-4.65
5745	12.95	-	12.95	27.99	-15.04
5785	12.99	-	12.99	27.99	-15.00
5825	12.43	-	12.43	27.99	-15.56

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POWER DENSITY 802.11n HT40 MODE_MIMO					
Frequency (MHz)	PSD W/O Duty Factor (dBm)	Duty Factor	PSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5190	-2.69	0.42	-2.27	8.99	-11.26
5230	-1.25	0.42	-0.83	8.99	-9.82
5270	-4.4	0.42	-3.98	8.99	-12.97
5310	-6.87	0.42	-6.45	8.99	-15.44
5510	-5.84	0.42	-5.42	8.99	-14.41
5550	-5.25	0.42	-4.83	8.99	-13.82
5670	-4.77	0.42	-4.35	8.99	-13.34
5755	9.11	-	9.11	27.99	-18.88
5795	8.37	-	8.37	27.99	-19.62
POWER DENSITY 802.11ac VHT80 MODE_MIMO					
Frequency (MHz)	PSD W/O Duty Factor (dBm)	Duty Factor	PSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5210	-10.44	1.17	-9.27	8.99	-18.26
5290	-4.95	1.17	-3.78	8.99	-12.77
5530	-6.73	1.17	-5.56	8.99	-14.55
5610	-9.91	1.17	-8.74	8.99	-17.73
5775	5.08	-	5.08	27.99	-22.91

Note:

Cable Loss= 14.3 dB

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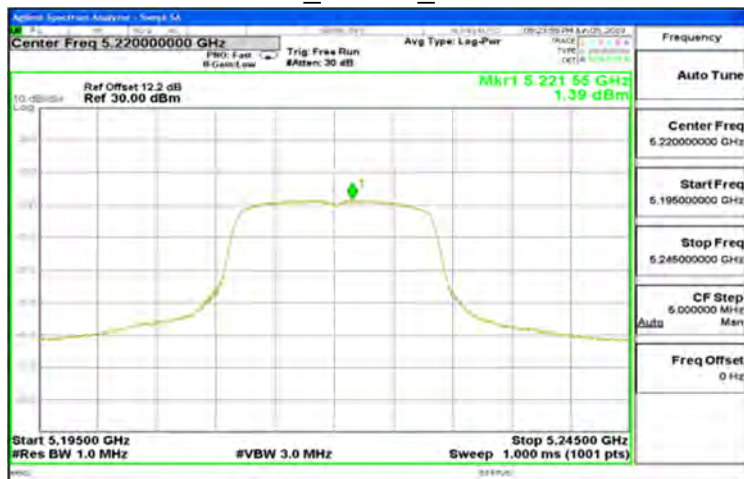
802.11a_20MHz_5180MHz



802.11a_20MHz_5260MHz



802.11a_20MHz_5220MHz



802.11a_20MHz_5300MHz



802.11a_20MHz_5240MHz



802.11a_20MHz_5320MHz

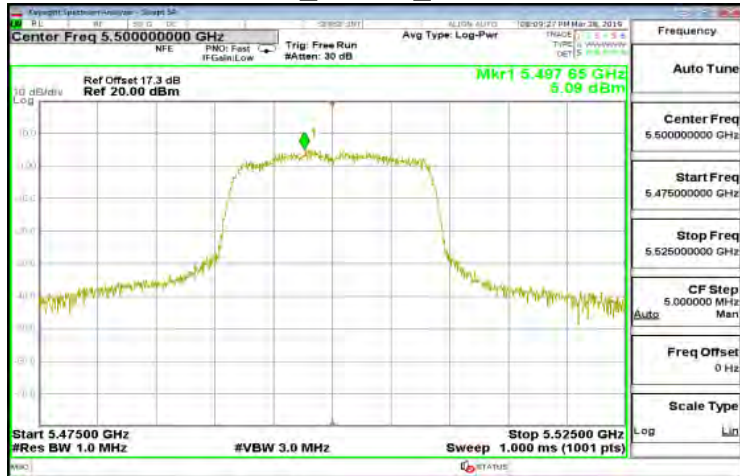


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802.11a_20MHz_5500MHz



802.11a_20MHz_5745MHz



802.11a_20MHz_5580MHz



802.11a_20MHz_5785MHz



802.11a_20MHz_5700MHz



802.11a_20MHz_5825MHz

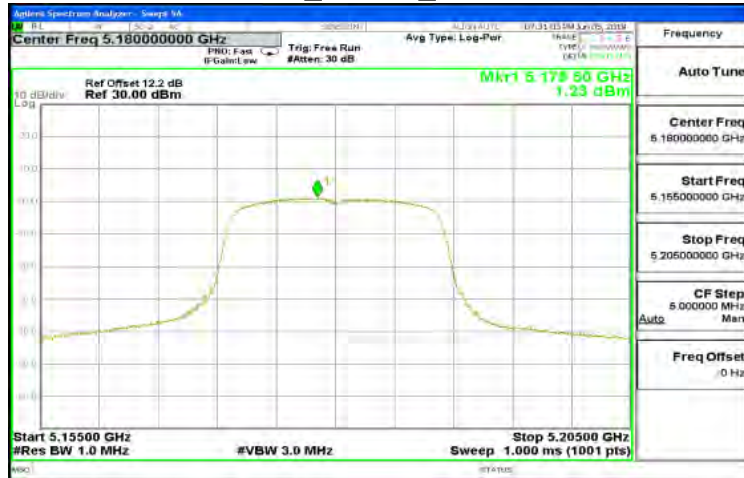


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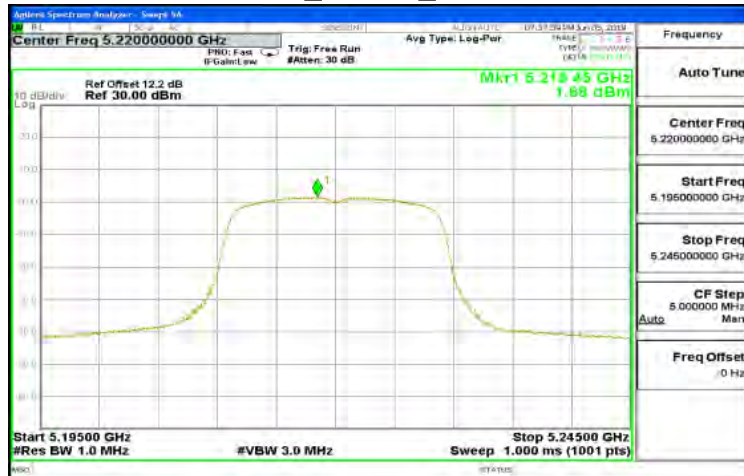
802.11n_20MHz_5180MHz



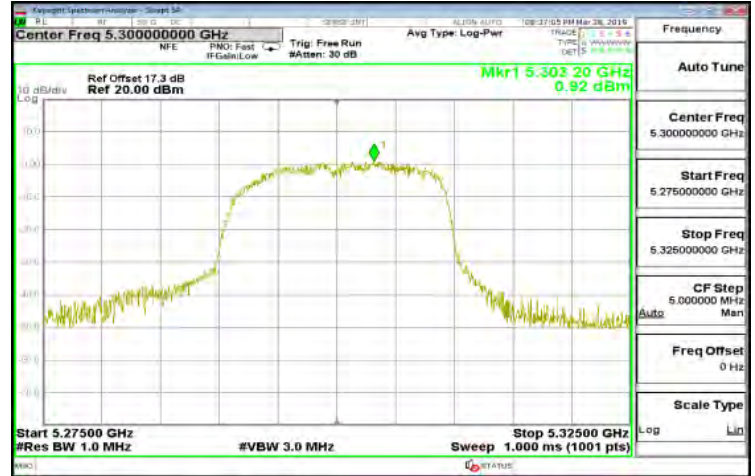
802.11n_20MHz_5260MHz



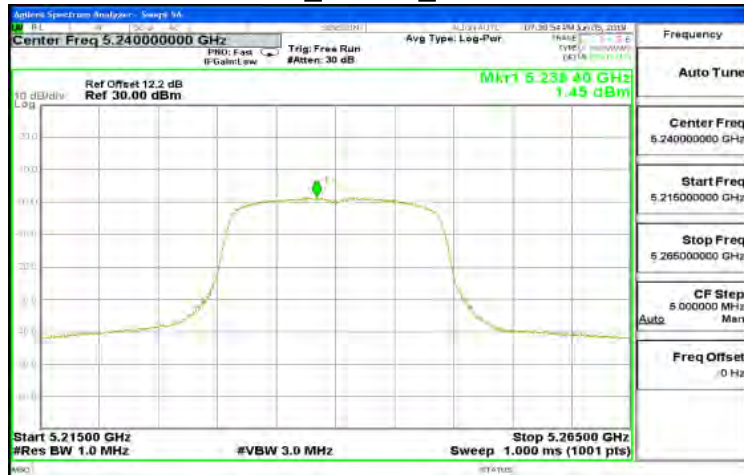
802.11n_20MHz_5220MHz



802.11n_20MHz_5300MHz



802.11n_20MHz_5240MHz



802.11n_20MHz_5320MHz



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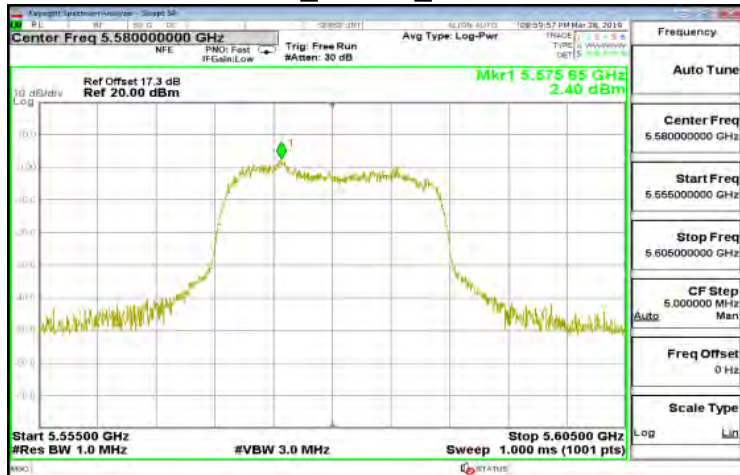
802.11n_20MHz_5500MHz



802.11n_20MHz_5745MHz



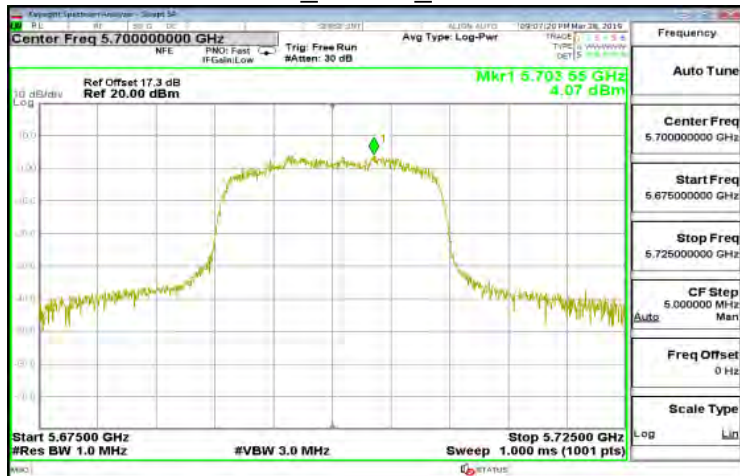
802.11n_20MHz_5580MHz



802.11n_20MHz_5785MHz



802.11n_20MHz_5700MHz



802.11n_20MHz_5825MHz

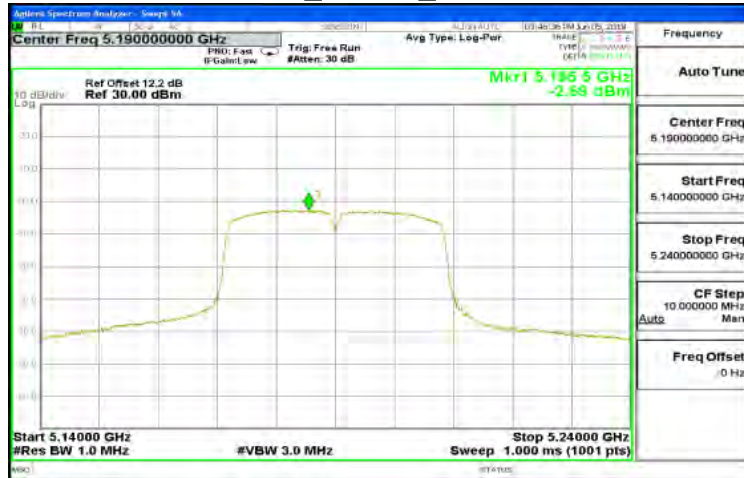


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802.11n_40MHz_5190MHz



802.11n_40MHz_5310MHz



802.11n_40MHz_5230MHz



802.11n_40MHz_5510MHz



802.11n_40MHz_5270MHz



802.11n_40MHz_5550MHz



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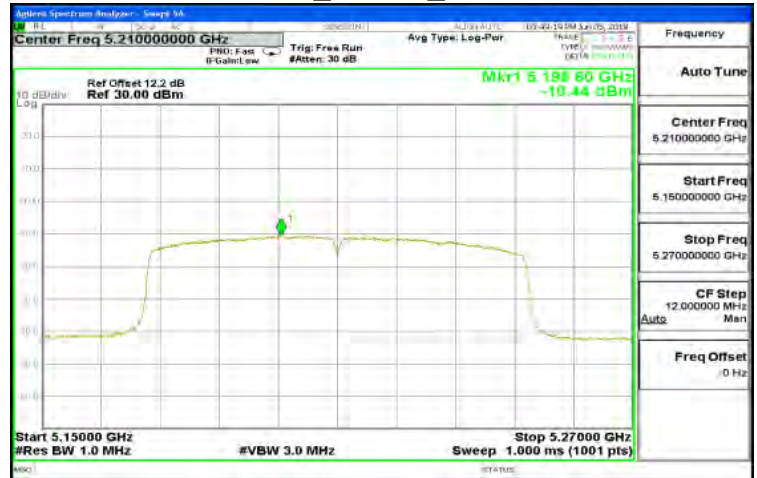
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802.11n_40MHz_5670MHz



802.11ac_80MHz_5210MHz



802.11n_40MHz_5755MHz



802.11ac_80MHz_5290MHz



802.11n_40MHz_5795MHz



802.11ac_80MHz_5530MHz



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802.11ac_80MHz_5610MHz



802.11ac_80MHz_5775MHz



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11 UNDESIRABLE RADIATED EMISSION MEASUREMENT

11.1 Standard Applicable

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	LIMIT	
FCC KDB 789033 D02 General UNII Test Procedures New Rules	FIELD STRENGTH AT 3m	
	PK: 74 (dBμV/m)	AV 54 (dBμV/m)
APPLICABLE TO	EIRP LIMIT	FIELD STRENGTH AT 3m
15.407(b)(1)	PK: -27 (dBm/MHz)	PK: 68.3 (dBμV/m)
15.407(b)(2)		
15.407(b)(3)		
15.407(b)(4)(i)	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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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 (dB μ V/m) = 20 log Emission level (dB μ V/m)

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11.2 Measurement Equipment Used

966A Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Band Reject Filters	MICRO TRONICS	BRM 50702	120	02/26/2019	02/25/2020
Bilog Antenna	Sunol Sciences	JB3	A030105	07/13/2018	07/12/2019
Cable	HUBER SU-HNER	SUCOFLEX 104PEA	25157	02/26/2019	02/25/2020
Cable	HUBER SU-HNER	SUCOFLEX 104PEA	20995	02/26/2019	02/25/2020
Digital Thermo-Hygro Meter	WISEWIND	1206	D07	01/30/2019	01/29/2020
double Ridged Guide Horn Antenna	ETC	MCTD 1209	DRH13M02003	08/20/2018	08/19/2019
Loop Antenna	COM-POWER	AL-130	121051	03/22/2019	03/21/2020
Pre-Amplifier	EMEC	EM330	060609	02/26/2019	02/25/2020
Pre-Amplifier	HP	8449B	3008A00965	02/26/2019	02/25/2020
PSA Series Spectrum Analyzer	Agilent	E4446A	MY46180323	05/31/2018	05/30/2019
Antenna Tower	CCS	CC-A-1F	N/A	N.C.R	N.C.R
Controller	CCS	CC-C-1F	N/A	N.C.R	N.C.R
Turn Table	CCS	CC-T-1F	N/A	N.C.R	N.C.R
Software	e3 V6.11-20180413				

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

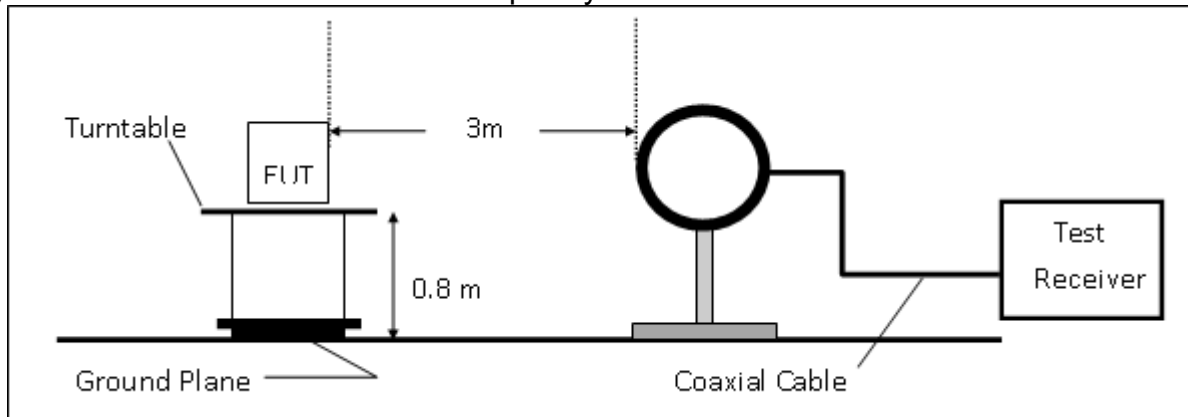
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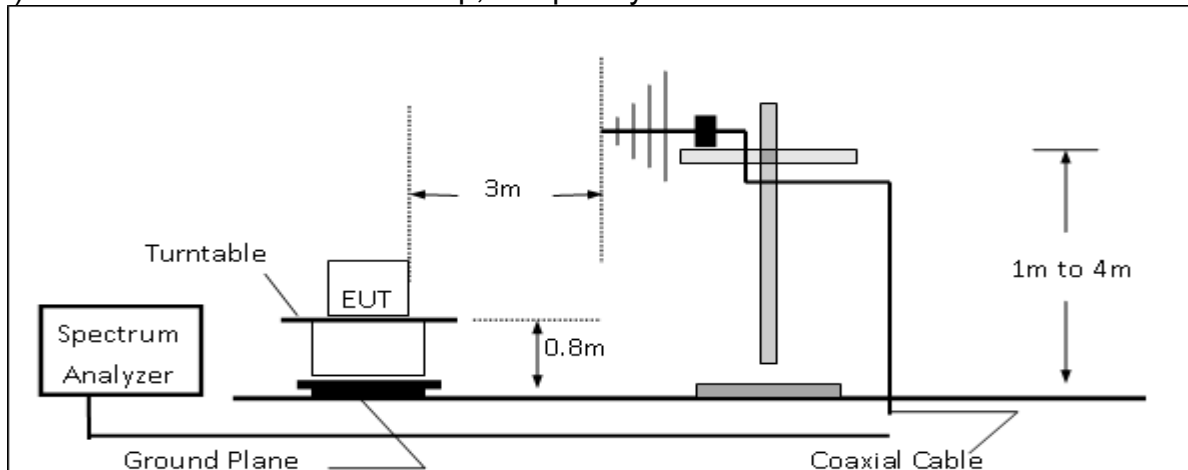
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11.3 Test SET-UP

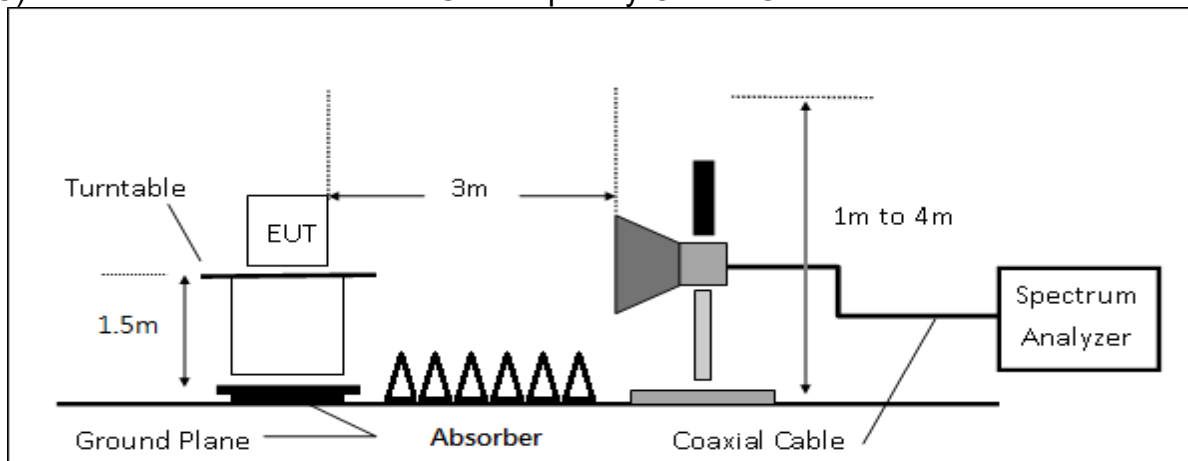
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(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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11.4 Measurement Procedure

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
3. The EUT was placed on a turn table with 0.8m for frequency< 1GHz and 1.5m for frequency> 1GHz above ground plane.
4. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
5. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
6. Set the spectrum analyzer as RBW=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 ≥ 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.

11.5 Field Strength Calculation

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

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

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

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

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

11.6 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.

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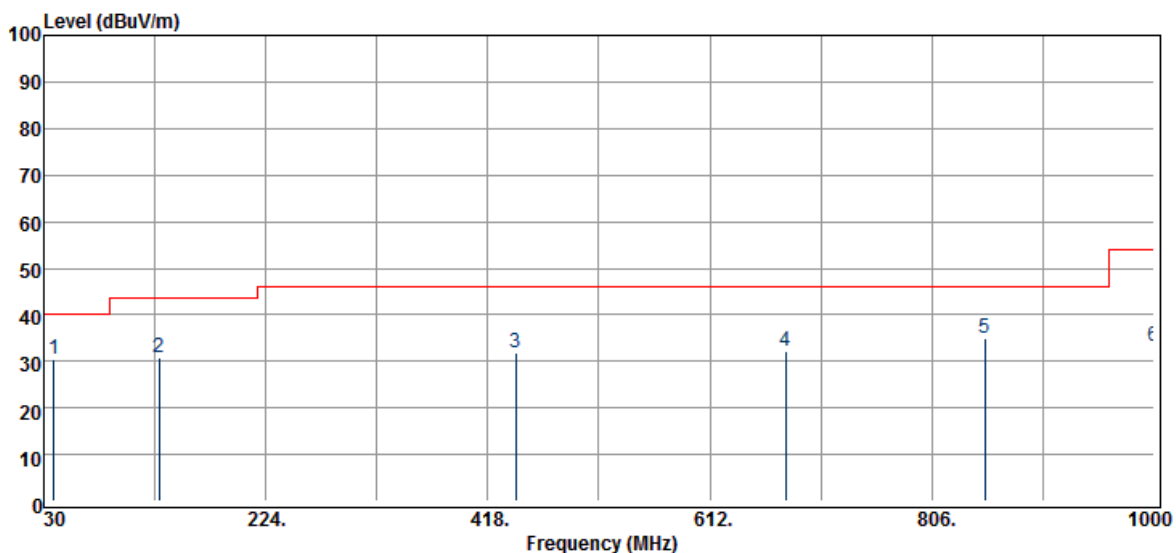
11.7 Measurement Result

Radiated Spurious Emission Measurement Result Below 1GHz Worst-Case Data:

PCB Antenna

Project Number : T190321W03
 Operation Band : 802.11a B1
 Fundamental Frequency : 5220 MHz
 Operation Mode : Tx CH MID
 EUT Pol. : H Plan

Test Date : 2019-04-10
 Temp./Humi. : 21 deg_C / 62 RH
 Engineer : Jerry
 Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
38.73	Peak	38.96	-8.56	30.40	40.00	-9.60
130.88	Peak	39.76	-9.02	30.74	43.50	-12.76
442.25	Peak	35.95	-4.04	31.91	46.00	-14.09
677.96	Peak	32.16	-0.05	32.11	46.00	-13.89
852.56	Peak	32.07	2.78	34.85	46.00	-11.15
1000.00	Peak	28.04	5.27	33.31	54.00	-20.69

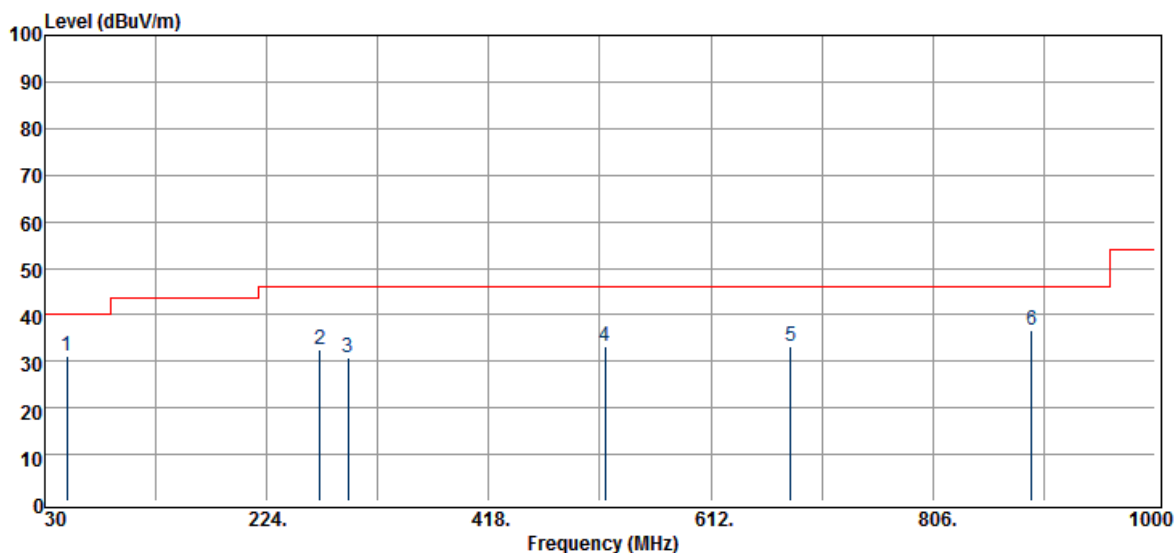
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Project Number : T190321W03
 Operation Band : 802.11a B1
 Fundamental Frequency : 5220 MHz
 Operation Mode : Tx CH MID
 EUT Pol. : H Plan

Test Date : 2019-04-10
 Temp./Humi. : 21 deg_C / 62 RH
 Engineer : Jerry
 Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
49.40	Peak	45.96	-14.98	30.98	40.00	-9.02
270.56	Peak	41.02	-8.53	32.49	46.00	-13.51
294.81	Peak	39.19	-8.32	30.87	46.00	-15.13
519.85	Peak	35.84	-2.60	33.24	46.00	-12.76
681.84	Peak	33.53	-0.29	33.24	46.00	-12.76
892.33	Peak	32.59	4.10	36.69	46.00	-9.31

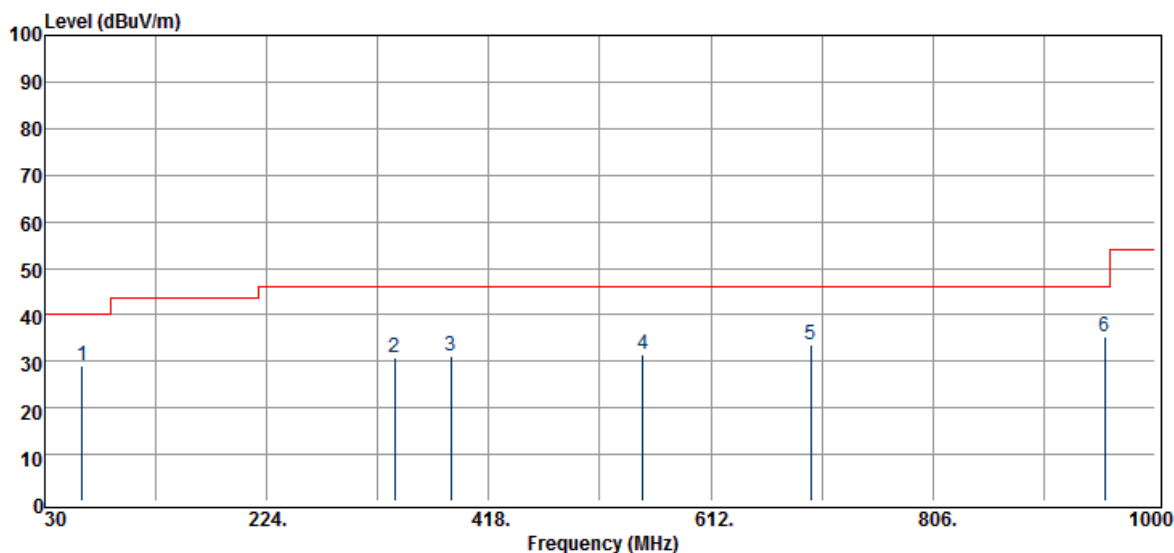
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Project Number : T190321W03
 Operation Band : 802.11a B2a
 Fundamental Frequency : 5300 MHz
 Operation Mode : Tx CH MID
 EUT Pol. : H Plan

Test Date : 2019-04-10
 Temp./Humi. : 21 deg_C / 62 RH
 Engineer : Jerry
 Measurement Antenna Pol. : VERTICAL



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	44.46	-15.49	28.97	40.00	-11.03
335.55	Peak	38.08	-7.18	30.90	46.00	-15.10
385.02	Peak	37.26	-6.23	31.03	46.00	-14.97
552.83	Peak	33.86	-2.25	31.61	46.00	-14.39
699.30	Peak	33.61	-0.04	33.57	46.00	-12.43
956.35	Peak	30.91	4.25	35.16	46.00	-10.84

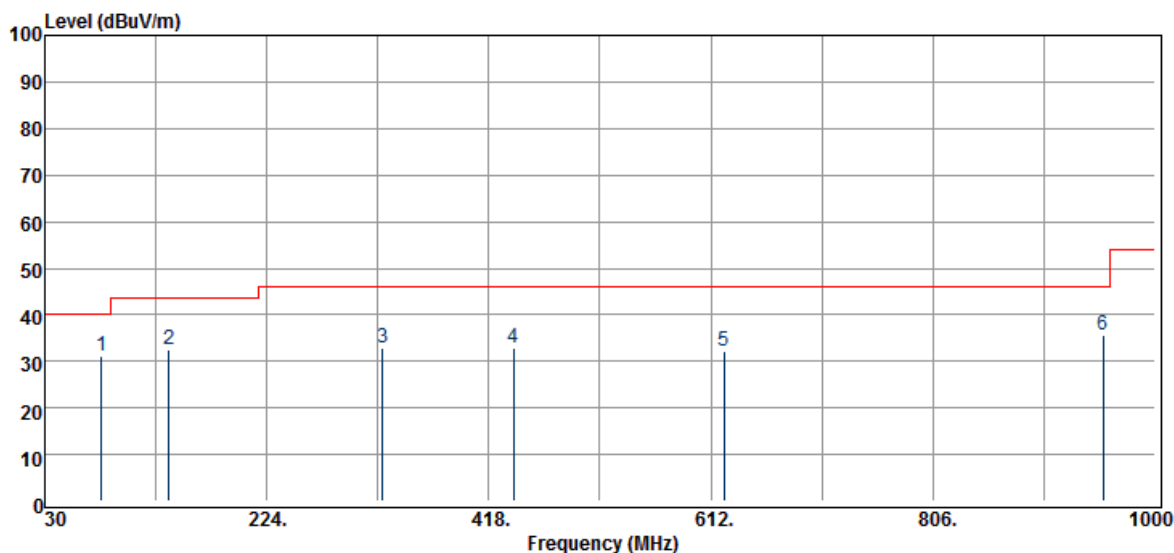
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Project Number : T190321W03
 Operation Band : 802.11a B2a
 Fundamental Frequency : 5300 MHz
 Operation Mode : Tx CH MID
 EUT Pol. : H Plan

Test Date : 2019-04-10
 Temp./Humi. : 21 deg_C / 62 RH
 Engineer : Jerry
 Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
79.47	Peak	46.13	-15.14	30.99	40.00	-9.01
138.64	Peak	42.12	-9.70	32.42	43.50	-11.08
324.88	Peak	40.07	-7.33	32.74	46.00	-13.26
439.34	Peak	36.93	-4.11	32.82	46.00	-13.18
623.64	Peak	32.95	-0.66	32.29	46.00	-13.71
954.41	Peak	31.47	4.23	35.70	46.00	-10.30

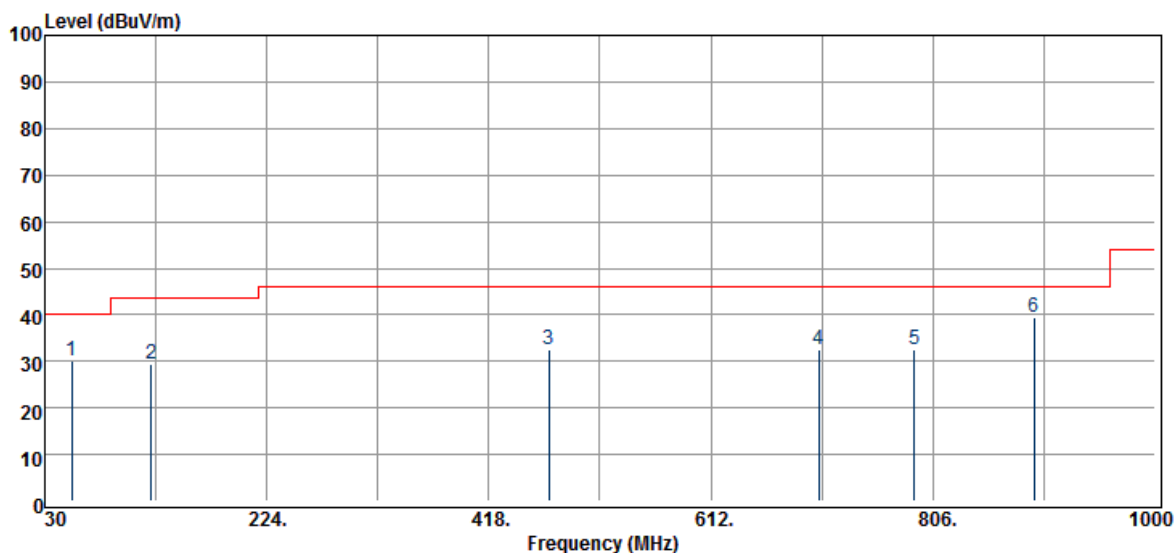
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Project Number : T190321W03
 Operation Band : 802.11a B2c
 Fundamental Frequency : 5580 MHz
 Operation Mode : Tx CH MID
 EUT Pol. : H Plan

Test Date : 2019-04-10
 Temp./Humi. : 21 deg_C / 62 RH
 Engineer : Jerry
 Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
53.28	Peak	46.06	-15.81	30.25	40.00	-9.75
123.12	Peak	38.05	-8.78	29.27	43.50	-14.23
470.38	Peak	35.73	-3.27	32.46	46.00	-13.54
706.09	Peak	32.53	0.10	32.63	46.00	-13.37
789.51	Peak	31.36	1.09	32.45	46.00	-13.55
894.27	Peak	35.29	4.07	39.36	46.00	-6.64

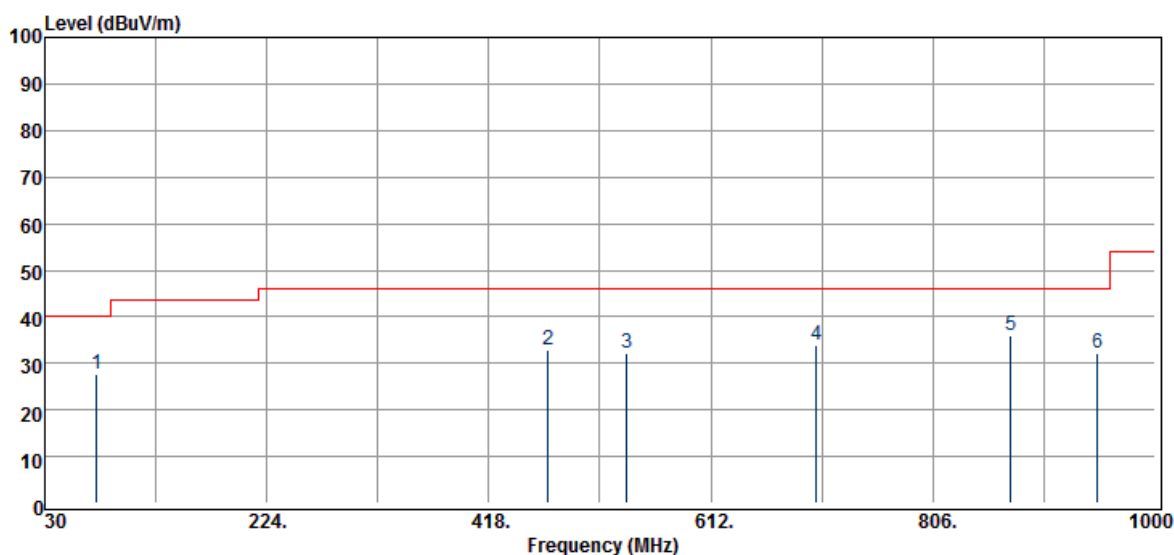
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Project Number : T190321W03
 Operation Band : 802.11a B2c
 Fundamental Frequency : 5580 MHz
 Operation Mode : Tx CH MID
 EUT Pol. : H Plan

Test Date : 2019-04-10
 Temp./Humi. : 21 deg_C / 62 RH
 Engineer : Jerry
 Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
75.59	Peak	42.47	-14.79	27.68	40.00	-12.32
469.41	Peak	36.34	-3.34	33.00	46.00	-13.00
538.28	Peak	34.32	-2.16	32.16	46.00	-13.84
704.15	Peak	34.02	-0.07	33.95	46.00	-12.05
873.90	Peak	32.78	3.10	35.88	46.00	-10.12
949.56	Peak	28.31	4.02	32.33	46.00	-13.67

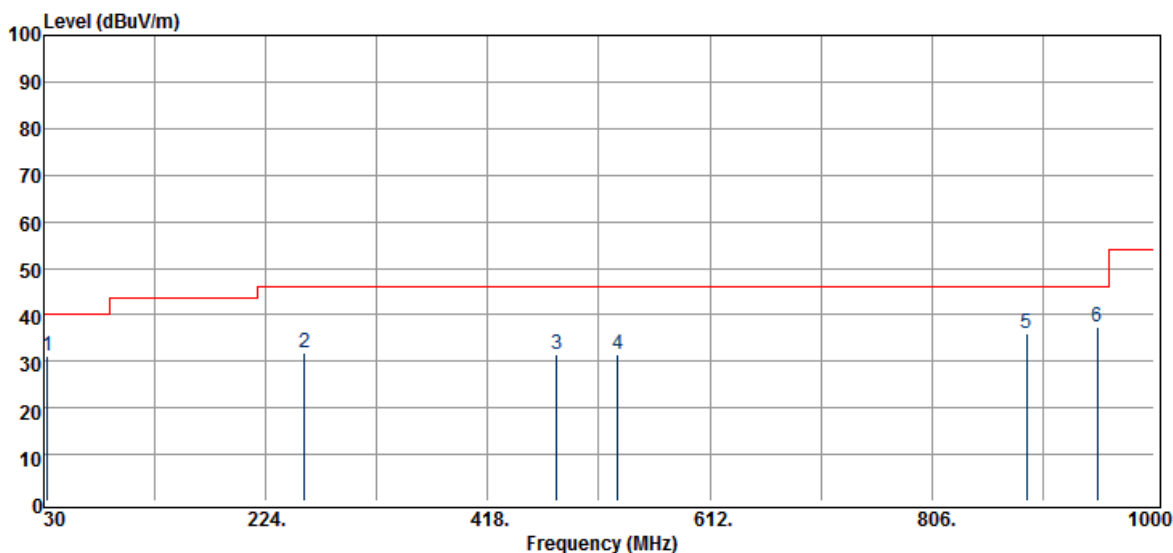
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Project Number : T190321W03
 Operation Band : 802.11a B3
 Fundamental Frequency : 5785 MHz
 Operation Mode : Tx CH MID
 EUT Pol. : H Plan

Test Date : 2019-04-10
 Temp./Humi. : 21 deg_C / 62 RH
 Engineer : Jerry
 Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
32.91	Peak	35.37	-4.28	31.09	40.00	-8.91
257.95	Peak	41.91	-10.00	31.91	46.00	-14.09
478.14	Peak	34.46	-2.97	31.49	46.00	-14.51
531.49	Peak	33.68	-2.24	31.44	46.00	-14.56
888.45	Peak	32.13	3.85	35.98	46.00	-10.02
950.53	Peak	33.23	4.10	37.33	46.00	-8.67

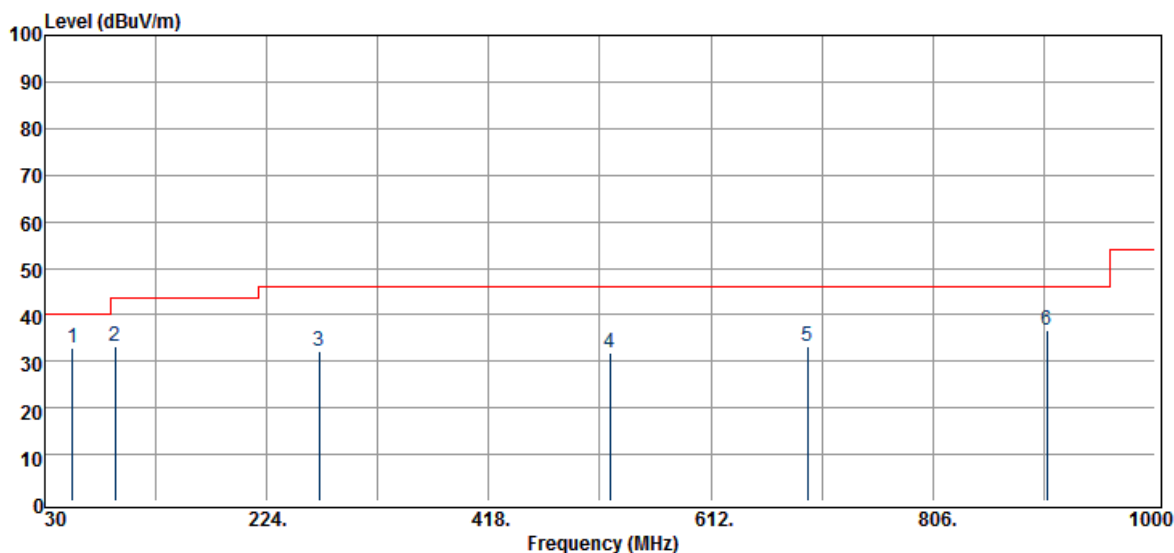
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Project Number : T190321W03
 Operation Band : 802.11a B3
 Fundamental Frequency : 5785 MHz
 Operation Mode : Tx CH MID
 EUT Pol. : H Plan

Test Date : 2019-04-10
 Temp./Humi. : 21 deg_C / 62 RH
 Engineer : Jerry
 Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
54.25	Peak	48.90	-15.96	32.94	40.00	-7.06
91.11	Peak	48.21	-15.12	33.09	43.50	-10.41
269.59	Peak	40.83	-8.58	32.25	46.00	-13.75
523.73	Peak	34.11	-2.36	31.75	46.00	-14.25
696.39	Peak	33.24	-0.16	33.08	46.00	-12.92
905.91	Peak	32.53	4.12	36.65	46.00	-9.35

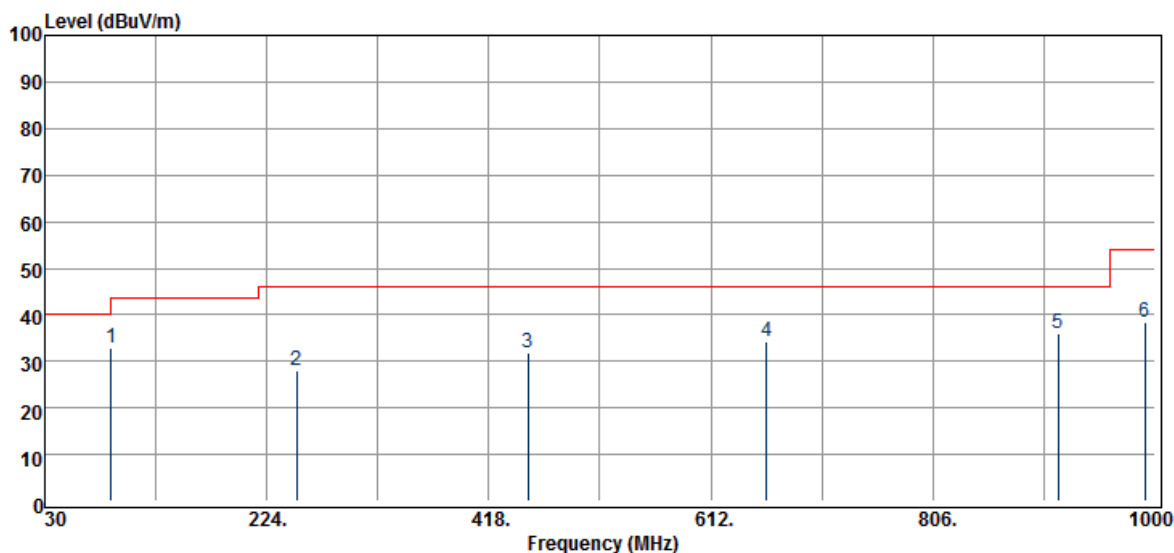
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Project Number : T190321W03
 Operation Band : 802.11ac80 B1
 Fundamental Frequency : 5210 MHz
 Operation Mode : Tx CH LOW
 EUT Pol. : H Plan

Test Date : 2019-04-10
 Temp./Humi. : 21 deg_C / 62 RH
 Engineer : Jerry
 Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
88.20	Peak	48.25	-15.47	32.78	43.50	-10.72
250.19	Peak	38.58	-10.40	28.18	46.00	-17.82
451.95	Peak	35.94	-3.94	32.00	46.00	-14.00
660.50	Peak	34.40	-0.23	34.17	46.00	-11.83
915.61	Peak	31.99	3.83	35.82	46.00	-10.18
991.27	Peak	33.20	5.23	38.43	54.00	-15.57

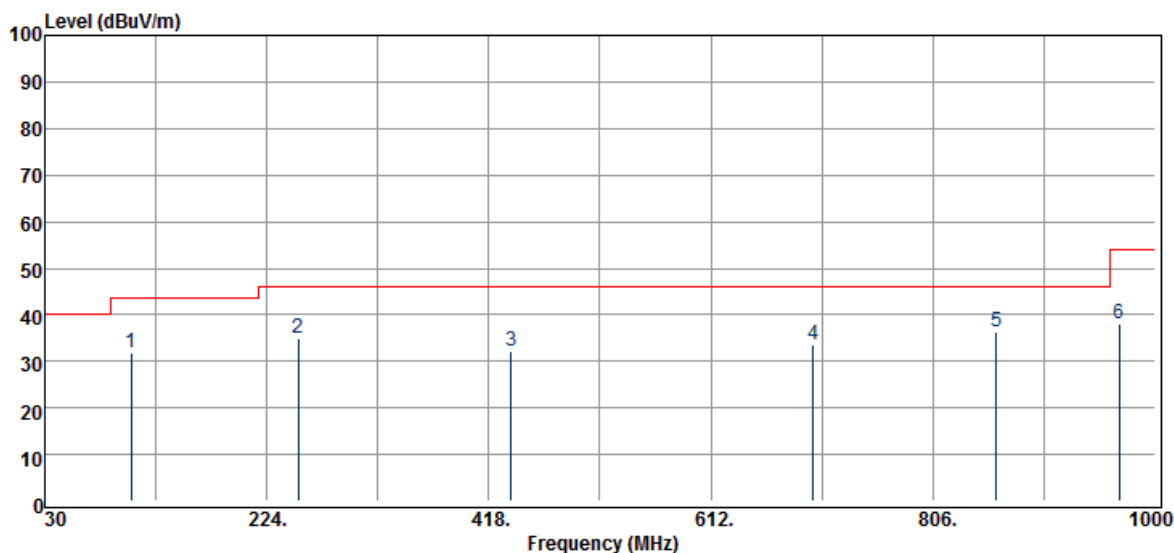
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Project Number : T190321W03
Operation Band : 802.11ac80 B1
Fundamental Frequency : 5300 MHz
Operation Mode : Tx CH LOW
EUT Pol. : H Plan

Test Date : 2019-04-10
Temp./Humi. : 21 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
105.66	Peak	42.79	-11.02	31.77	43.50	-11.73
251.16	Peak	45.34	-10.38	34.96	46.00	-11.04
437.40	Peak	36.40	-4.26	32.14	46.00	-13.86
701.24	Peak	33.74	-0.04	33.70	46.00	-12.30
861.29	Peak	33.47	2.95	36.42	46.00	-9.58
968.96	Peak	32.92	5.23	38.15	54.00	-15.85

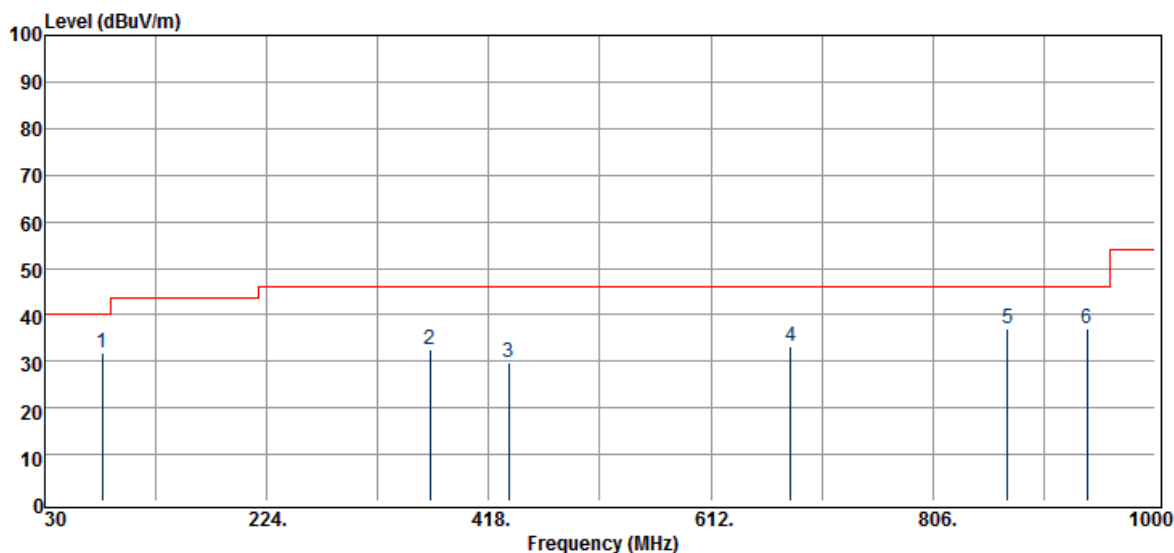
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Project Number : T190321W03
 Operation Band : 802.11ac80 B2a
 Fundamental Frequency : 5290 MHz
 Operation Mode : Tx CH HIGH
 EUT Pol. : H Plan

Test Date : 2019-04-10
 Temp./Humi. : 21 deg_C / 62 RH
 Engineer : Jerry
 Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
80.44	Peak	46.98	-15.28	31.70	40.00	-8.30
366.59	Peak	39.01	-6.50	32.51	46.00	-13.49
435.46	Peak	33.92	-4.27	29.65	46.00	-16.35
681.84	Peak	33.51	-0.29	33.22	46.00	-12.78
870.99	Peak	34.01	3.11	37.12	46.00	-8.88
940.83	Peak	33.10	3.77	36.87	46.00	-9.13

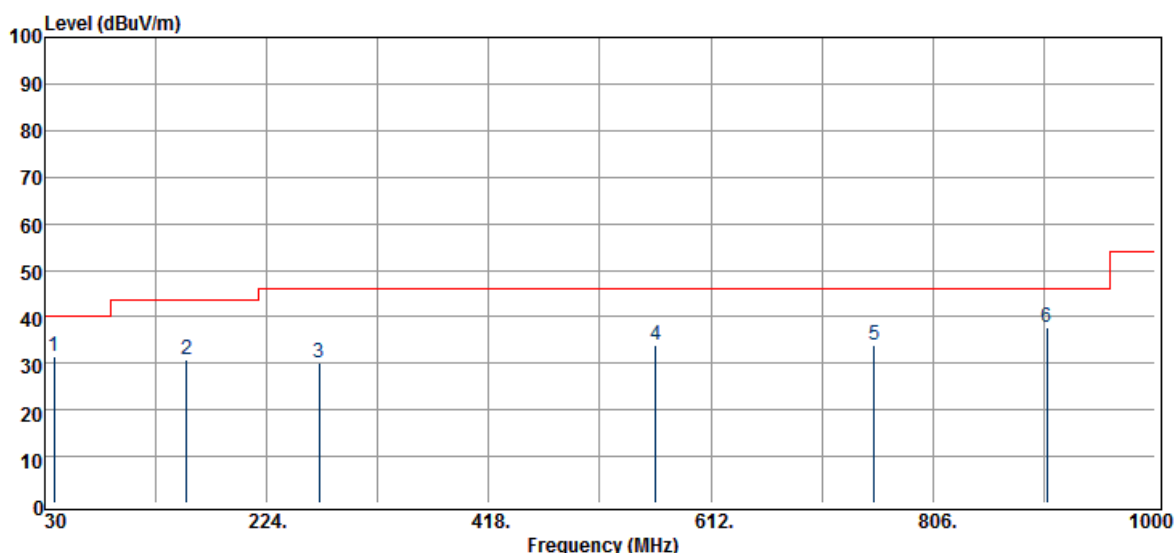
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Project Number : T190321W03
 Operation Band :802.11ac80 B2a
 Fundamental Frequency :5290 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :H Plan

Test Date :2019-04-10
 Temp./Humi. :21 deg_C / 62 RH
 Engineer :Jerry
 Measurement Antenna Pol. :HORIZONTAL



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	39.42	-7.85	31.57	40.00	-8.43
154.16	Peak	40.97	-10.02	30.95	43.50	-12.55
269.59	Peak	38.83	-8.58	30.25	46.00	-15.75
563.50	Peak	36.19	-2.24	33.95	46.00	-12.05
754.59	Peak	32.03	2.00	34.03	46.00	-11.97
905.91	Peak	33.53	4.12	37.65	46.00	-8.35

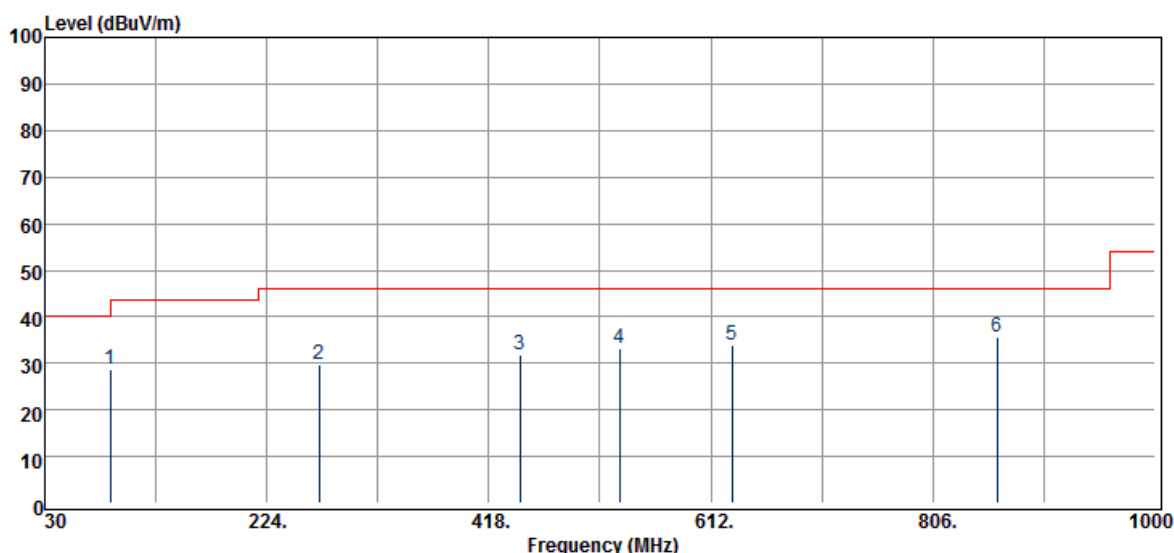
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Project Number : T190321W03
Operation Band : 802.11ac80 B2c
Fundamental Frequency : 5610 MHz
Operation Mode : Tx CH MID
EUT Pol. : H Plan

Test Date : 2019-04-10
Temp./Humi. : 21 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
87.23	Peak	44.38	-15.55	28.83	40.00	-11.17
269.59	Peak	38.43	-8.58	29.85	46.00	-16.15
445.16	Peak	35.74	-4.06	31.68	46.00	-14.32
532.46	Peak	35.45	-2.29	33.16	46.00	-12.84
630.43	Peak	34.33	-0.52	33.81	46.00	-12.19
862.26	Peak	32.48	3.00	35.48	46.00	-10.52

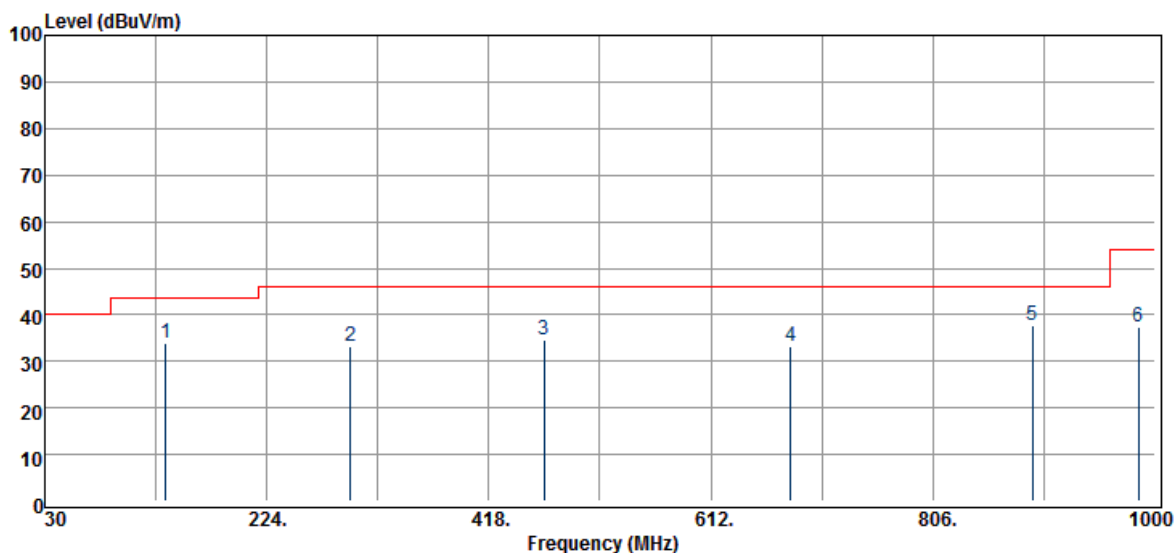
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Project Number : T190321W03
Operation Band :802.11ac80 B2c
Fundamental Frequency :5610 MHz
Operation Mode :Tx CH MID
EUT Pol. :H Plan

Test Date :2019-04-10
Temp./Humi. :21 deg_C / 62 RH
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
135.73	Peak	43.20	-9.46	33.74	43.50	-9.76
296.75	Peak	41.60	-8.28	33.32	46.00	-12.68
466.50	Peak	37.97	-3.51	34.46	46.00	-11.54
681.84	Peak	33.53	-0.29	33.24	46.00	-12.76
893.30	Peak	33.78	4.08	37.86	46.00	-8.14
985.45	Peak	32.05	5.38	37.43	54.00	-16.57

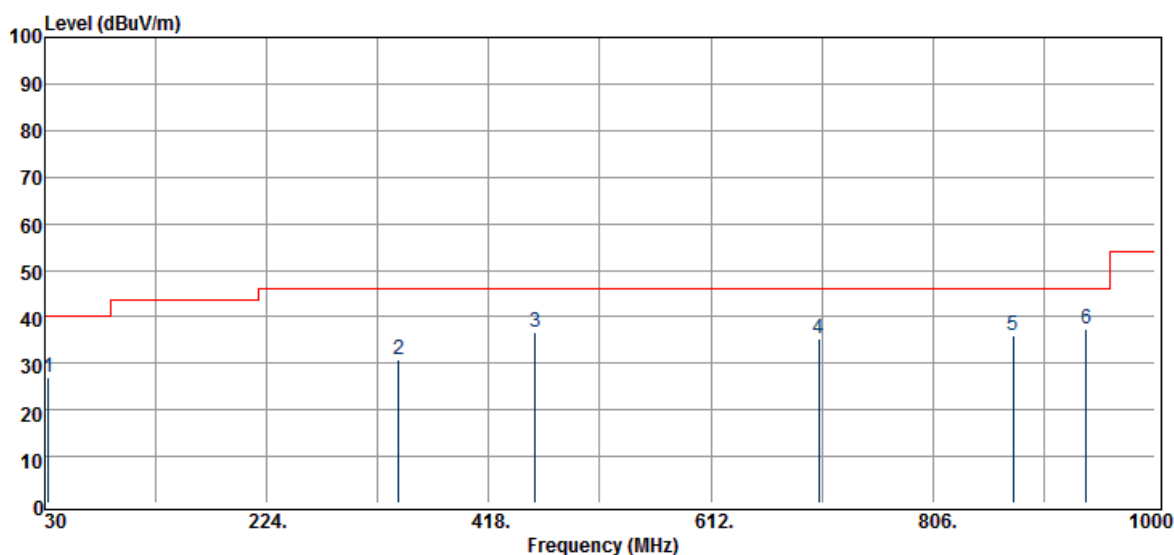
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Project Number : T190321W03
Operation Band : 802.11ac80 B3
Fundamental Frequency : 5775 MHz
Operation Mode : Tx CH LOW
EUT Pol. : H Plan

Test Date : 2019-04-10
Temp./Humi. : 21 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
32.91	Peak	31.37	-4.28	27.09	40.00	-12.91
339.43	Peak	37.79	-7.16	30.63	46.00	-15.37
458.74	Peak	40.59	-3.81	36.78	46.00	-9.22
706.09	Peak	35.33	0.10	35.43	46.00	-10.57
875.84	Peak	32.69	3.30	35.99	46.00	-10.01
939.86	Peak	33.61	3.73	37.34	46.00	-8.66

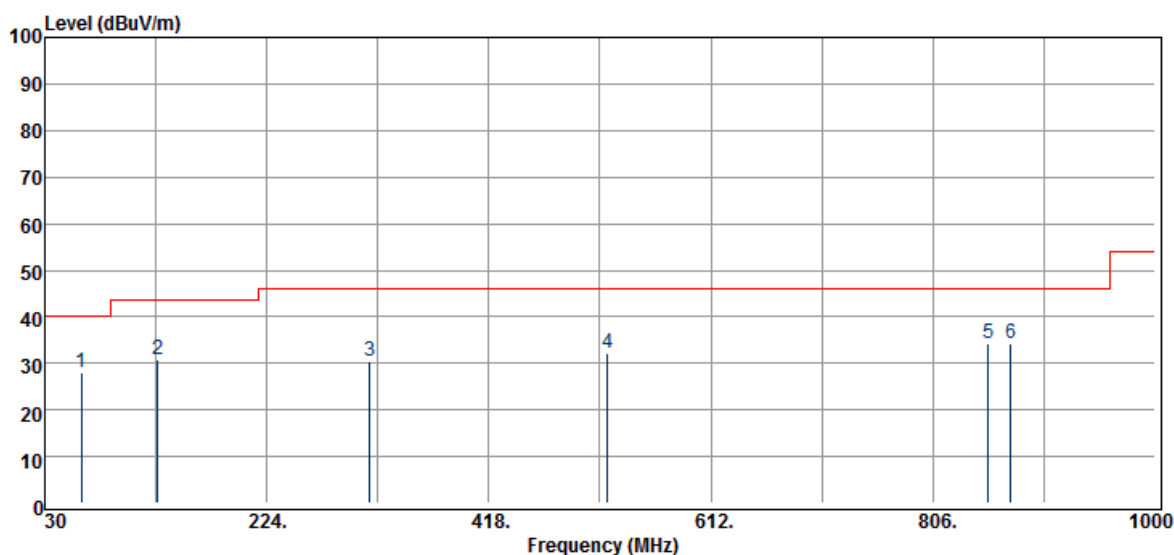
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Project Number : T190321W03
Operation Band : 802.11ac80 B3
Fundamental Frequency : 5775 MHz
Operation Mode : Tx CH LOW
EUT Pol. : H Plan

Test Date : 2019-04-10
Temp./Humi. : 21 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
62.01	Peak	43.49	-15.60	27.89	40.00	-12.11
128.94	Peak	39.85	-8.95	30.90	43.50	-12.60
314.21	Peak	38.04	-7.76	30.28	46.00	-15.72
521.79	Peak	34.49	-2.38	32.11	46.00	-13.89
854.50	Peak	31.45	2.86	34.31	46.00	-11.69
873.90	Peak	31.18	3.10	34.28	46.00	-11.72

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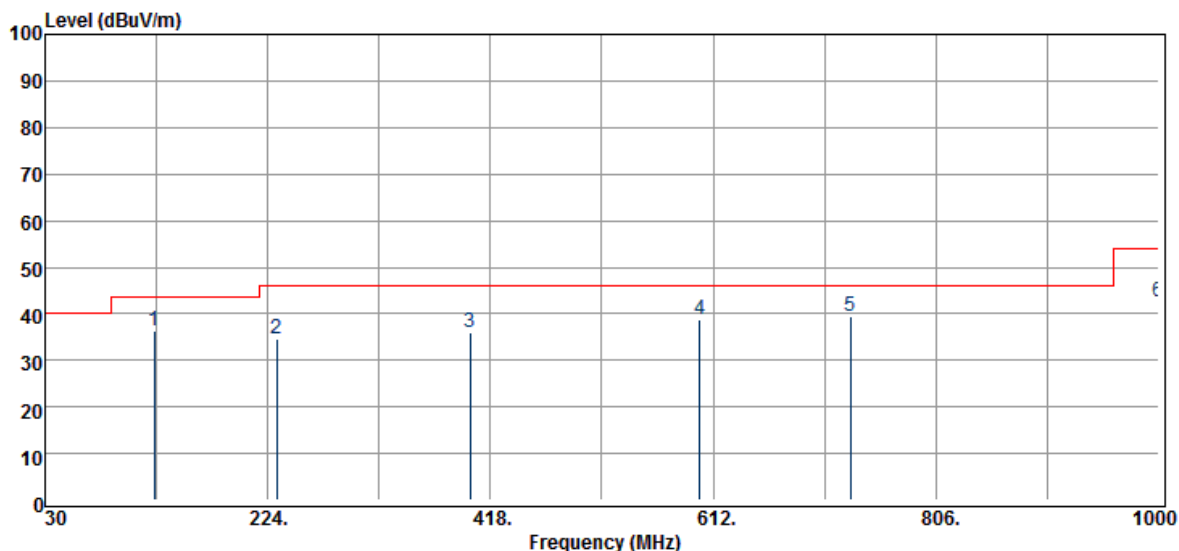
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Dipole Antenna

Project Number : T190321W03
Operation Band : 802.11a B1
Fundamental Frequency : 5220 MHz
Operation Mode : Tx CH MID
EUT Pol. : H Plan

Test Date : 2019-04-10
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
125.06	Peak	45.09	-8.80	36.29	43.50	-7.21
231.76	Peak	45.32	-10.75	34.57	46.00	-11.43
400.54	Peak	41.79	-5.64	36.15	46.00	-9.85
600.36	Peak	40.49	-1.65	38.84	46.00	-7.16
731.31	Peak	38.17	1.16	39.33	46.00	-6.67
1000.00	Peak	37.18	5.27	42.45	54.00	-11.55

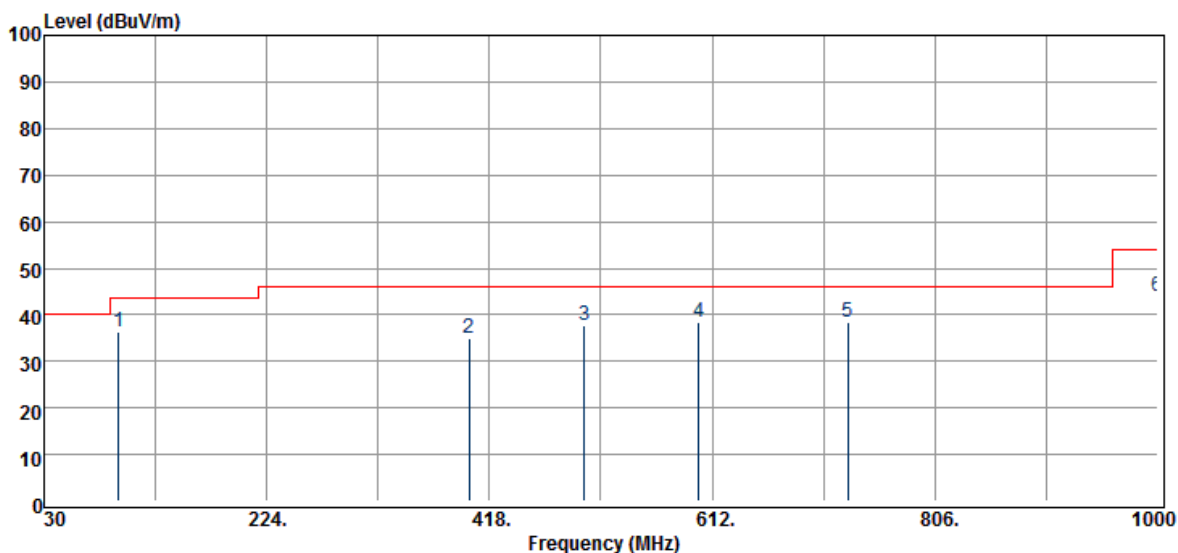
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Project Number : T190321W03
 Operation Band : 802.11a B1
 Fundamental Frequency : 5220 MHz
 Operation Mode : Tx CH MID
 EUT Pol. : H Plan

Test Date : 2019-04-10
 Temp./Humi. : 23 deg_C / 62 RH
 Engineer : Jerry
 Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
94.99	Peak	50.65	-14.24	36.41	43.50	-7.09
400.54	Peak	40.59	-5.64	34.95	46.00	-11.05
500.45	Peak	40.68	-2.93	37.75	46.00	-8.25
600.36	Peak	40.23	-1.65	38.58	46.00	-7.42
730.34	Peak	37.33	1.18	38.51	46.00	-7.49
1000.00	Peak	38.50	5.27	43.77	54.00	-10.23

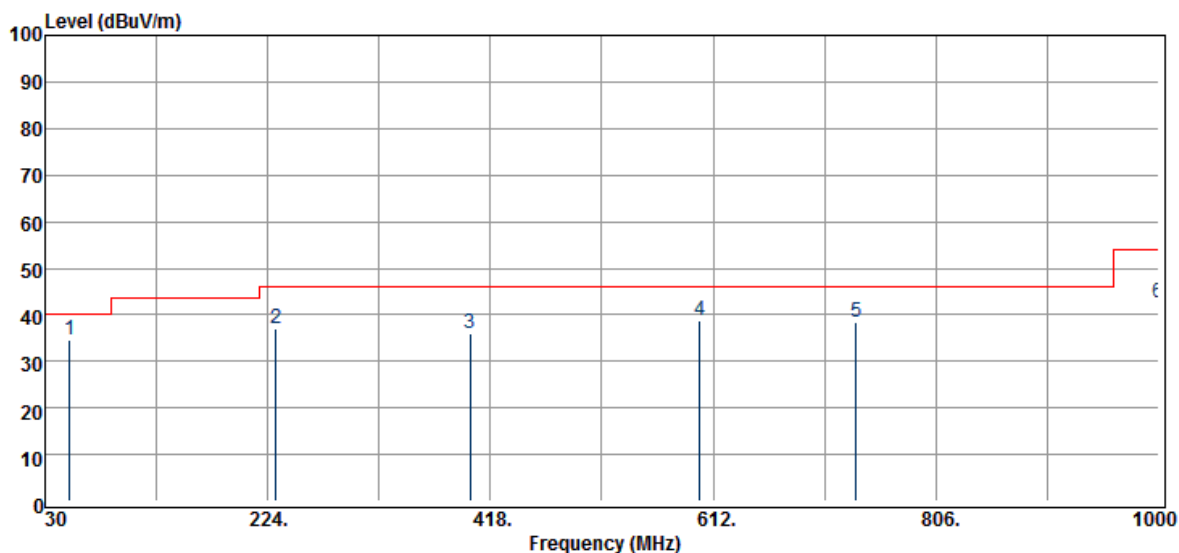
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Project Number : T190321W03
 Operation Band : 802.11a B2a
 Fundamental Frequency : 5300 MHz
 Operation Mode : Tx CH MID
 EUT Pol. : H Plan

Test Date : 2019-04-10
 Temp./Humi. : 23 deg_C / 62 RH
 Engineer : Jerry
 Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
51.34	Peak	50.34	-15.57	34.77	40.00	-5.23
230.79	Peak	47.94	-10.80	37.14	46.00	-8.86
400.54	Peak	41.75	-5.64	36.11	46.00	-9.89
600.36	Peak	40.56	-1.65	38.91	46.00	-7.09
736.16	Peak	36.88	1.49	38.37	46.00	-7.63
1000.00	Peak	37.12	5.27	42.39	54.00	-11.61

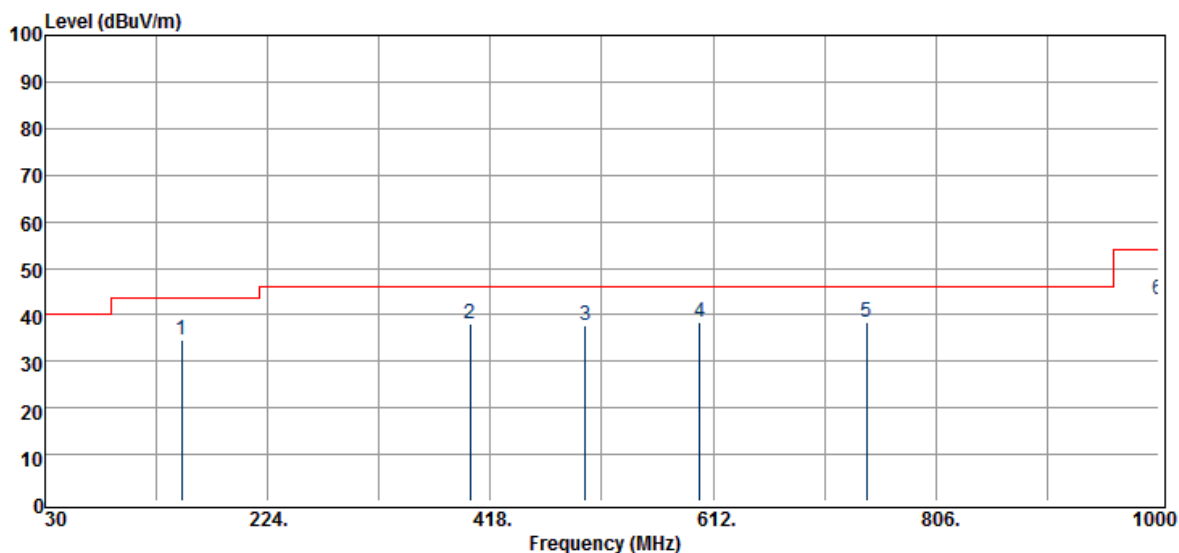
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Project Number : T190321W03
 Operation Band : 802.11a B2a
 Fundamental Frequency : 5300 MHz
 Operation Mode : Tx CH MID
 EUT Pol. : H Plan

Test Date : 2019-04-10
 Temp./Humi. : 23 deg_C / 62 RH
 Engineer : Jerry
 Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
149.31	Peak	44.64	-10.10	34.54	43.50	-8.96
400.54	Peak	43.79	-5.64	38.15	46.00	-7.85
500.45	Peak	40.56	-2.93	37.63	46.00	-8.37
600.36	Peak	40.19	-1.65	38.54	46.00	-7.46
745.86	Peak	36.61	1.96	38.57	46.00	-7.43
1000.00	Peak	37.95	5.27	43.22	54.00	-10.78

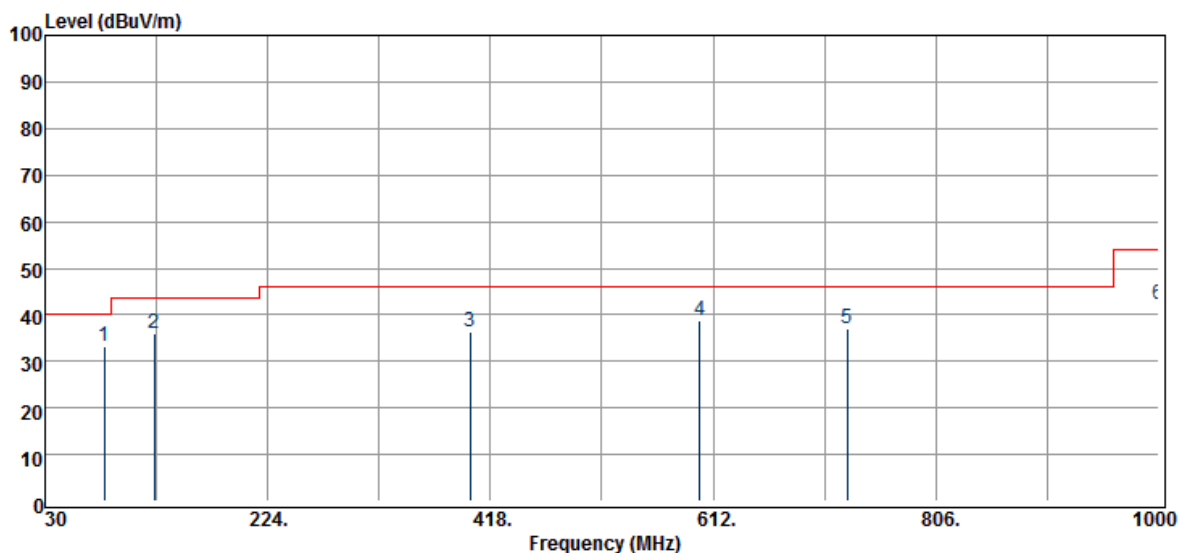
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Project Number : T190321W03
 Operation Band : 802.11a B2c
 Fundamental Frequency : 5580 MHz
 Operation Mode : Tx CH MID
 EUT Pol. : H Plan

Test Date : 2019-04-10
 Temp./Humi. : 23 deg_C / 62 RH
 Engineer : Jerry
 Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
81.41	Peak	48.48	-15.43	33.05	40.00	-6.95
125.06	Peak	44.80	-8.80	36.00	43.50	-7.50
400.54	Peak	41.99	-5.64	36.35	46.00	-9.65
600.36	Peak	40.27	-1.65	38.62	46.00	-7.38
728.40	Peak	36.09	1.05	37.14	46.00	-8.86
1000.00	Peak	36.82	5.27	42.09	54.00	-11.91

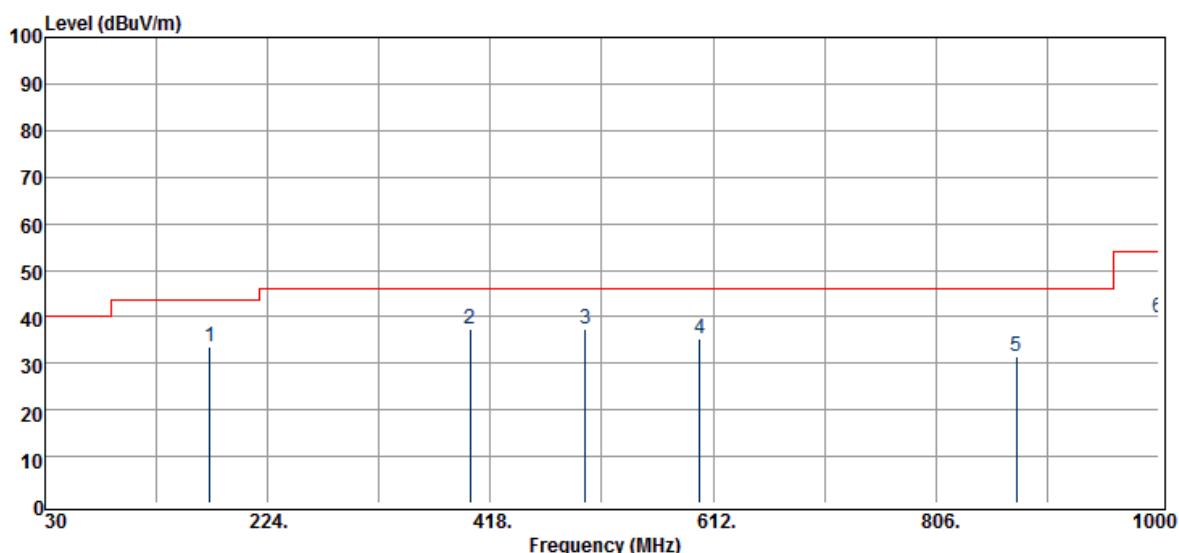
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Project Number : T190321W03
 Operation Band : 802.11a B2c
 Fundamental Frequency : 5580 MHz
 Operation Mode : Tx CH MID
 EUT Pol. : H Plan

Test Date : 2019-04-10
 Temp./Humi. : 23 deg_C / 62 RH
 Engineer : Jerry
 Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
173.56	Peak	46.44	-12.71	33.73	43.50	-9.77
400.54	Peak	45.73	-8.22	37.51	46.00	-8.49
500.45	Peak	43.58	-6.29	37.29	46.00	-8.71
600.36	Peak	40.15	-4.80	35.35	46.00	-10.65
875.84	Peak	32.27	-0.77	31.50	46.00	-14.50
1000.00	Peak	38.79	0.98	39.77	54.00	-14.23

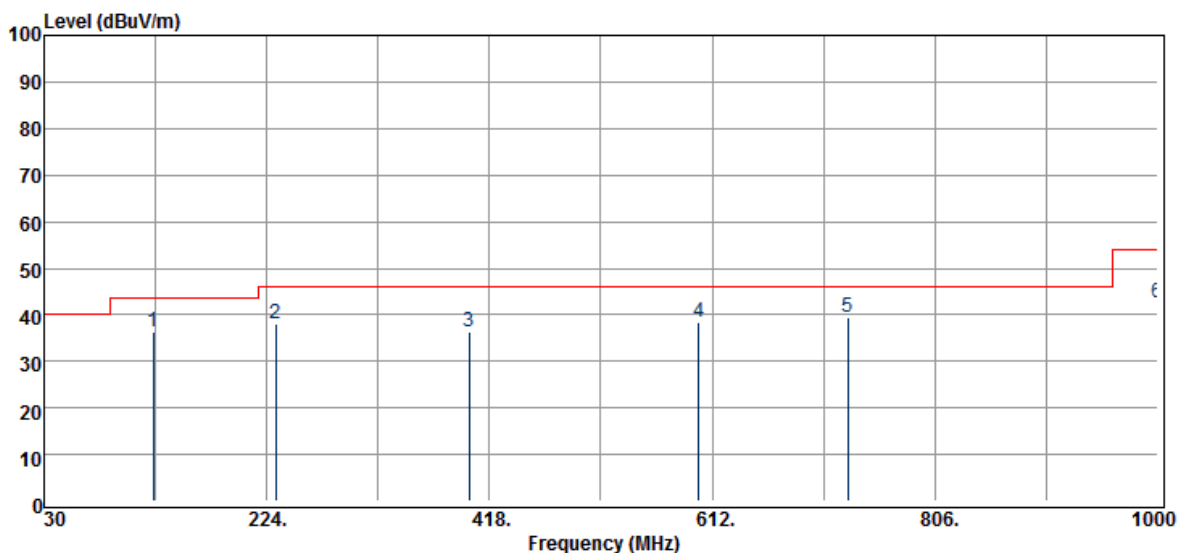
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Project Number : T190321W03
 Operation Band : 802.11a B3
 Fundamental Frequency : 5785 MHz
 Operation Mode : Tx CH MID
 EUT Pol. : H Plan

Test Date : 2019-04-10
 Temp./Humi. : 23 deg_C / 62 RH
 Engineer : Jerry
 Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
125.06	Peak	45.19	-8.80	36.39	43.50	-7.11
231.76	Peak	48.86	-10.75	38.11	46.00	-7.89
400.54	Peak	42.00	-5.64	36.36	46.00	-9.64
600.36	Peak	40.22	-1.65	38.57	46.00	-7.43
730.34	Peak	38.11	1.18	39.29	46.00	-6.71
1000.00	Peak	37.30	5.27	42.57	54.00	-11.43

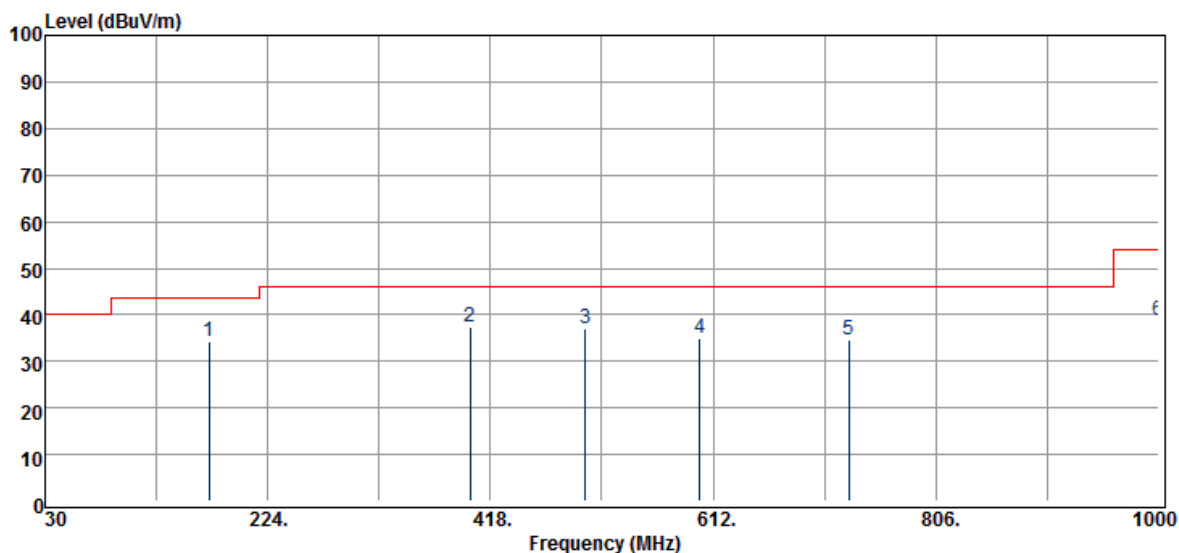
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Project Number : T190321W03
 Operation Band : 802.11a B3
 Fundamental Frequency : 5785 MHz
 Operation Mode : Tx CH MID
 EUT Pol. : H Plan

Test Date : 2019-04-10
 Temp./Humi. : 23 deg_C / 62 RH
 Engineer : Jerry
 Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
172.59	Peak	46.77	-12.62	34.15	43.50	-9.35
400.54	Peak	45.75	-8.22	37.53	46.00	-8.47
500.45	Peak	43.34	-6.29	37.05	46.00	-8.95
600.36	Peak	39.84	-4.80	35.04	46.00	-10.96
730.34	Peak	37.56	-2.80	34.76	46.00	-11.24
1000.00	Peak	37.87	0.98	38.85	54.00	-15.15

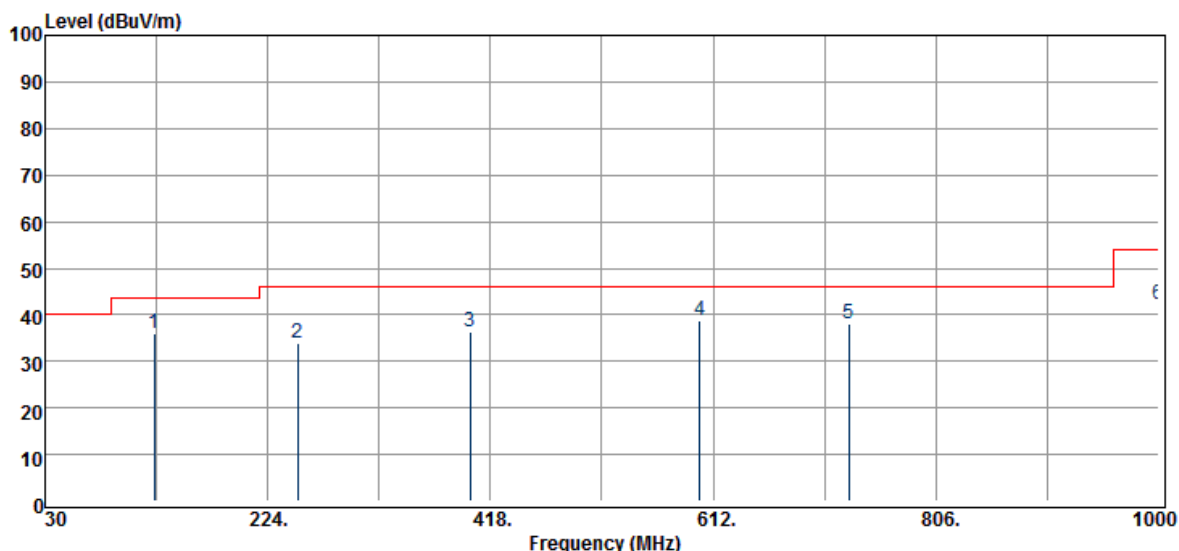
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Project Number : T190321W03
 Operation Band : 802.11ac80 B1
 Fundamental Frequency : 5210 MHz
 Operation Mode : Tx CH LOW
 EUT Pol. : H Plan

Test Date : 2019-04-10
 Temp./Humi. : 23 deg_C / 62 RH
 Engineer : Jerry
 Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
125.06	Peak	44.74	-8.80	35.94	43.50	-7.56
250.19	Peak	44.20	-10.40	33.80	46.00	-12.20
400.54	Peak	41.96	-5.64	36.32	46.00	-9.68
600.36	Peak	40.33	-1.65	38.68	46.00	-7.32
730.34	Peak	36.80	1.18	37.98	46.00	-8.02
1000.00	Peak	36.99	5.27	42.26	54.00	-11.74

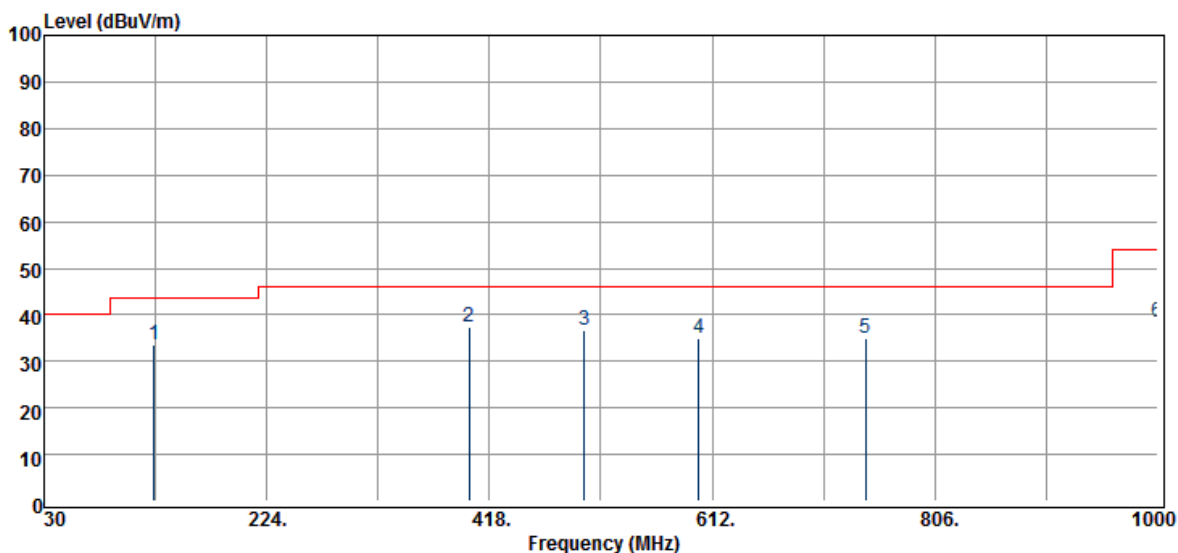
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Project Number : T190321W03
 Operation Band : 802.11ac80 B1
 Fundamental Frequency : 5210 MHz
 Operation Mode : Tx CH LOW
 EUT Pol. : H Plan

Test Date : 2019-04-10
 Temp./Humi. : 23 deg_C / 62 RH
 Engineer : Jerry
 Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
126.03	Peak	43.78	-10.29	33.49	43.50	-10.01
400.54	Peak	45.53	-8.22	37.31	46.00	-8.69
500.45	Peak	42.81	-6.29	36.52	46.00	-9.48
600.36	Peak	39.83	-4.80	35.03	46.00	-10.97
745.86	Peak	37.02	-2.09	34.93	46.00	-11.07
1000.00	Peak	37.59	0.98	38.57	54.00	-15.43

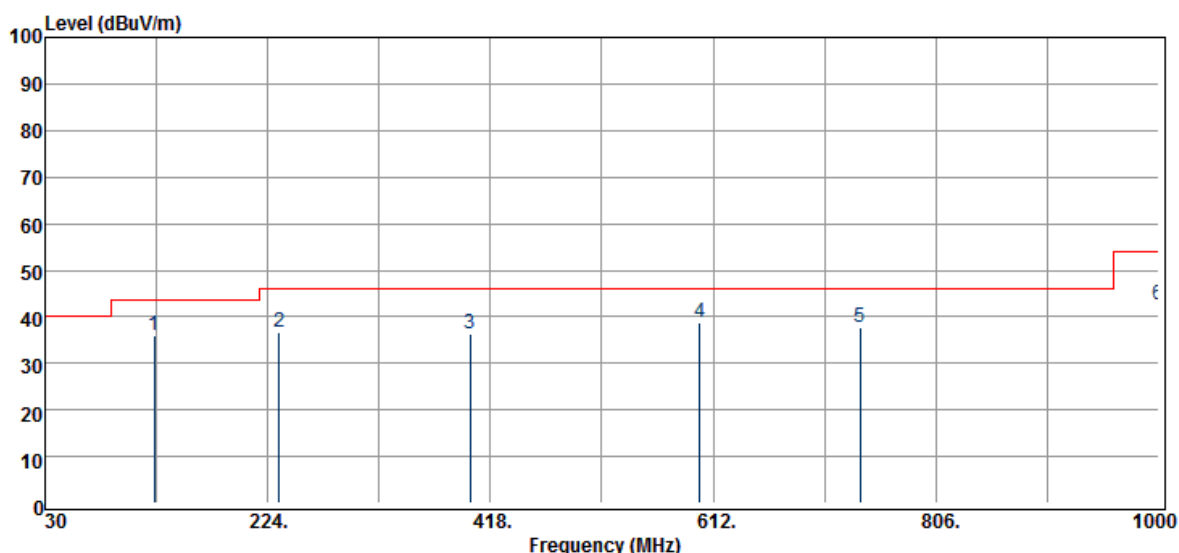
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Project Number : T190321W03
 Operation Band :802.11ac80 B2a
 Fundamental Frequency :5290 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :H Plan

Test Date :2019-04-10
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Jerry
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
125.06	Peak	44.83	-8.80	36.03	43.50	-7.47
233.70	Peak	47.25	-10.63	36.62	46.00	-9.38
400.54	Peak	41.82	-5.64	36.18	46.00	-9.82
600.36	Peak	40.25	-1.65	38.60	46.00	-7.40
740.04	Peak	36.09	1.61	37.70	46.00	-8.30
1000.00	Peak	37.17	5.27	42.44	54.00	-11.56

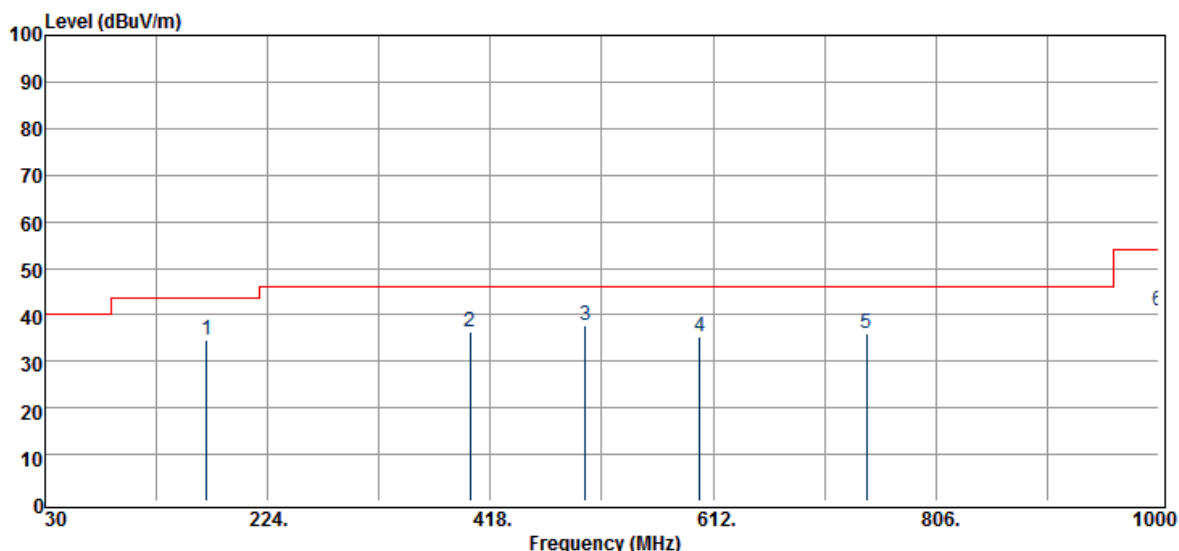
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Project Number : T190321W03
 Operation Band :802.11ac80 B2a
 Fundamental Frequency :5290 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :H Plan

Test Date :2019-04-10
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Jerry
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
170.65	Peak	45.60	-10.83	34.77	43.50	-8.73
400.54	Peak	42.05	-5.64	36.41	46.00	-9.59
500.45	Peak	40.48	-2.93	37.55	46.00	-8.45
600.36	Peak	37.04	-1.65	35.39	46.00	-10.61
745.86	Peak	33.99	1.96	35.95	46.00	-10.05
1000.00	Peak	35.52	5.27	40.79	54.00	-13.21

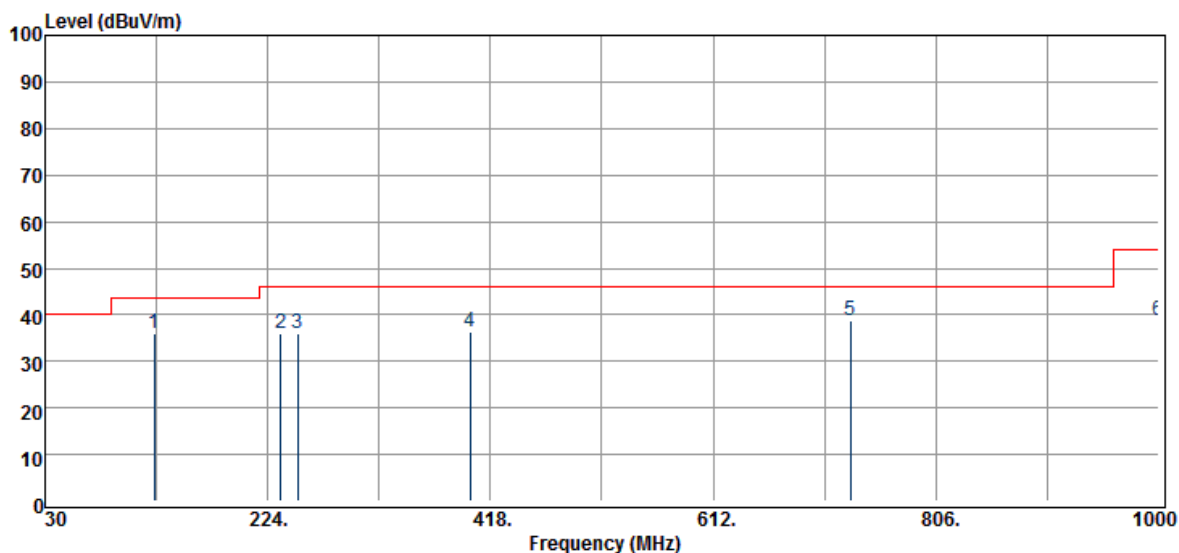
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Project Number : T190321W03
 Operation Band : 802.11ac80 B2c
 Fundamental Frequency : 5610 MHz
 Operation Mode : Tx CH MID
 EUT Pol. : H Plan

Test Date : 2019-04-10
 Temp./Humi. : 23 deg_C / 62 RH
 Engineer : Jerry
 Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
125.06	Peak	44.88	-8.80	36.08	43.50	-7.42
235.64	Peak	46.44	-10.56	35.88	46.00	-10.12
250.19	Peak	46.53	-10.40	36.13	46.00	-9.87
400.54	Peak	41.91	-5.64	36.27	46.00	-9.73
731.31	Peak	37.46	1.16	38.62	46.00	-7.38
1000.00	Peak	33.65	5.27	38.92	54.00	-15.08

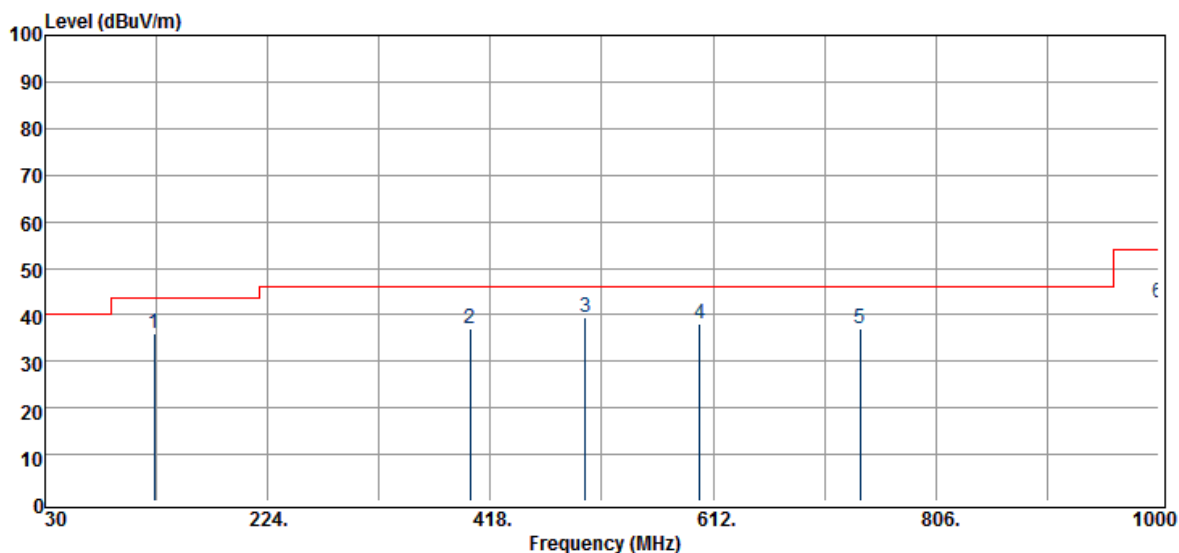
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Project Number : T190321W03
 Operation Band : 802.11ac80 B2c
 Fundamental Frequency : 5610 MHz
 Operation Mode : Tx CH MID
 EUT Pol. : H Plan

Test Date : 2019-04-10
 Temp./Humi. : 23 deg_C / 62 RH
 Engineer : Jerry
 Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
125.06	Peak	44.65	-8.80	35.85	43.50	-7.65
400.54	Peak	42.57	-5.64	36.93	46.00	-9.07
500.45	Peak	42.36	-2.93	39.43	46.00	-6.57
600.36	Peak	39.70	-1.65	38.05	46.00	-7.95
740.04	Peak	35.35	1.61	36.96	46.00	-9.04
1000.00	Peak	37.37	5.27	42.64	54.00	-11.36

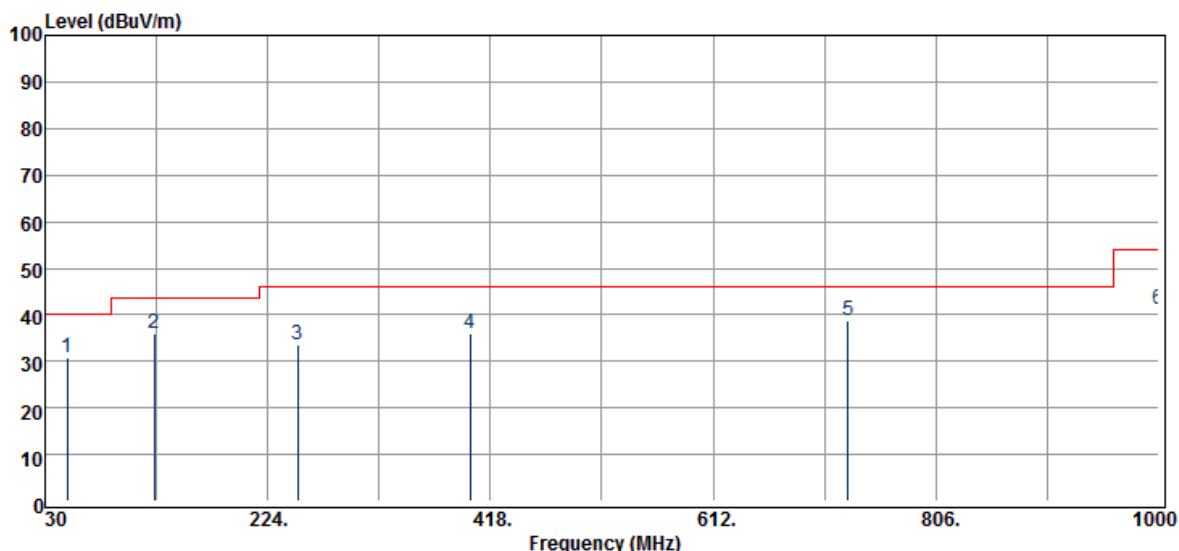
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Project Number : T190321W03
 Operation Band : 802.11ac80 B3
 Fundamental Frequency : 5775 MHz
 Operation Mode : Tx CH LOW
 EUT Pol. : H Plan

Test Date : 2019-04-10
 Temp./Humi. : 23 deg_C / 62 RH
 Engineer : Jerry
 Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
49.40	Peak	45.94	-14.98	30.96	40.00	-9.04
125.06	Peak	44.89	-8.80	36.09	43.50	-7.41
250.19	Peak	43.98	-10.40	33.58	46.00	-12.42
400.54	Peak	41.50	-5.64	35.86	46.00	-10.14
729.37	Peak	37.50	1.13	38.63	46.00	-7.37
1000.00	Peak	35.75	5.27	41.02	54.00	-12.98

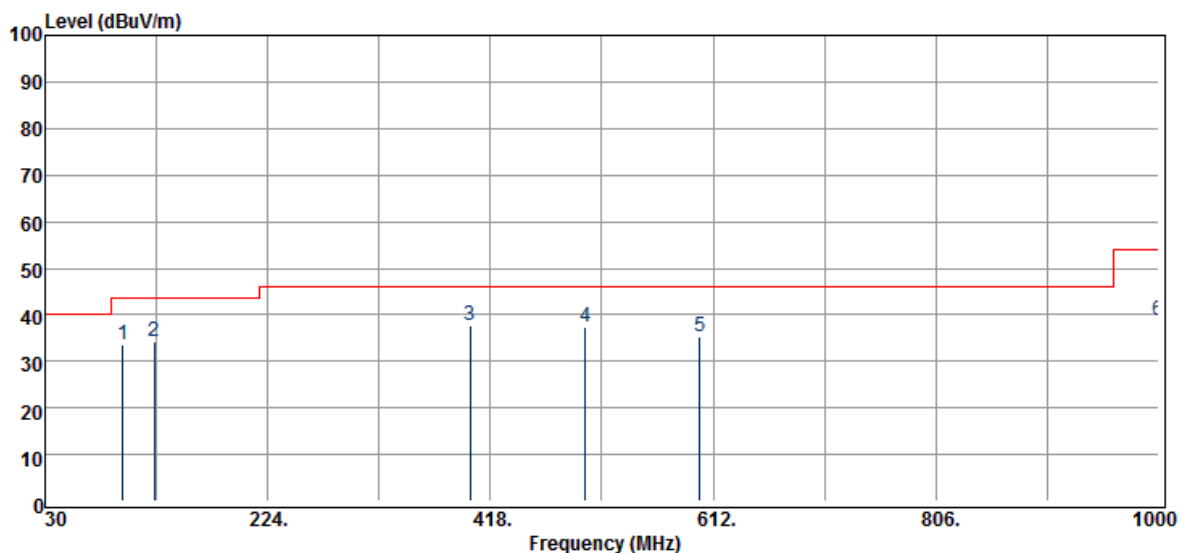
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Project Number : T190321W03
 Operation Band :802.11ac80 B3
 Fundamental Frequency :5775 MHz
 Operation Mode :Tx CH LOW
 EUT Pol. :H Plan

Test Date :2019-04-10
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Jerry
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
97.90	Peak	48.15	-14.54	33.61	43.50	-9.89
125.06	Peak	44.49	-10.28	34.21	43.50	-9.29
400.54	Peak	45.90	-8.22	37.68	46.00	-8.32
500.45	Peak	43.58	-6.29	37.29	46.00	-8.71
600.36	Peak	39.93	-4.80	35.13	46.00	-10.87
1000.00	Peak	37.72	0.98	38.70	54.00	-15.30

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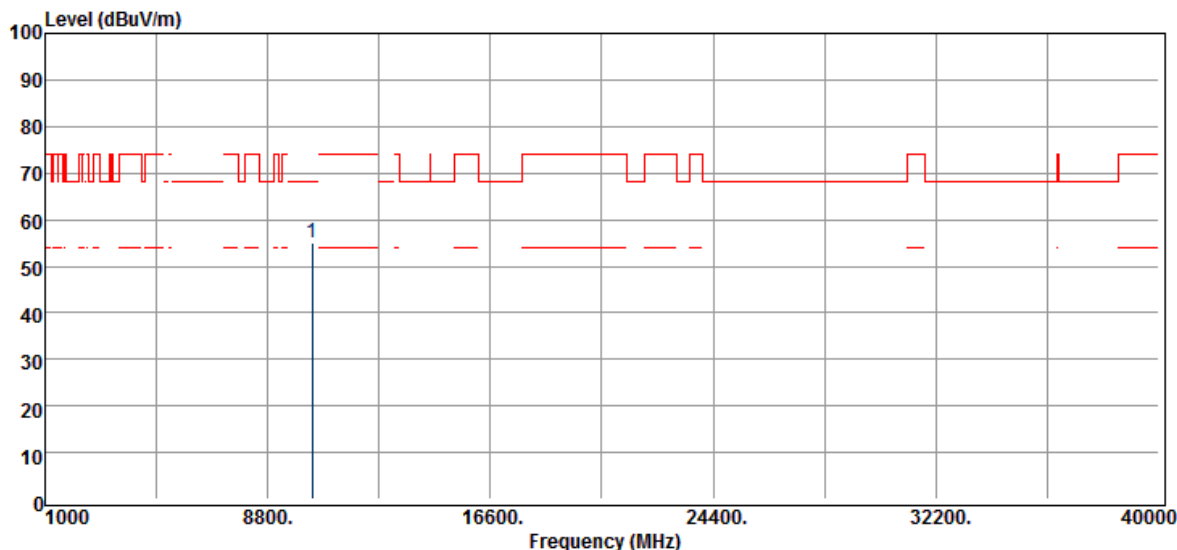
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Above 1GHz Data:

PCB Antenna

Project Number	: T190321W03	Test Date	: 2019-04-09
Operation Band	: 802.11a B1	Temp./Humi.	: 23 deg_C / 62 RH
Fundamental Frequency	: 5180 MHz	Engineer	: Jerry
Operation Mode	: Tx CH LOW	Measurement Antenna Pol.	: VERTICAL
EUT Pol.	: H Plan		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10360.00	Peak	40.44	14.41	54.85	68.20	-13.35

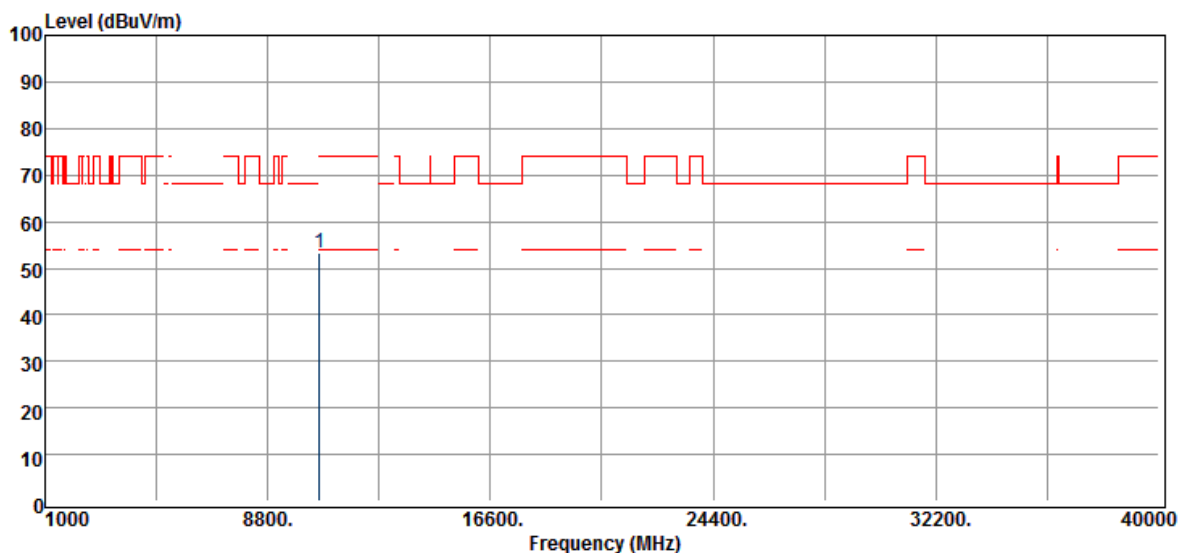
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Project Number : T190321W03
 Operation Band : 802.11a B1
 Fundamental Frequency : 5180 MHz
 Operation Mode : Tx CH LOW
 EUT Pol. : H Plan

Test Date : 2019-04-09
 Temp./Humi. : 23 deg_C / 62 RH
 Engineer : Jerry
 Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10600.00	Peak	37.65	15.47	53.12	74.00	-20.88

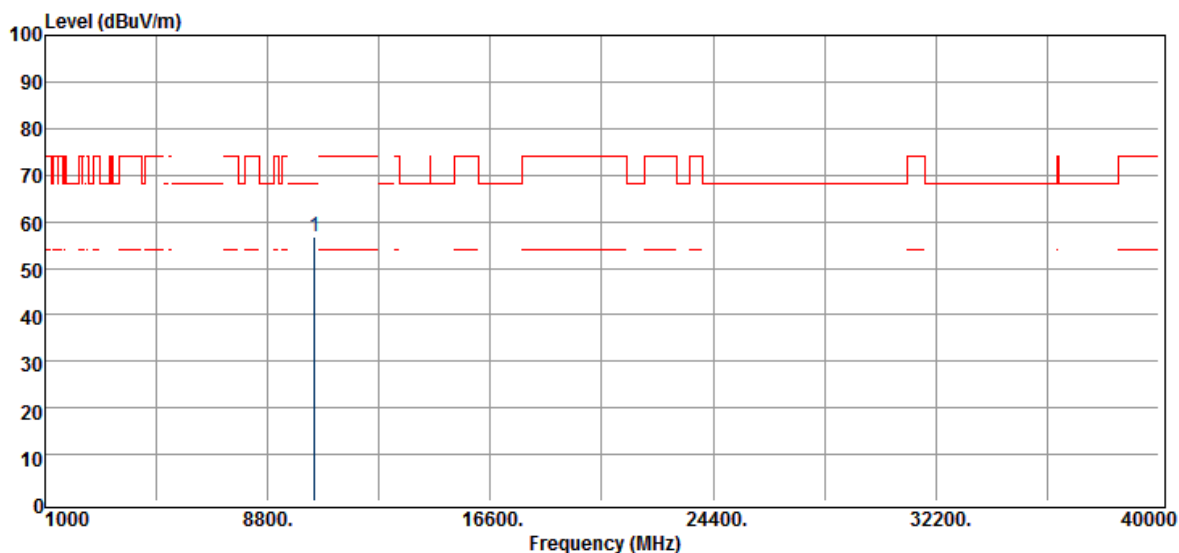
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Project Number : T190321W03
 Operation Band : 802.11a B1
 Fundamental Frequency : 5220 MHz
 Operation Mode : Tx CH MID
 EUT Pol. : H Plan

Test Date : 2019-04-09
 Temp./Humi. : 23 deg_C / 62 RH
 Engineer : Jerry
 Measurement Antenna Pol. : VERTICAL



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	41.06	15.58	56.64	68.20	-11.56

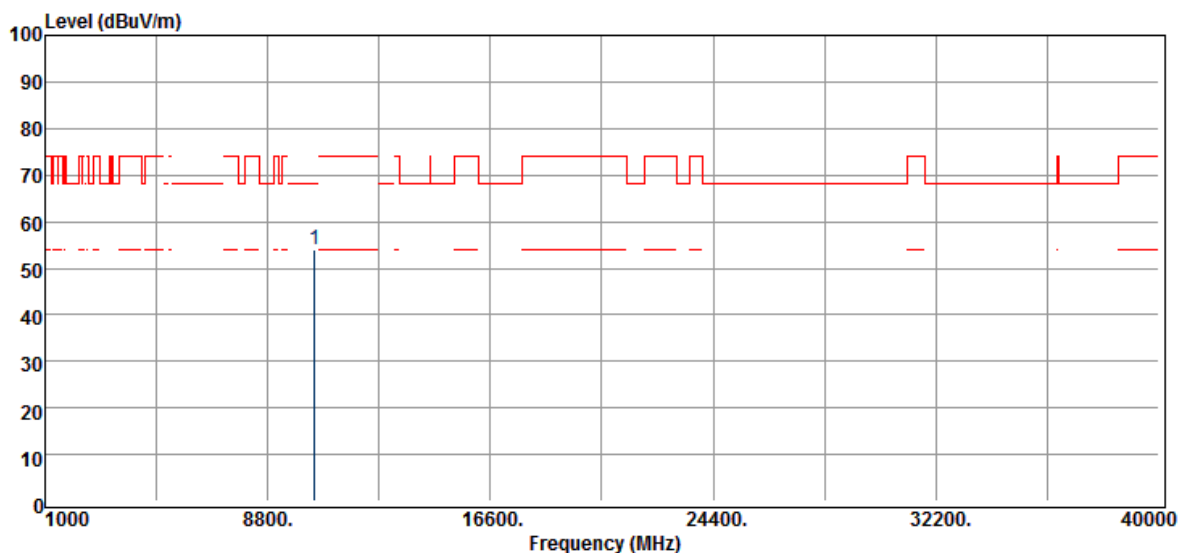
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Project Number : T190321W03
 Operation Band : 802.11a B1
 Fundamental Frequency : 5220 MHz
 Operation Mode : Tx CH MID
 EUT Pol. : H Plan

Test Date : 2019-04-09
 Temp./Humi. : 23 deg_C / 62 RH
 Engineer : Jerry
 Measurement Antenna Pol. : HORIZONTAL



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	38.43	15.58	54.01	68.20	-14.19

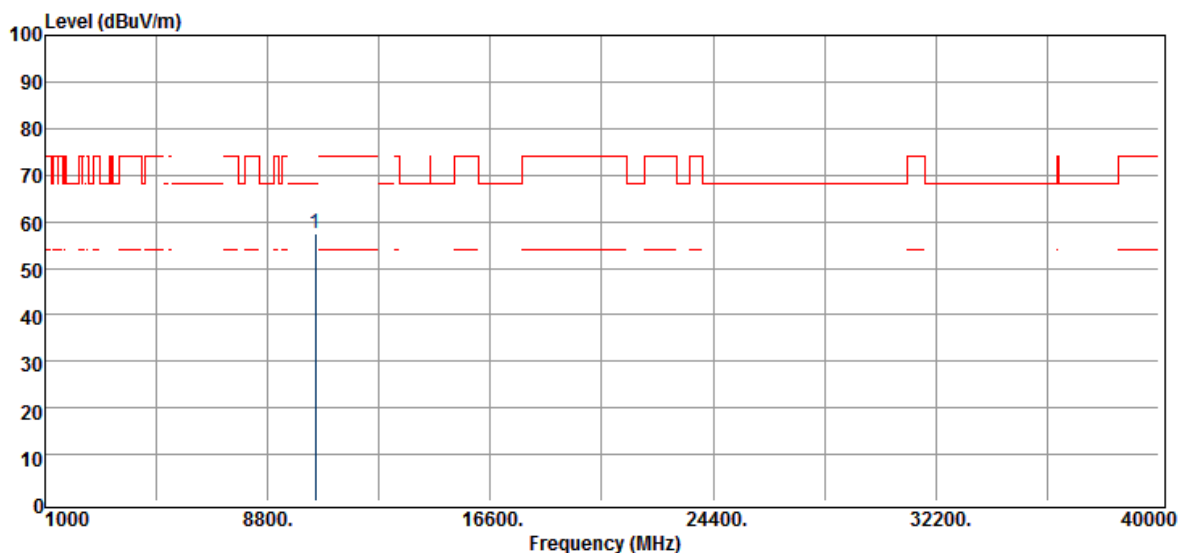
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Project Number : T190321W03
Operation Band : 802.11a B1
Fundamental Frequency : 5240 MHz
Operation Mode : Tx CH HIGH
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



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	41.00	16.48	57.48	68.20	-10.72

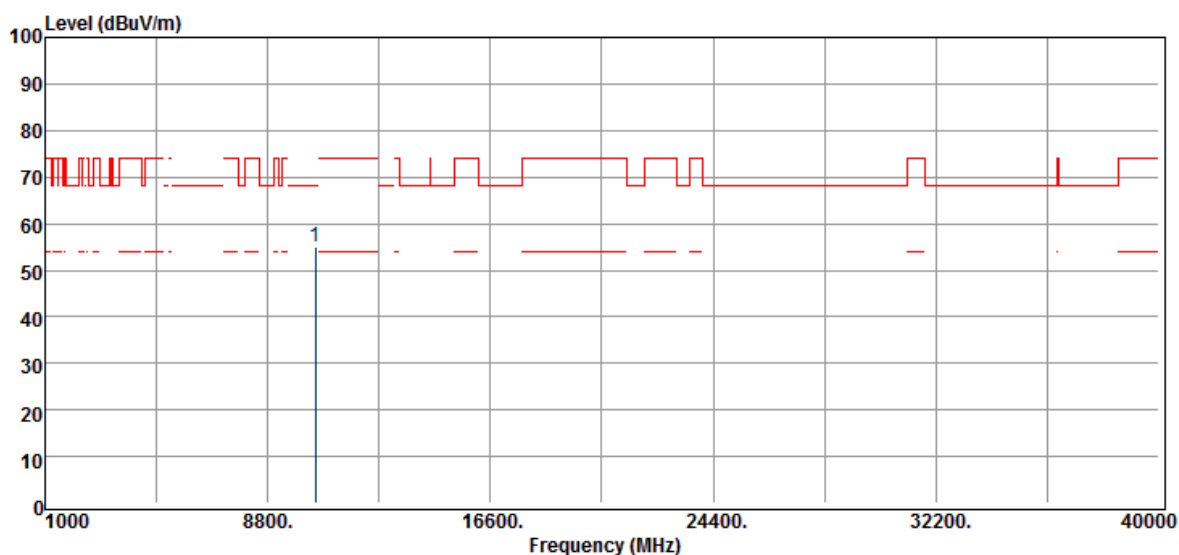
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Project Number : T190321W03
 Operation Band : 802.11a B1
 Fundamental Frequency : 5240 MHz
 Operation Mode : Tx CH HIGH
 EUT Pol. : H Plan

Test Date : 2019-04-09
 Temp./Humi. : 23 deg_C / 62 RH
 Engineer : Jerry
 Measurement Antenna Pol. : HORIZONTAL



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	38.37	16.48	54.85	68.20	-13.35

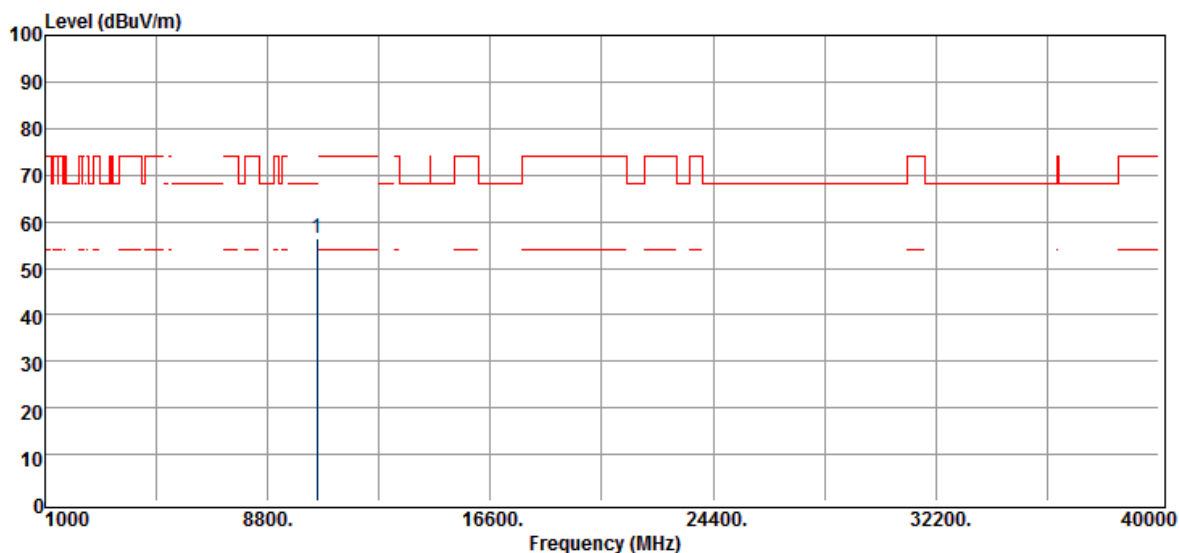
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Project Number : T190321W03
Operation Band : 802.11a B2a
Fundamental Frequency : 5260 MHz
Operation Mode : Tx CH LOW
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10520.00	Peak	40.93	15.57	56.50	68.20	-11.70

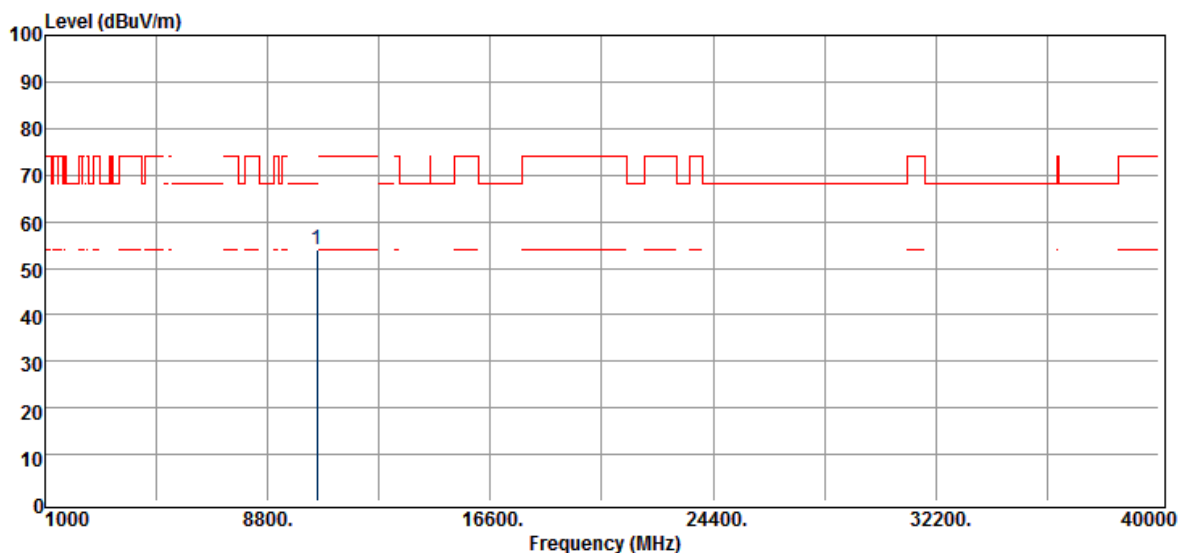
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Project Number : T190321W03
Operation Band : 802.11a B2a
Fundamental Frequency : 5260 MHz
Operation Mode : Tx CH LOW
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10520.00	Peak	38.27	15.57	53.84	68.20	-14.36

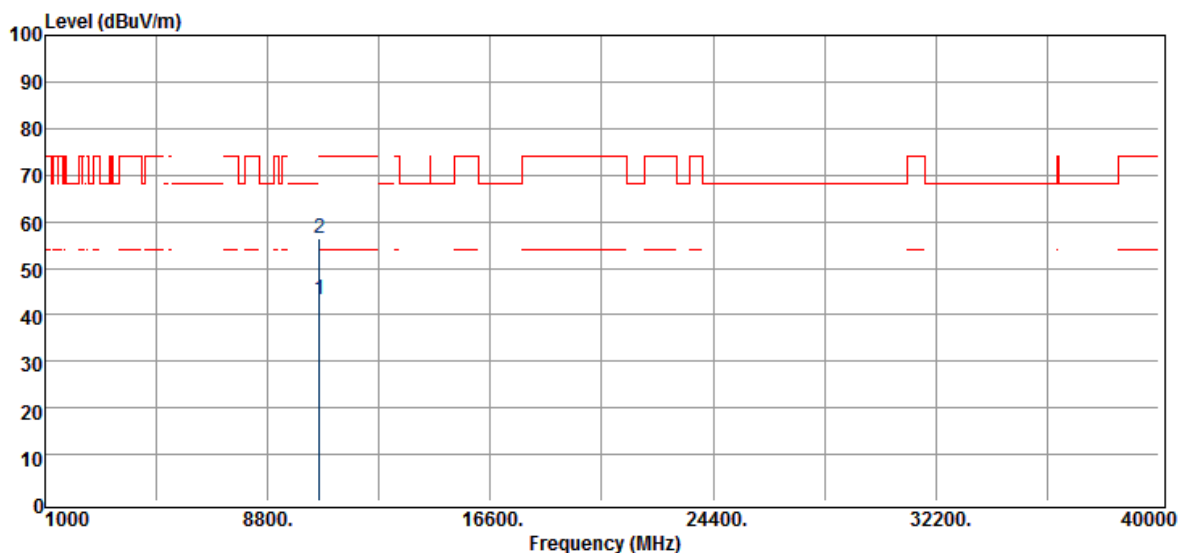
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Project Number : T190321W03
Operation Band : 802.11a B2a
Fundamental Frequency : 5300 MHz
Operation Mode : Tx CH MID
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10600.00	Average	27.85	15.47	43.32	54.00	-10.68
10600.00	Peak	40.87	15.47	56.34	74.00	-17.66

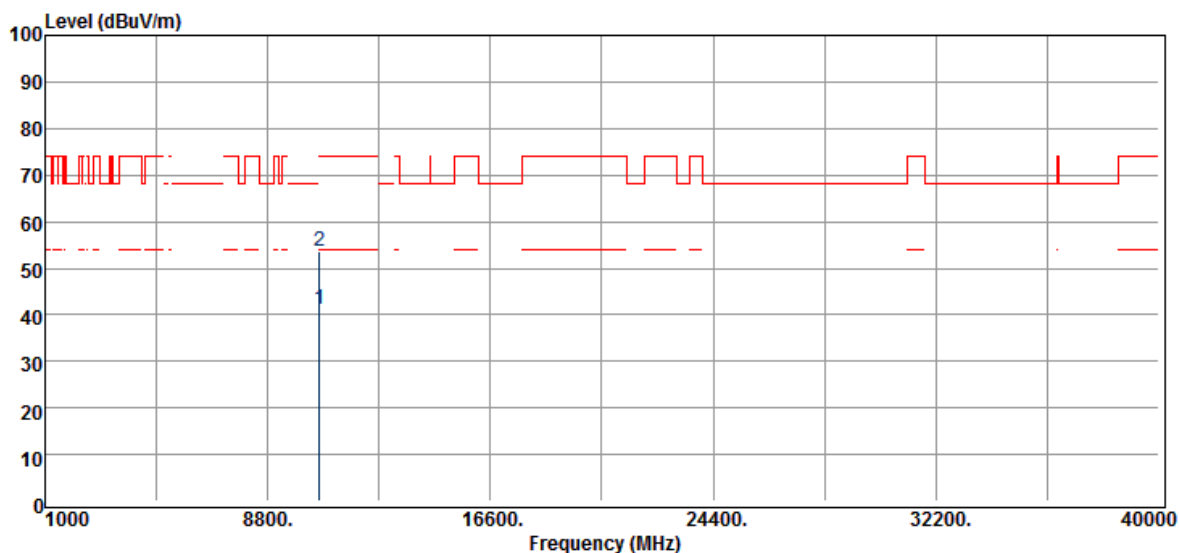
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Project Number : T190321W03
Operation Band : 802.11a B2a
Fundamental Frequency : 5300 MHz
Operation Mode : Tx CH MID
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10600.00	Average	25.88	15.47	41.35	54.00	-12.65
10600.00	Peak	38.26	15.47	53.73	74.00	-20.27

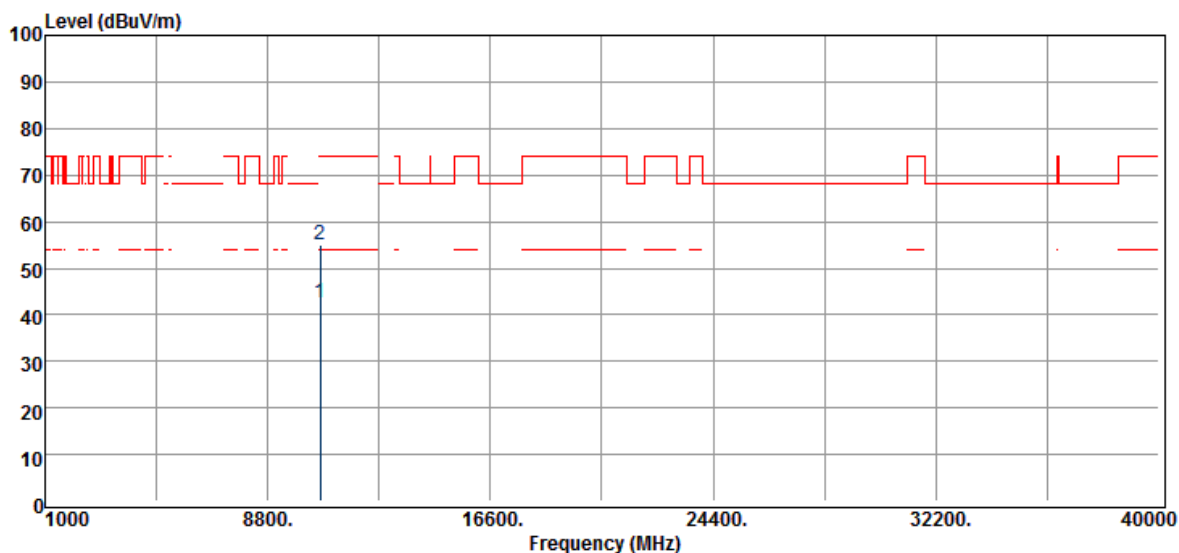
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Project Number : T190321W03
Operation Band : 802.11a B2a
Fundamental Frequency : 5320 MHz
Operation Mode : Tx CH HIGH
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10640.00	Average	26.55	16.12	42.67	54.00	-11.33
10640.00	Peak	38.76	16.12	54.88	74.00	-19.12

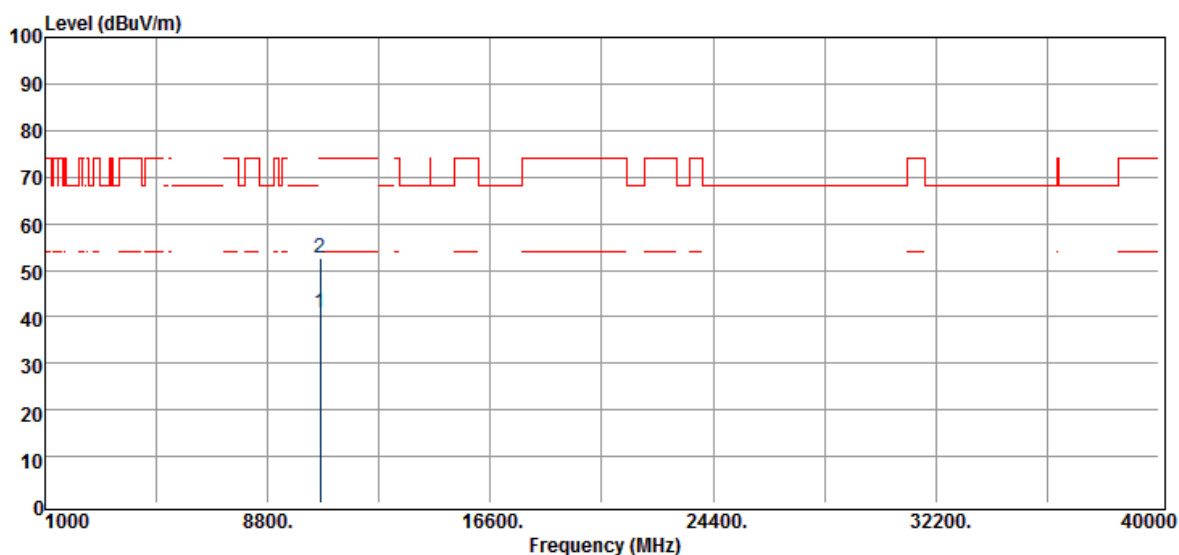
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Project Number : T190321W03
Operation Band : 802.11a B2a
Fundamental Frequency : 5320 MHz
Operation Mode : Tx CH HIGH
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10640.00	Average	24.73	16.12	40.85	54.00	-13.15
10640.00	Peak	36.51	16.12	52.63	74.00	-21.37

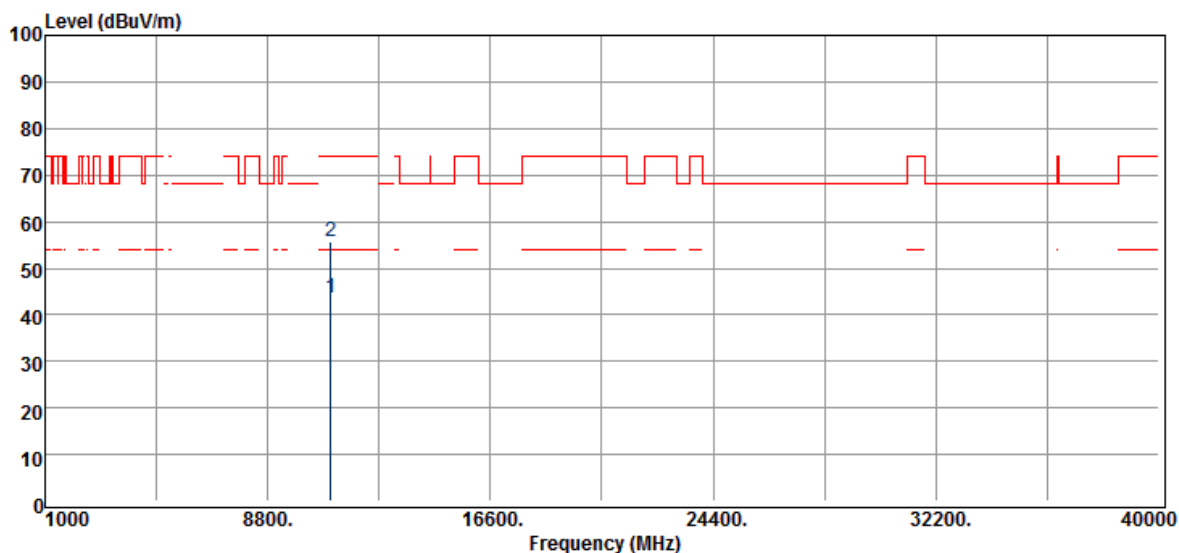
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Project Number : T190321W03
Operation Band : 802.11a B2c
Fundamental Frequency : 5500 MHz
Operation Mode : Tx CH LOW
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11000.00	Average	25.72	17.75	43.47	54.00	-10.53
11000.00	Peak	37.88	17.75	55.63	74.00	-18.37

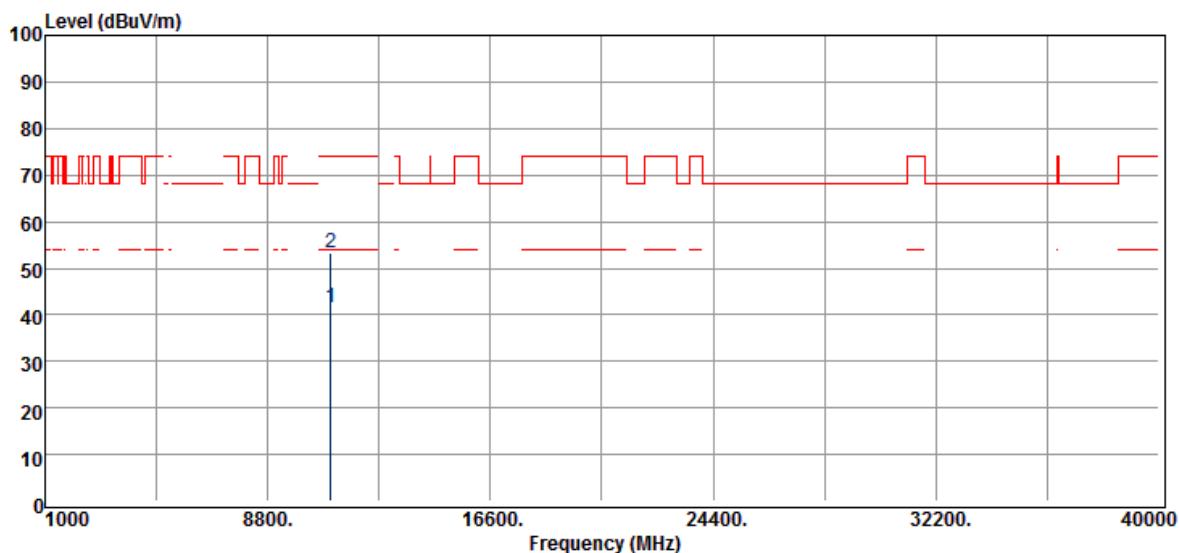
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Project Number : T190321W03
Operation Band : 802.11a B2c
Fundamental Frequency : 5500 MHz
Operation Mode : Tx CH LOW
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11000.00	Average	23.89	17.75	41.64	54.00	-12.36
11000.00	Peak	35.64	17.75	53.39	74.00	-20.61

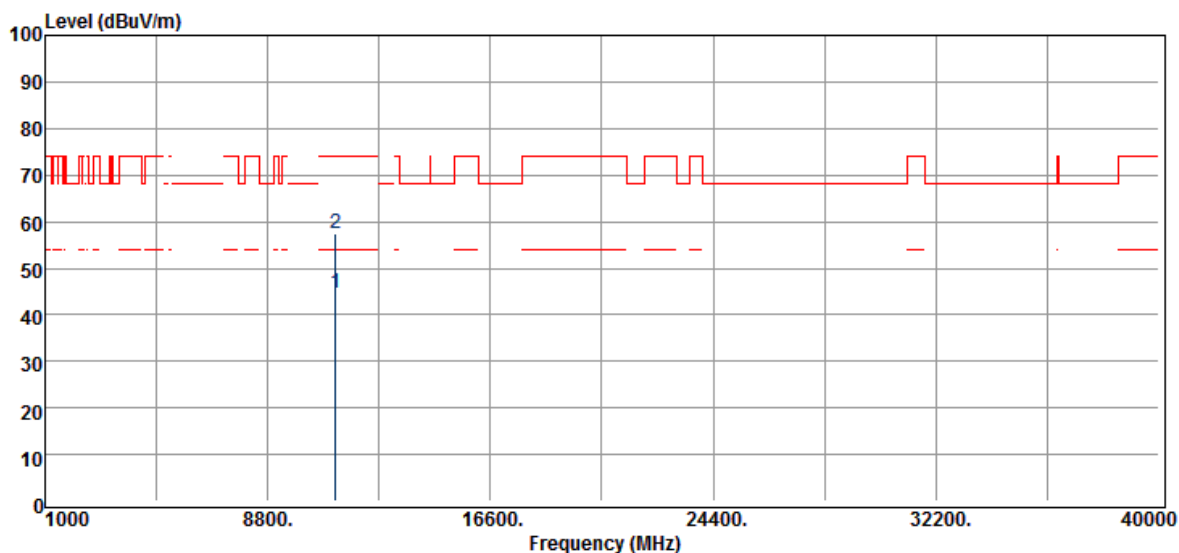
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Project Number : T190321W03
 Operation Band : 802.11a B2c
 Fundamental Frequency : 5580 MHz
 Operation Mode : Tx CH MID
 EUT Pol. : H Plan

Test Date : 2019-04-09
 Temp./Humi. : 23 deg_C / 62 RH
 Engineer : Jerry
 Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11160.00	Average	27.99	16.53	44.52	54.00	-9.48
11160.00	Peak	41.05	16.53	57.58	74.00	-16.42

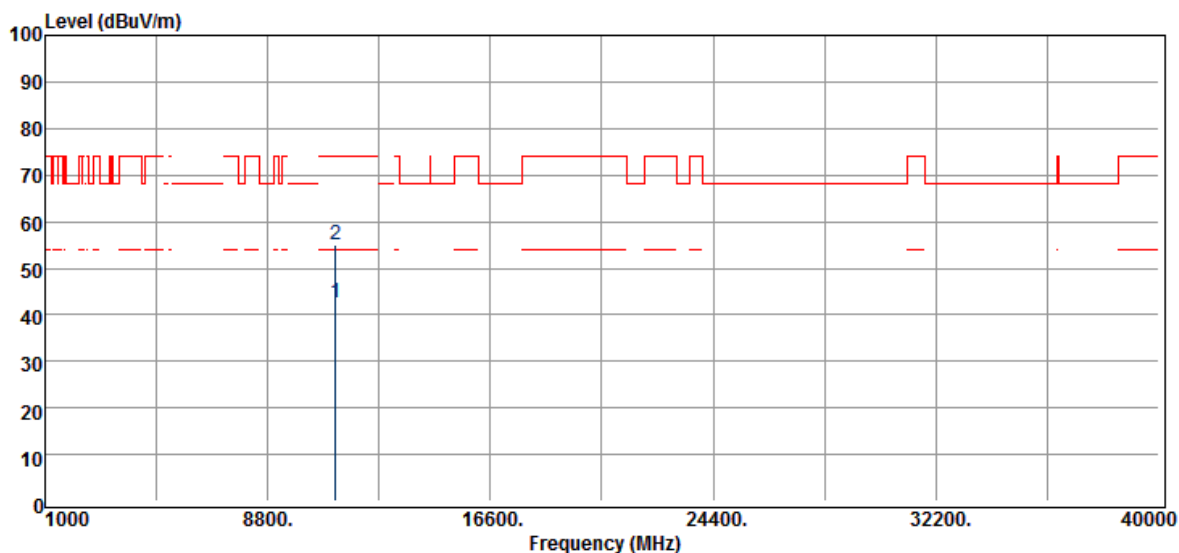
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Project Number : T190321W03
 Operation Band : 802.11a B2c
 Fundamental Frequency : 5580 MHz
 Operation Mode : Tx CH MID
 EUT Pol. : H Plan

Test Date : 2019-04-09
 Temp./Humi. : 23 deg_C / 62 RH
 Engineer : Jerry
 Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11160.00	Average	25.98	16.53	42.51	54.00	-11.49
11160.00	Peak	38.35	16.53	54.88	74.00	-19.12

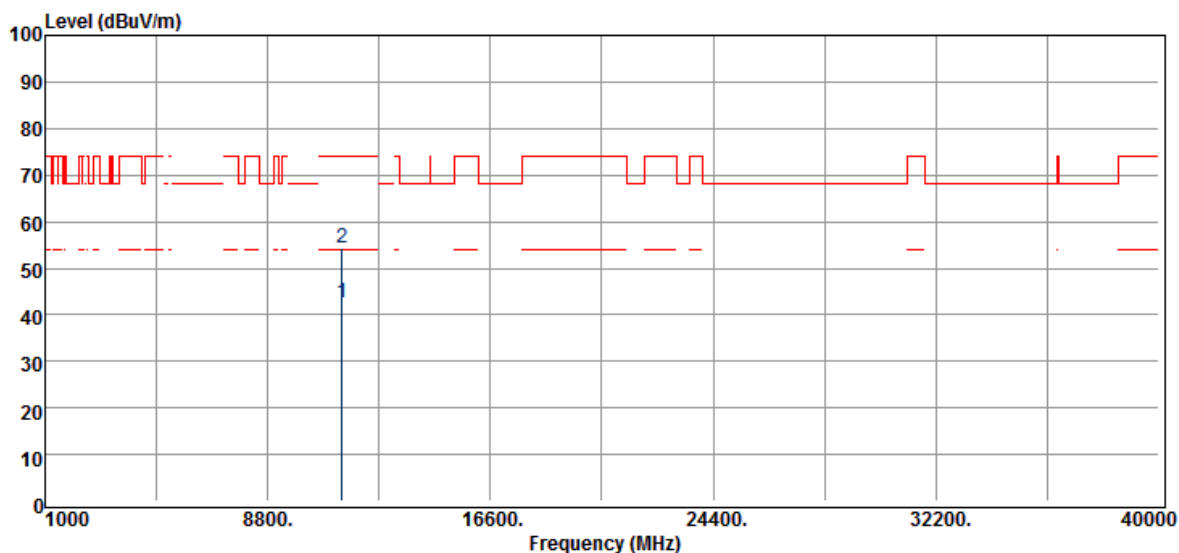
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Project Number : T190321W03
Operation Band : 802.11a B2c
Fundamental Frequency : 5700 MHz
Operation Mode : Tx CH HIGH
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11400.00	Average	26.10	16.48	42.58	54.00	-11.42
11400.00	Peak	37.72	16.48	54.20	74.00	-19.80

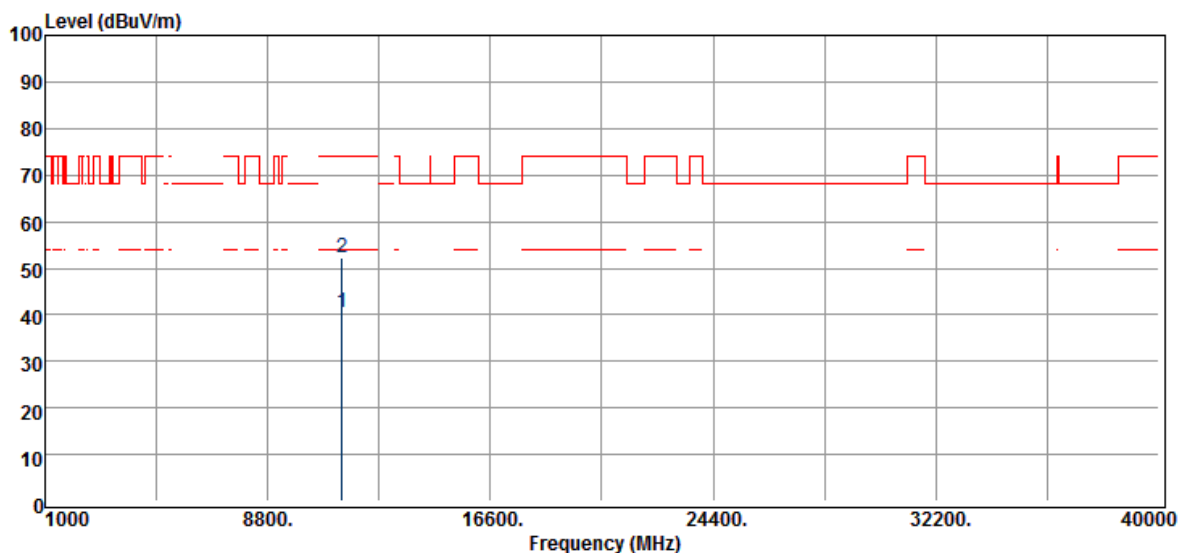
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Project Number : T190321W03
 Operation Band : 802.11a B2c
 Fundamental Frequency : 5700 MHz
 Operation Mode : Tx CH HIGH
 EUT Pol. : H Plan

Test Date : 2019-04-09
 Temp./Humi. : 23 deg_C / 62 RH
 Engineer : Jerry
 Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11400.00	Average	24.17	16.48	40.65	54.00	-13.35
11400.00	Peak	35.94	16.48	52.42	74.00	-21.58

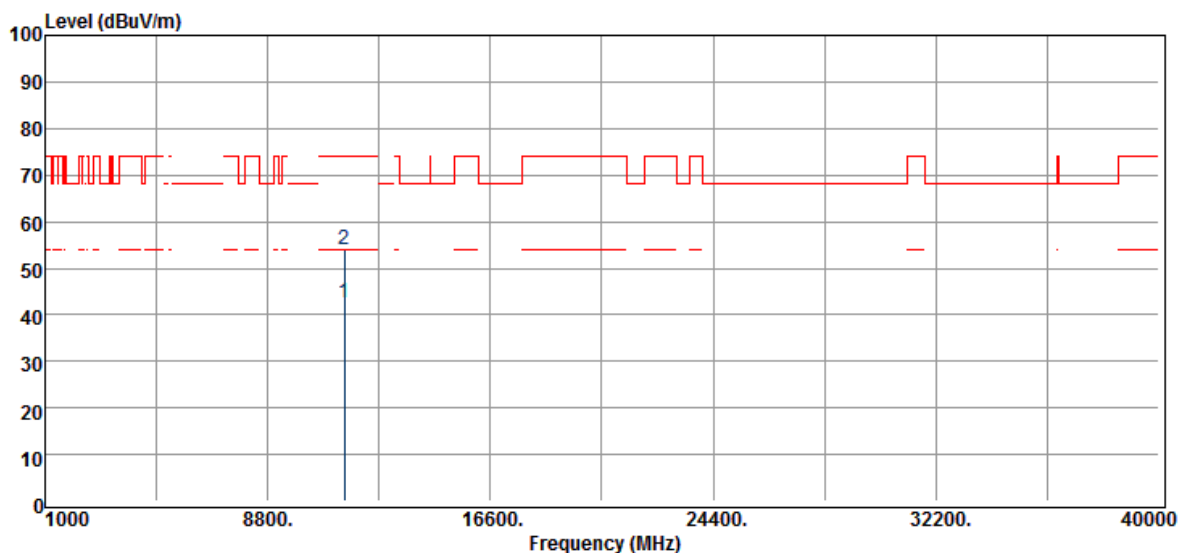
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Project Number : T190321W03
 Operation Band : 802.11a B3
 Fundamental Frequency : 5745 MHz
 Operation Mode : Tx CH LOW
 EUT Pol. : H Plan

Test Date : 2019-04-09
 Temp./Humi. : 23 deg_C / 62 RH
 Engineer : Jerry
 Measurement Antenna Pol. : VERTICAL



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	26.60	15.85	42.45	54.00	-11.55
11490.00	Peak	38.02	15.85	53.87	74.00	-20.13

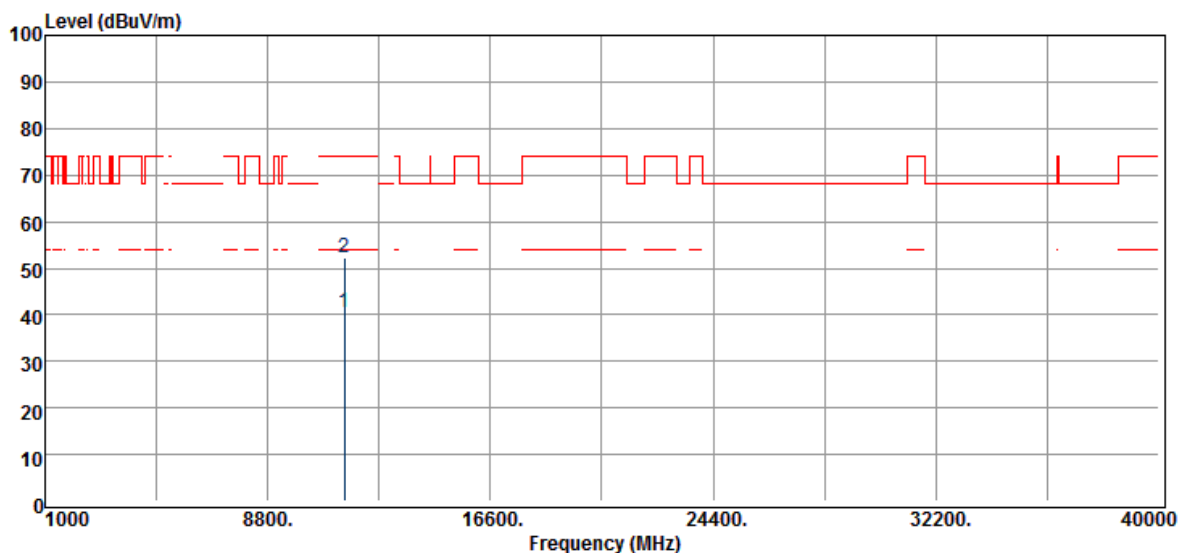
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Project Number : T190321W03
Operation Band : 802.11a B3
Fundamental Frequency : 5745 MHz
Operation Mode : Tx CH LOW
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : HORIZONTAL



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	24.64	15.85	40.49	54.00	-13.51
11490.00	Peak	36.26	15.85	52.11	74.00	-21.89

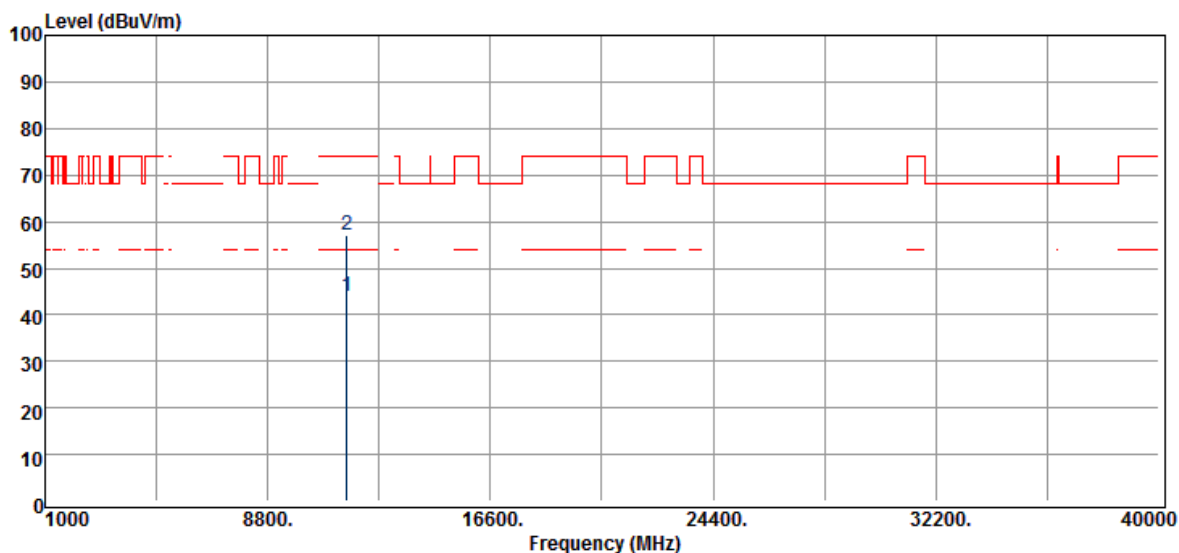
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Project Number : T190321W03
 Operation Band : 802.11a B3
 Fundamental Frequency : 5785 MHz
 Operation Mode : Tx CH MID
 EUT Pol. : H Plan

Test Date : 2019-04-09
 Temp./Humi. : 23 deg_C / 62 RH
 Engineer : Jerry
 Measurement Antenna Pol. : VERTICAL



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	27.71	16.29	44.00	54.00	-10.00
11570.00	Peak	40.83	16.29	57.12	74.00	-16.88

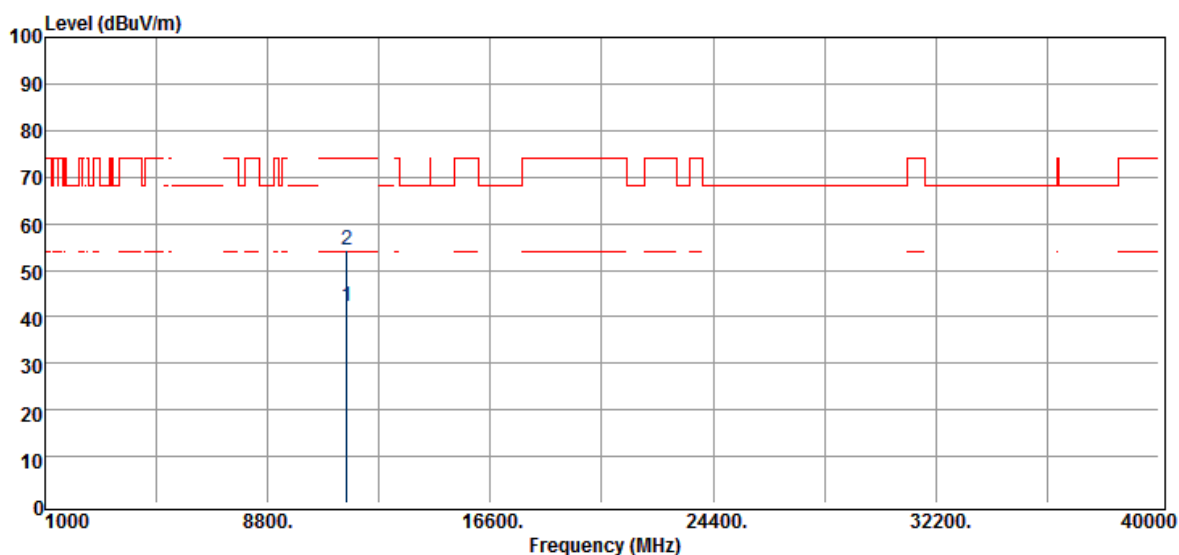
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Project Number : T190321W03
Operation Band : 802.11a B3
Fundamental Frequency : 5785 MHz
Operation Mode : Tx CH MID
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : HORIZONTAL



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	25.77	16.29	42.06	54.00	-11.94
11570.00	Peak	38.21	16.29	54.50	74.00	-19.50

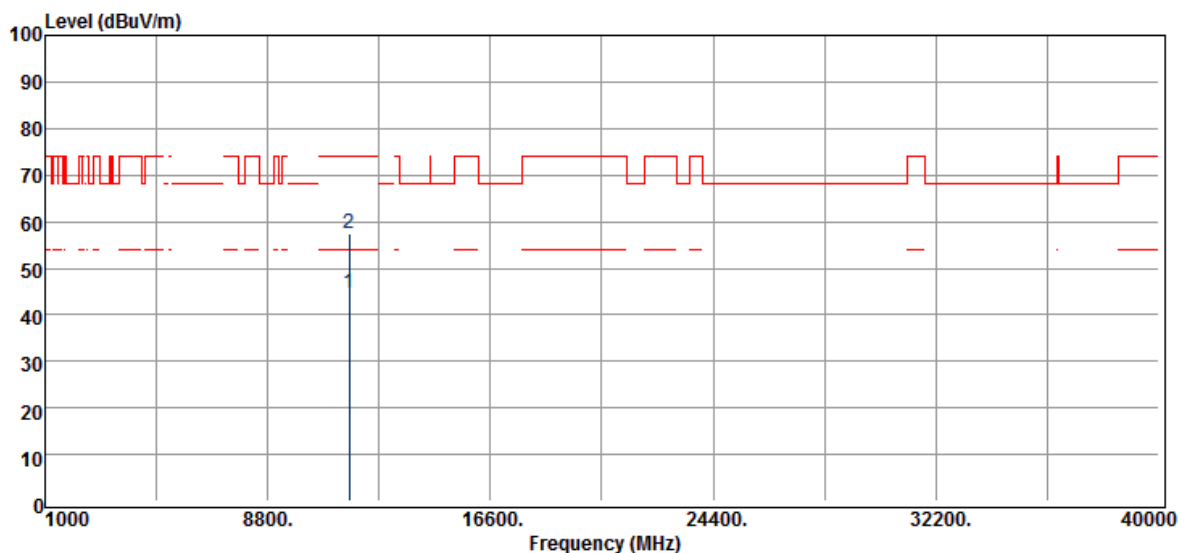
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Project Number : T190321W03
Operation Band : 802.11a B3
Fundamental Frequency : 5825 MHz
Operation Mode : Tx CH HIGH
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



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	27.91	16.61	44.52	54.00	-9.48
11650.00	Peak	40.84	16.61	57.45	74.00	-16.55

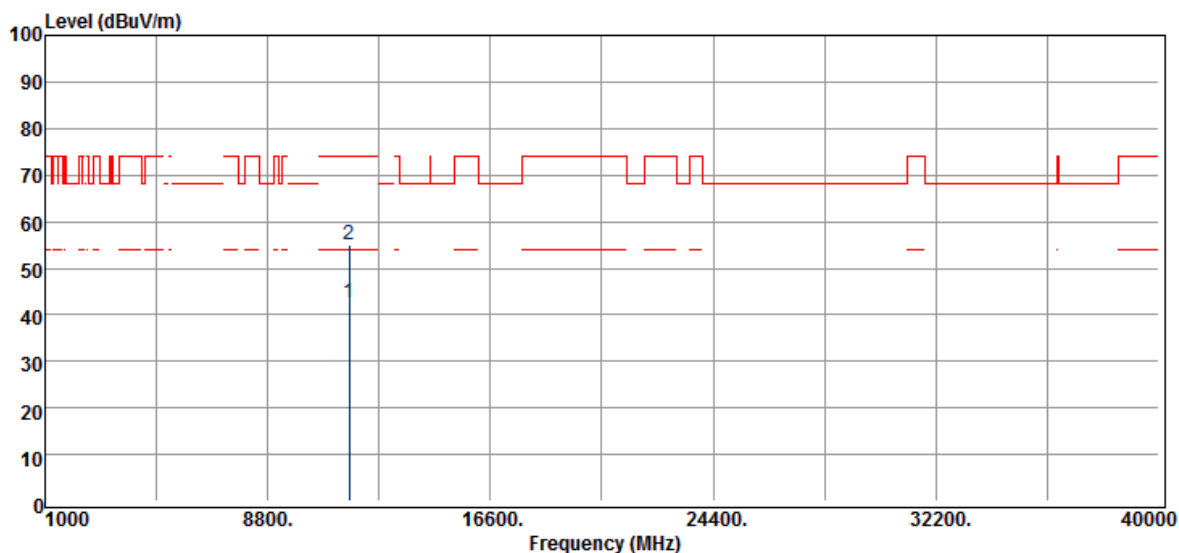
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Project Number : T190321W03
Operation Band : 802.11a B3
Fundamental Frequency : 5825 MHz
Operation Mode : Tx CH HIGH
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : HORIZONTAL



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	25.95	16.61	42.56	54.00	-11.44
11650.00	Peak	38.31	16.61	54.92	74.00	-19.08

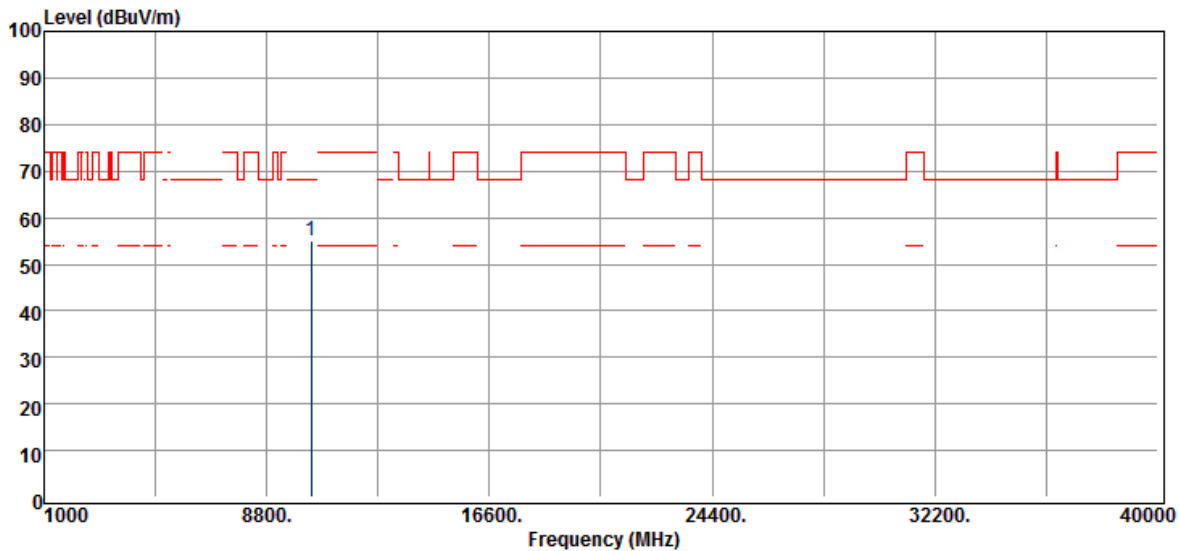
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Project Number : T190321W03
Operation Band : 802.11n20 B1
Fundamental Frequency : 5180 MHz
Operation Mode : Tx CH LOW
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



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	40.74	14.41	55.15	68.20	-13.05

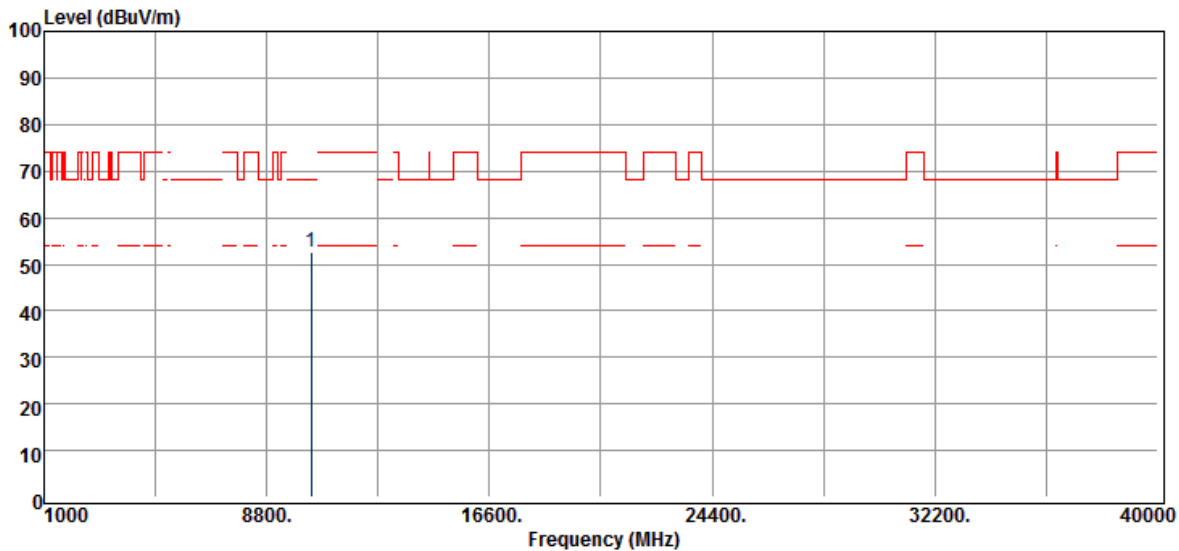
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Project Number : T190321W03
Operation Band : 802.11n20 B1
Fundamental Frequency : 5180 MHz
Operation Mode : Tx CH LOW
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : HORIZONTAL



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	38.07	14.41	52.48	68.20	-15.72

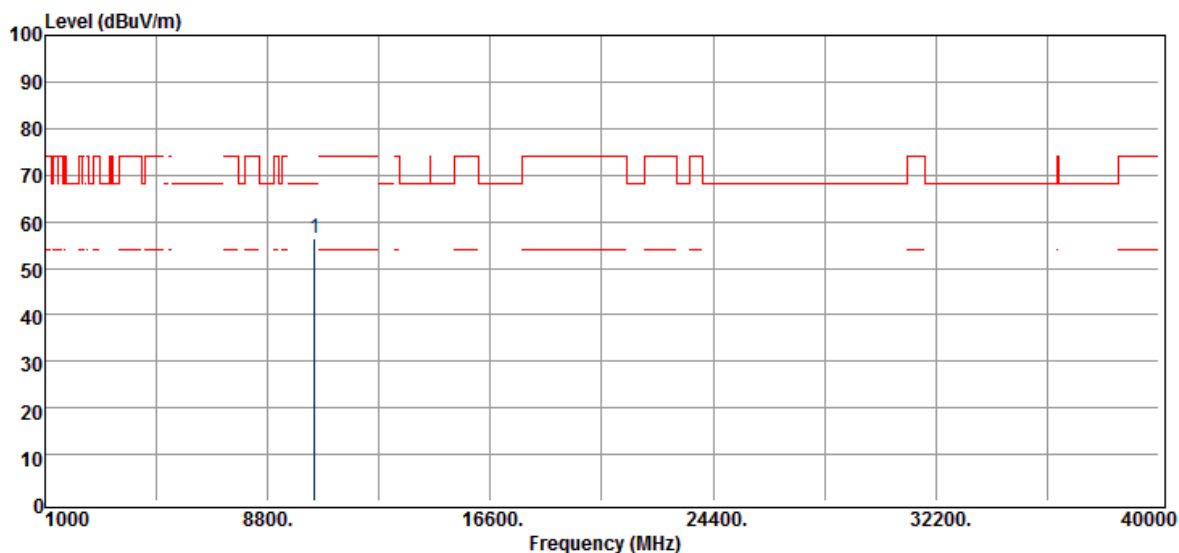
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Project Number : T190321W03
Operation Band : 802.11n20 B1
Fundamental Frequency : 5220 MHz
Operation Mode : Tx CH MID
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



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	40.76	15.58	56.34	68.20	-11.86

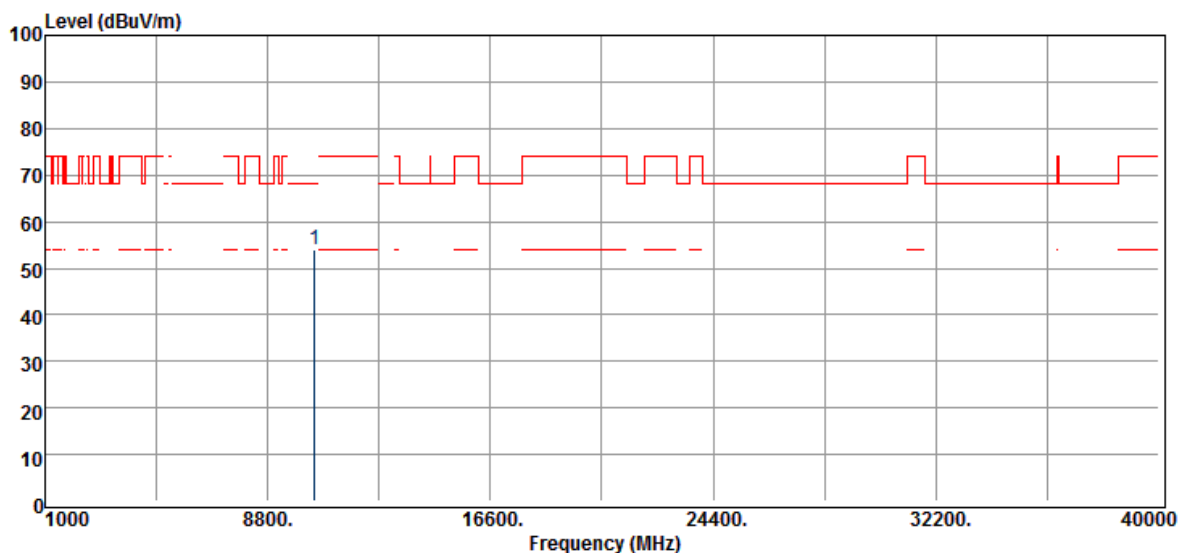
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Project Number : T190321W03
Operation Band : 802.11n20 B1
Fundamental Frequency : 5220 MHz
Operation Mode : Tx CH MID
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10440.00	Peak	38.26	15.58	53.84	68.20	-14.36

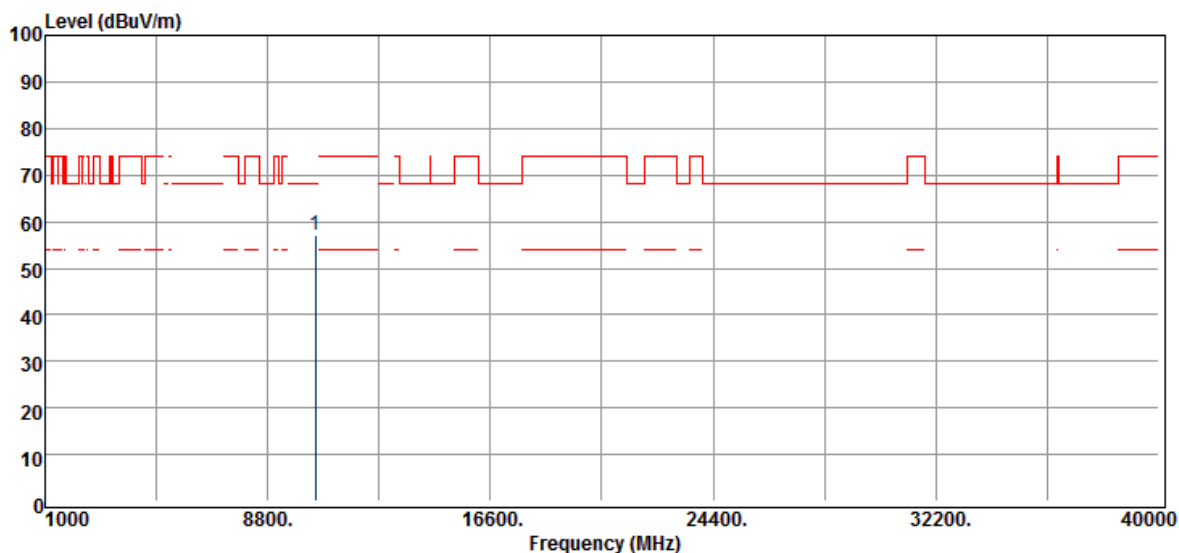
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Project Number : T190321W03
Operation Band : 802.11n20 B1
Fundamental Frequency : 5240 MHz
Operation Mode : Tx CH HIGH
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



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	40.74	16.48	57.22	68.20	-10.98

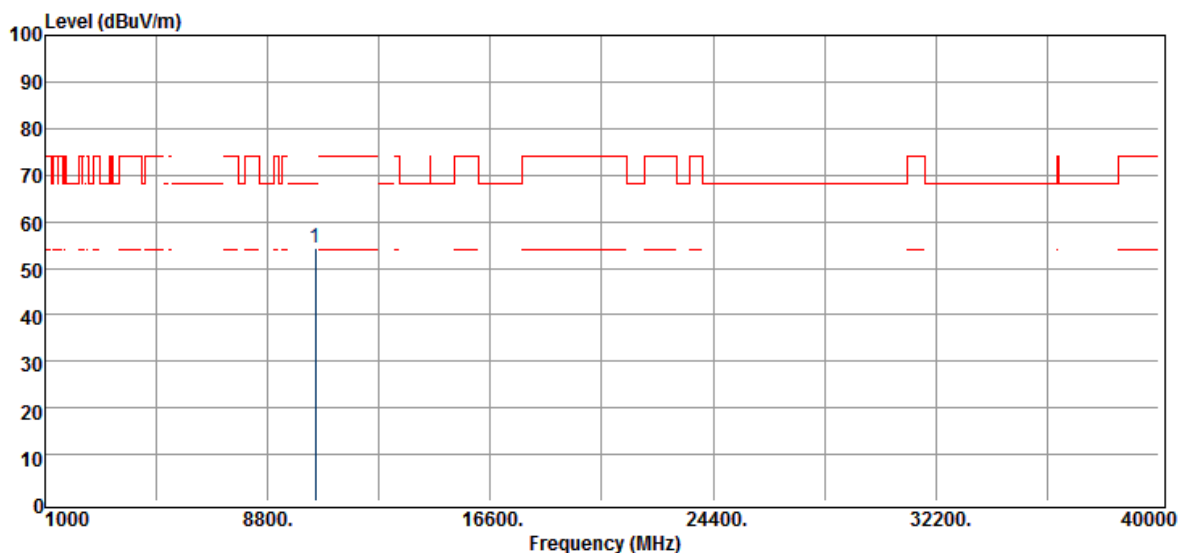
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Project Number : T190321W03
Operation Band : 802.11n20 B1
Fundamental Frequency : 5240 MHz
Operation Mode : Tx CH HIGH
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : HORIZONTAL



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	37.86	16.48	54.34	68.20	-13.86

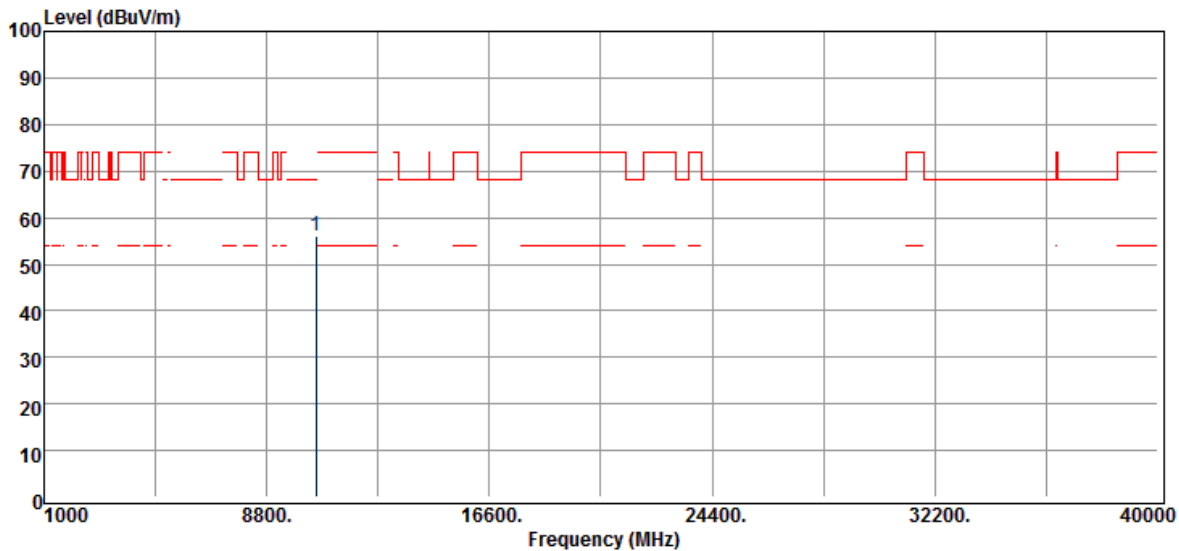
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Project Number : T190321W03
Operation Band : 802.11n20 B2a
Fundamental Frequency : 5260 MHz
Operation Mode : Tx CH LOW
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10520.00	Peak	40.62	15.57	56.19	68.20	-12.01

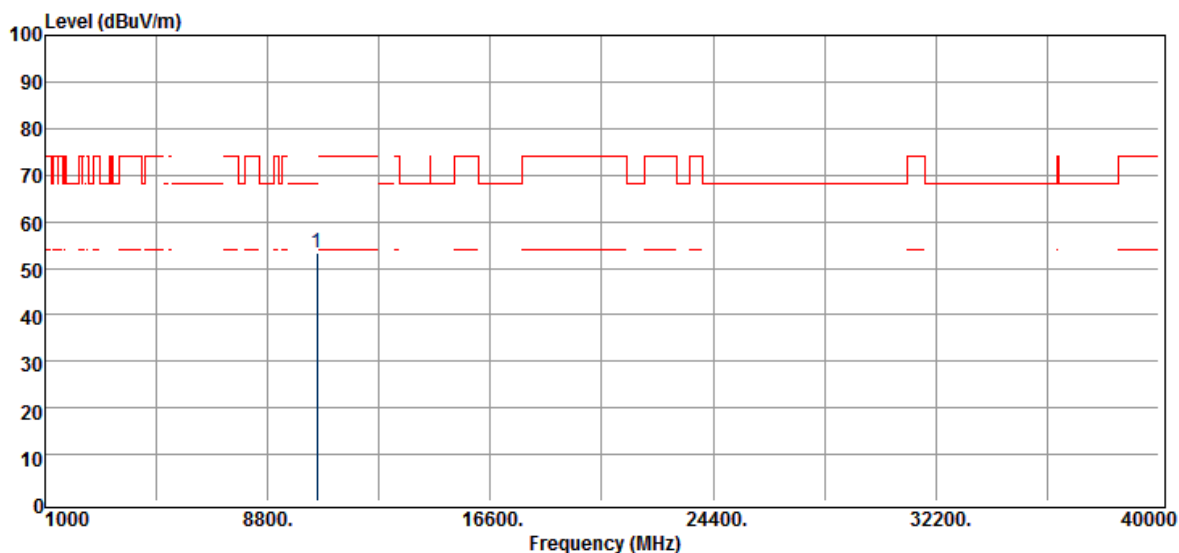
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Project Number : T190321W03
Operation Band : 802.11n20 B2a
Fundamental Frequency : 5260 MHz
Operation Mode : Tx CH LOW
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10520.00	Peak	37.87	15.57	53.44	68.20	-14.76

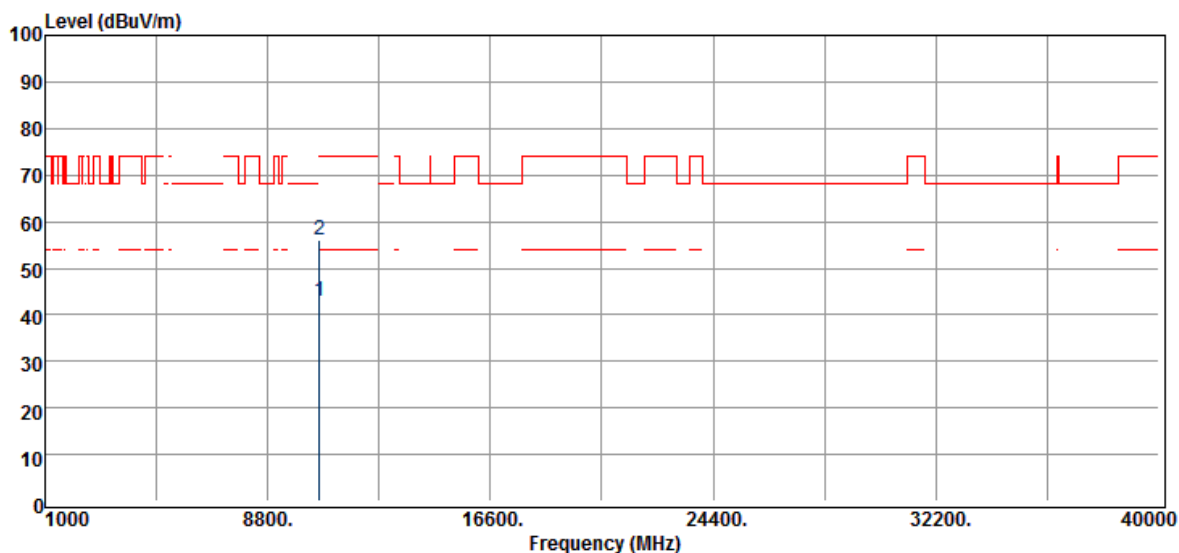
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Project Number : T190321W03
Operation Band : 802.11n20 B2a
Fundamental Frequency : 5300 MHz
Operation Mode : Tx CH MID
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10600.00	Average	27.52	15.47	42.99	54.00	-11.01
10600.00	Peak	40.55	15.47	56.02	74.00	-17.98

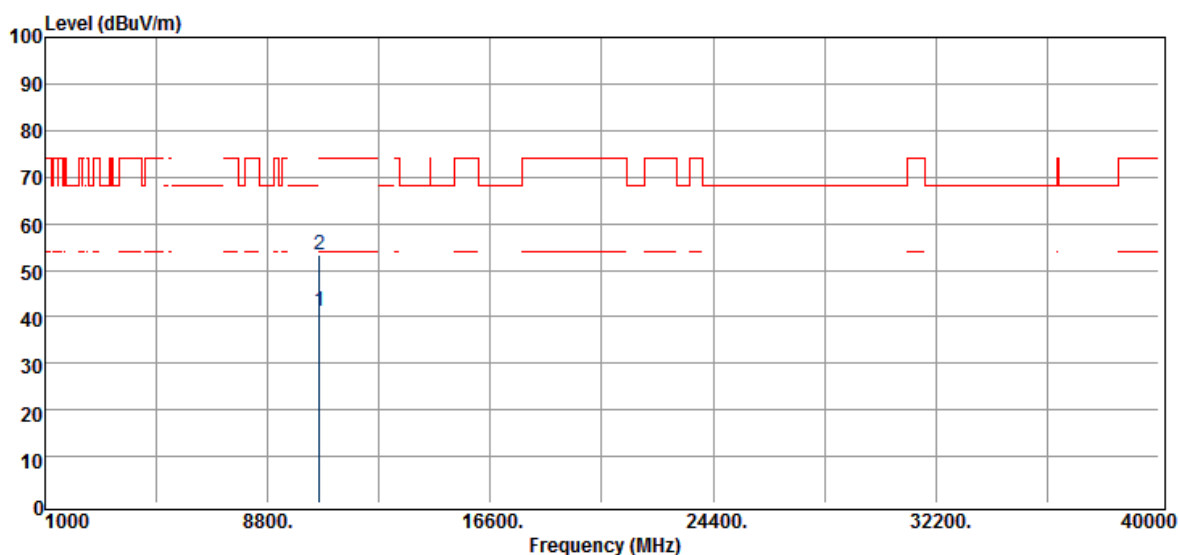
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Project Number : T190321W03
Operation Band : 802.11n20 B2a
Fundamental Frequency : 5300 MHz
Operation Mode : Tx CH MID
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10600.00	Average	25.60	15.47	41.07	54.00	-12.93
10600.00	Peak	37.86	15.47	53.33	74.00	-20.67

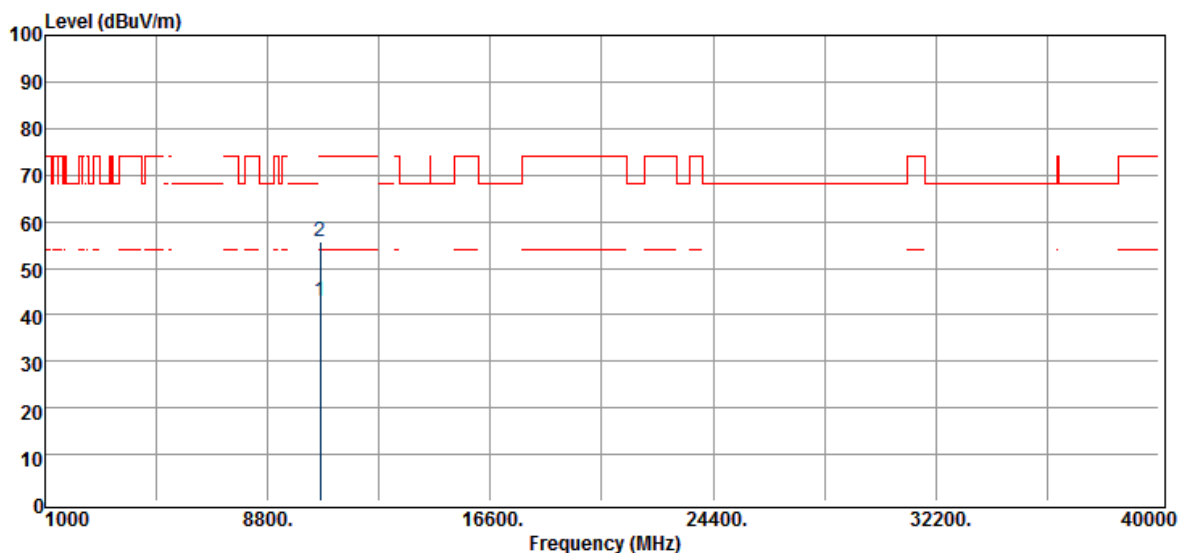
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Project Number : T190321W03
Operation Band : 802.11n20 B2a
Fundamental Frequency : 5320 MHz
Operation Mode : Tx CH HIGH
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10640.00	Average	26.93	16.12	43.05	54.00	-10.95
10640.00	Peak	39.56	16.12	55.68	74.00	-18.32

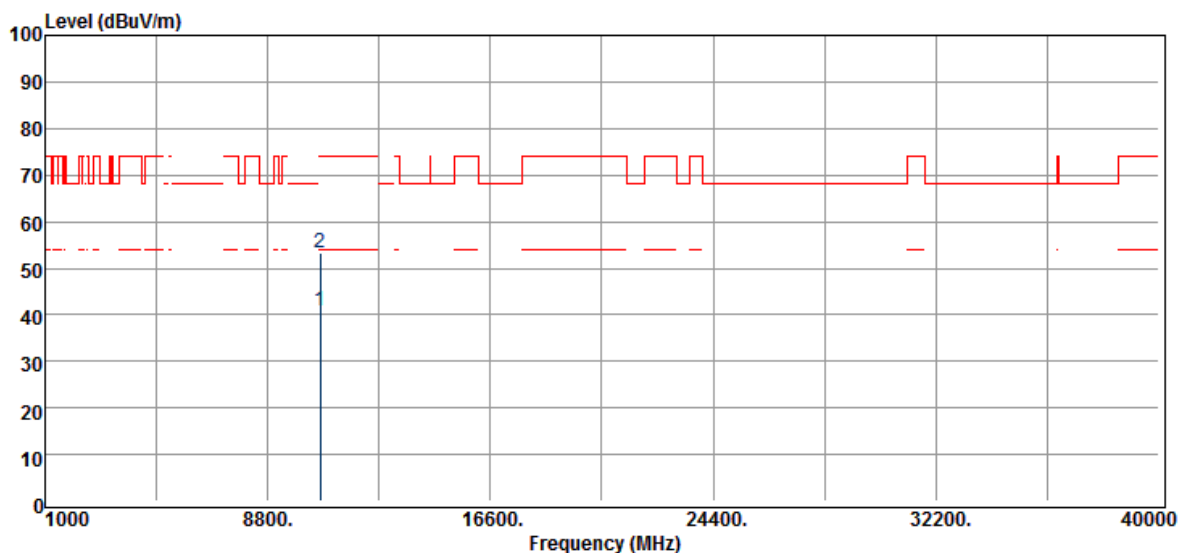
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Project Number : T190321W03
Operation Band : 802.11n20 B2a
Fundamental Frequency : 5320 MHz
Operation Mode : Tx CH HIGH
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10640.00	Average	24.83	16.12	40.95	54.00	-13.05
10640.00	Peak	37.01	16.12	53.13	74.00	-20.87

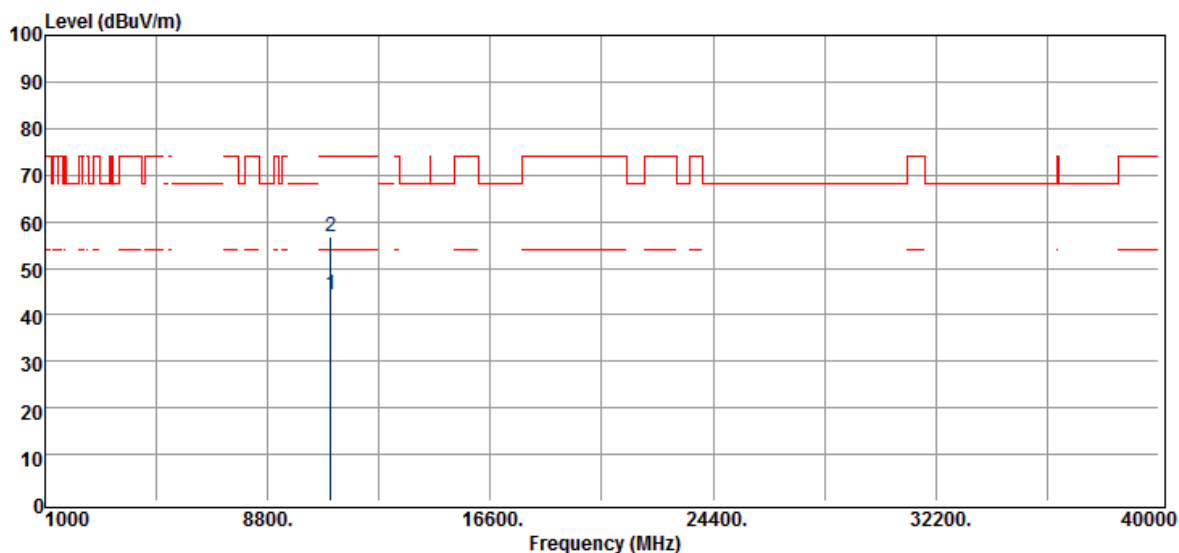
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Project Number : T190321W03
Operation Band : 802.11n20 B2c
Fundamental Frequency : 5500 MHz
Operation Mode : Tx CH LOW
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11000.00	Average	26.42	17.75	44.17	54.00	-9.83
11000.00	Peak	39.05	17.75	56.80	74.00	-17.20

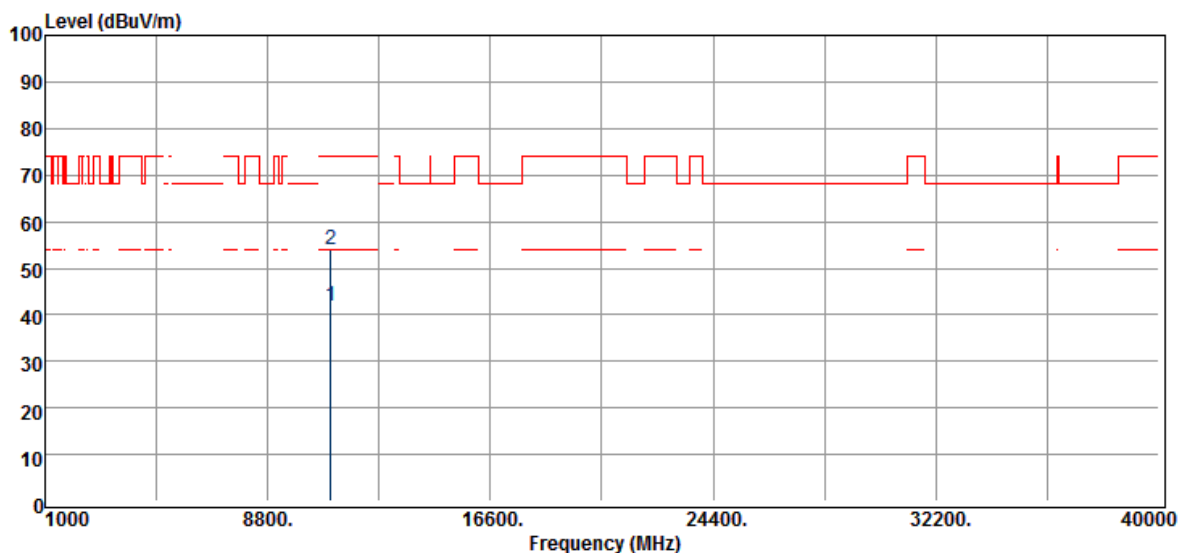
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Project Number : T190321W03
Operation Band : 802.11n20 B2c
Fundamental Frequency : 5500 MHz
Operation Mode : Tx CH LOW
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11000.00	Average	24.27	17.75	42.02	54.00	-11.98
11000.00	Peak	36.25	17.75	54.00	74.00	-20.00

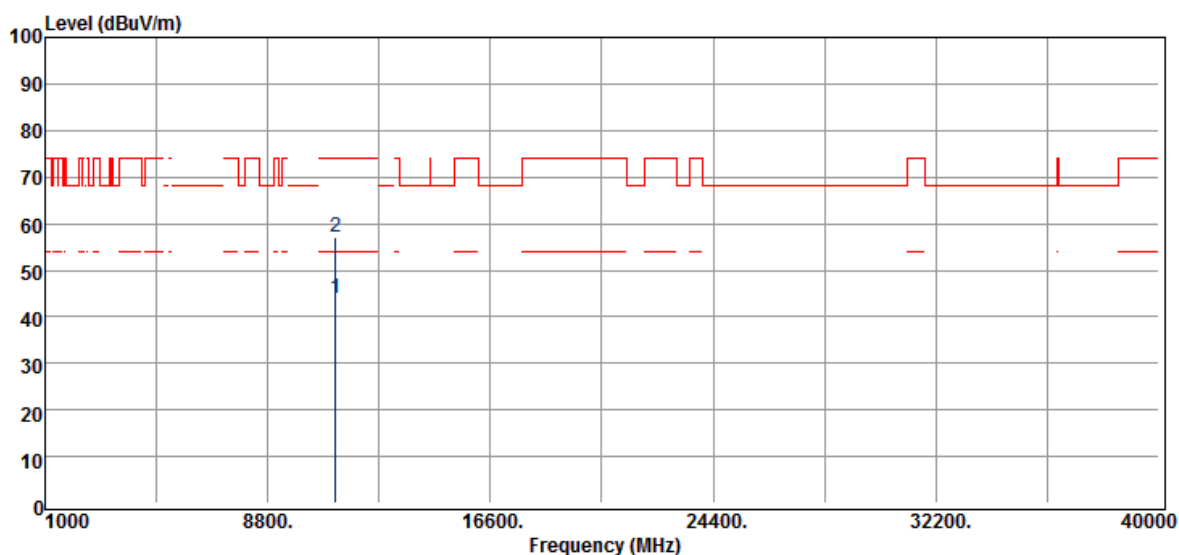
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Project Number : T190321W03
Operation Band : 802.11n20 B2c
Fundamental Frequency : 5580 MHz
Operation Mode : Tx CH MID
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11160.00	Average	27.54	16.53	44.07	54.00	-9.93
11160.00	Peak	40.46	16.53	56.99	74.00	-17.01

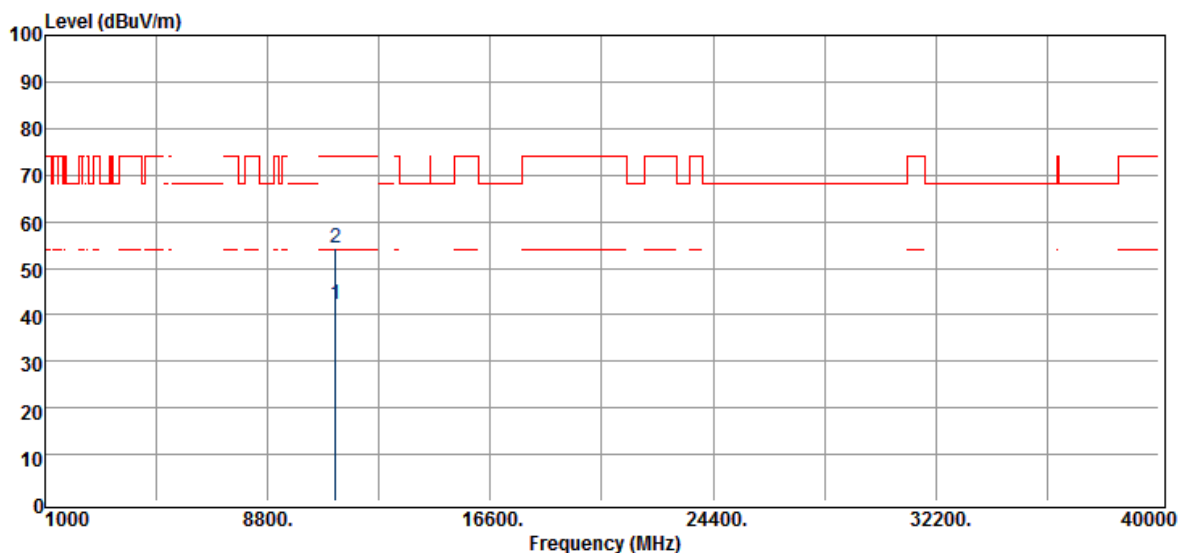
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Project Number : T190321W03
Operation Band : 802.11n20 B2c
Fundamental Frequency : 5580 MHz
Operation Mode : Tx CH MID
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11160.00	Average	25.55	16.53	42.08	54.00	-11.92
11160.00	Peak	37.95	16.53	54.48	74.00	-19.52

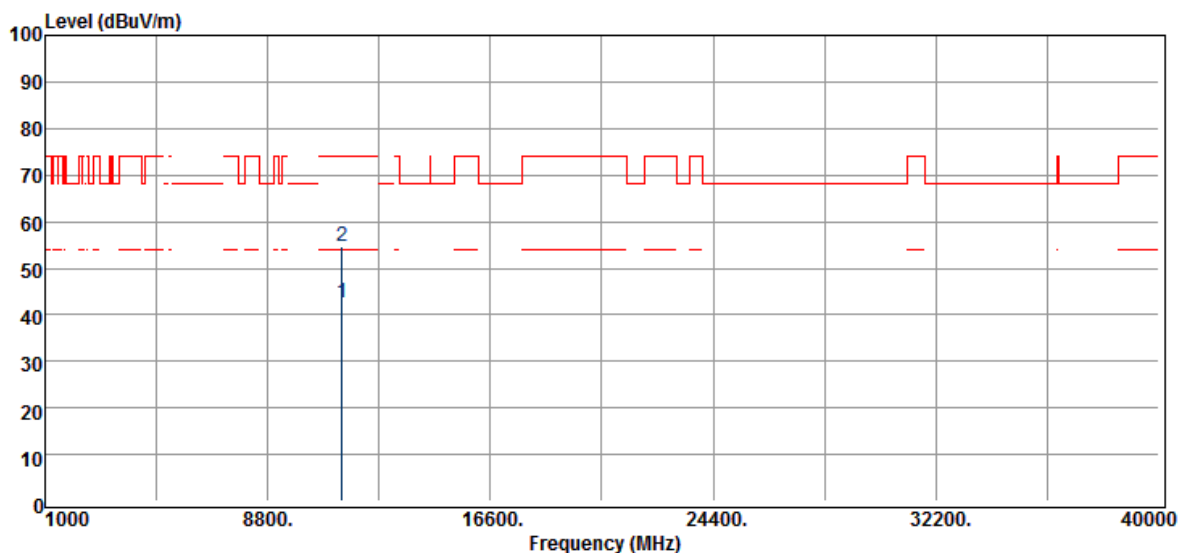
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Project Number : T190321W03
Operation Band : 802.11n20 B2c
Fundamental Frequency : 5700 MHz
Operation Mode : Tx CH HIGH
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11400.00	Average	26.16	16.48	42.64	54.00	-11.36
11400.00	Peak	38.08	16.48	54.56	74.00	-19.44

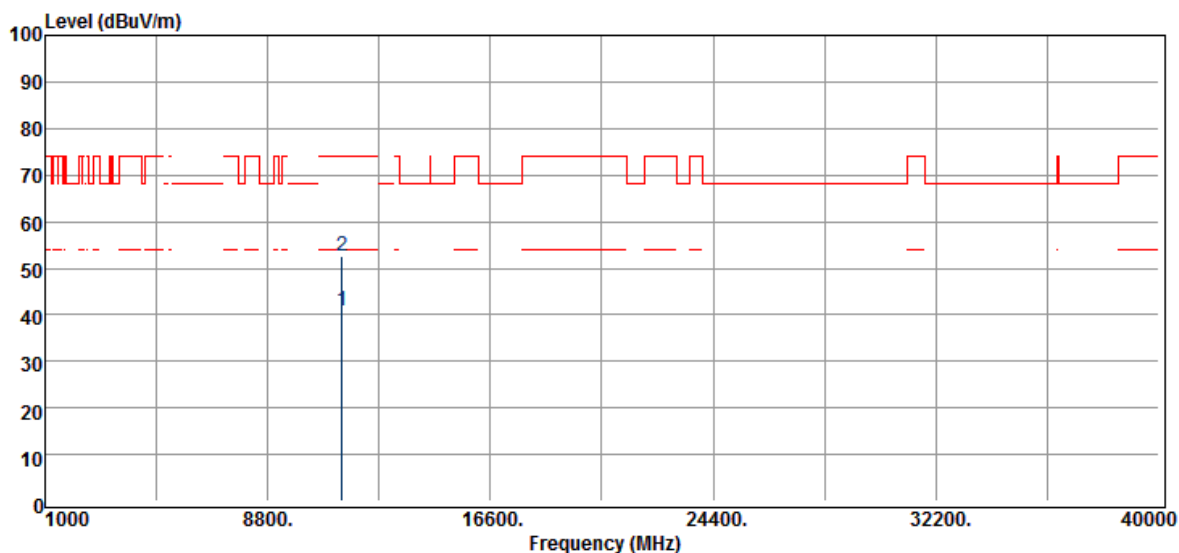
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Project Number : T190321W03
Operation Band : 802.11n20 B2c
Fundamental Frequency : 5700 MHz
Operation Mode : Tx CH HIGH
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11400.00	Average	24.27	16.48	40.75	54.00	-13.25
11400.00	Peak	36.06	16.48	52.54	74.00	-21.46

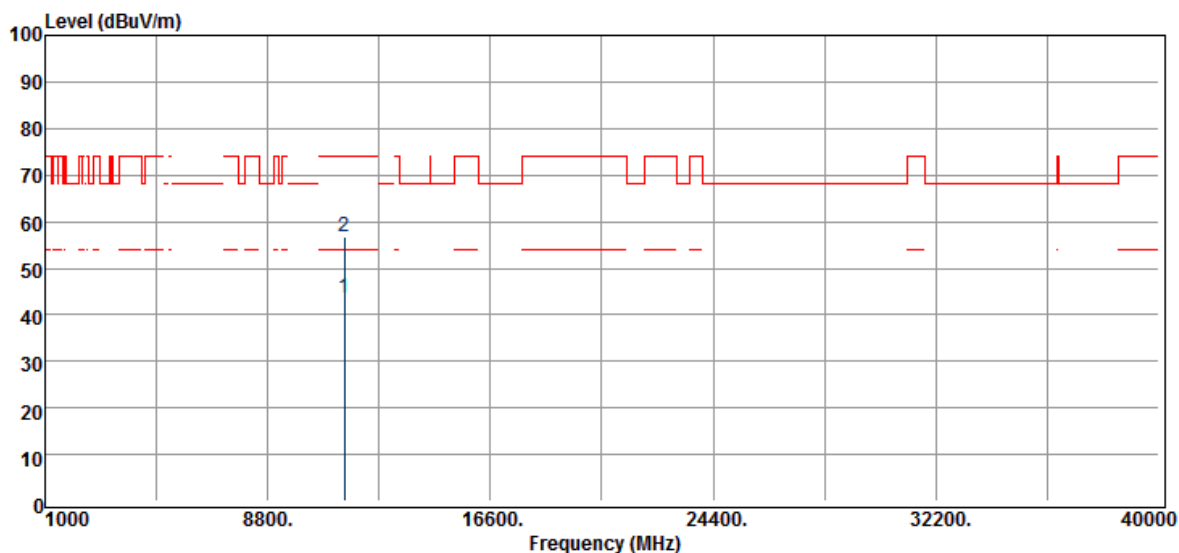
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Project Number : T190321W03
Operation Band : 802.11n20 B3
Fundamental Frequency : 5745 MHz
Operation Mode : Tx CH LOW
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



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	15.85	43.67	54.00	-10.33
11490.00	Peak	40.79	15.85	56.64	74.00	-17.36

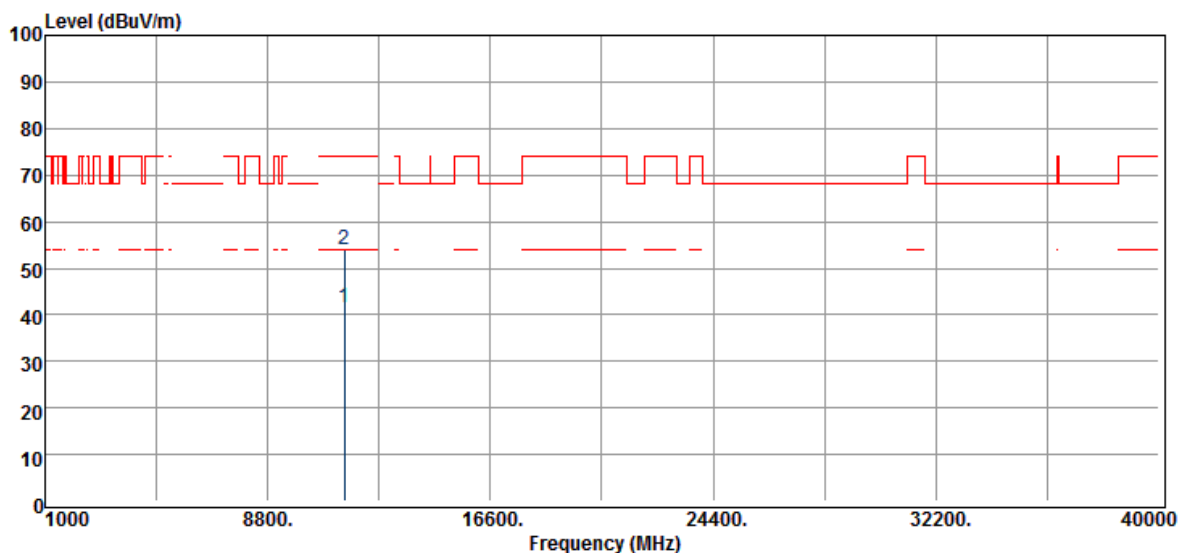
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Project Number : T190321W03
Operation Band : 802.11n20 B3
Fundamental Frequency : 5745 MHz
Operation Mode : Tx CH LOW
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : HORIZONTAL



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	25.82	15.85	41.67	54.00	-12.33
11490.00	Peak	38.15	15.85	54.00	74.00	-20.00

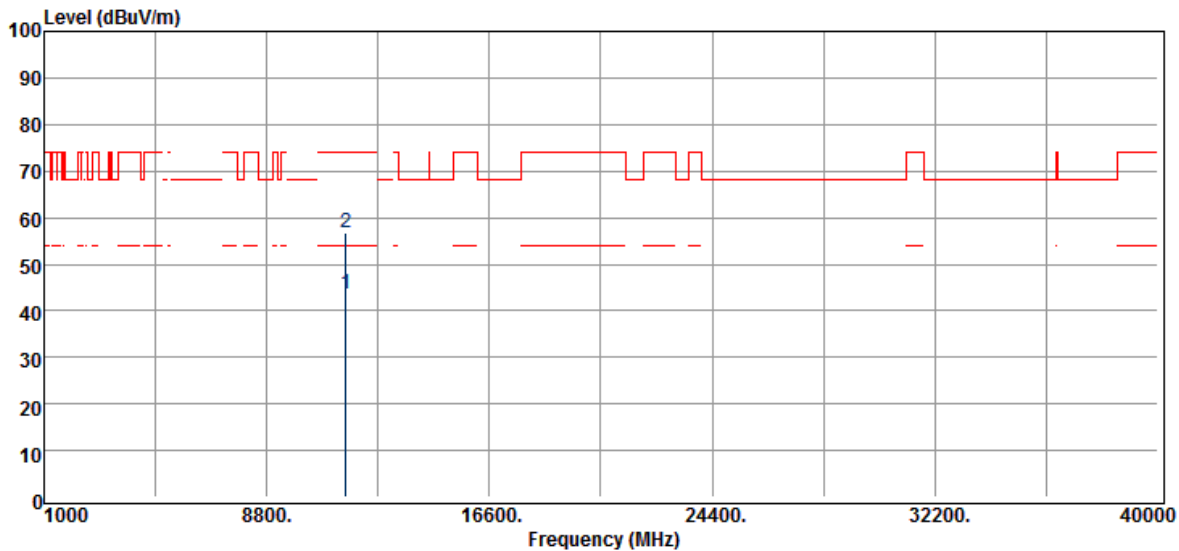
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Project Number : T190321W03
Operation Band : 802.11n20 B3
Fundamental Frequency : 5785 MHz
Operation Mode : Tx CH MID
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



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	27.41	16.29	43.70	54.00	-10.30
11570.00	Peak	40.39	16.29	56.68	74.00	-17.32

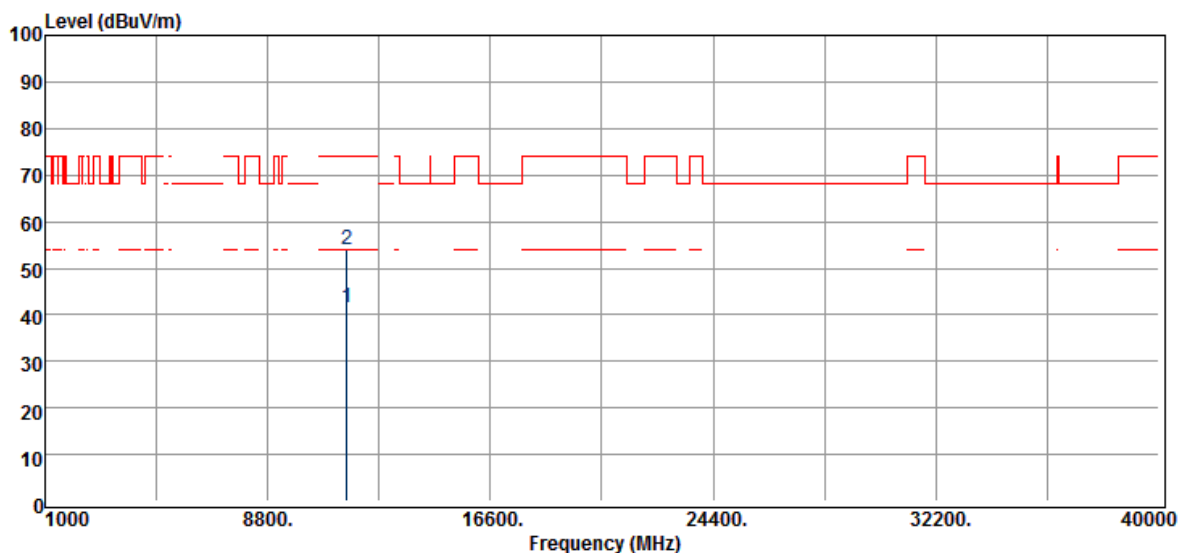
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Project Number : T190321W03
Operation Band : 802.11n20 B3
Fundamental Frequency : 5785 MHz
Operation Mode : Tx CH MID
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : HORIZONTAL



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	25.31	16.29	41.60	54.00	-12.40
11570.00	Peak	37.71	16.29	54.00	74.00	-20.00

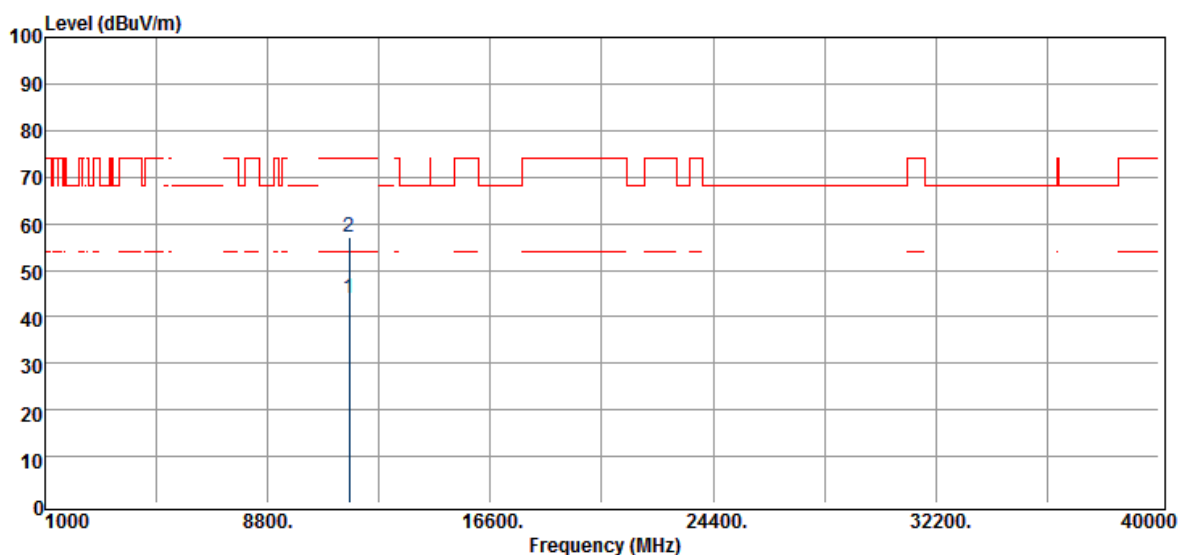
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Project Number : T190321W03
Operation Band : 802.11n20 B3
Fundamental Frequency : 5825 MHz
Operation Mode : Tx CH HIGH
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



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	16.61	44.09	54.00	-9.91
11650.00	Peak	40.54	16.61	57.15	74.00	-16.85

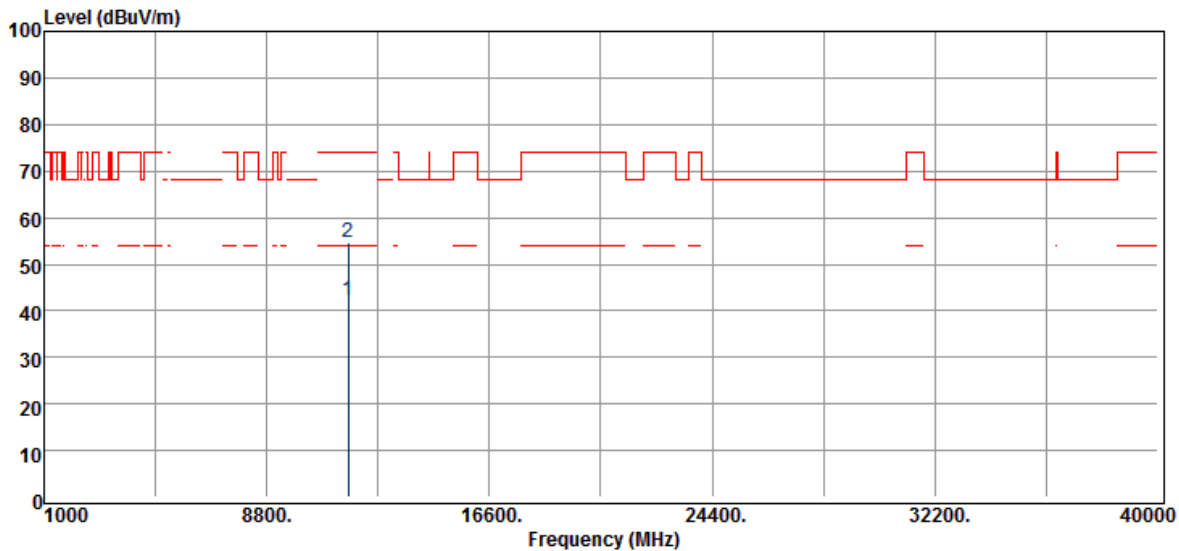
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Project Number : T190321W03
Operation Band : 802.11n20 B3
Fundamental Frequency : 5825 MHz
Operation Mode : Tx CH HIGH
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : HORIZONTAL



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	25.49	16.61	42.10	54.00	-11.90
11650.00	Peak	37.91	16.61	54.52	74.00	-19.48

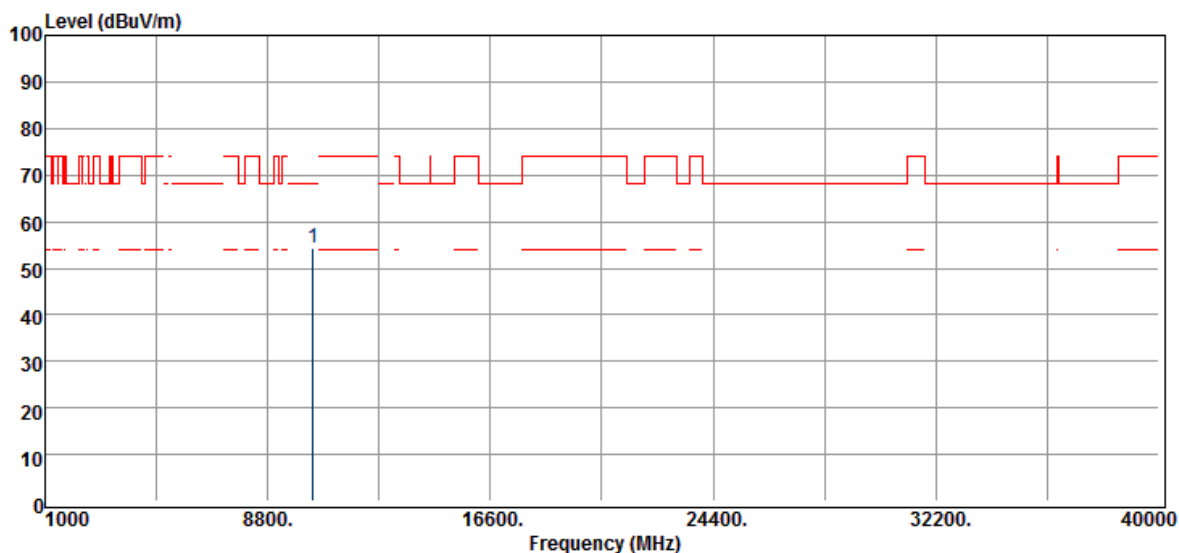
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Project Number : T190321W03
Operation Band : 802.11n40 B1
Fundamental Frequency : 5190 MHz
Operation Mode : Tx CH LOW
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



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	39.60	14.58	54.18	68.20	-14.02

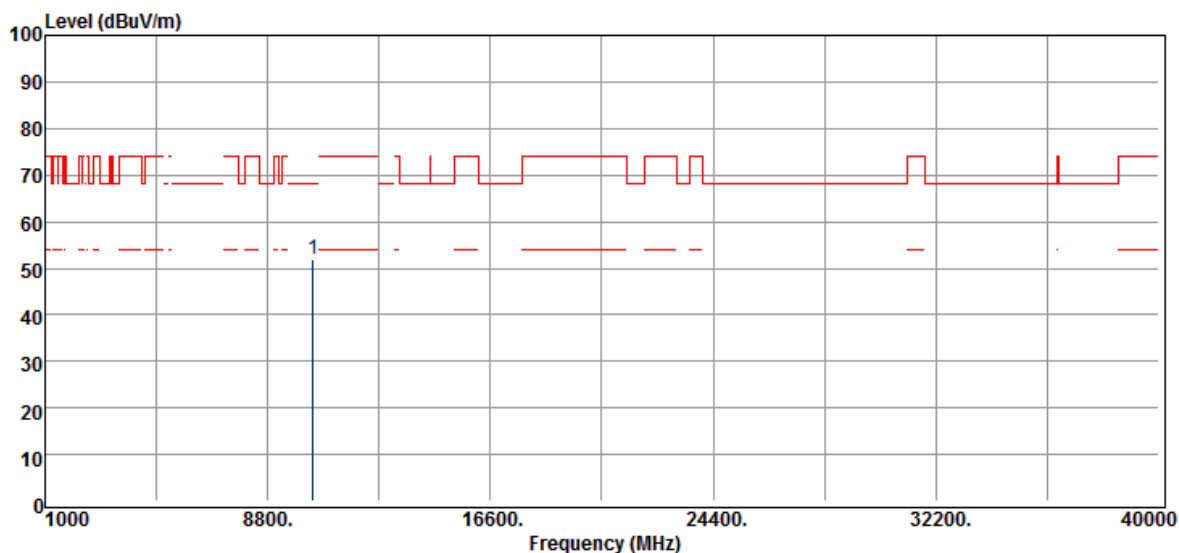
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Project Number : T190321W03
 Operation Band : 802.11n40 B1
 Fundamental Frequency : 5190 MHz
 Operation Mode : Tx CH LOW
 EUT Pol. : H Plan

Test Date : 2019-04-09
 Temp./Humi. : 23 deg_C / 62 RH
 Engineer : Jerry
 Measurement Antenna Pol. : HORIZONTAL



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	37.47	14.58	52.05	68.20	-16.15

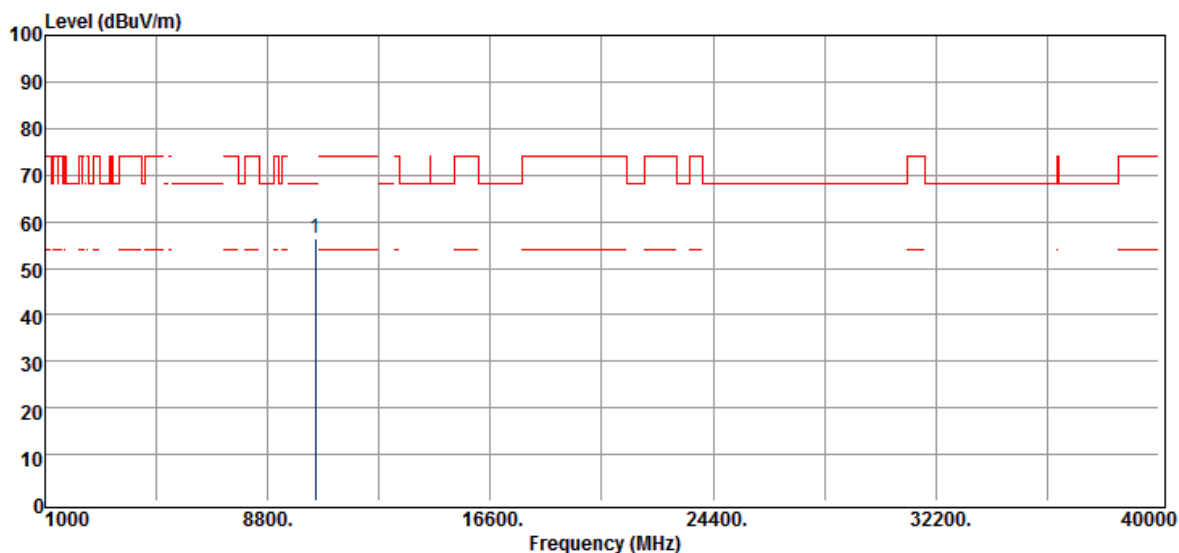
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Project Number : T190321W03
Operation Band : 802.11n40 B1
Fundamental Frequency : 5230 MHz
Operation Mode : Tx CH HIGH
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



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	40.33	15.97	56.30	68.20	-11.90

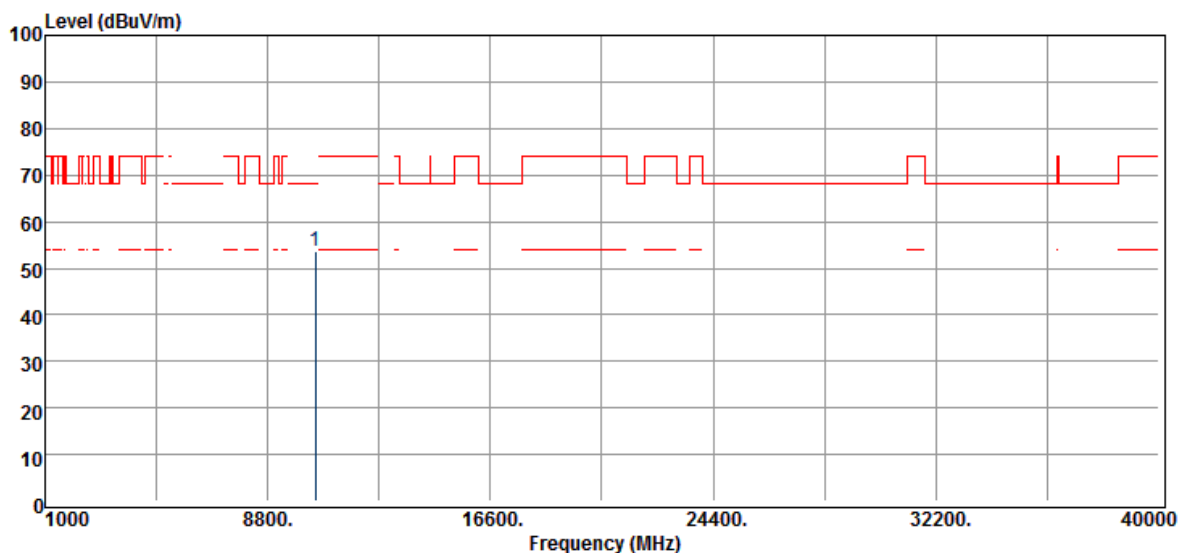
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Project Number : T190321W03
Operation Band : 802.11n40 B1
Fundamental Frequency : 5230 MHz
Operation Mode : Tx CH HIGH
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : HORIZONTAL



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	37.65	15.97	53.62	68.20	-14.58

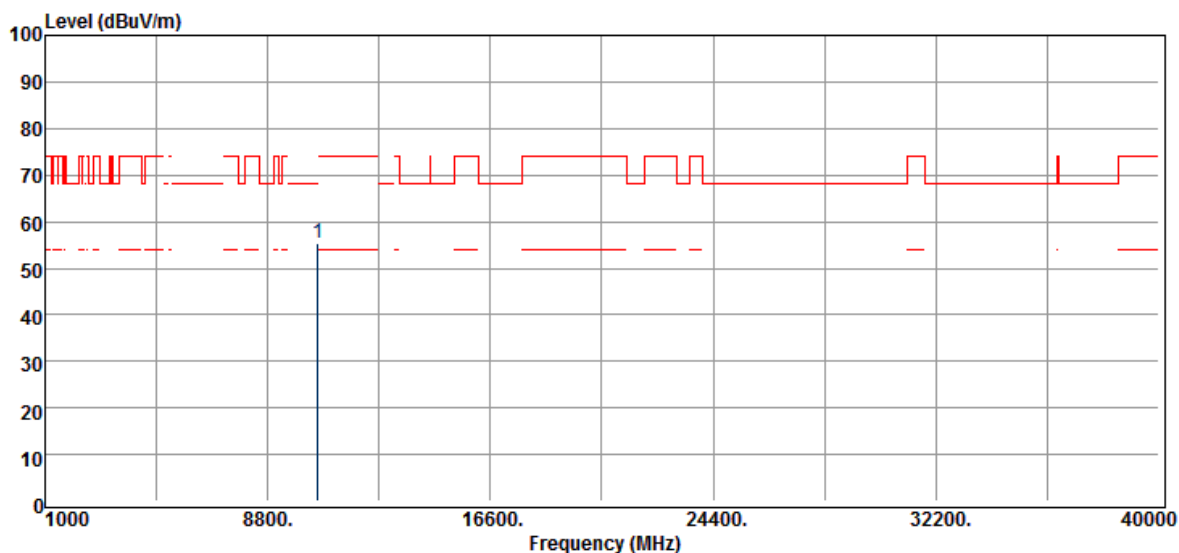
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Project Number : T190321W03
Operation Band : 802.11n40 B2a
Fundamental Frequency : 5270 MHz
Operation Mode : Tx CH LOW
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10540.00	Peak	39.79	15.67	55.46	68.20	-12.74

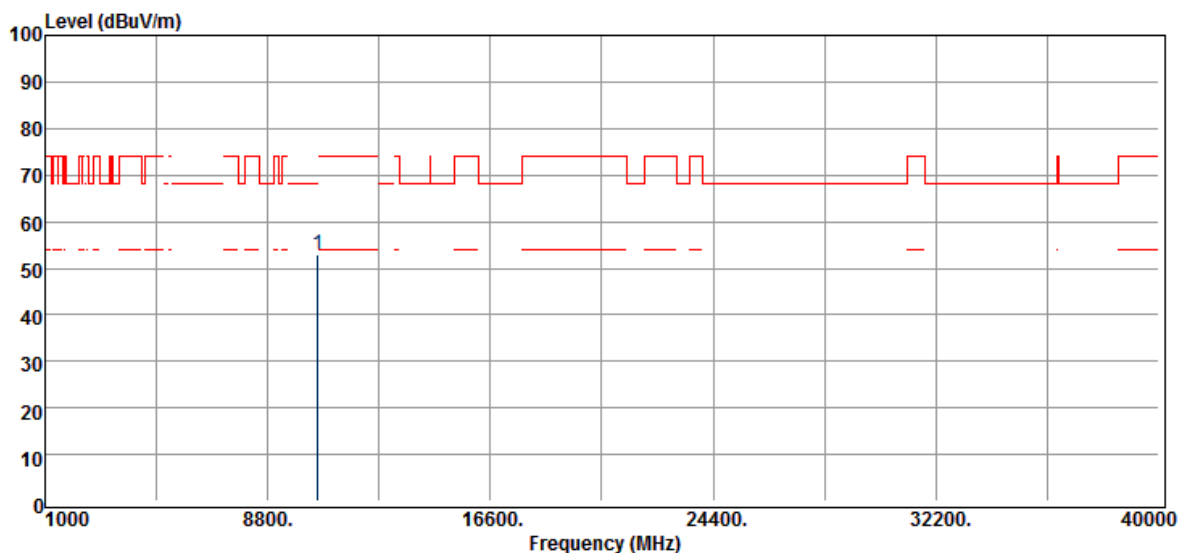
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Project Number : T190321W03
Operation Band : 802.11n40 B2a
Fundamental Frequency : 5270 MHz
Operation Mode : Tx CH LOW
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10540.00	Peak	37.20	15.67	52.87	68.20	-15.33

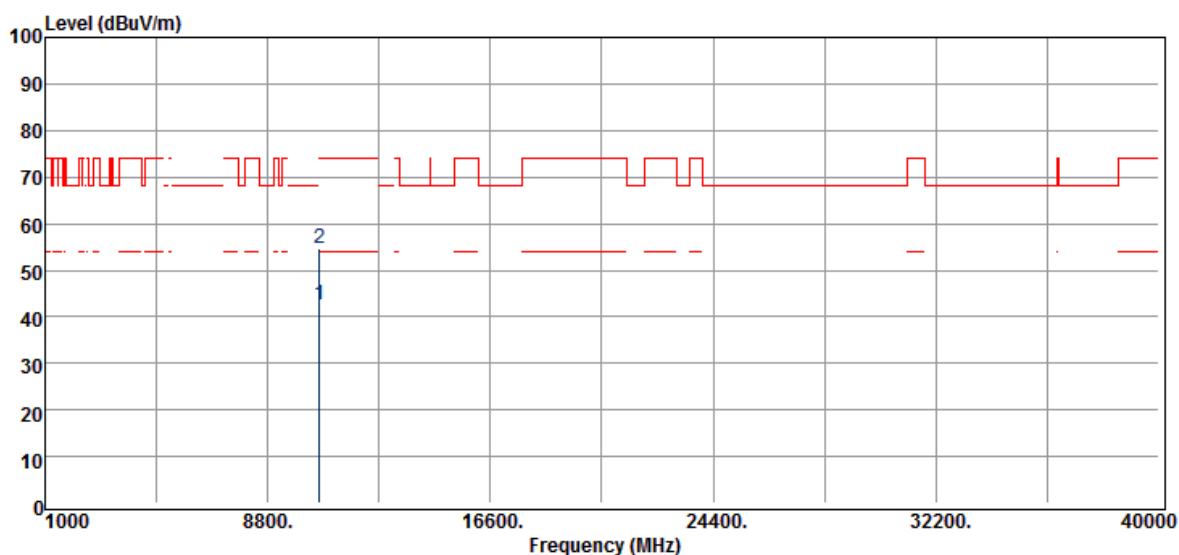
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Project Number : T190321W03
 Operation Band : 802.11n40 B2a
 Fundamental Frequency : 5310 MHz
 Operation Mode : Tx CH HIGH
 EUT Pol. : H Plan

Test Date : 2019-04-09
 Temp./Humi. : 23 deg_C / 62 RH
 Engineer : Jerry
 Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10620.00	Average	26.68	15.78	42.46	54.00	-11.54
10620.00	Peak	38.79	15.78	54.57	74.00	-19.43

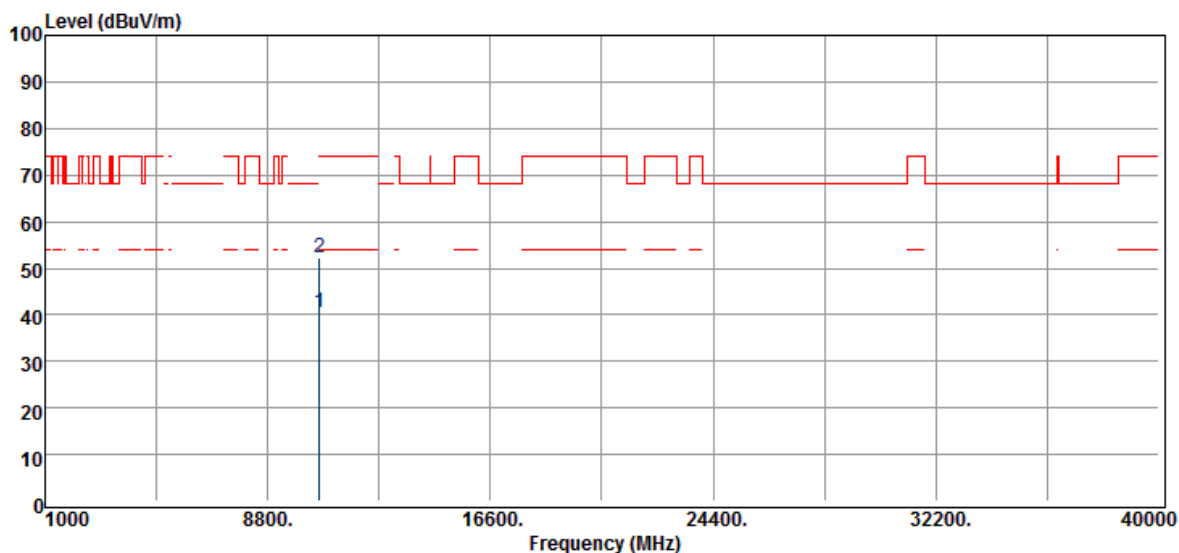
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Project Number : T190321W03
Operation Band : 802.11n40 B2a
Fundamental Frequency : 5310 MHz
Operation Mode : Tx CH HIGH
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10620.00	Average	24.77	15.78	40.55	54.00	-13.45
10620.00	Peak	36.52	15.78	52.30	74.00	-21.70

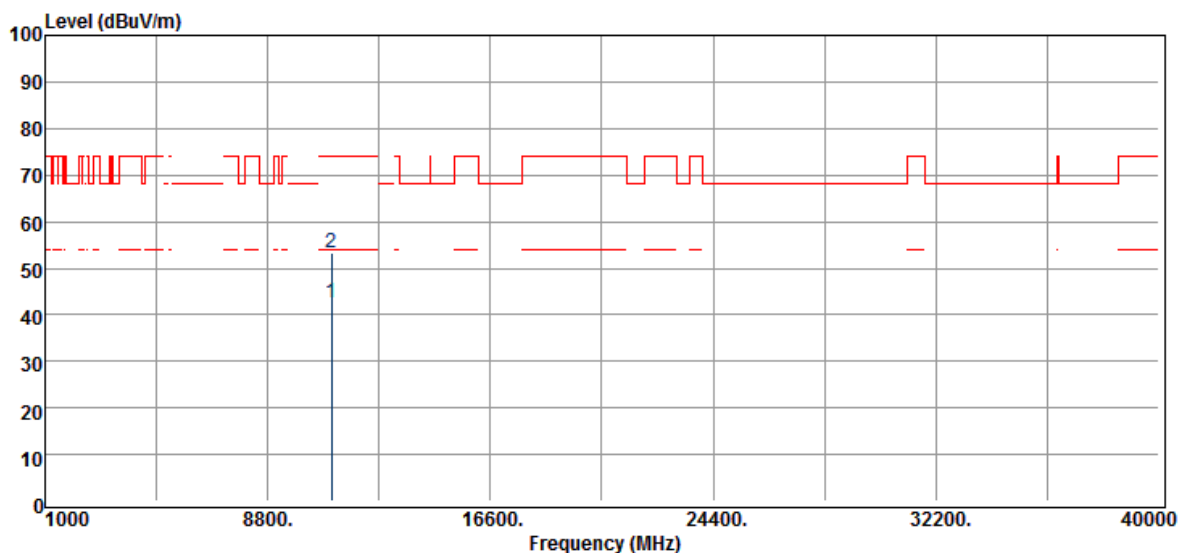
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Project Number : T190321W03
Operation Band : 802.11n40 B2c
Fundamental Frequency : 5510 MHz
Operation Mode : Tx CH LOW
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11020.00	Average	24.63	17.87	42.50	54.00	-11.50
11020.00	Peak	35.28	17.87	53.15	74.00	-20.85

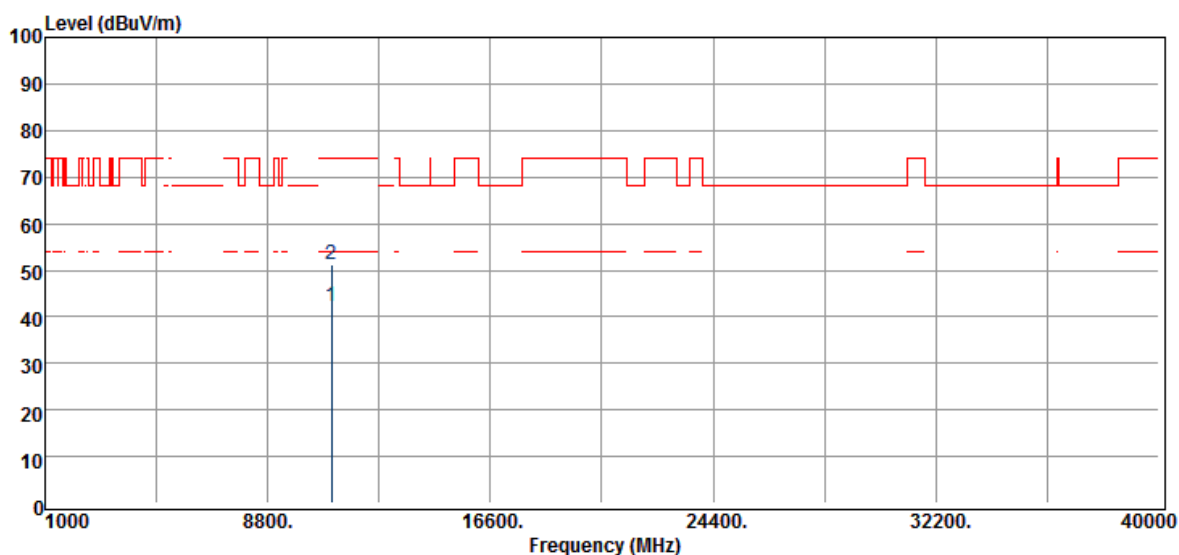
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Project Number : T190321W03
Operation Band : 802.11n40 B2c
Fundamental Frequency : 5510 MHz
Operation Mode : Tx CH LOW
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11020.00	Average	24.38	17.87	42.25	54.00	-11.75
11020.00	Peak	33.31	17.87	51.18	74.00	-22.82

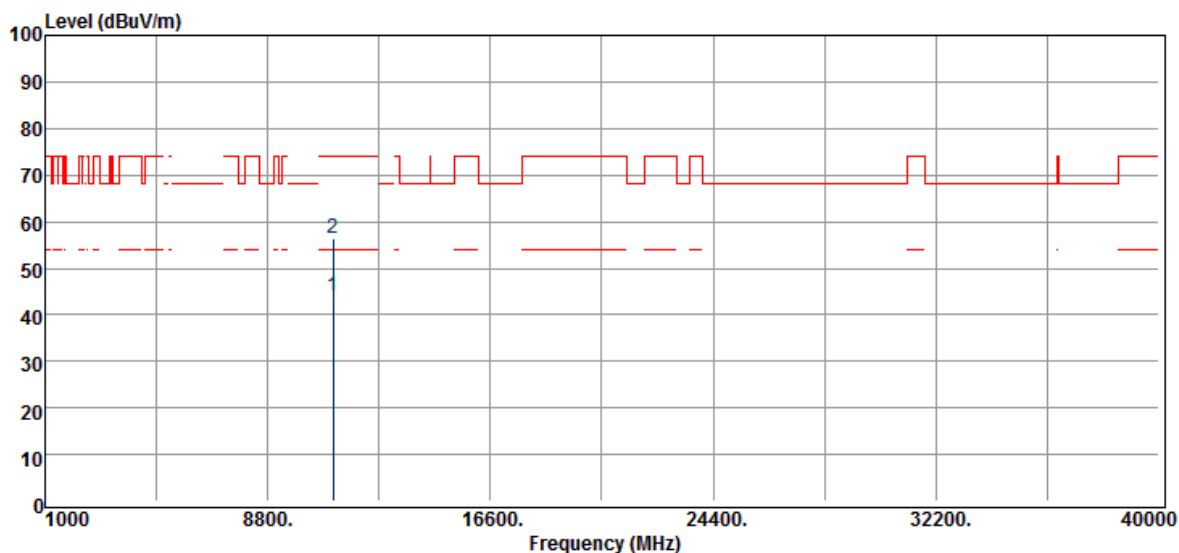
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Project Number : T190321W03
Operation Band : 802.11n40 B2c
Fundamental Frequency : 5550 MHz
Operation Mode : Tx CH MID
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11100.00	Average	26.60	17.25	43.85	54.00	-10.15
11100.00	Peak	39.29	17.25	56.54	74.00	-17.46

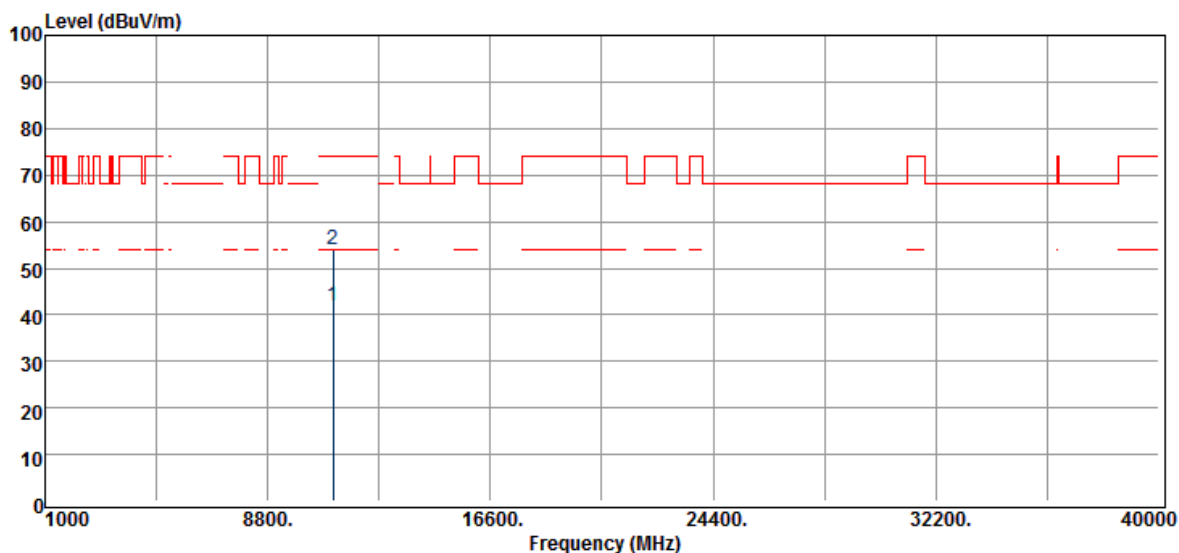
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Project Number : T190321W03
Operation Band : 802.11n40 B2c
Fundamental Frequency : 5550 MHz
Operation Mode : Tx CH MID
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11100.00	Average	24.74	17.25	41.99	54.00	-12.01
11100.00	Peak	36.86	17.25	54.11	74.00	-19.89

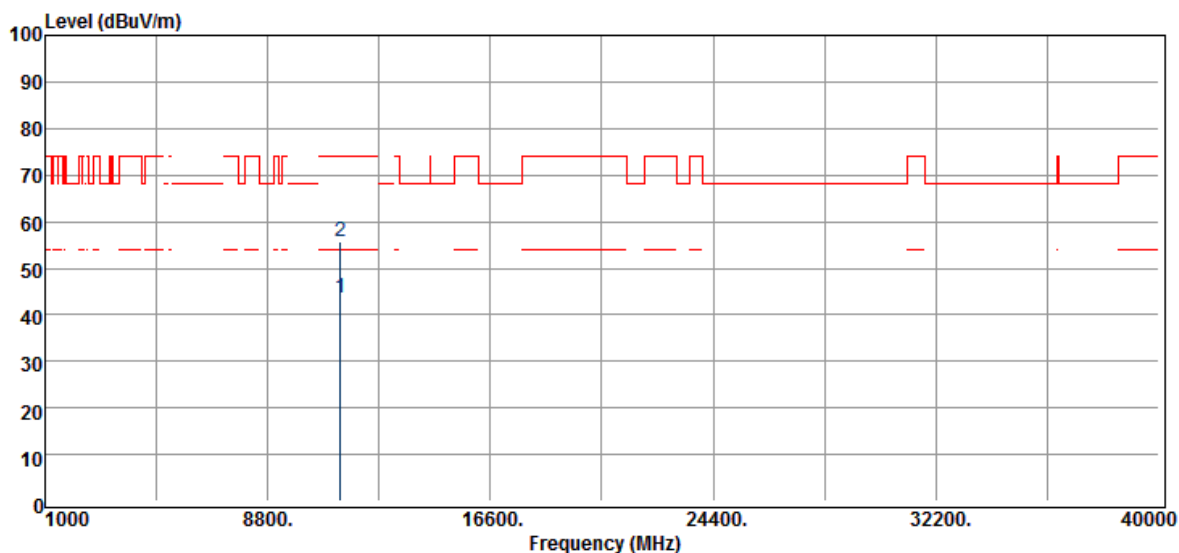
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Project Number : T190321W03
Operation Band : 802.11n40 B2c
Fundamental Frequency : 5670 MHz
Operation Mode : Tx CH HIGH
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11340.00	Average	27.25	16.36	43.61	54.00	-10.39
11340.00	Peak	39.46	16.36	55.82	74.00	-18.18

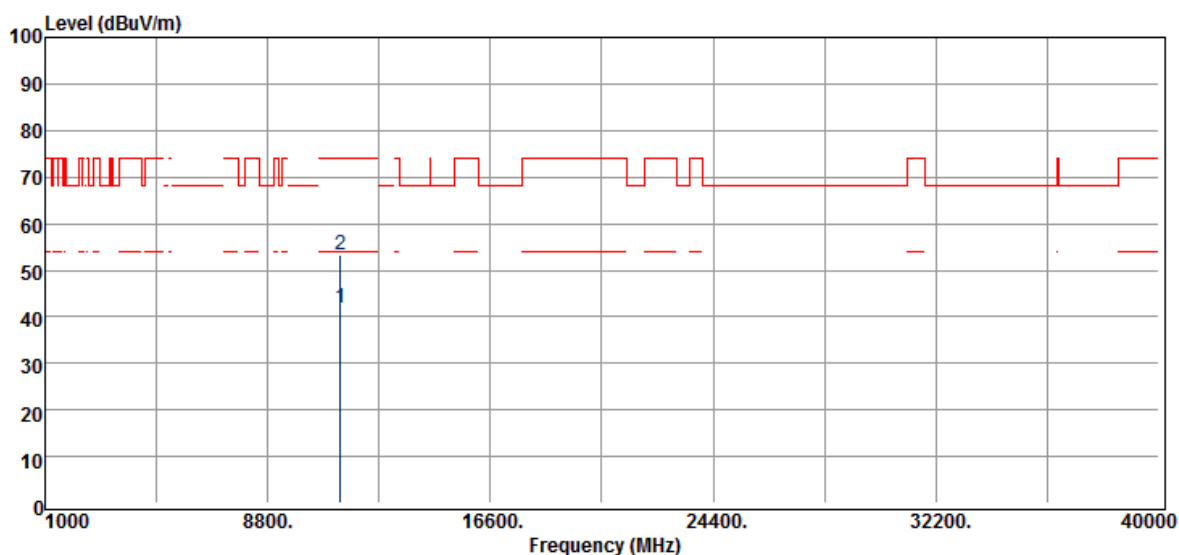
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Project Number : T190321W03
Operation Band : 802.11n40 B2c
Fundamental Frequency : 5670 MHz
Operation Mode : Tx CH HIGH
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11340.00	Average	25.34	16.36	41.70	54.00	-12.30
11340.00	Peak	36.98	16.36	53.34	74.00	-20.66

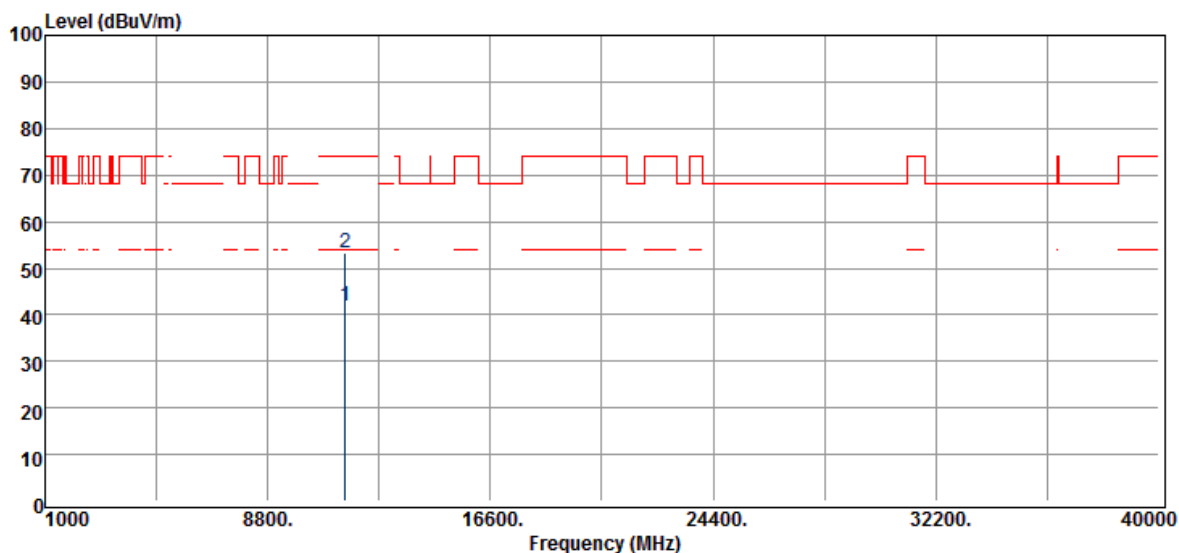
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Project Number : T190321W03
Operation Band : 802.11n40 B3
Fundamental Frequency : 5755 MHz
Operation Mode : Tx CH LOW
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



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	26.58	15.41	41.99	54.00	-12.01
11510.00	Peak	37.83	15.41	53.24	74.00	-20.76

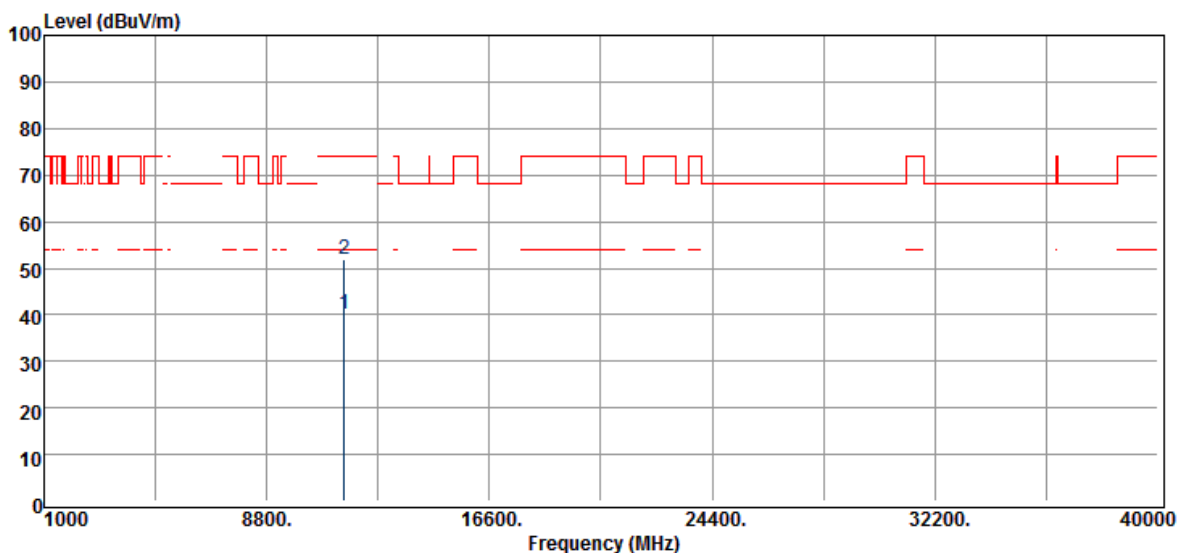
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Project Number : T190321W03
Operation Band : 802.11n40 B3
Fundamental Frequency : 5755 MHz
Operation Mode : Tx CH LOW
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : HORIZONTAL



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	24.75	15.41	40.16	54.00	-13.84
11510.00	Peak	36.43	15.41	51.84	74.00	-22.16

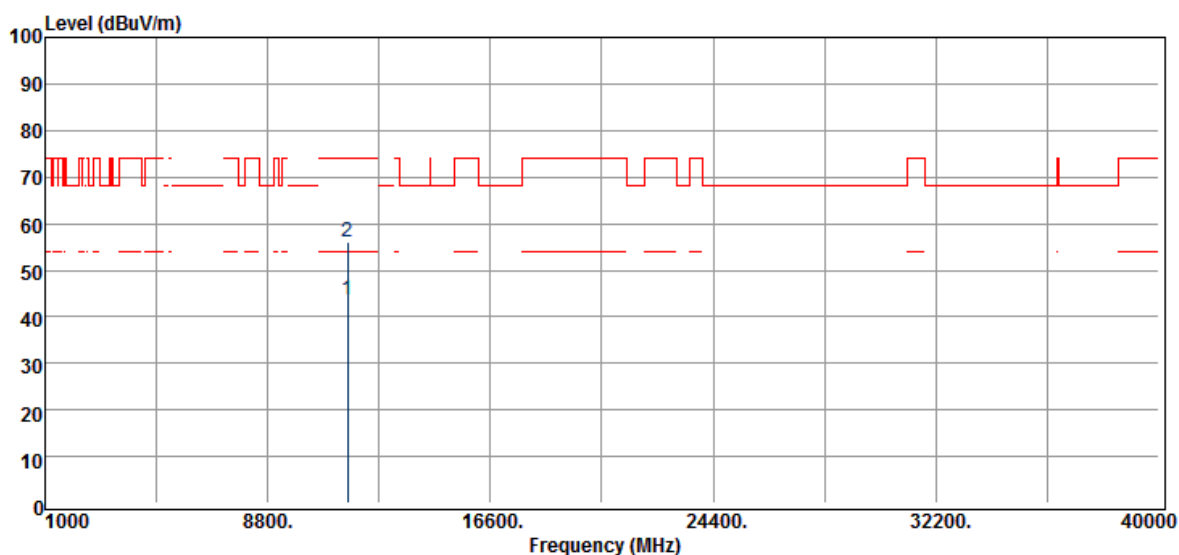
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Project Number : T190321W03
Operation Band : 802.11n40 B3
Fundamental Frequency : 5795 MHz
Operation Mode : Tx CH HIGH
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



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	26.81	16.81	43.62	54.00	-10.38
11590.00	Peak	39.26	16.81	56.07	74.00	-17.93

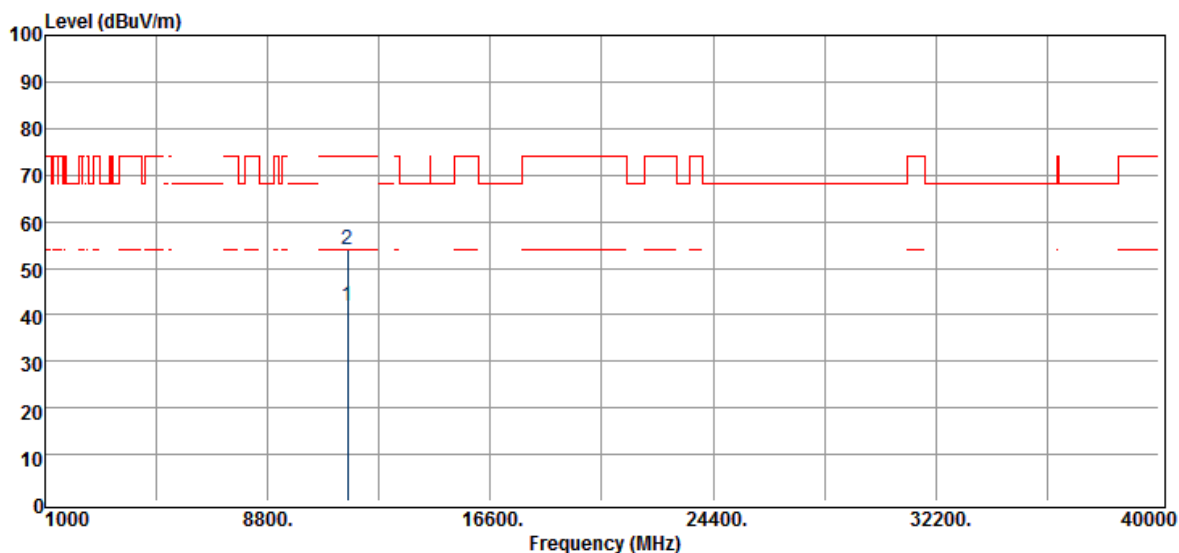
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Project Number : T190321W03
Operation Band : 802.11n40 B3
Fundamental Frequency : 5795 MHz
Operation Mode : Tx CH HIGH
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : HORIZONTAL



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	24.94	16.81	41.75	54.00	-12.25
11590.00	Peak	37.07	16.81	53.88	74.00	-20.12

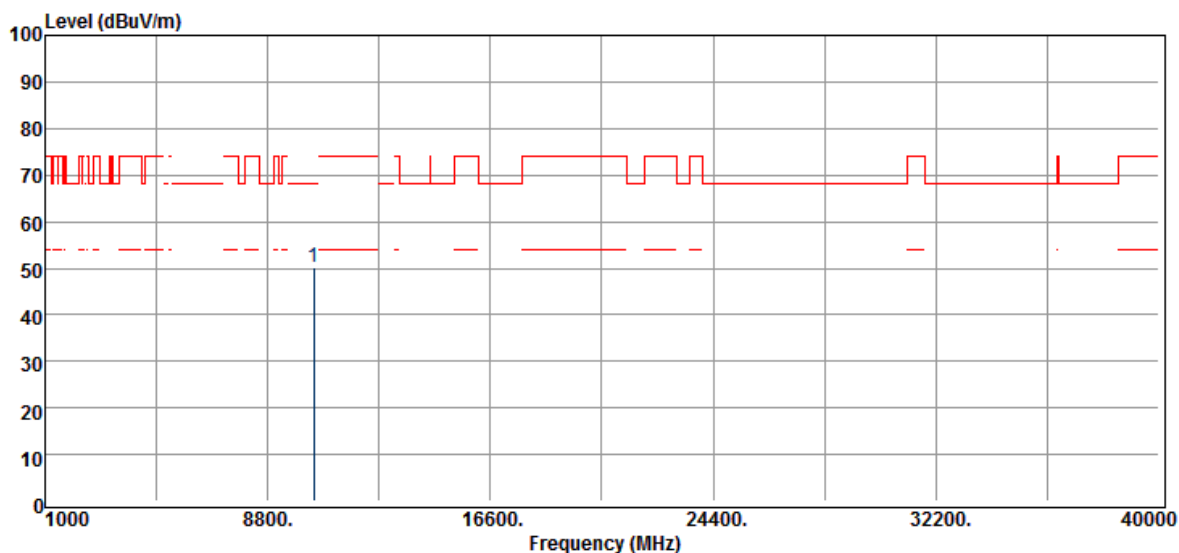
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Project Number : T190321W03
Operation Band : 802.11ac80 B1
Fundamental Frequency : 5210 MHz
Operation Mode : Tx CH LOW
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



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	34.98	15.12	50.10	68.20	-18.10

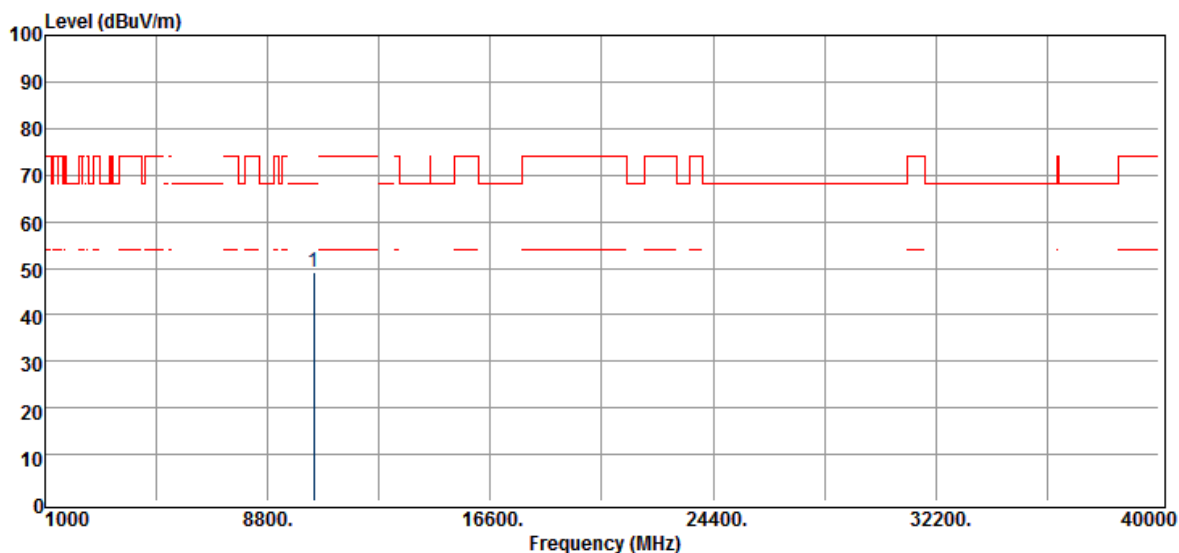
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Project Number : T190321W03
Operation Band : 802.11ac80 B1
Fundamental Frequency : 5210 MHz
Operation Mode : Tx CH LOW
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : HORIZONTAL



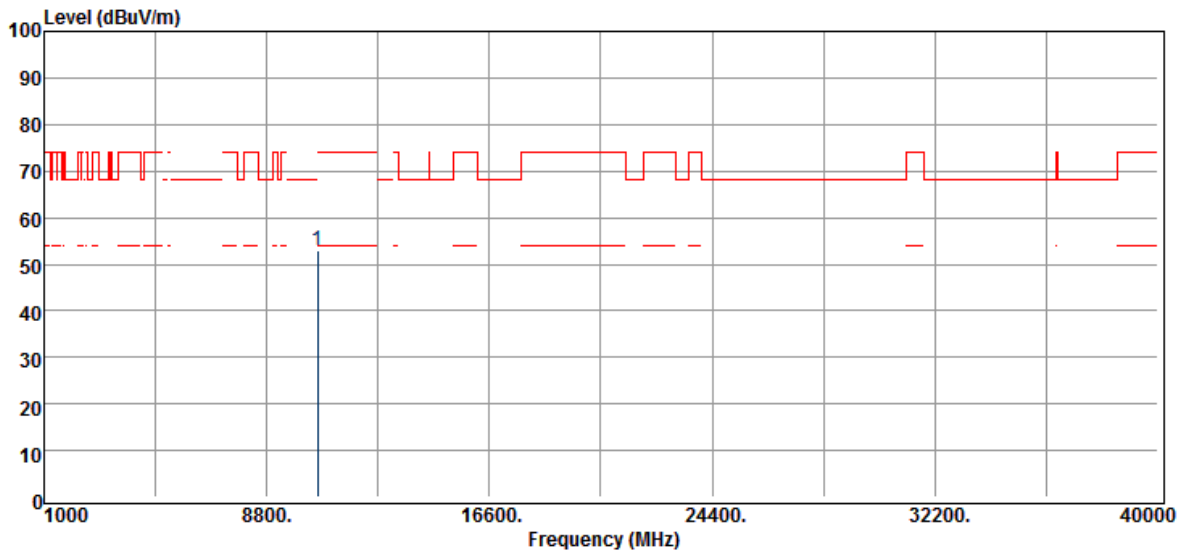
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10420.00	Peak	34.16	15.12	49.28	68.20	-18.92

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Project Number	: T190321W03	Test Date	:2019-04-09
Operation Band	:802.11ac80 B2a	Temp./Humi.	:23 deg_C / 62 RH
Fundamental Frequency	:5290 MHz	Engineer	:Jerry
Operation Mode	:Tx CH HIGH	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:H Plan		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10580.00	Peak	37.63	15.43	53.06	68.20	-15.14

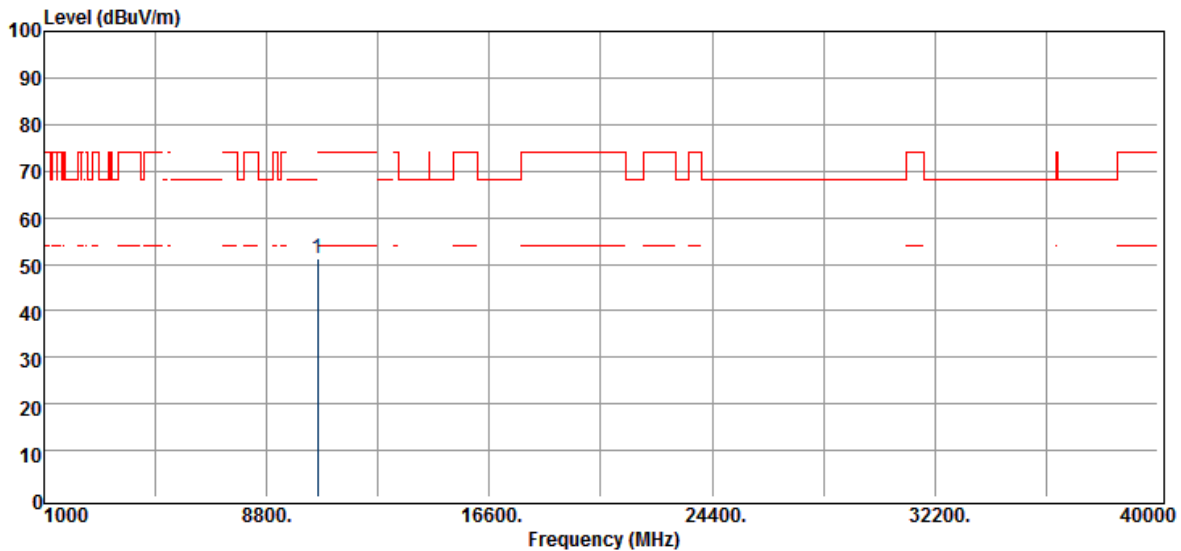
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Project Number : T190321W03
 Operation Band : 802.11ac80 B2a
 Fundamental Frequency : 5290 MHz
 Operation Mode : Tx CH HIGH
 EUT Pol. : H Plan

Test Date : 2019-04-09
 Temp./Humi. : 23 deg_C / 62 RH
 Engineer : Jerry
 Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10580.00	Peak	35.65	15.43	51.08	68.20	-17.12

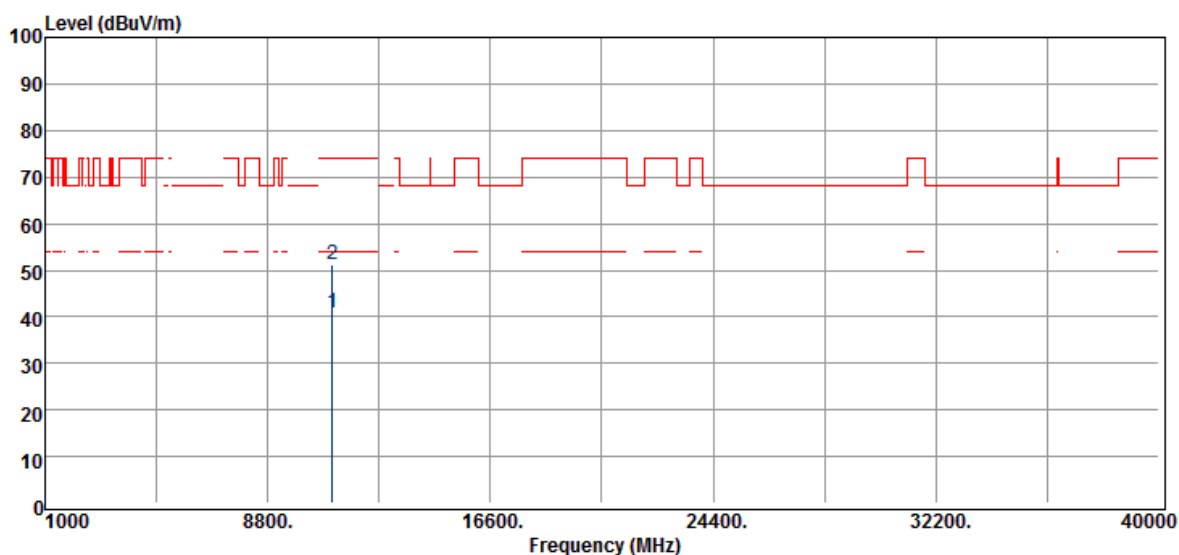
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Project Number : T190321W03
Operation Band : 802.11ac80 B2c
Fundamental Frequency : 5530 MHz
Operation Mode : Tx CH LOW
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11060.00	Average	23.45	17.50	40.95	54.00	-13.05
11060.00	Peak	33.68	17.50	51.18	74.00	-22.82

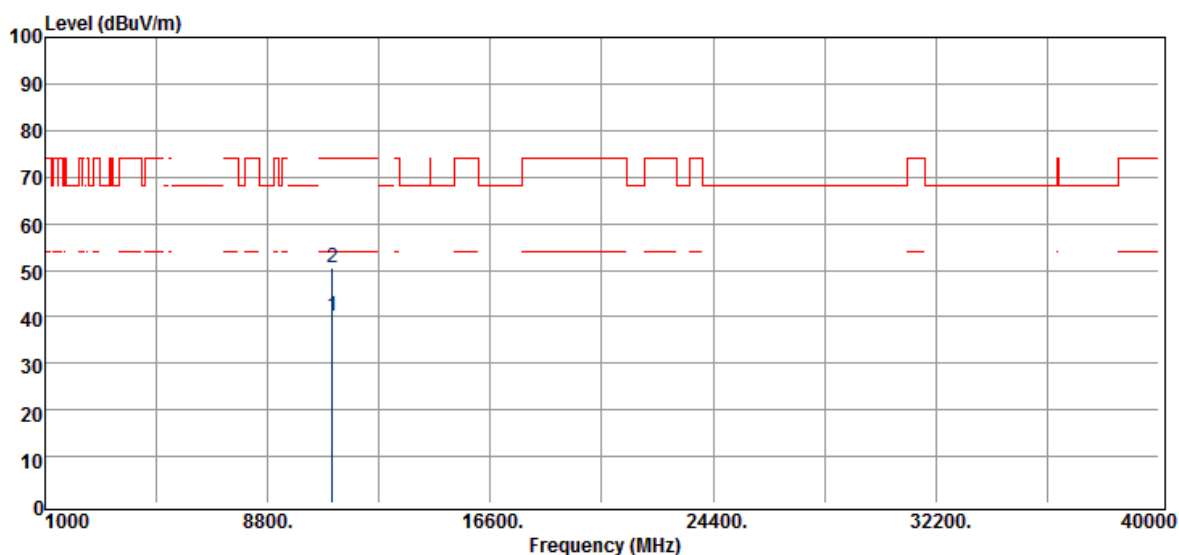
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Project Number : T190321W03
Operation Band : 802.11ac80 B2c
Fundamental Frequency : 5530 MHz
Operation Mode : Tx CH LOW
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11060.00	Average	22.63	17.50	40.13	54.00	-13.87
11060.00	Peak	32.88	17.50	50.38	74.00	-23.62

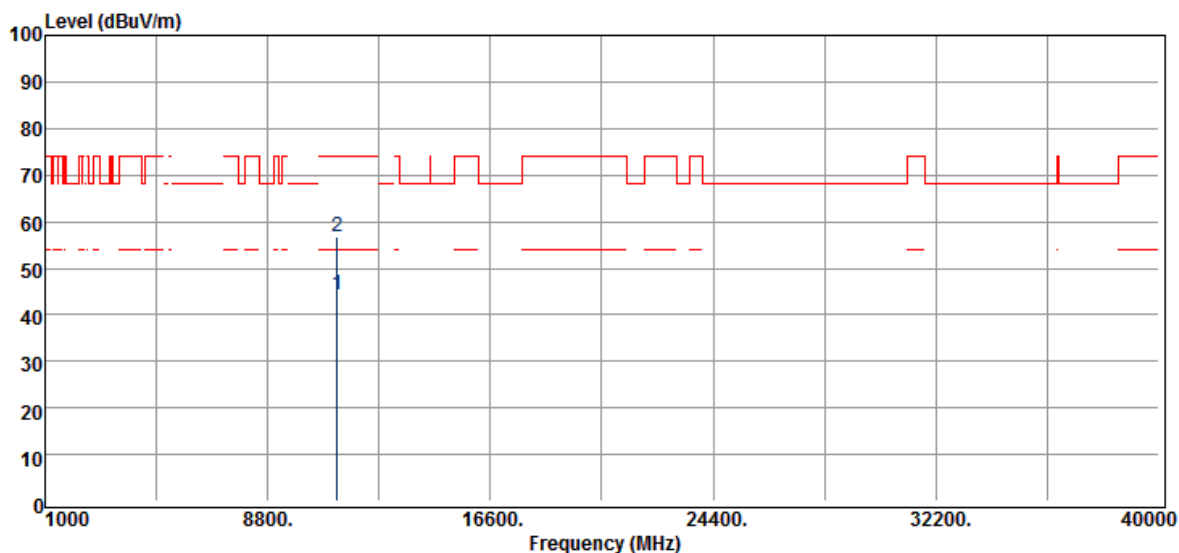
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Project Number : T190321W03
Operation Band : 802.11ac80 B2c
Fundamental Frequency : 5610 MHz
Operation Mode : Tx CH MID
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11220.00	Average	27.64	16.53	44.17	54.00	-9.83
11220.00	Peak	40.05	16.53	56.58	74.00	-17.42

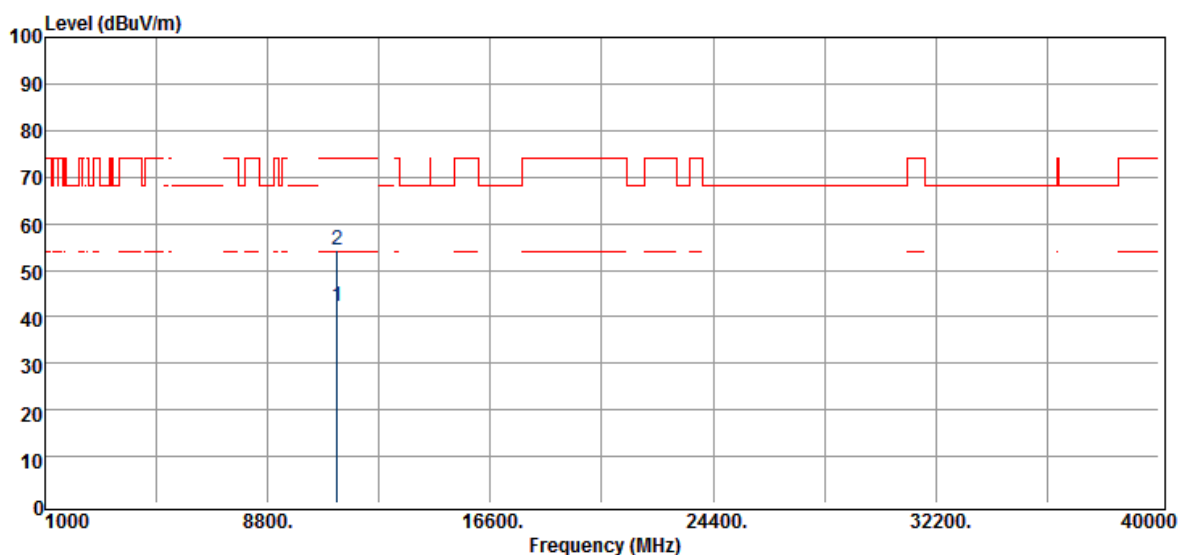
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Project Number : T190321W03
Operation Band : 802.11ac80 B2c
Fundamental Frequency : 5610 MHz
Operation Mode : Tx CH MID
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11220.00	Average	25.59	16.53	42.12	54.00	-11.88
11220.00	Peak	37.68	16.53	54.21	74.00	-19.79

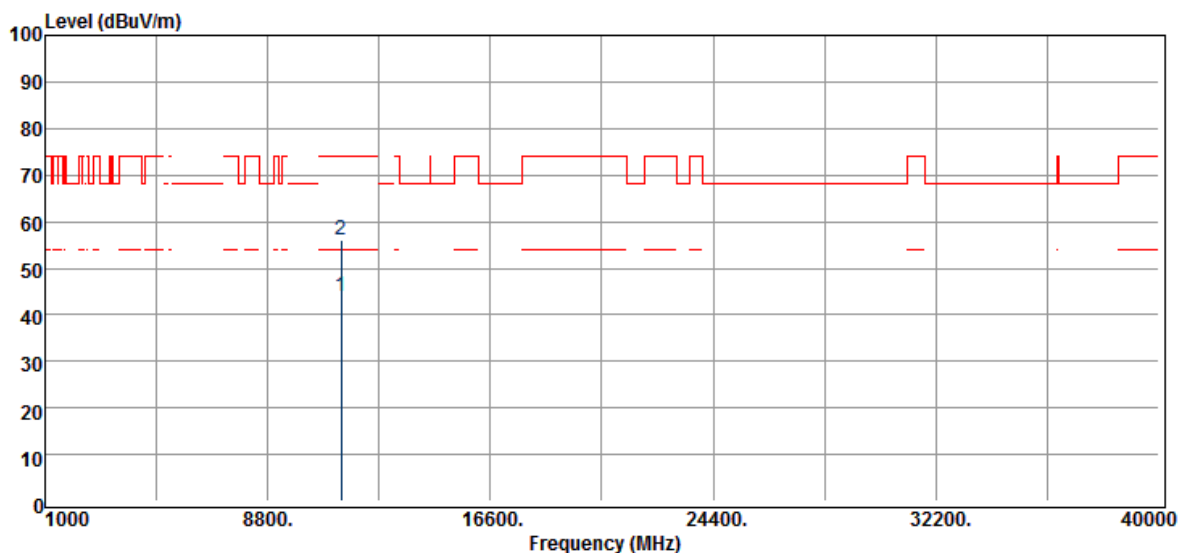
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Project Number : T190321W03
Operation Band : 802.11ac80 B2c
Fundamental Frequency : 5690 MHz
Operation Mode : Tx CH HIGH
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11380.00	Average	27.36	16.48	43.84	54.00	-10.16
11380.00	Peak	39.72	16.48	56.20	74.00	-17.80

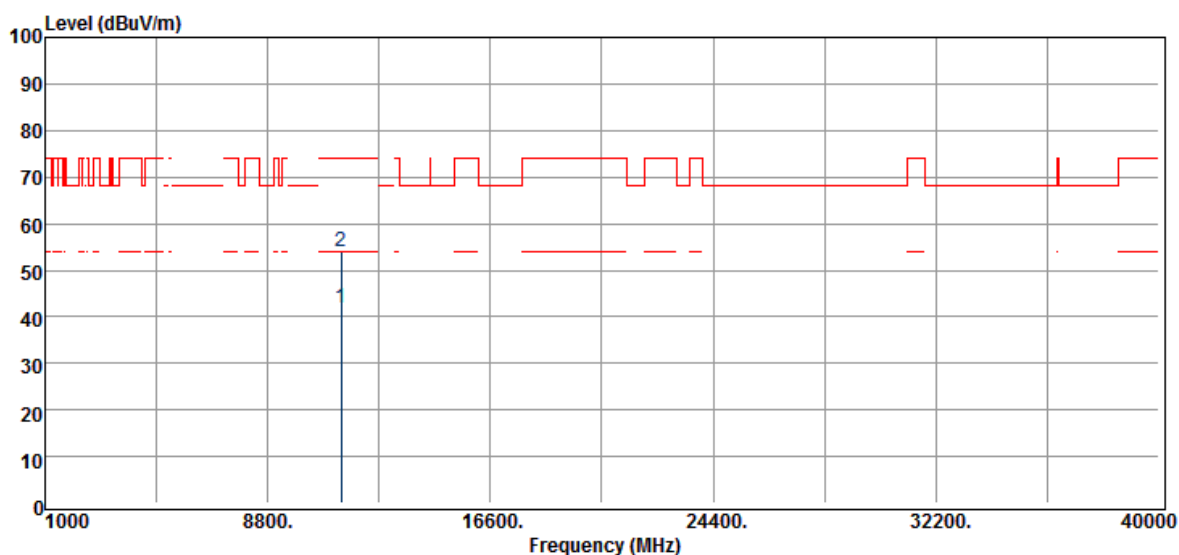
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Project Number : T190321W03
Operation Band : 802.11ac80 B2c
Fundamental Frequency : 5690 MHz
Operation Mode : Tx CH HIGH
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11380.00	Average	25.28	16.48	41.76	54.00	-12.24
11380.00	Peak	37.34	16.48	53.82	74.00	-20.18

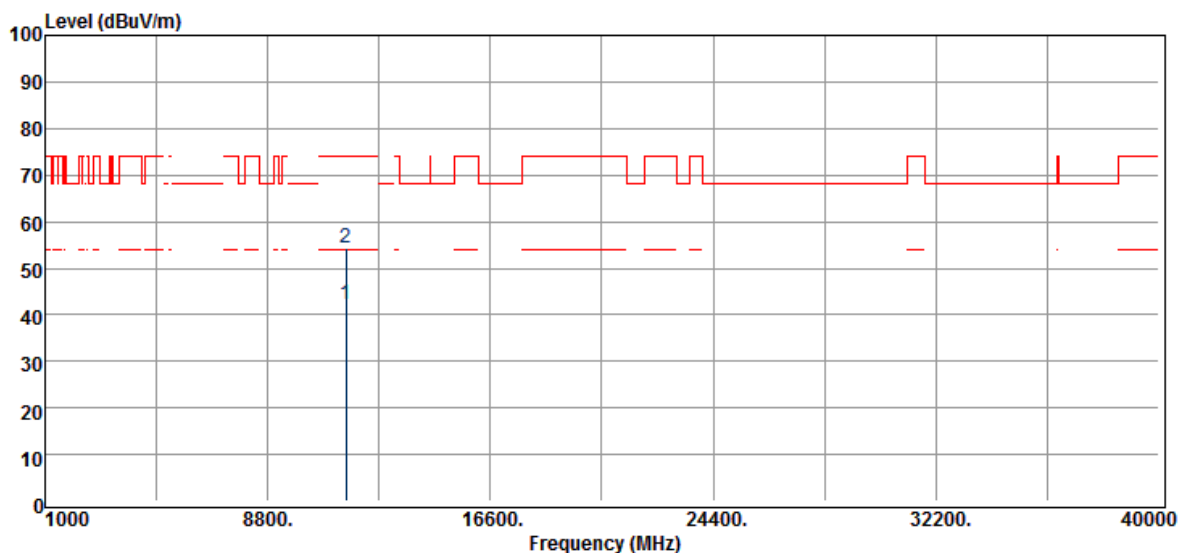
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Project Number : T190321W03
Operation Band : 802.11ac80 B3
Fundamental Frequency : 5775 MHz
Operation Mode : Tx CH LOW
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



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	26.43	15.82	42.25	54.00	-11.75
11550.00	Peak	38.68	15.82	54.50	74.00	-19.50

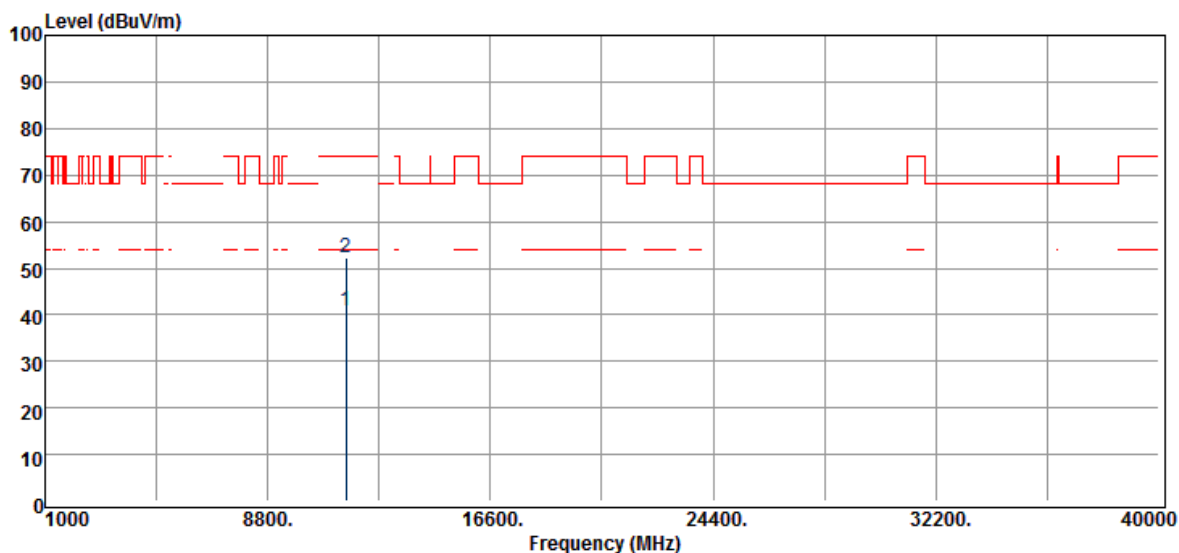
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Project Number : T190321W03
Operation Band : 802.11ac80 B3
Fundamental Frequency : 5775 MHz
Operation Mode : Tx CH LOW
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : HORIZONTAL



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	24.85	15.82	40.67	54.00	-13.33
11550.00	Peak	36.51	15.82	52.33	74.00	-21.67

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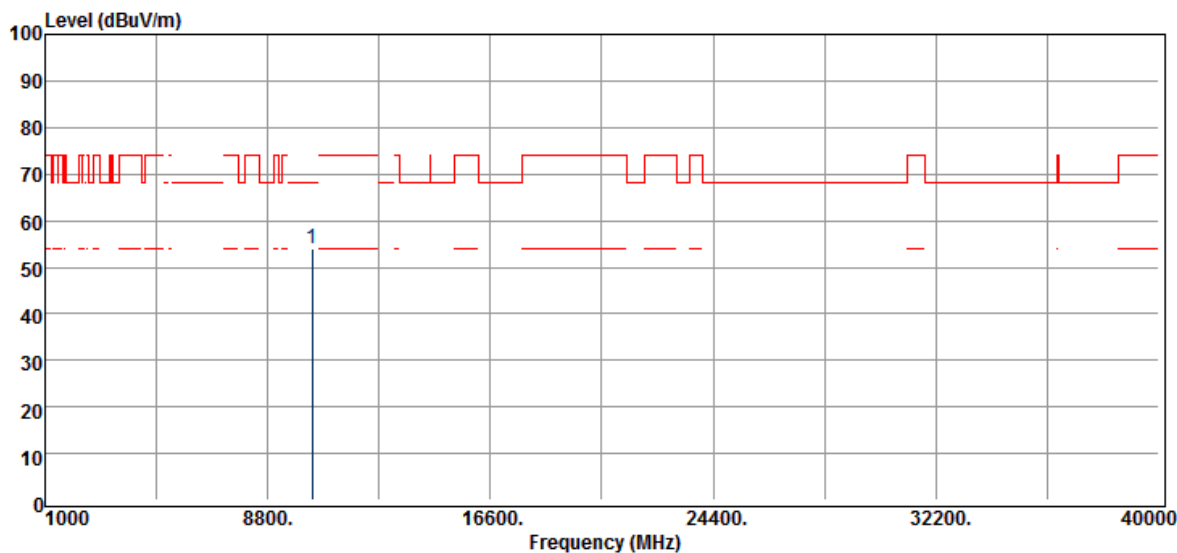
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Dipole Antenna

Project Number : T190321W03
Operation Band : 802.11a B1
Fundamental Frequency : 5180 MHz
Operation Mode : Tx CH LOW
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10360.00	Peak	39.70	14.41	54.11	68.20	-14.09

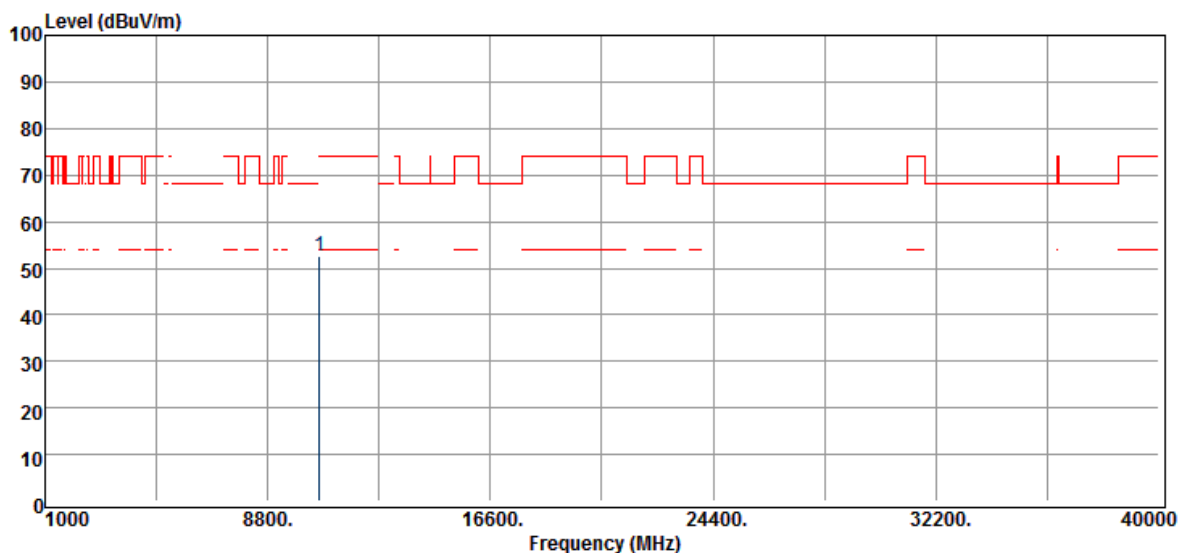
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Project Number : T190321W03
Operation Band : 802.11a B1
Fundamental Frequency : 5180 MHz
Operation Mode : Tx CH LOW
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10600.00	Peak	37.20	15.47	52.67	74.00	-21.33

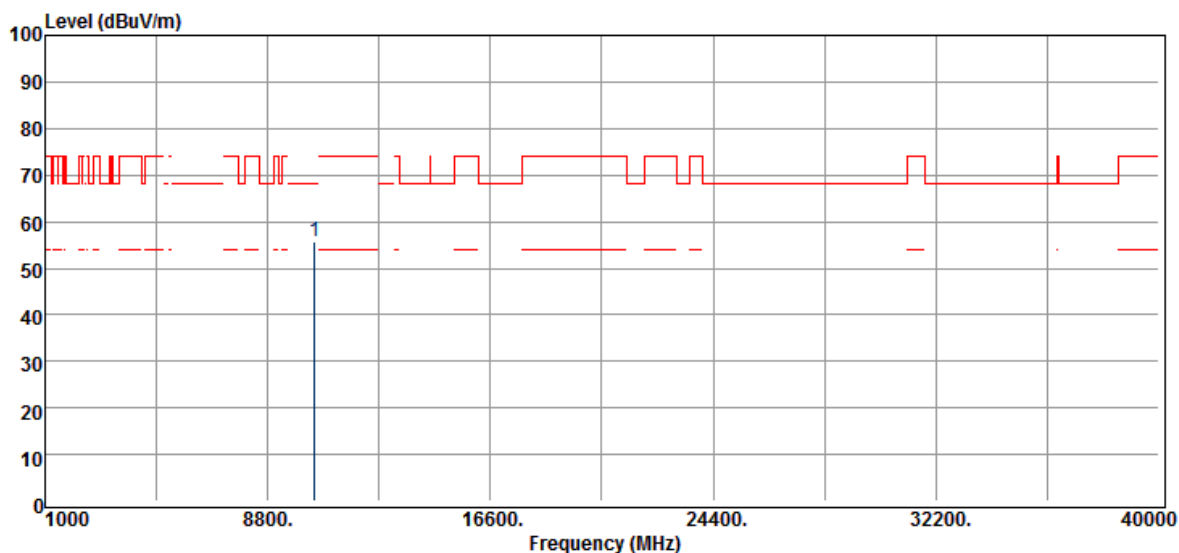
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Project Number : T190321W03
Operation Band : 802.11a B1
Fundamental Frequency : 5220 MHz
Operation Mode : Tx CH MID
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



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	40.22	15.58	55.80	68.20	-12.40

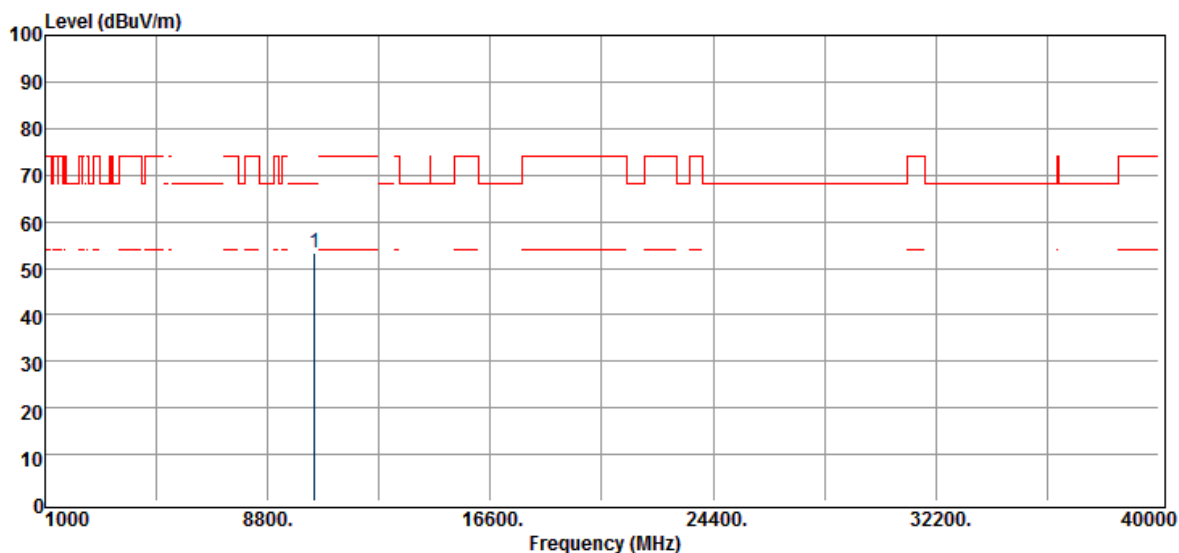
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Project Number : T190321W03
Operation Band : 802.11a B1
Fundamental Frequency : 5220 MHz
Operation Mode : Tx CH MID
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : HORIZONTAL



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	37.86	15.58	53.44	68.20	-14.76

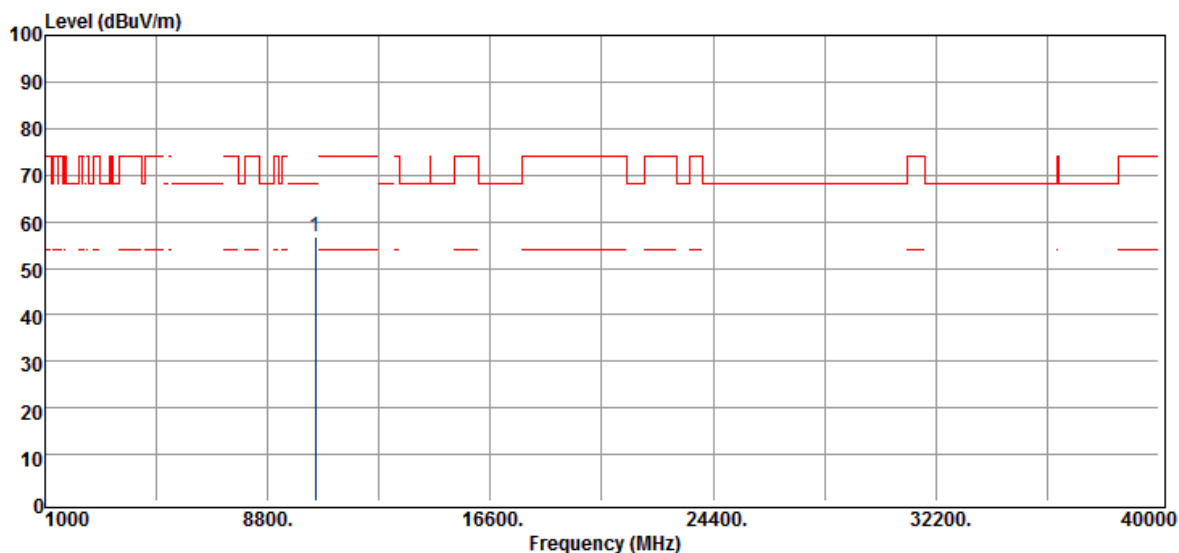
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Project Number : T190321W03
Operation Band : 802.11a B1
Fundamental Frequency : 5240 MHz
Operation Mode : Tx CH HIGH
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



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	40.19	16.48	56.67	68.20	-11.53

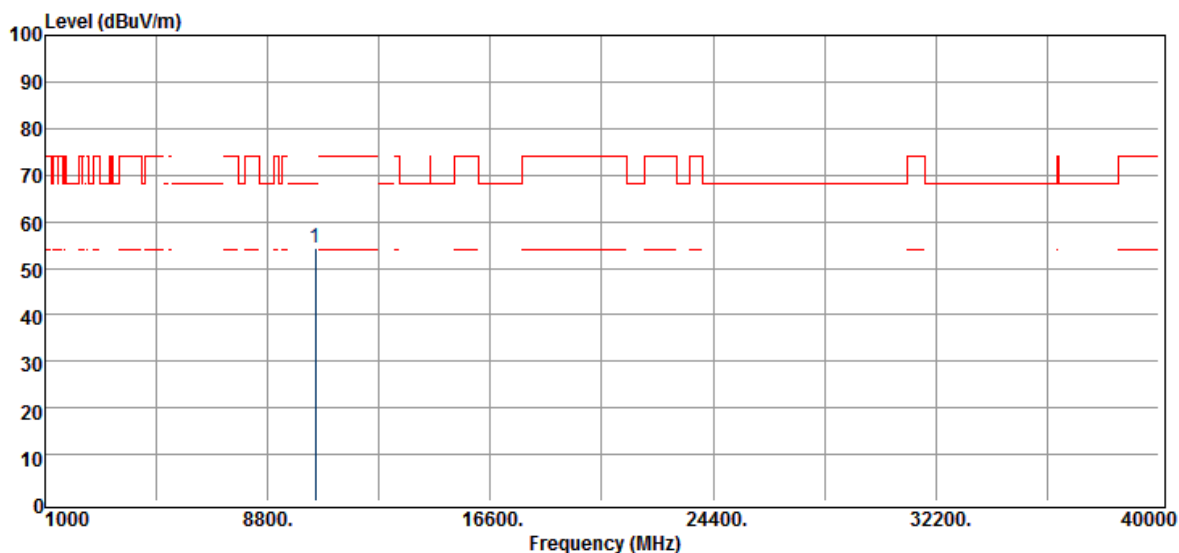
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Project Number : T190321W03
 Operation Band : 802.11a B1
 Fundamental Frequency : 5240 MHz
 Operation Mode : Tx CH HIGH
 EUT Pol. : H Plan

Test Date : 2019-04-09
 Temp./Humi. : 23 deg_C / 62 RH
 Engineer : Jerry
 Measurement Antenna Pol. : HORIZONTAL



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	37.72	16.48	54.20	68.20	-14.00

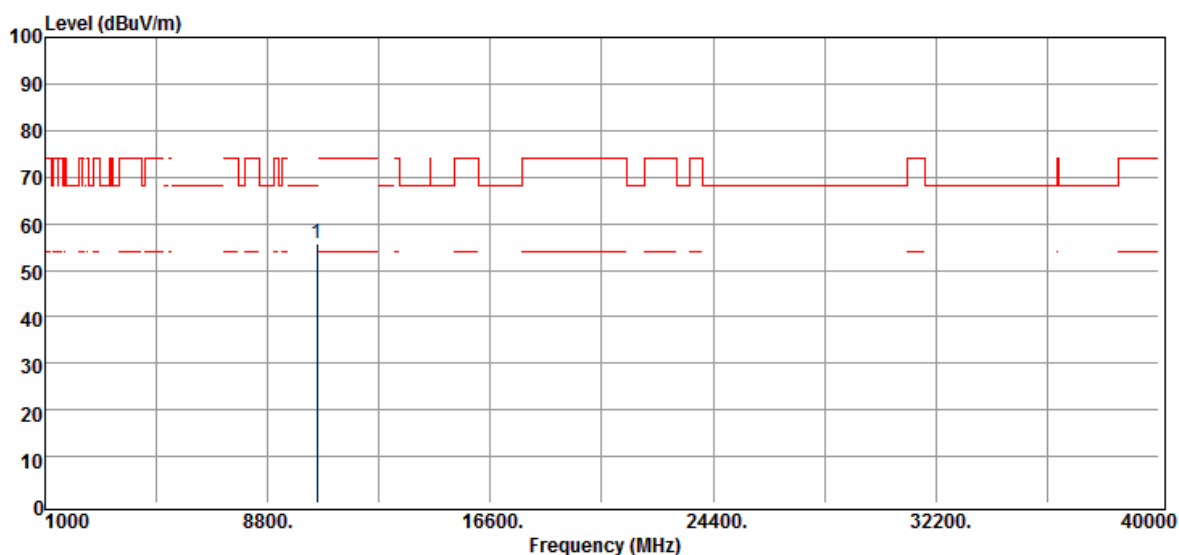
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Project Number : T190321W03
Operation Band : 802.11a B2a
Fundamental Frequency : 5260 MHz
Operation Mode : Tx CH LOW
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10520.00	Peak	40.25	15.57	55.82	68.20	-12.38

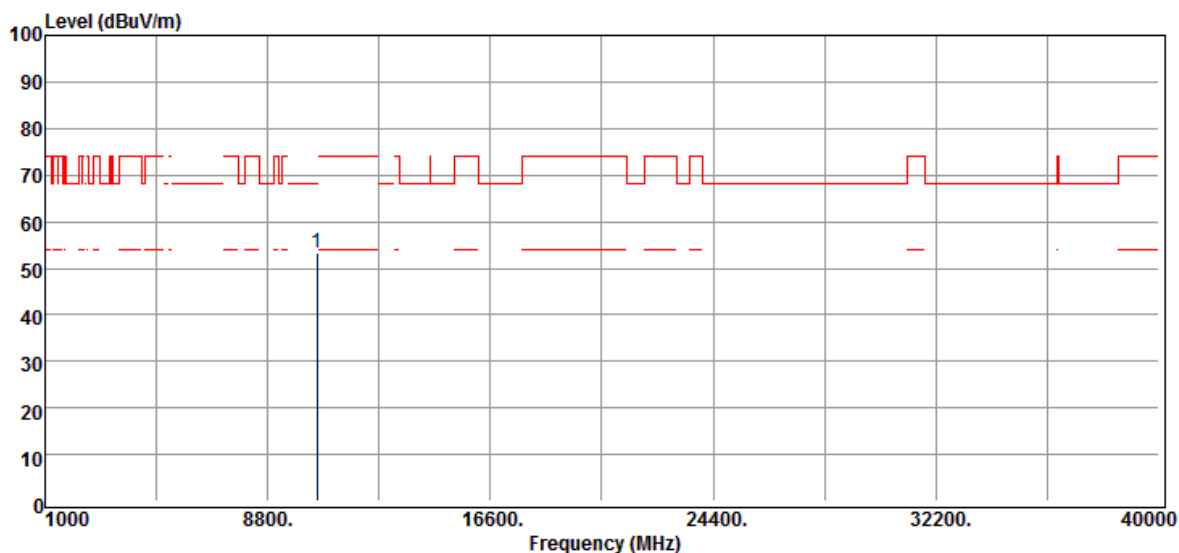
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Project Number : T190321W03
Operation Band : 802.11a B2a
Fundamental Frequency : 5260 MHz
Operation Mode : Tx CH LOW
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10520.00	Peak	37.71	15.57	53.28	68.20	-14.92

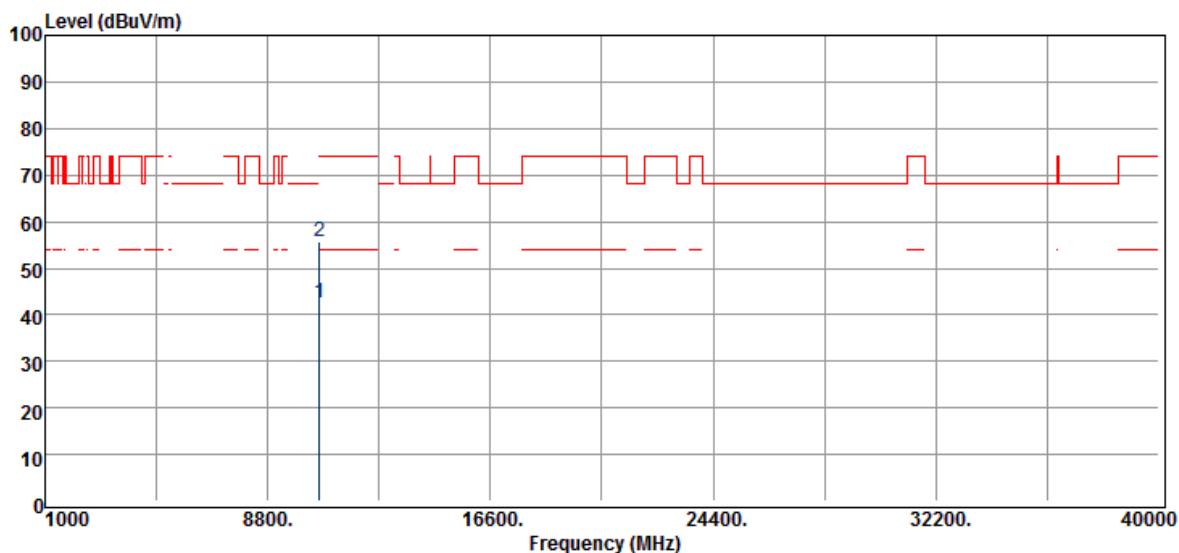
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Project Number : T190321W03
 Operation Band : 802.11a B2a
 Fundamental Frequency : 5300 MHz
 Operation Mode : Tx CH MID
 EUT Pol. : H Plan

Test Date : 2019-04-09
 Temp./Humi. : 23 deg_C / 62 RH
 Engineer : Jerry
 Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10600.00	Average	27.12	15.47	42.59	54.00	-11.41
10600.00	Peak	40.11	15.47	55.58	74.00	-18.42

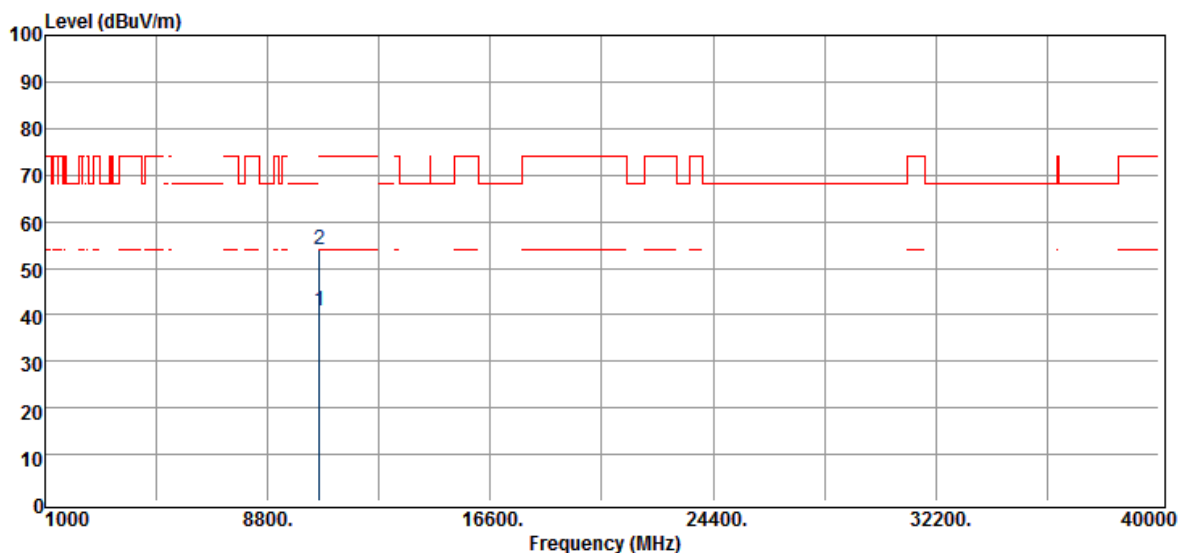
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Project Number : T190321W03
Operation Band : 802.11a B2a
Fundamental Frequency : 5300 MHz
Operation Mode : Tx CH MID
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10600.00	Average	25.50	15.47	40.97	54.00	-13.03
10600.00	Peak	38.35	15.47	53.82	74.00	-20.18

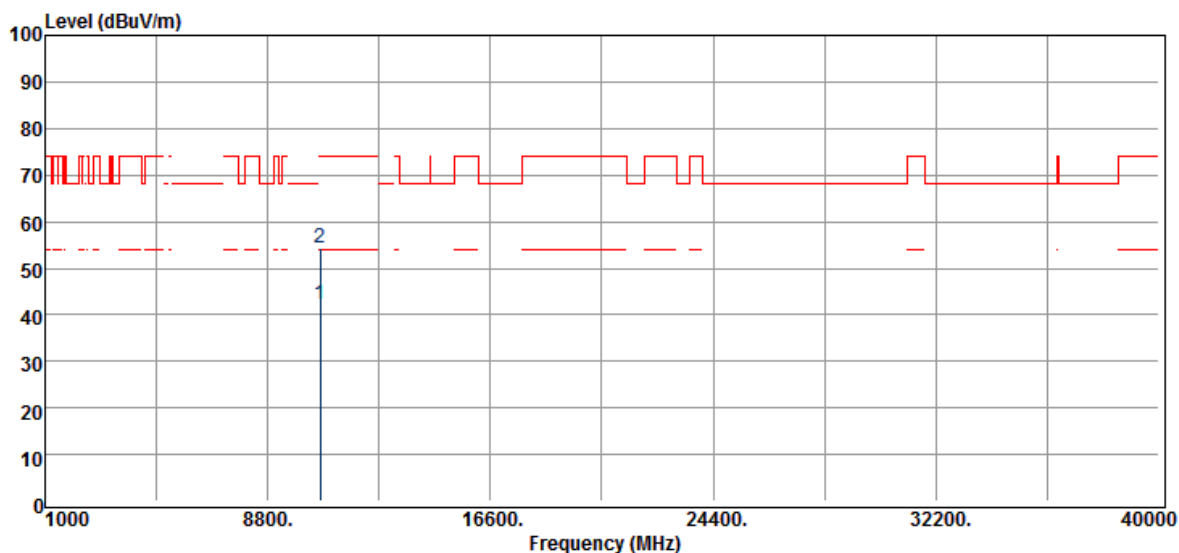
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Project Number : T190321W03
Operation Band : 802.11a B2a
Fundamental Frequency : 5320 MHz
Operation Mode : Tx CH HIGH
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10640.00	Average	26.18	16.12	42.30	54.00	-11.70
10640.00	Peak	38.22	16.12	54.34	74.00	-19.66

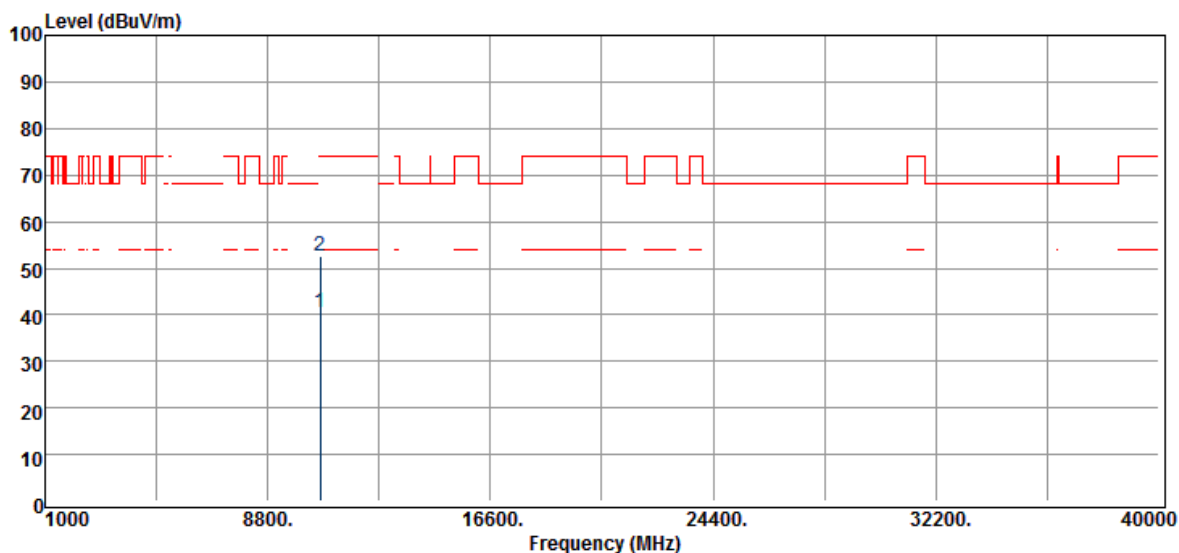
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Project Number : T190321W03
Operation Band : 802.11a B2a
Fundamental Frequency : 5320 MHz
Operation Mode : Tx CH HIGH
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10640.00	Average	24.40	16.12	40.52	54.00	-13.48
10640.00	Peak	36.58	16.12	52.70	74.00	-21.30

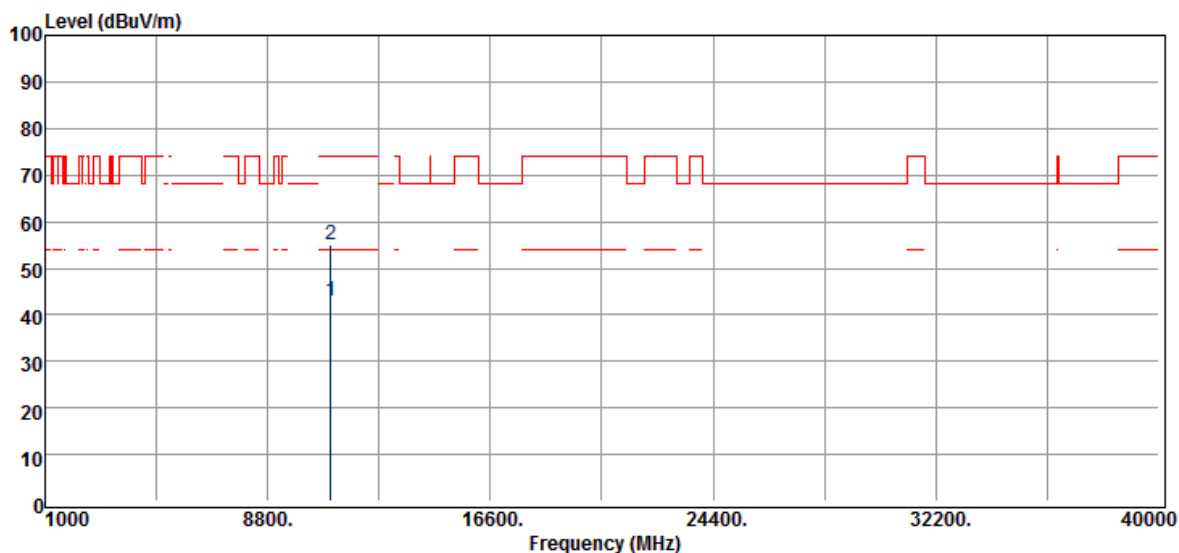
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Project Number : T190321W03
Operation Band : 802.11a B2c
Fundamental Frequency : 5500 MHz
Operation Mode : Tx CH LOW
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11000.00	Average	25.22	17.75	42.97	54.00	-11.03
11000.00	Peak	37.37	17.75	55.12	74.00	-18.88

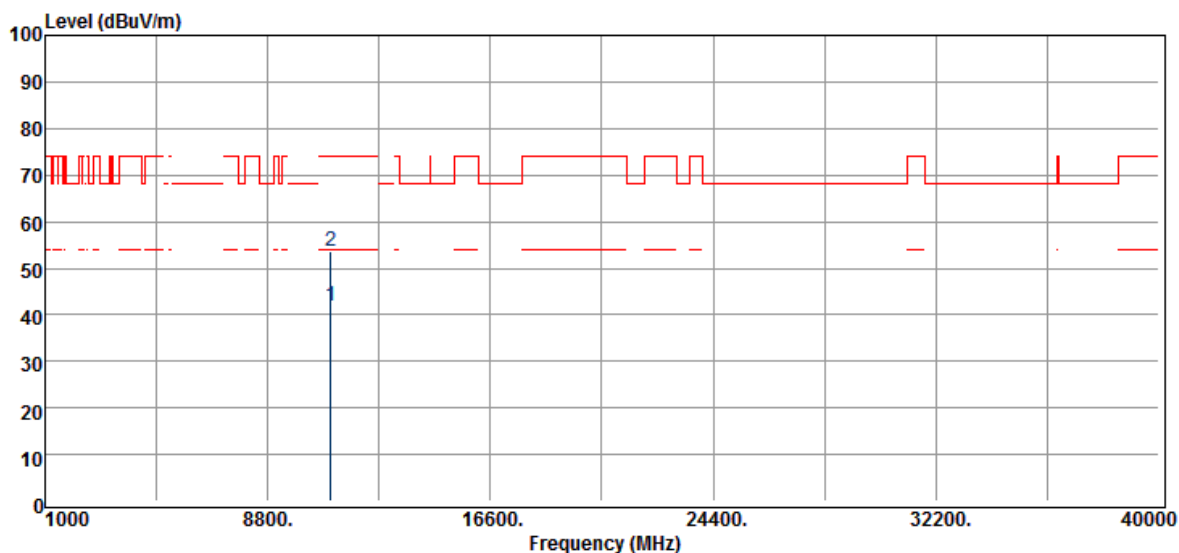
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Project Number : T190321W03
Operation Band : 802.11a B2c
Fundamental Frequency : 5500 MHz
Operation Mode : Tx CH LOW
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11000.00	Average	24.03	17.75	41.78	54.00	-12.22
11000.00	Peak	35.78	17.75	53.53	74.00	-20.47

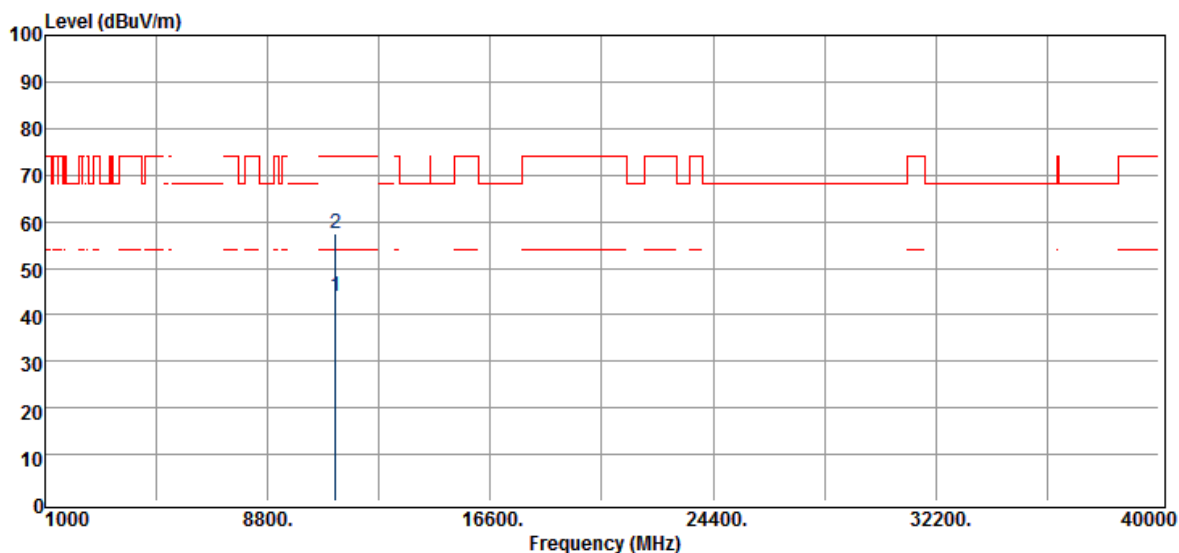
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Project Number : T190321W03
Operation Band : 802.11a B2c
Fundamental Frequency : 5580 MHz
Operation Mode : Tx CH MID
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11160.00	Average	27.30	16.53	43.83	54.00	-10.17
11160.00	Peak	40.74	16.53	57.27	74.00	-16.73

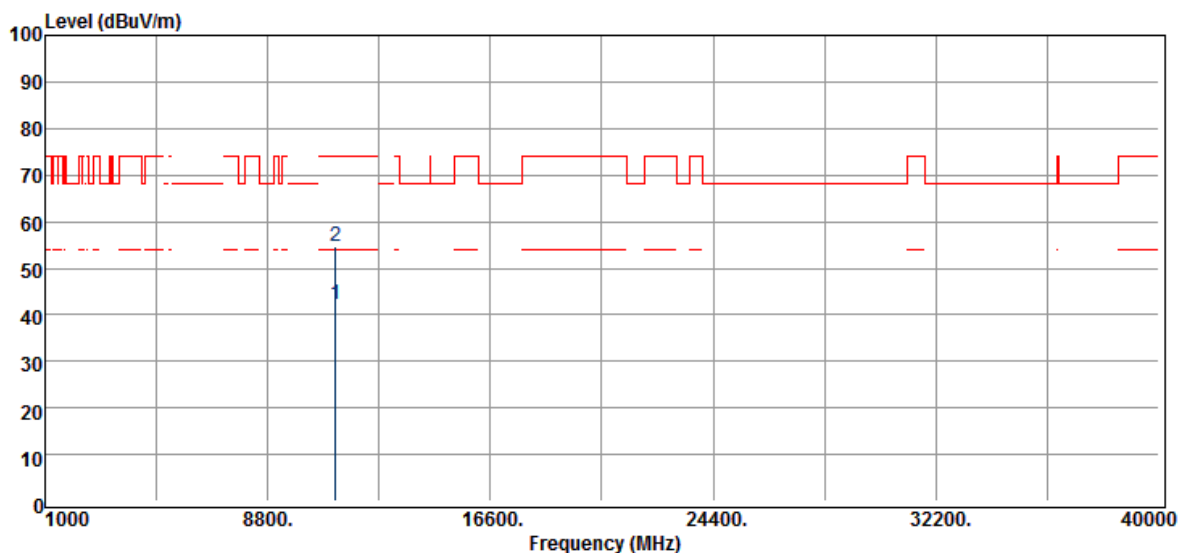
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Project Number : T190321W03
Operation Band : 802.11a B2c
Fundamental Frequency : 5580 MHz
Operation Mode : Tx CH MID
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11160.00	Average	25.67	16.53	42.20	54.00	-11.80
11160.00	Peak	38.02	16.53	54.55	74.00	-19.45

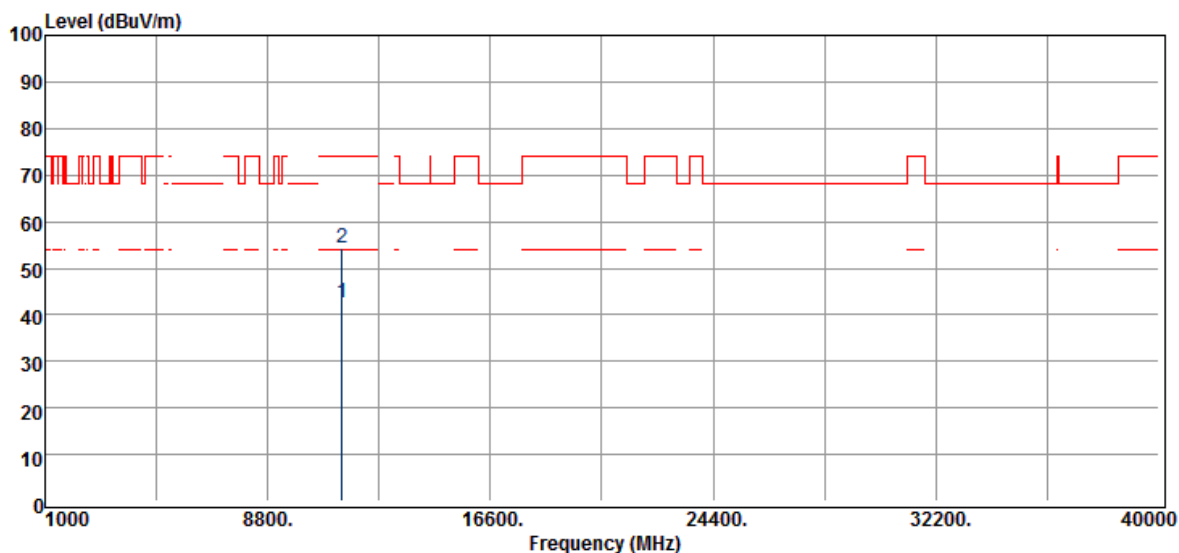
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Project Number : T190321W03
Operation Band : 802.11a B2c
Fundamental Frequency : 5700 MHz
Operation Mode : Tx CH HIGH
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11400.00	Average	26.15	16.48	42.63	54.00	-11.37
11400.00	Peak	37.89	16.48	54.37	74.00	-19.63

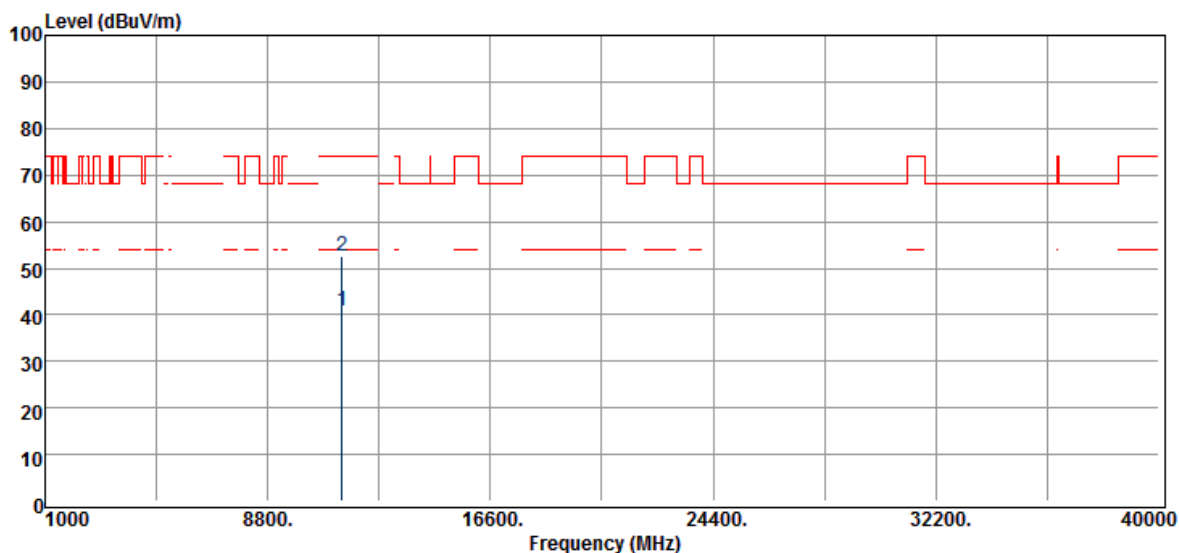
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Project Number : T190321W03
Operation Band : 802.11a B2c
Fundamental Frequency : 5700 MHz
Operation Mode : Tx CH HIGH
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11400.00	Average	24.35	16.48	40.83	54.00	-13.17
11400.00	Peak	36.23	16.48	52.71	74.00	-21.29

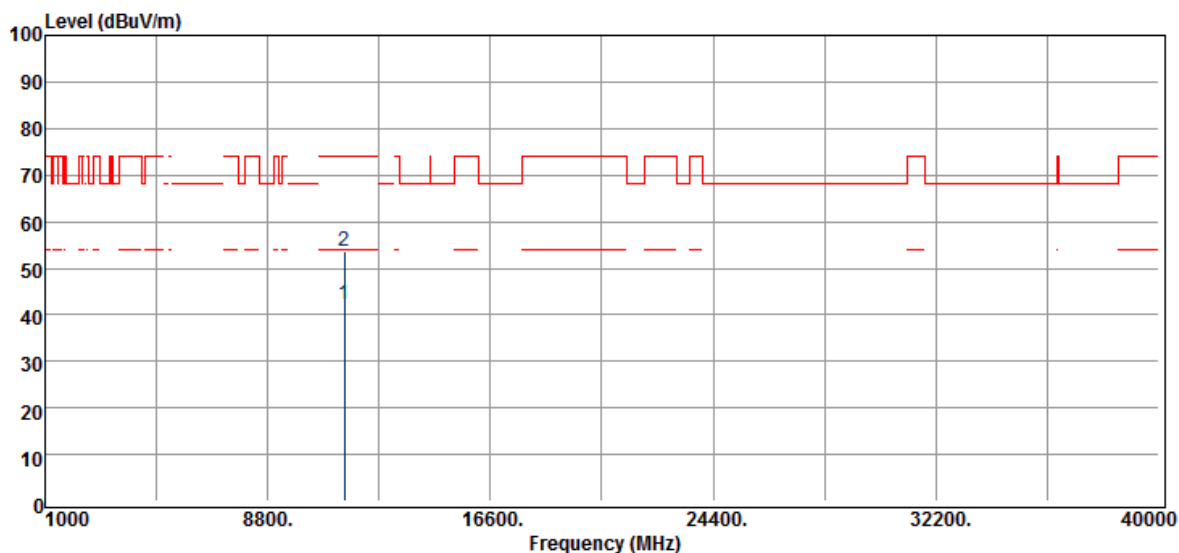
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Project Number : T190321W03
Operation Band : 802.11a B3
Fundamental Frequency : 5745 MHz
Operation Mode : Tx CH LOW
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



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	26.51	15.85	42.36	54.00	-11.64
11490.00	Peak	37.86	15.85	53.71	74.00	-20.29

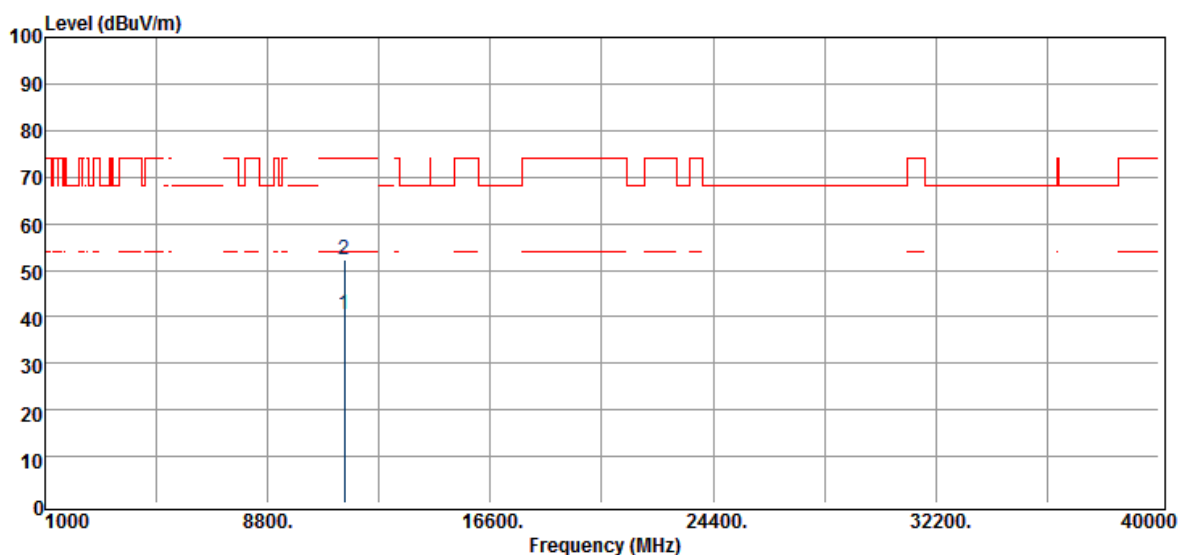
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Project Number : T190321W03
Operation Band : 802.11a B3
Fundamental Frequency : 5745 MHz
Operation Mode : Tx CH LOW
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : HORIZONTAL



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	24.75	15.85	40.60	54.00	-13.40
11490.00	Peak	36.36	15.85	52.21	74.00	-21.79

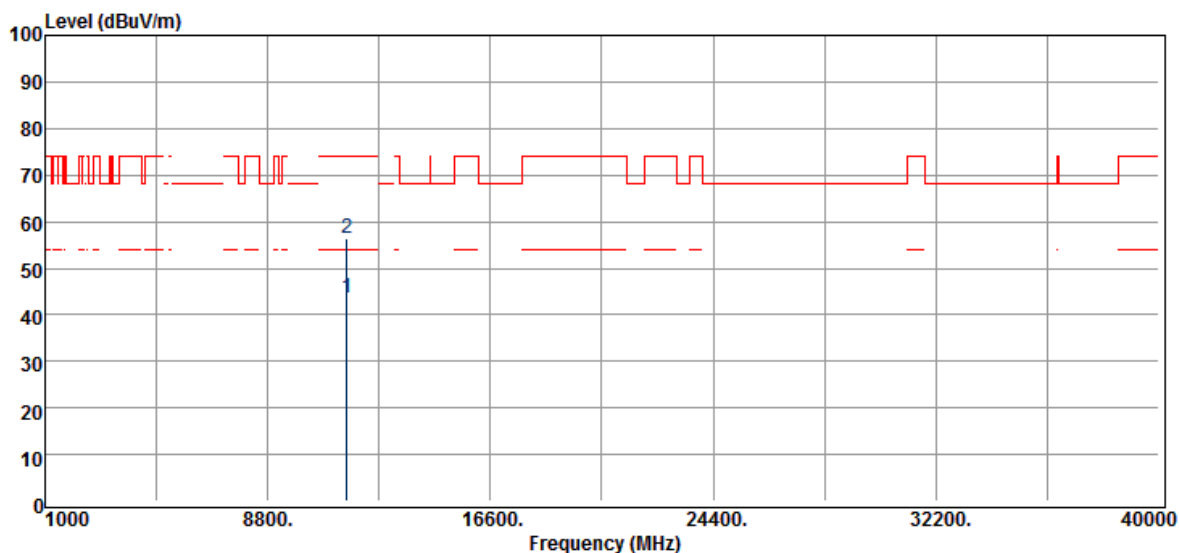
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Project Number : T190321W03
Operation Band : 802.11a B3
Fundamental Frequency : 5785 MHz
Operation Mode : Tx CH MID
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



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	27.22	16.29	43.51	54.00	-10.49
11570.00	Peak	40.20	16.29	56.49	74.00	-17.51

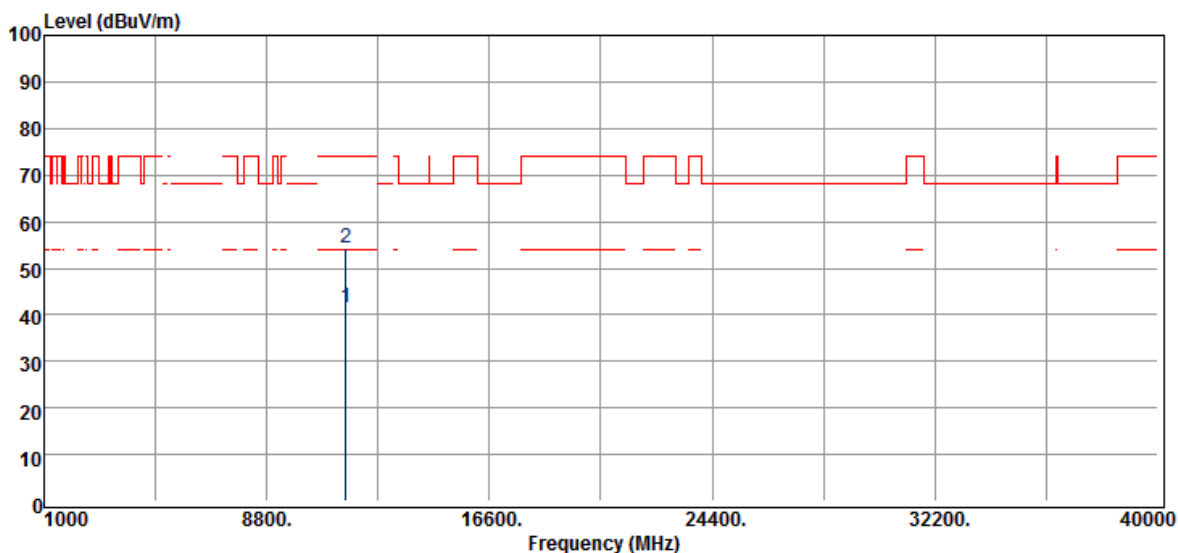
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Project Number : T190321W03
Operation Band : 802.11a B3
Fundamental Frequency : 5785 MHz
Operation Mode : Tx CH MID
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : HORIZONTAL



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	25.24	16.29	41.53	54.00	-12.47
11570.00	Peak	37.87	16.29	54.16	74.00	-19.84

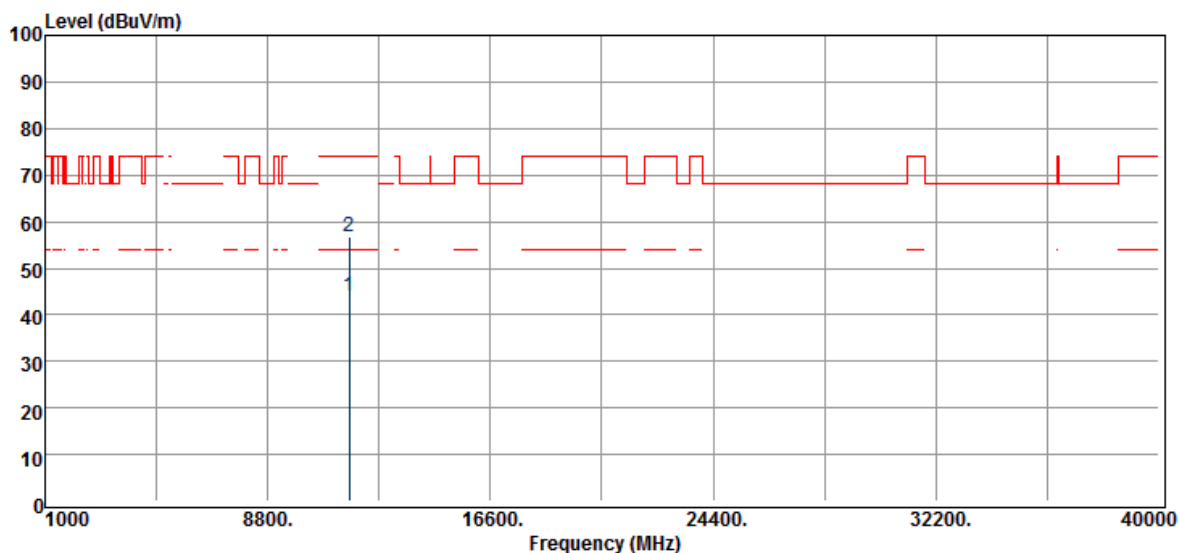
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Project Number : T190321W03
Operation Band : 802.11a B3
Fundamental Frequency : 5825 MHz
Operation Mode : Tx CH HIGH
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



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	27.35	16.61	43.96	54.00	-10.04
11650.00	Peak	40.26	16.61	56.87	74.00	-17.13

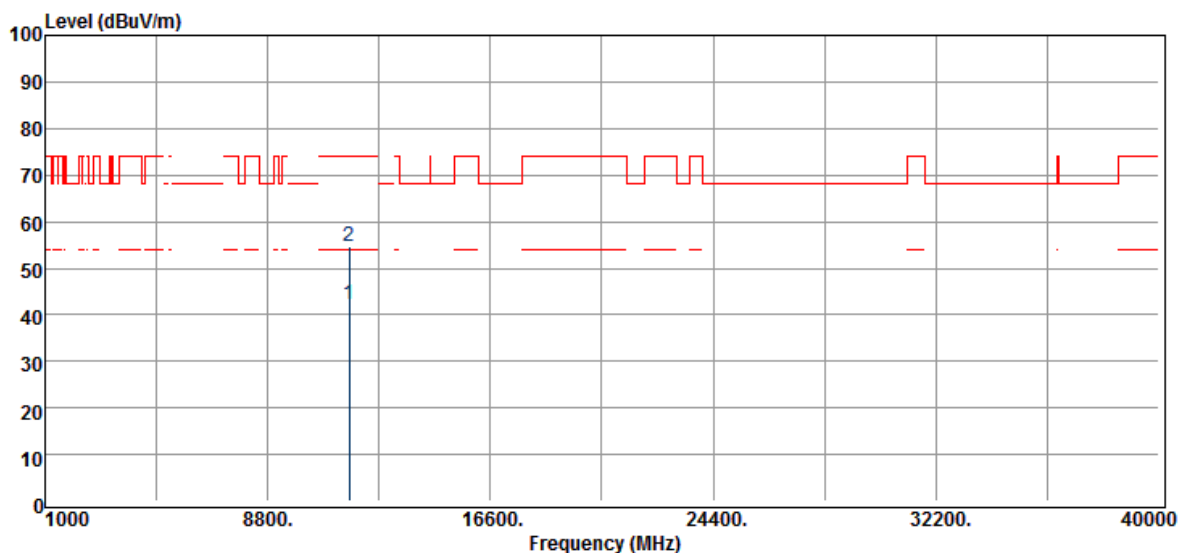
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Project Number : T190321W03
Operation Band : 802.11a B3
Fundamental Frequency : 5825 MHz
Operation Mode : Tx CH HIGH
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : HORIZONTAL



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	25.51	16.61	42.12	54.00	-11.88
11650.00	Peak	38.10	16.61	54.71	74.00	-19.29

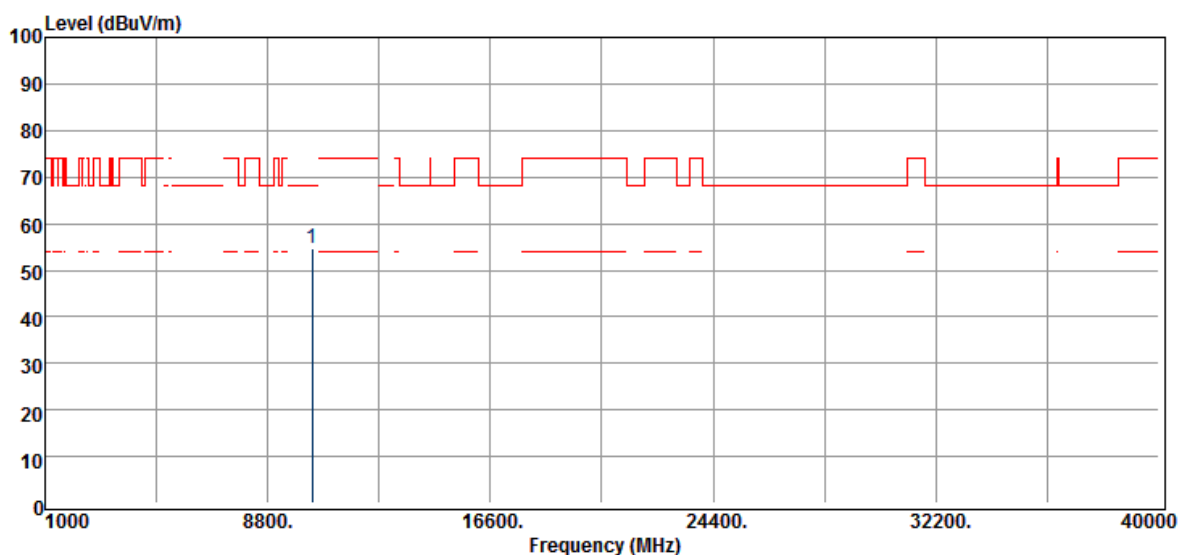
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Project Number : T190321W03
Operation Band : 802.11n20 B1
Fundamental Frequency : 5180 MHz
Operation Mode : Tx CH LOW
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



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	40.25	14.41	54.66	68.20	-13.54

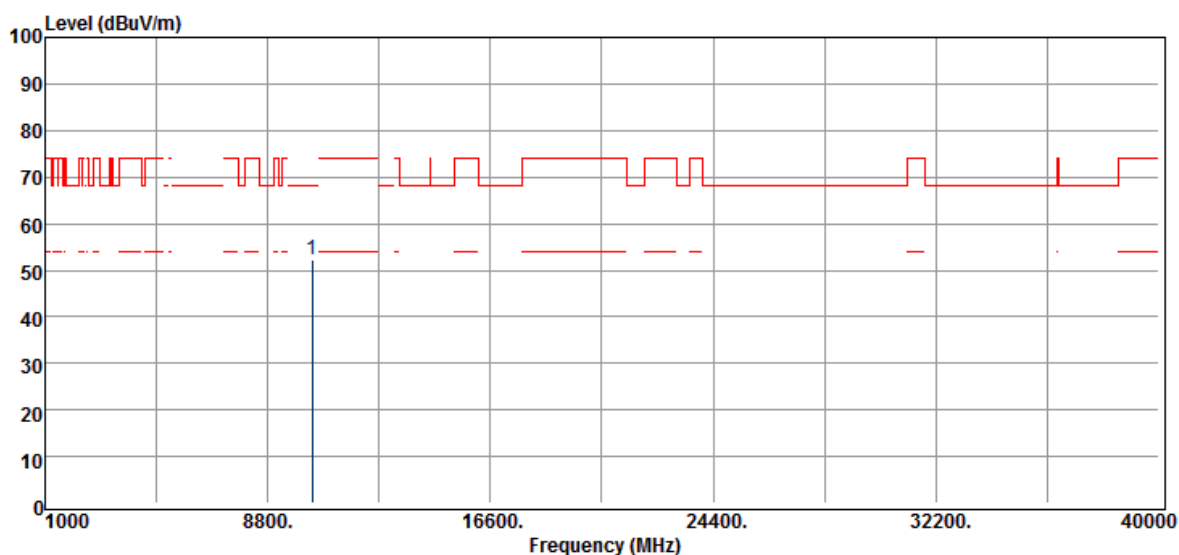
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Project Number : T190321W03
Operation Band : 802.11n20 B1
Fundamental Frequency : 5180 MHz
Operation Mode : Tx CH LOW
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : HORIZONTAL



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	37.74	14.41	52.15	68.20	-16.05

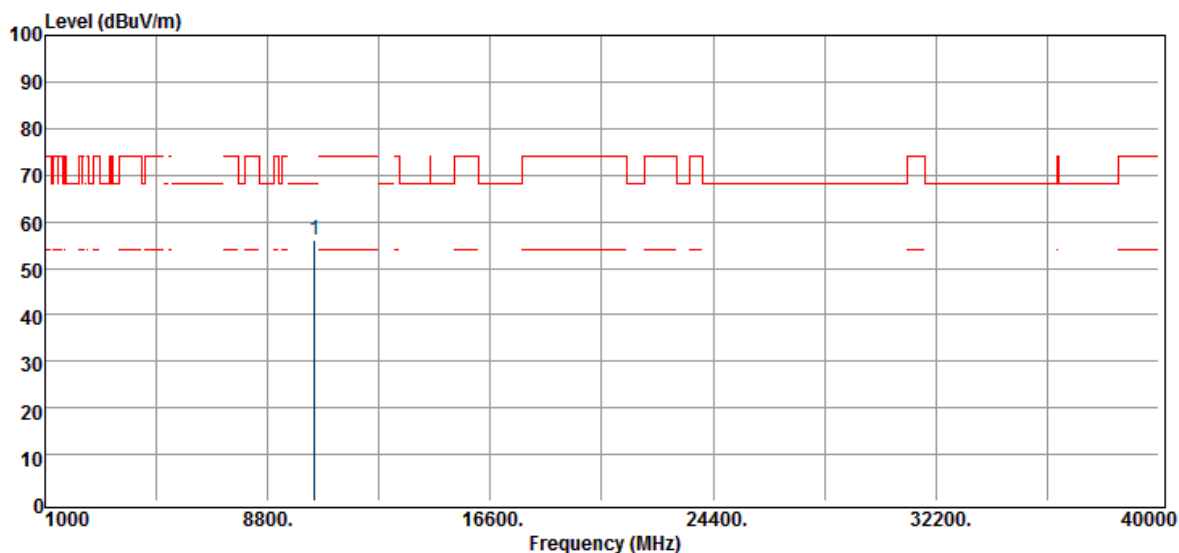
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Project Number : T190321W03
Operation Band : 802.11n20 B1
Fundamental Frequency : 5220 MHz
Operation Mode : Tx CH MID
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



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	40.33	15.58	55.91	68.20	-12.29

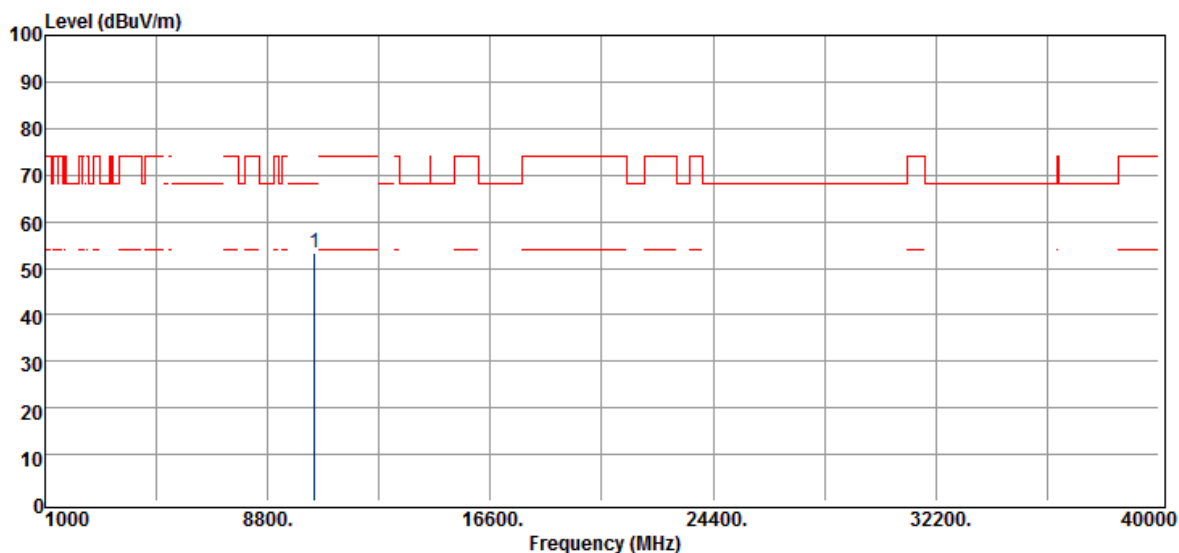
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Project Number : T190321W03
Operation Band : 802.11n20 B1
Fundamental Frequency : 5220 MHz
Operation Mode : Tx CH MID
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : HORIZONTAL



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	37.82	15.58	53.40	68.20	-14.80

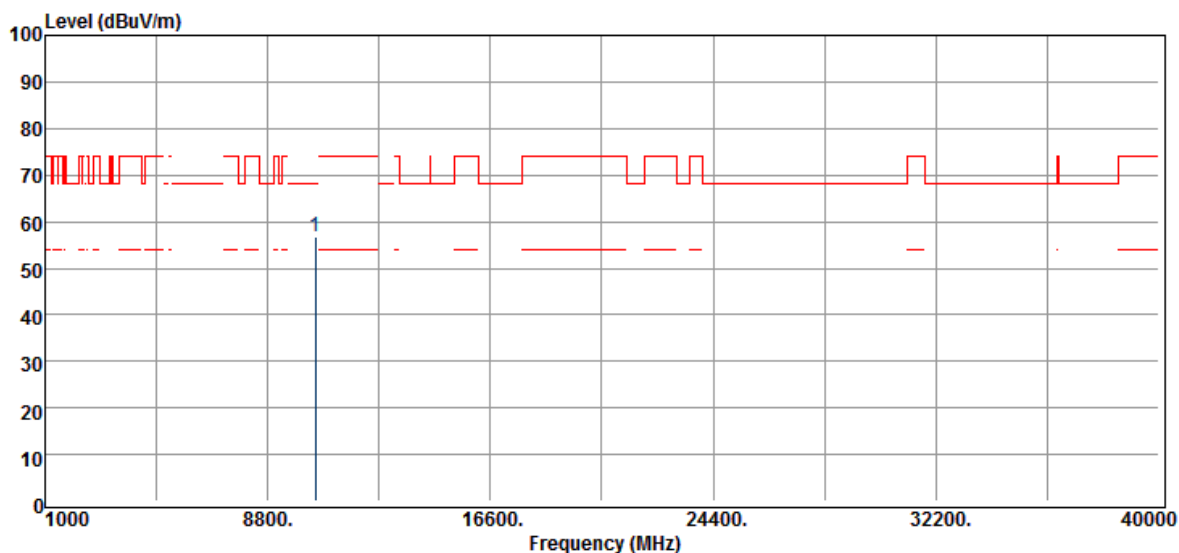
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Project Number : T190321W03
Operation Band : 802.11n20 B1
Fundamental Frequency : 5240 MHz
Operation Mode : Tx CH HIGH
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



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	40.28	16.48	56.76	68.20	-11.44

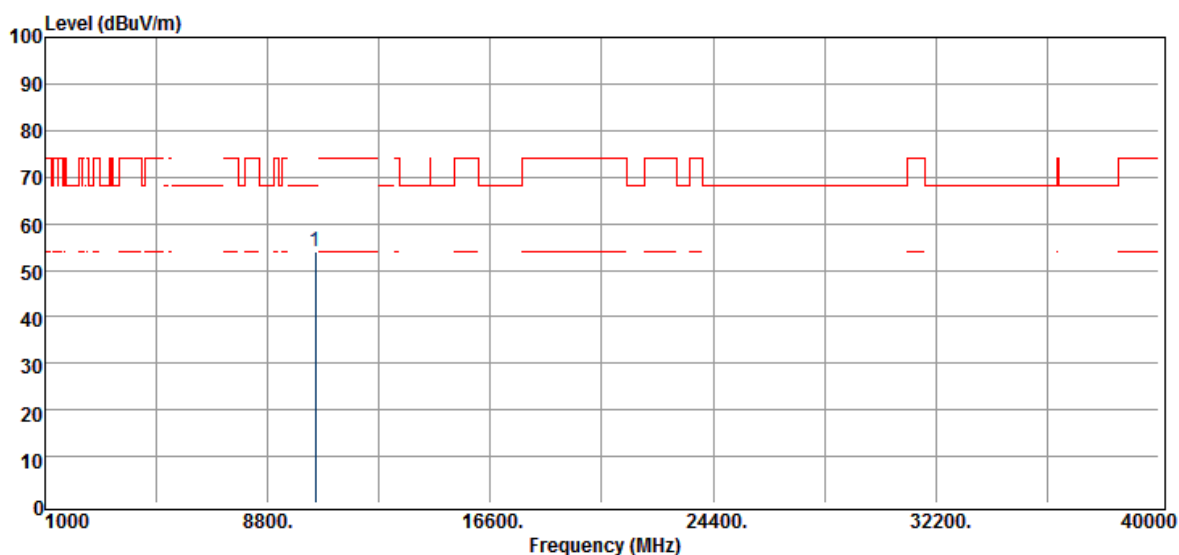
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Project Number : T190321W03
Operation Band : 802.11n20 B1
Fundamental Frequency : 5240 MHz
Operation Mode : Tx CH HIGH
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : HORIZONTAL



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	37.39	16.48	53.87	68.20	-14.33

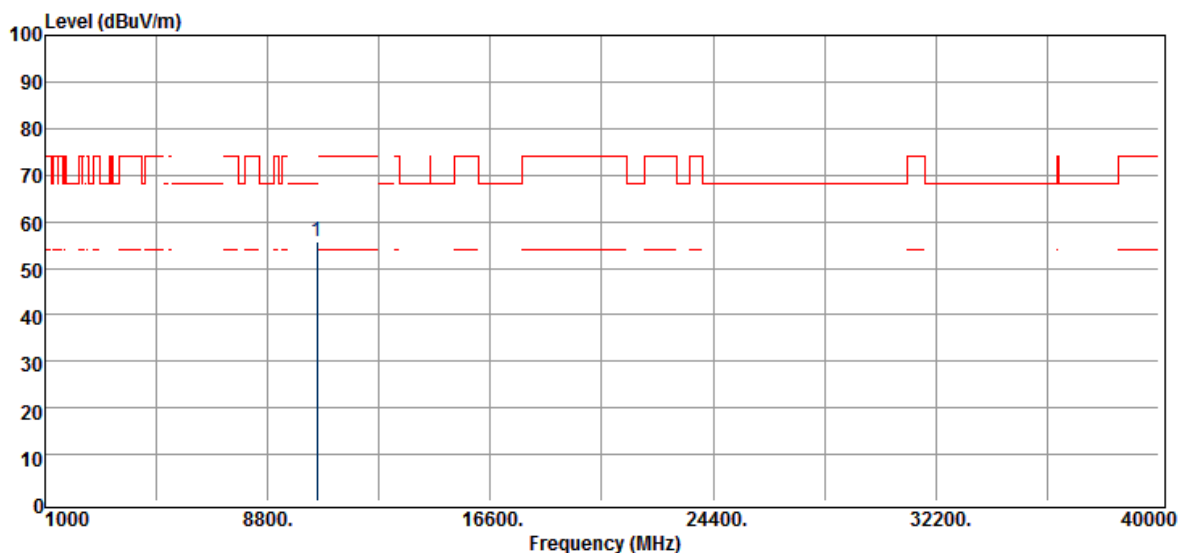
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Project Number : T190321W03
 Operation Band : 802.11n20 B2a
 Fundamental Frequency : 5260 MHz
 Operation Mode : Tx CH LOW
 EUT Pol. : H Plan

Test Date : 2019-04-09
 Temp./Humi. : 23 deg_C / 62 RH
 Engineer : Jerry
 Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10520.00	Peak	40.13	15.57	55.70	68.20	-12.50

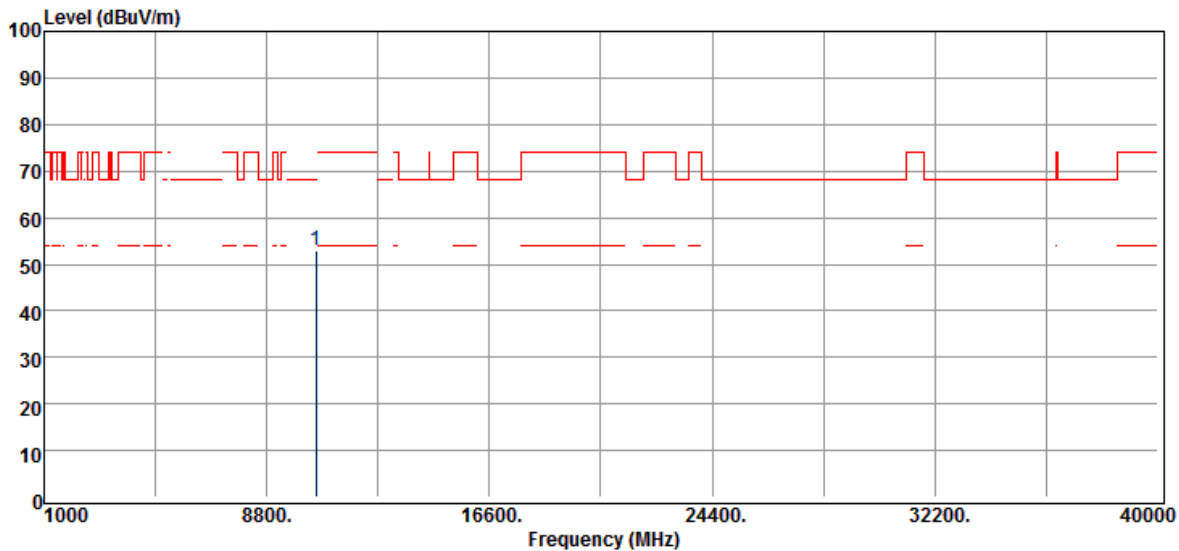
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Project Number : T190321W03
Operation Band : 802.11n20 B2a
Fundamental Frequency : 5260 MHz
Operation Mode : Tx CH LOW
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10520.00	Peak	37.37	15.57	52.94	68.20	-15.26

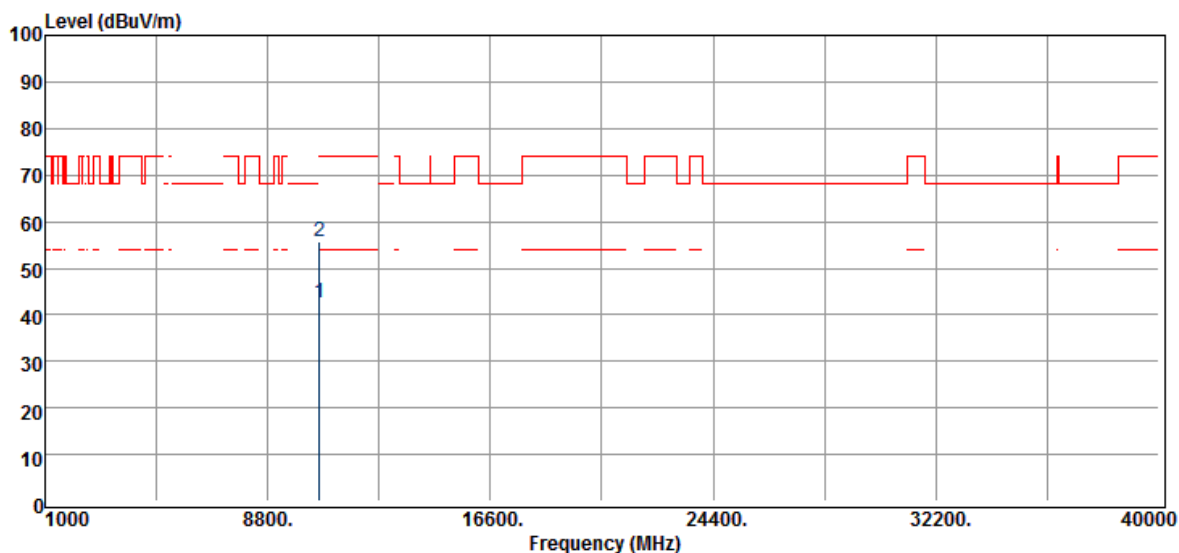
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Project Number : T190321W03
Operation Band : 802.11n20 B2a
Fundamental Frequency : 5300 MHz
Operation Mode : Tx CH MID
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10600.00	Average	27.23	15.47	42.70	54.00	-11.30
10600.00	Peak	40.20	15.47	55.67	74.00	-18.33

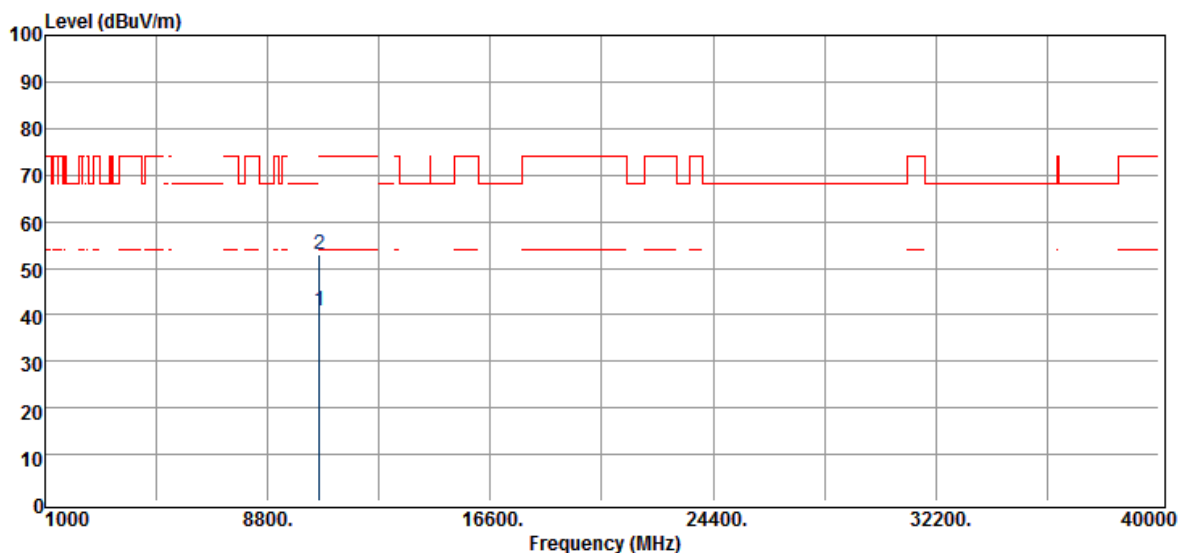
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Project Number : T190321W03
 Operation Band : 802.11n20 B2a
 Fundamental Frequency : 5300 MHz
 Operation Mode : Tx CH MID
 EUT Pol. : H Plan

Test Date : 2019-04-09
 Temp./Humi. : 23 deg_C / 62 RH
 Engineer : Jerry
 Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10600.00	Average	25.31	15.47	40.78	54.00	-13.22
10600.00	Peak	37.30	15.47	52.77	74.00	-21.23

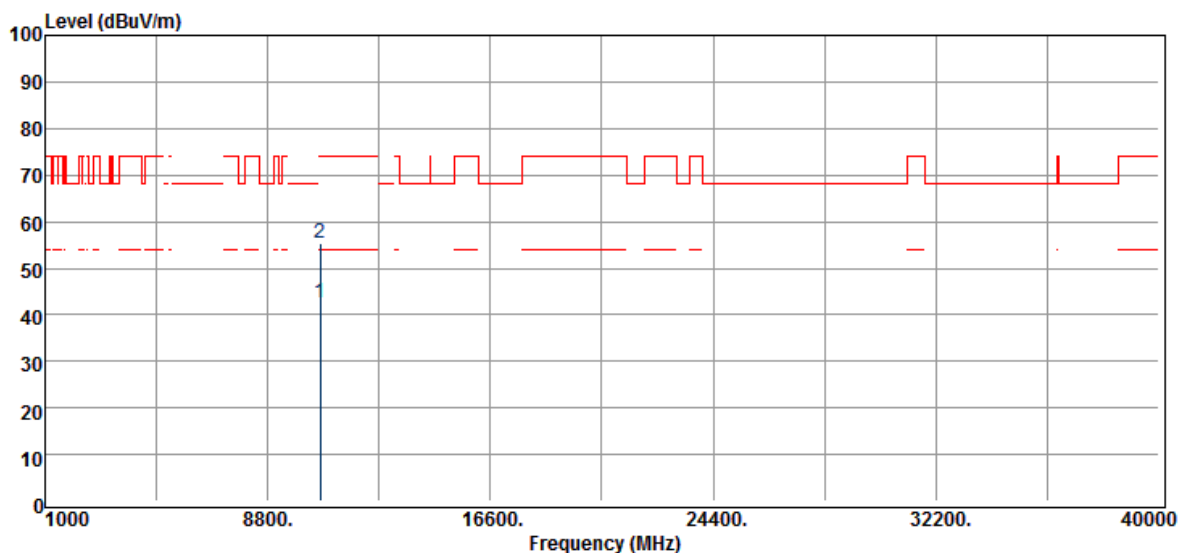
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Project Number : T190321W03
Operation Band : 802.11n20 B2a
Fundamental Frequency : 5320 MHz
Operation Mode : Tx CH HIGH
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10640.00	Average	26.60	16.12	42.72	54.00	-11.28
10640.00	Peak	39.37	16.12	55.49	74.00	-18.51

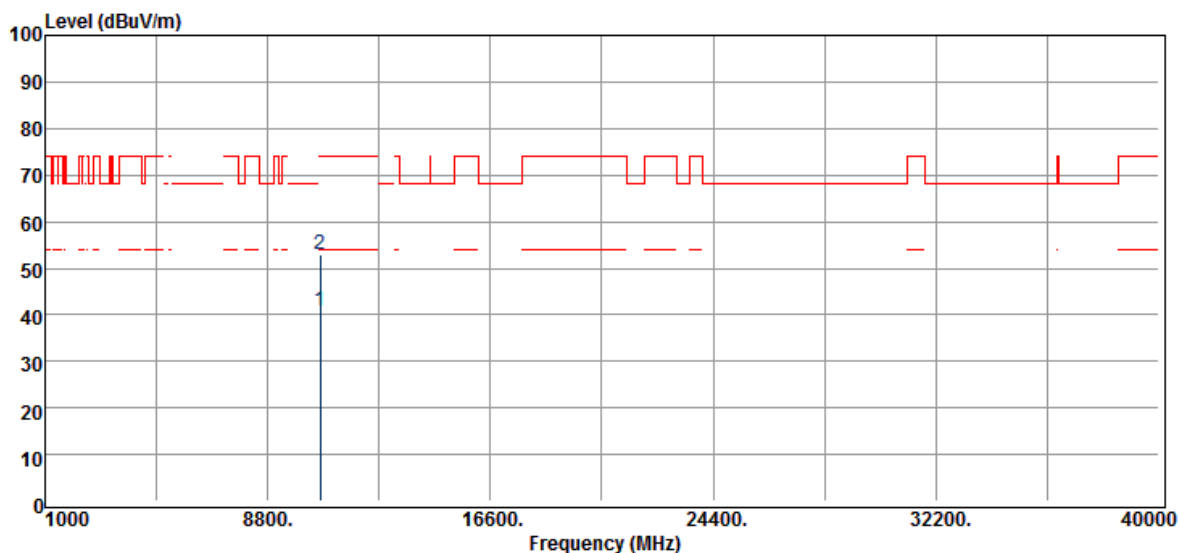
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Project Number : T190321W03
Operation Band : 802.11n20 B2a
Fundamental Frequency : 5320 MHz
Operation Mode : Tx CH HIGH
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10640.00	Average	24.61	16.12	40.73	54.00	-13.27
10640.00	Peak	36.91	16.12	53.03	74.00	-20.97

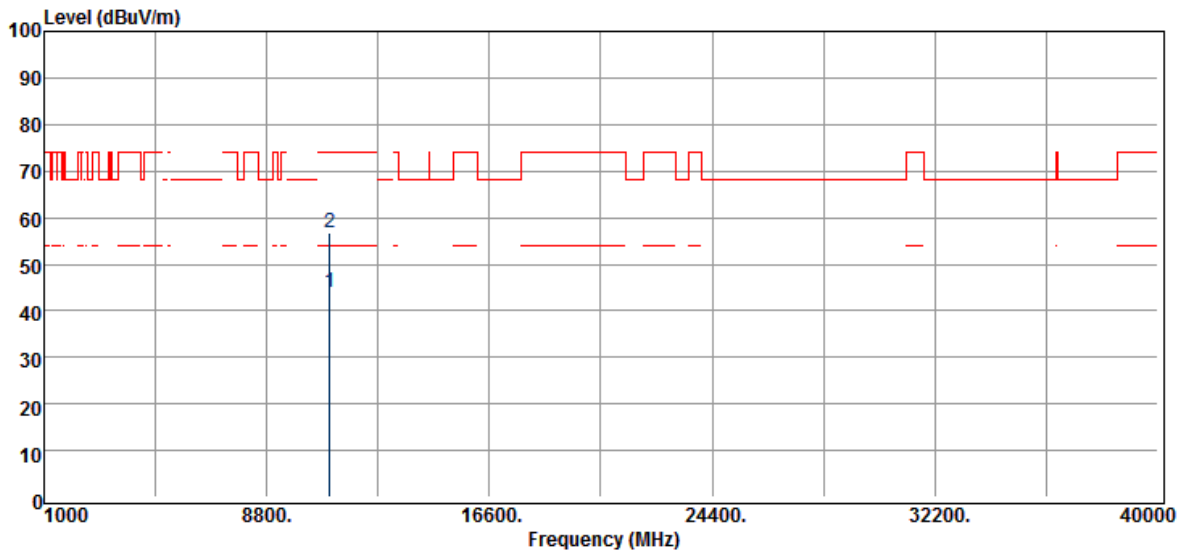
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Project Number : T190321W03
Operation Band : 802.11n20 B2c
Fundamental Frequency : 5500 MHz
Operation Mode : Tx CH LOW
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11000.00	Average	26.33	17.75	44.08	54.00	-9.92
11000.00	Peak	38.88	17.75	56.63	74.00	-17.37

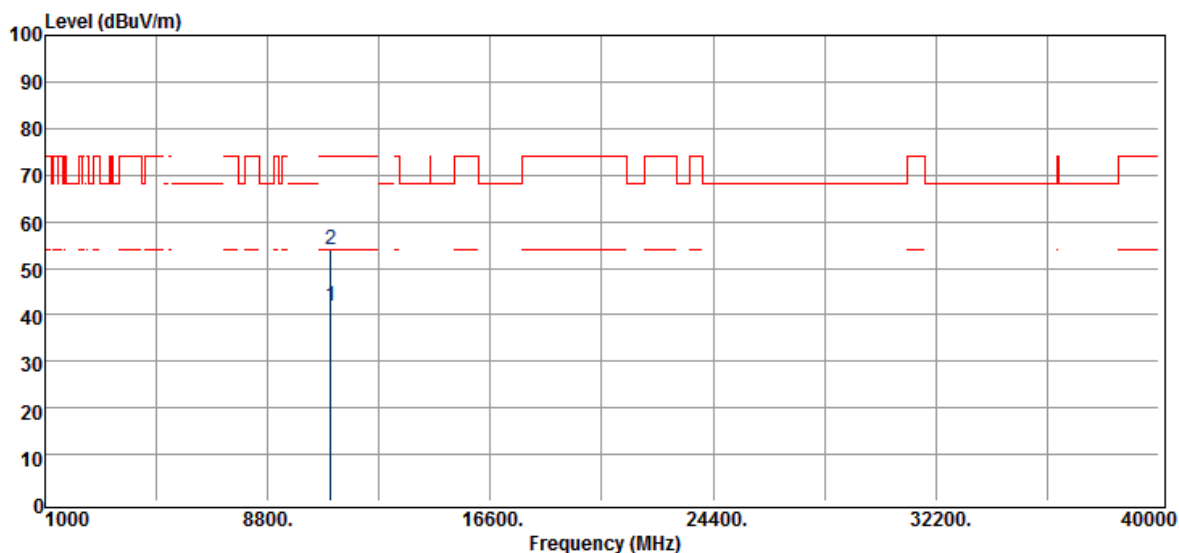
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Project Number : T190321W03
Operation Band : 802.11n20 B2c
Fundamental Frequency : 5500 MHz
Operation Mode : Tx CH LOW
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11000.00	Average	24.14	17.75	41.89	54.00	-12.11
11000.00	Peak	36.12	17.75	53.87	74.00	-20.13

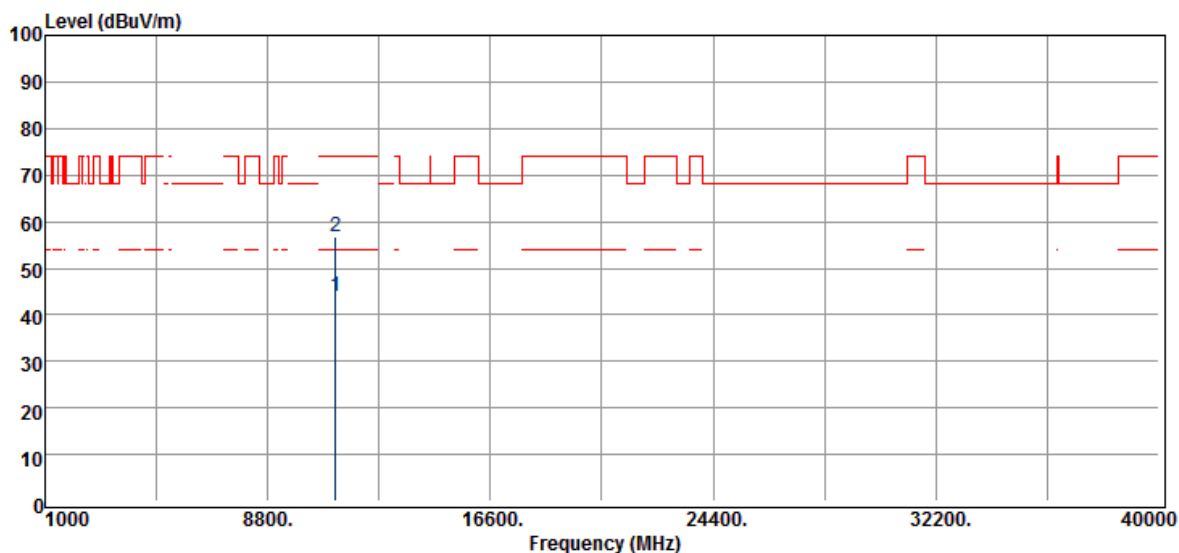
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Project Number : T190321W03
Operation Band : 802.11n20 B2c
Fundamental Frequency : 5580 MHz
Operation Mode : Tx CH MID
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11160.00	Average	27.34	16.53	43.87	54.00	-10.13
11160.00	Peak	40.20	16.53	56.73	74.00	-17.27

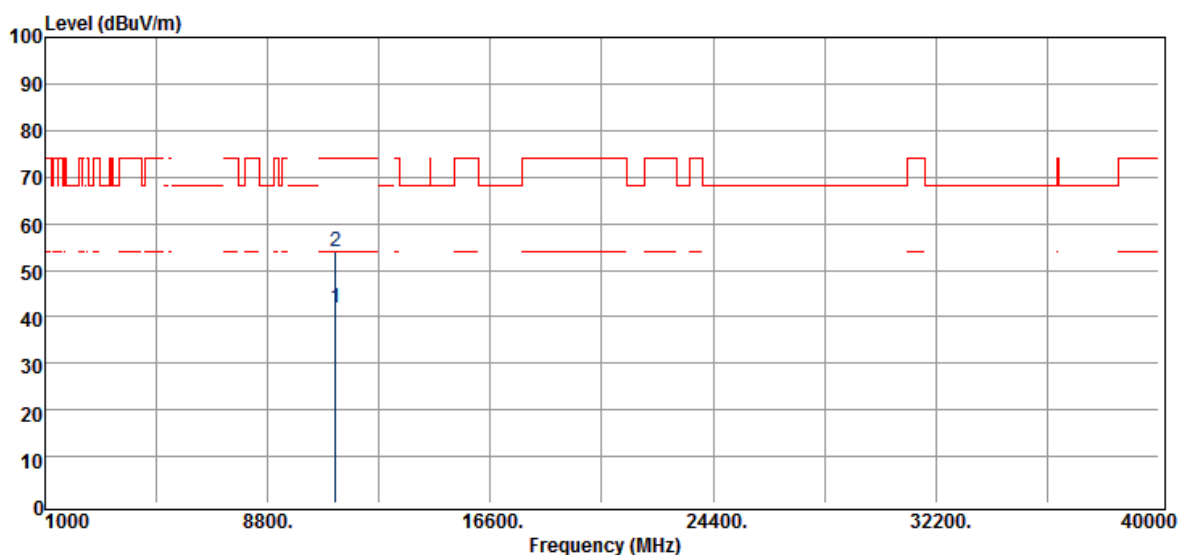
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Project Number : T190321W03
Operation Band : 802.11n20 B2c
Fundamental Frequency : 5580 MHz
Operation Mode : Tx CH MID
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11160.00	Average	25.32	16.53	41.85	54.00	-12.15
11160.00	Peak	37.54	16.53	54.07	74.00	-19.93

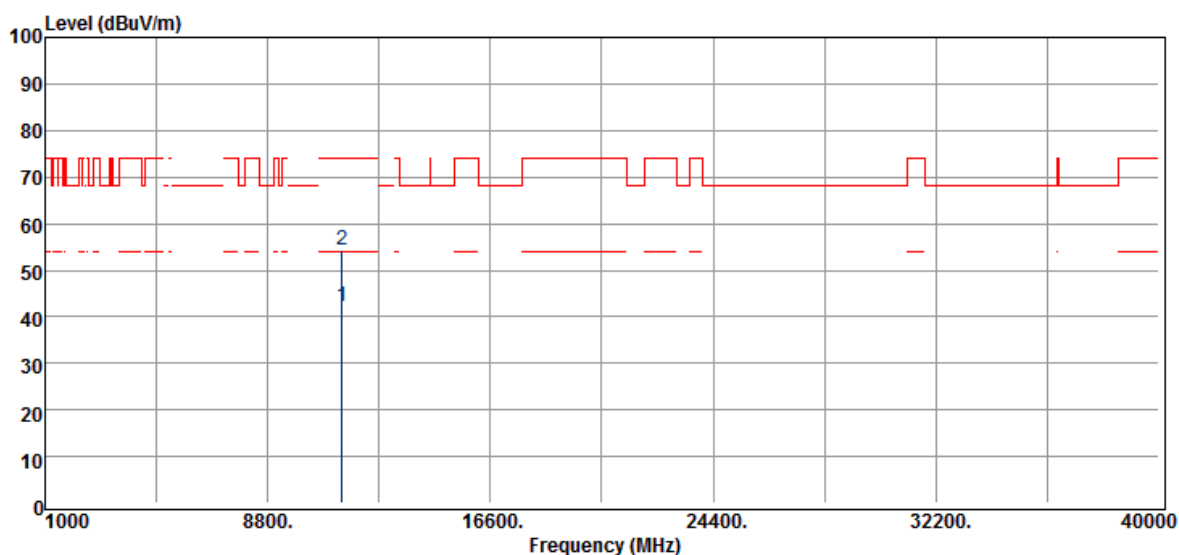
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Project Number : T190321W03
Operation Band : 802.11n20 B2c
Fundamental Frequency : 5700 MHz
Operation Mode : Tx CH HIGH
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11400.00	Average	25.79	16.48	42.27	54.00	-11.73
11400.00	Peak	37.83	16.48	54.31	74.00	-19.69

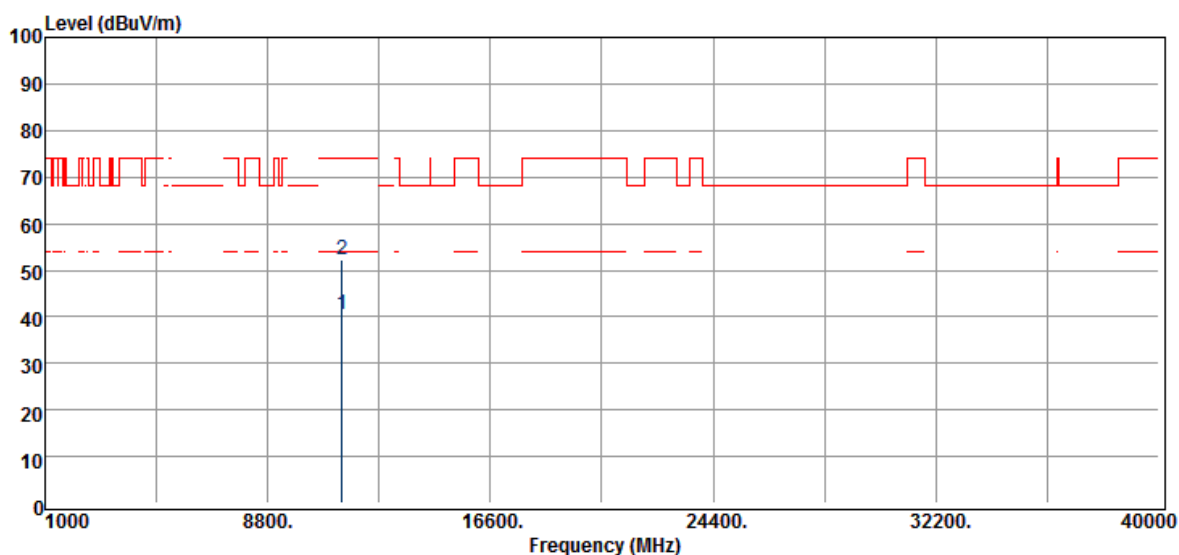
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Project Number : T190321W03
Operation Band : 802.11n20 B2c
Fundamental Frequency : 5700 MHz
Operation Mode : Tx CH HIGH
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11400.00	Average	24.06	16.48	40.54	54.00	-13.46
11400.00	Peak	35.91	16.48	52.39	74.00	-21.61

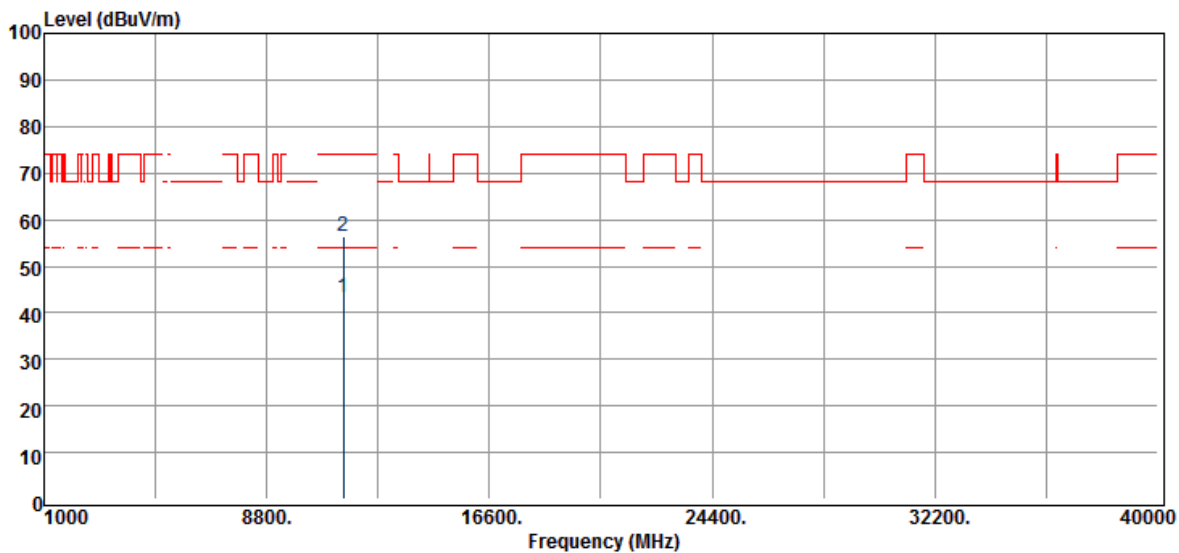
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Project Number : T190321W03
Operation Band : 802.11n20 B3
Fundamental Frequency : 5745 MHz
Operation Mode : Tx CH LOW
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



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	27.52	15.85	43.37	54.00	-10.63
11490.00	Peak	40.63	15.85	56.48	74.00	-17.52

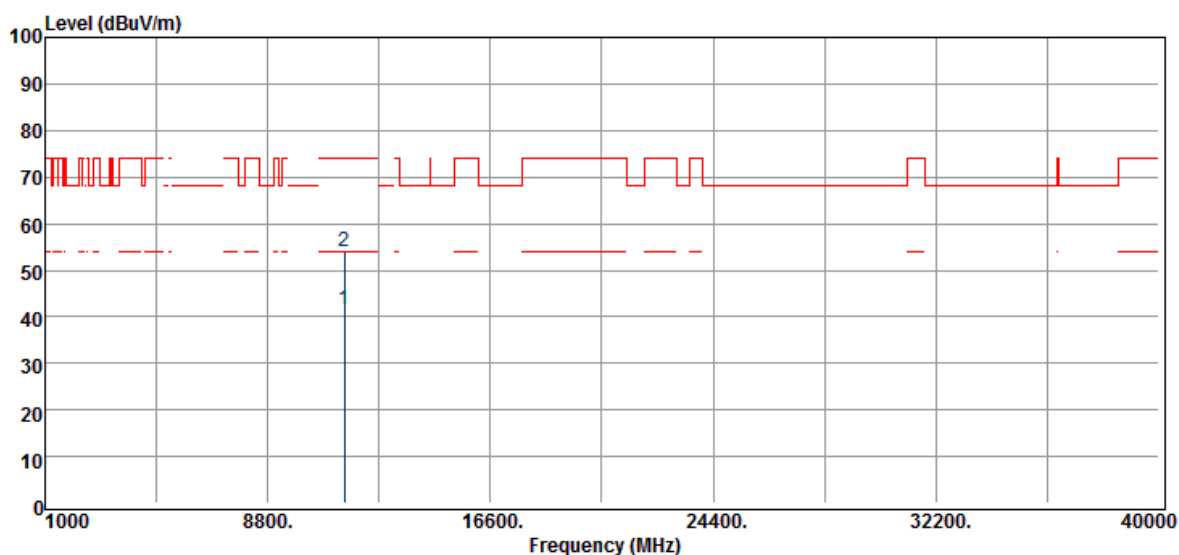
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Project Number : T190321W03
Operation Band : 802.11n20 B3
Fundamental Frequency : 5745 MHz
Operation Mode : Tx CH LOW
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : HORIZONTAL



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	25.63	15.85	41.48	54.00	-12.52
11490.00	Peak	38.06	15.85	53.91	74.00	-20.09

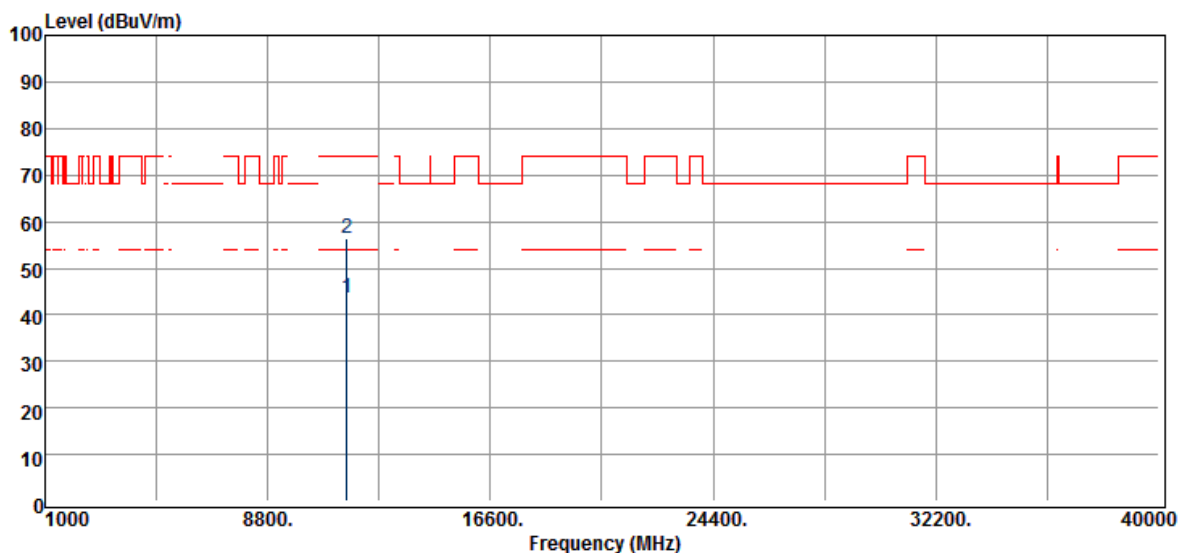
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Project Number : T190321W03
Operation Band : 802.11n20 B3
Fundamental Frequency : 5785 MHz
Operation Mode : Tx CH MID
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



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	27.26	16.29	43.55	54.00	-10.45
11570.00	Peak	40.16	16.29	56.45	74.00	-17.55

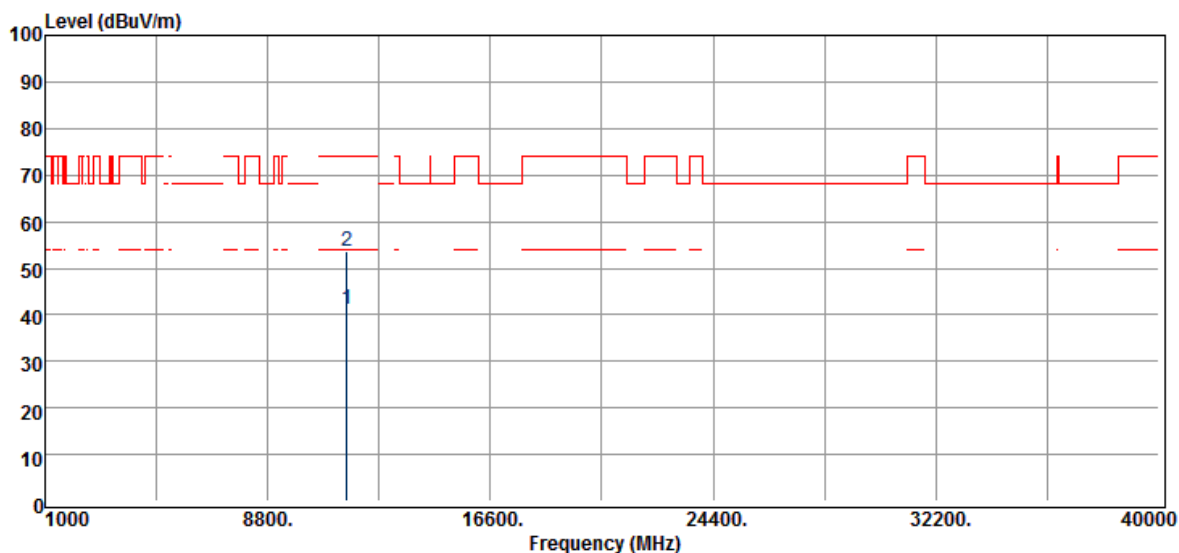
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Project Number : T190321W03
Operation Band : 802.11n20 B3
Fundamental Frequency : 5785 MHz
Operation Mode : Tx CH MID
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : HORIZONTAL



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	25.03	16.29	41.32	54.00	-12.68
11570.00	Peak	37.40	16.29	53.69	74.00	-20.31

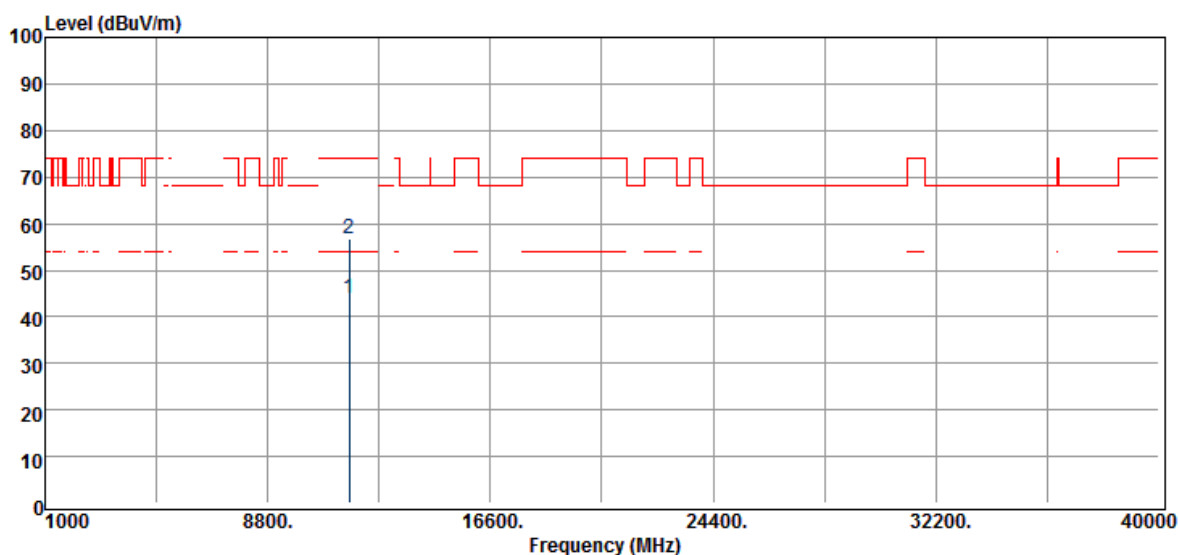
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Project Number : T190321W03
Operation Band : 802.11n20 B3
Fundamental Frequency : 5825 MHz
Operation Mode : Tx CH HIGH
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



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	27.21	16.61	43.82	54.00	-10.18
11650.00	Peak	40.15	16.61	56.76	74.00	-17.24

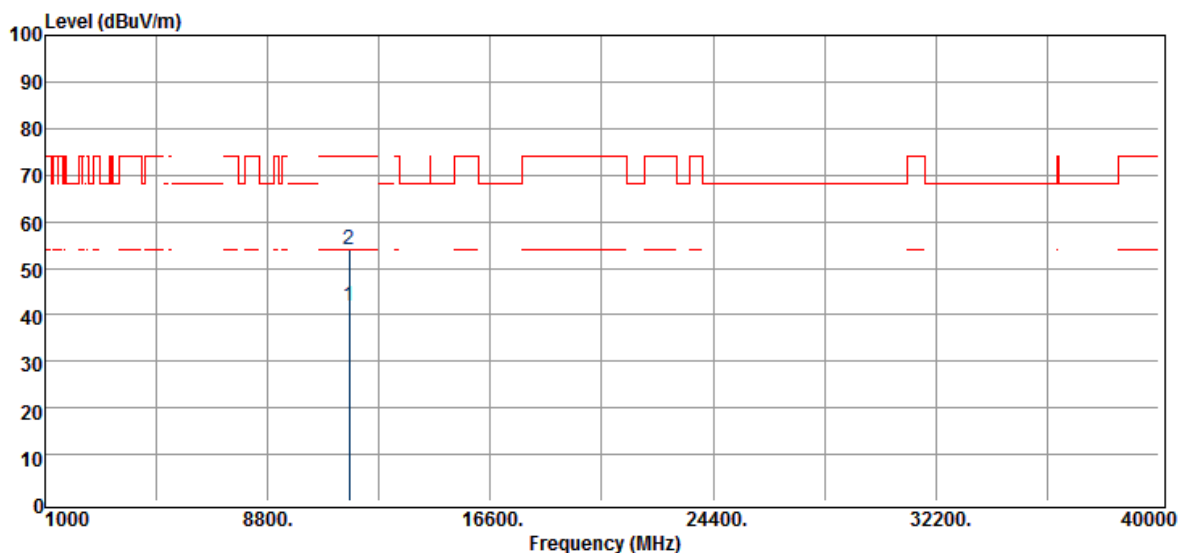
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Project Number : T190321W03
Operation Band : 802.11n20 B3
Fundamental Frequency : 5825 MHz
Operation Mode : Tx CH HIGH
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : HORIZONTAL



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	25.30	16.61	41.91	54.00	-12.09
11650.00	Peak	37.49	16.61	54.10	74.00	-19.90

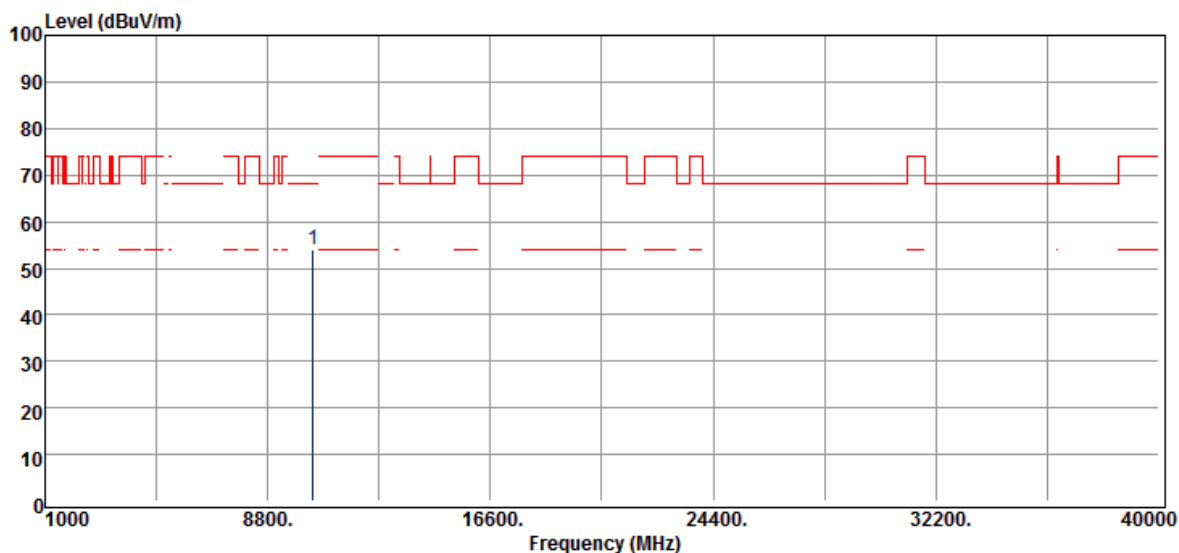
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Project Number : T190321W03
Operation Band : 802.11n40 B1
Fundamental Frequency : 5190 MHz
Operation Mode : Tx CH LOW
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



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	39.27	14.58	53.85	68.20	-14.35

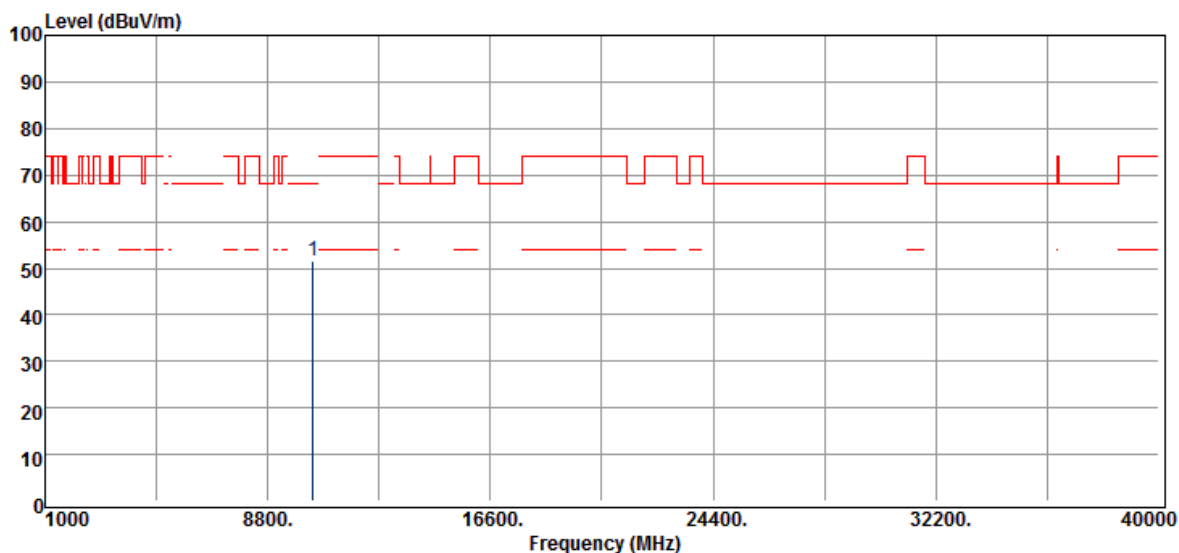
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Project Number : T190321W03
 Operation Band : 802.11n40 B1
 Fundamental Frequency : 5190 MHz
 Operation Mode : Tx CH LOW
 EUT Pol. : H Plan

Test Date : 2019-04-09
 Temp./Humi. : 23 deg_C / 62 RH
 Engineer : Jerry
 Measurement Antenna Pol. : HORIZONTAL



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	37.14	14.58	51.72	68.20	-16.48

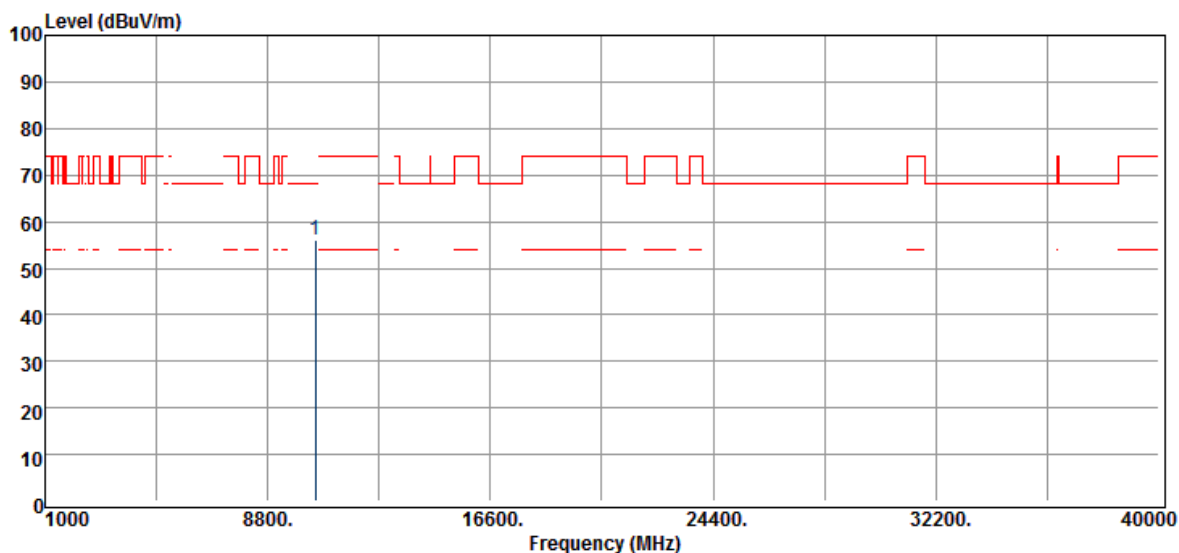
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Project Number : T190321W03
Operation Band : 802.11n40 B1
Fundamental Frequency : 5230 MHz
Operation Mode : Tx CH HIGH
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



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	39.91	15.97	55.88	68.20	-12.32

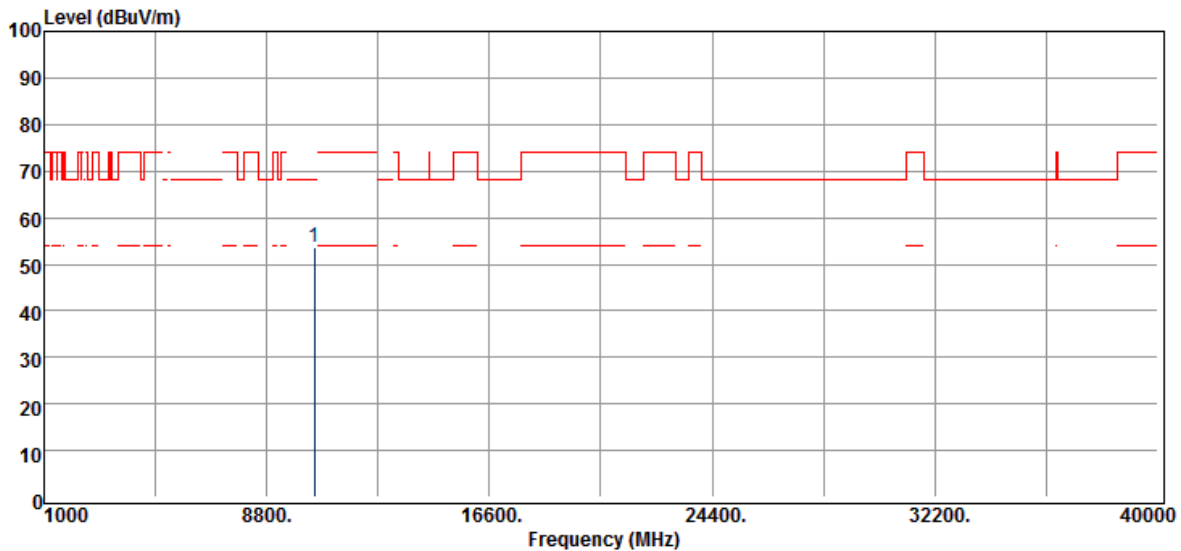
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Project Number : T190321W03
Operation Band : 802.11n40 B1
Fundamental Frequency : 5230 MHz
Operation Mode : Tx CH HIGH
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : HORIZONTAL



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	37.51	15.97	53.48	68.20	-14.72

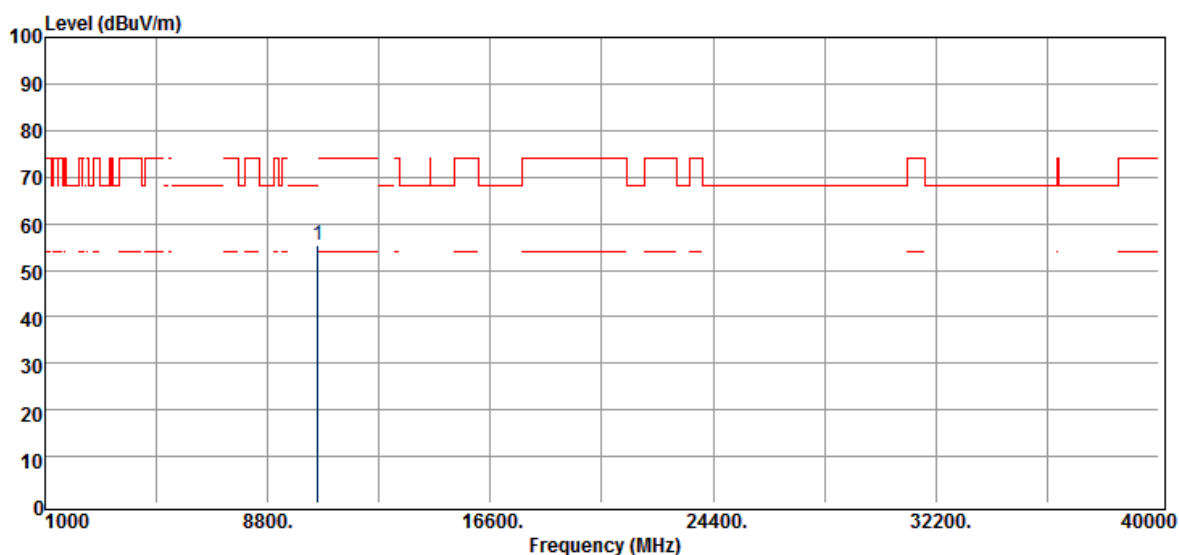
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Project Number : T190321W03
Operation Band : 802.11n40 B2a
Fundamental Frequency : 5270 MHz
Operation Mode : Tx CH LOW
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10540.00	Peak	39.60	15.67	55.27	68.20	-12.93

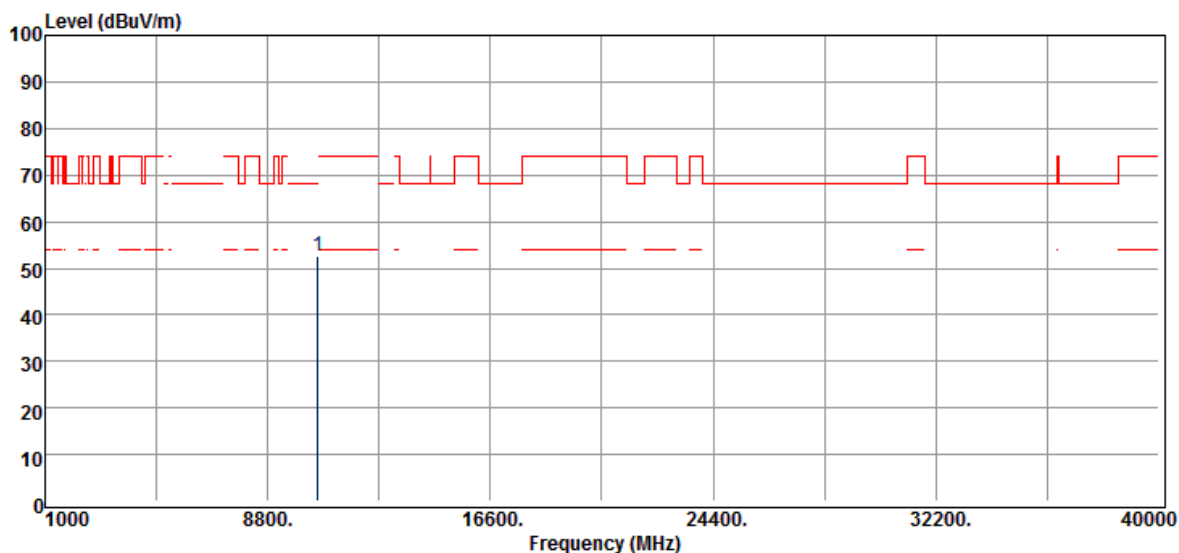
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Project Number : T190321W03
 Operation Band : 802.11n40 B2a
 Fundamental Frequency : 5270 MHz
 Operation Mode : Tx CH LOW
 EUT Pol. : H Plan

Test Date : 2019-04-09
 Temp./Humi. : 23 deg_C / 62 RH
 Engineer : Jerry
 Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10540.00	Peak	36.88	15.67	52.55	68.20	-15.65

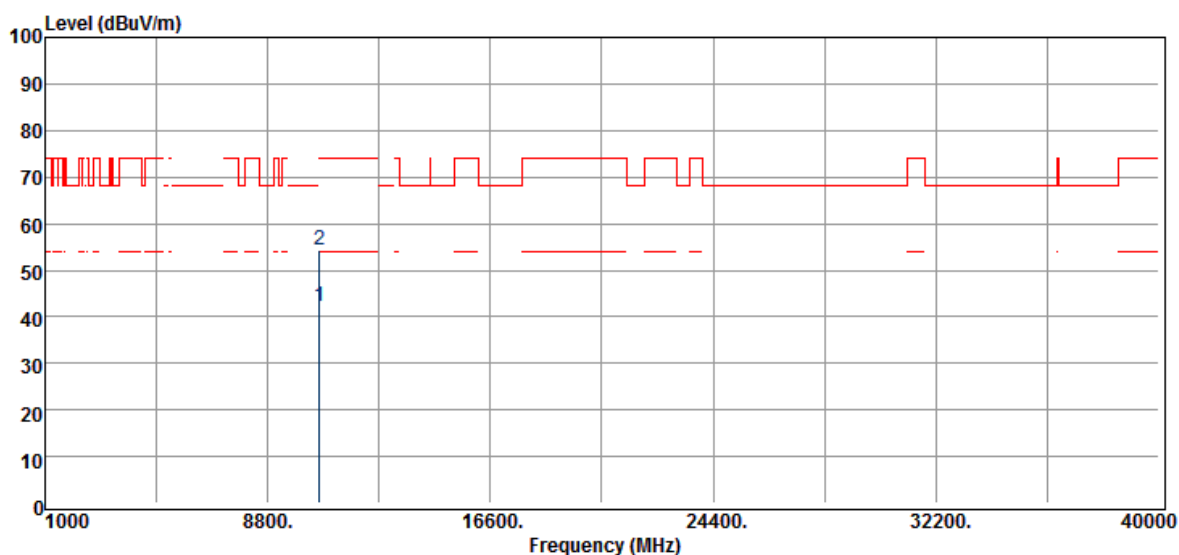
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Project Number : T190321W03
 Operation Band : 802.11n40 B2a
 Fundamental Frequency : 5310 MHz
 Operation Mode : Tx CH HIGH
 EUT Pol. : H Plan

Test Date : 2019-04-09
 Temp./Humi. : 23 deg_C / 62 RH
 Engineer : Jerry
 Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10620.00	Average	26.40	15.78	42.18	54.00	-11.82
10620.00	Peak	38.52	15.78	54.30	74.00	-19.70

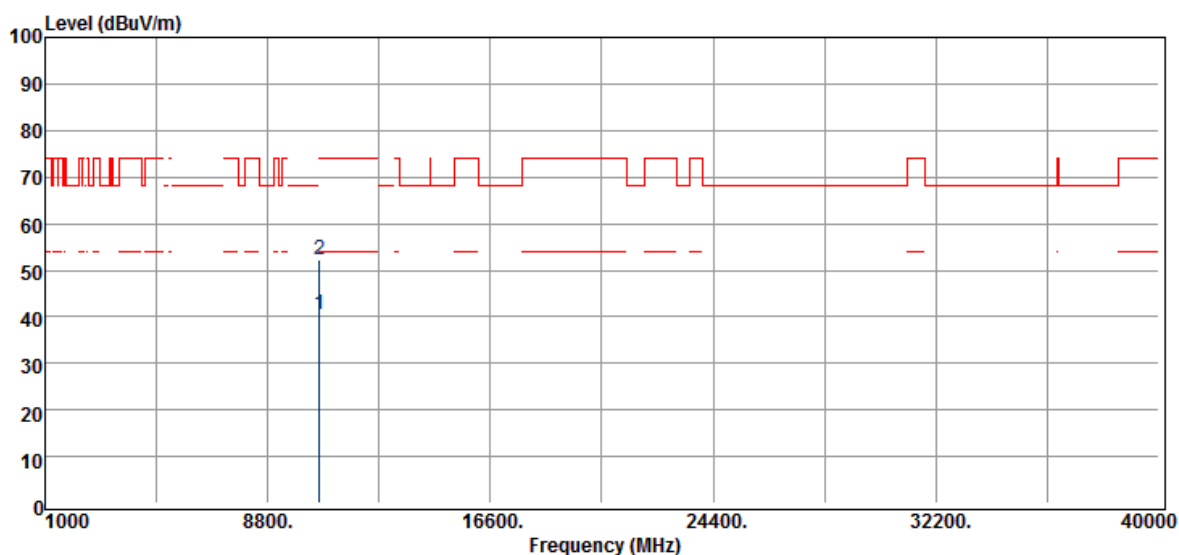
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Project Number : T190321W03
 Operation Band : 802.11n40 B2a
 Fundamental Frequency : 5310 MHz
 Operation Mode : Tx CH HIGH
 EUT Pol. : H Plan

Test Date : 2019-04-09
 Temp./Humi. : 23 deg_C / 62 RH
 Engineer : Jerry
 Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10620.00	Average	24.54	15.78	40.32	54.00	-13.68
10620.00	Peak	36.40	15.78	52.18	74.00	-21.82

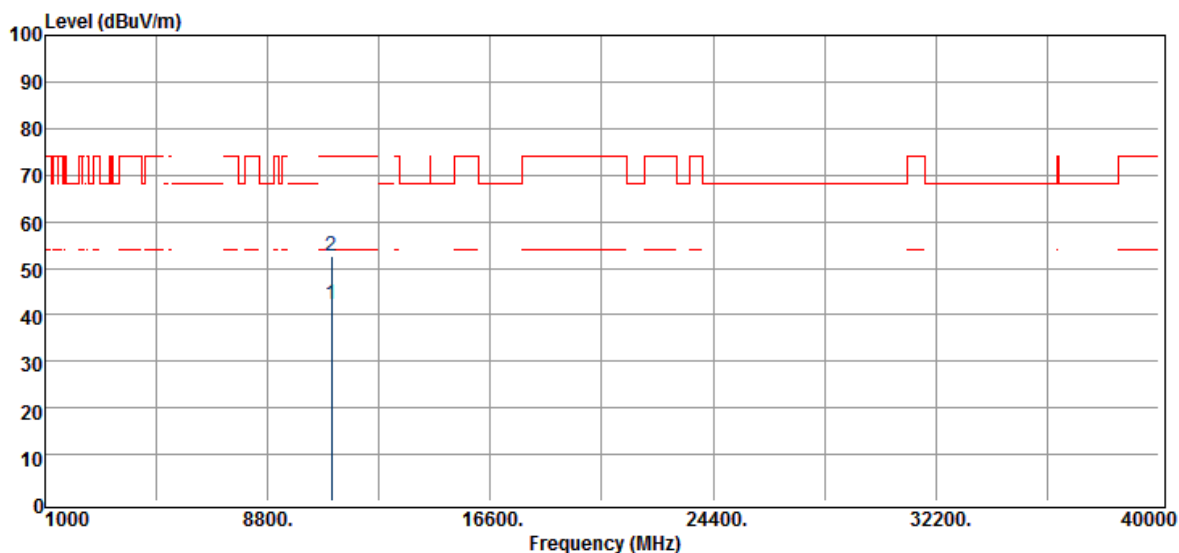
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Project Number : T190321W03
Operation Band : 802.11n40 B2c
Fundamental Frequency : 5510 MHz
Operation Mode : Tx CH LOW
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11020.00	Average	24.37	17.87	42.24	54.00	-11.76
11020.00	Peak	34.69	17.87	52.56	74.00	-21.44

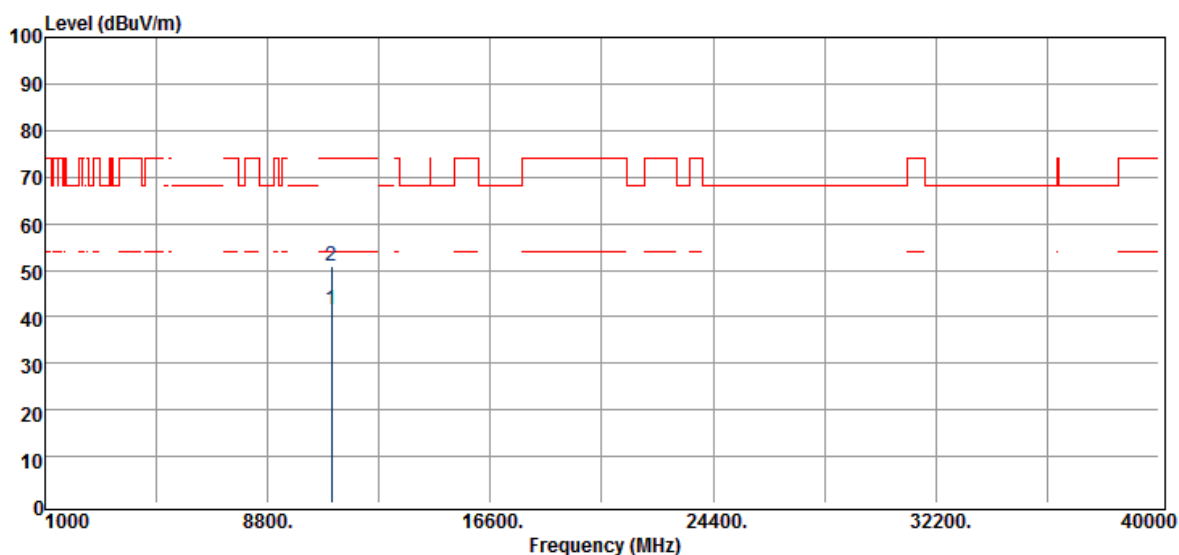
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Project Number : T190321W03
Operation Band : 802.11n40 B2c
Fundamental Frequency : 5510 MHz
Operation Mode : Tx CH LOW
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11020.00	Average	23.50	17.87	41.37	54.00	-12.63
11020.00	Peak	33.12	17.87	50.99	74.00	-23.01

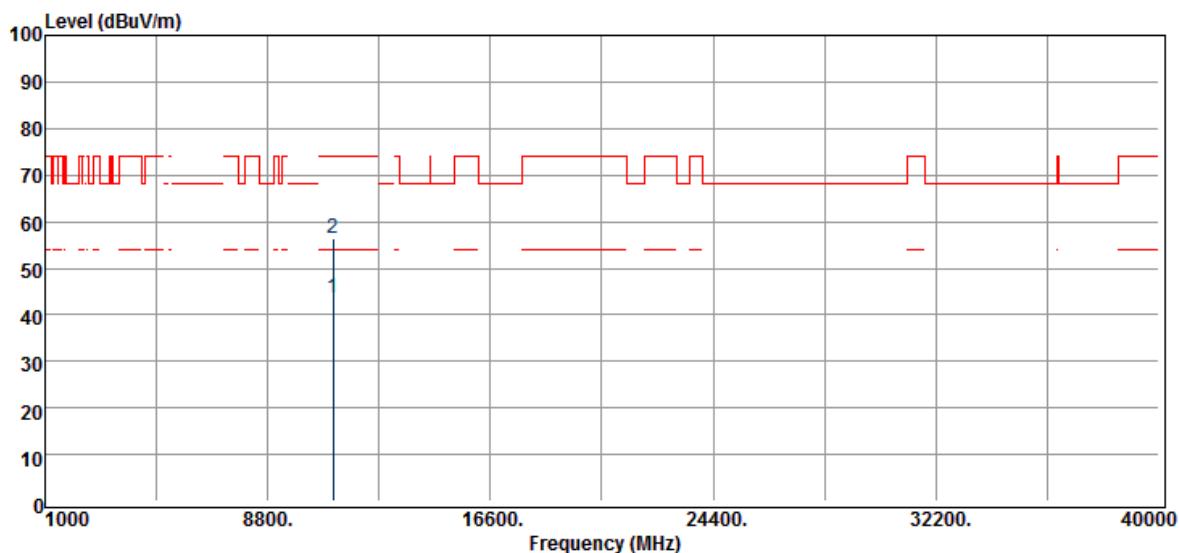
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Project Number : T190321W03
Operation Band : 802.11n40 B2c
Fundamental Frequency : 5550 MHz
Operation Mode : Tx CH MID
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11100.00	Average	26.32	17.25	43.57	54.00	-10.43
11100.00	Peak	39.03	17.25	56.28	74.00	-17.72

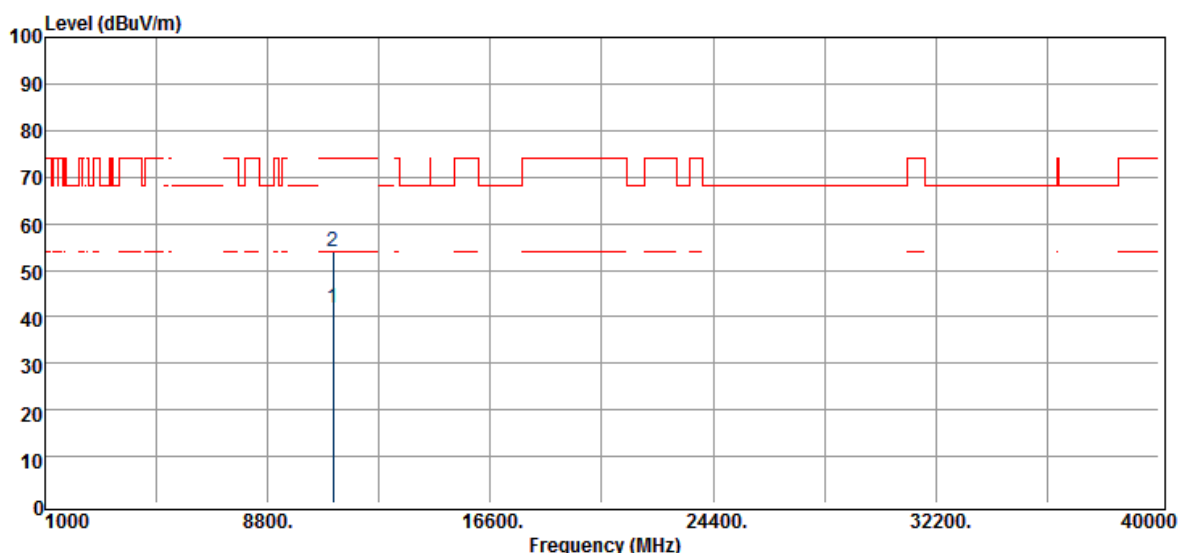
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Project Number : T190321W03
Operation Band : 802.11n40 B2c
Fundamental Frequency : 5550 MHz
Operation Mode : Tx CH MID
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11100.00	Average	24.58	17.25	41.83	54.00	-12.17
11100.00	Peak	36.56	17.25	53.81	74.00	-20.19

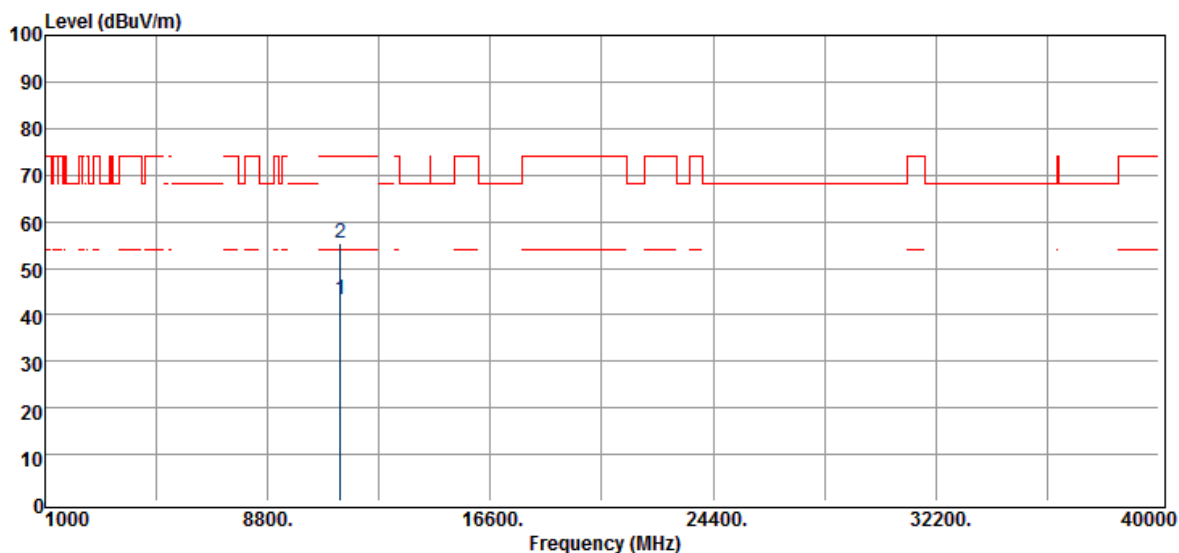
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Project Number : T190321W03
 Operation Band : 802.11n40 B2c
 Fundamental Frequency : 5670 MHz
 Operation Mode : Tx CH HIGH
 EUT Pol. : H Plan

Test Date : 2019-04-09
 Temp./Humi. : 23 deg_C / 62 RH
 Engineer : Jerry
 Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11340.00	Average	26.89	16.36	43.25	54.00	-10.75
11340.00	Peak	39.15	16.36	55.51	74.00	-18.49

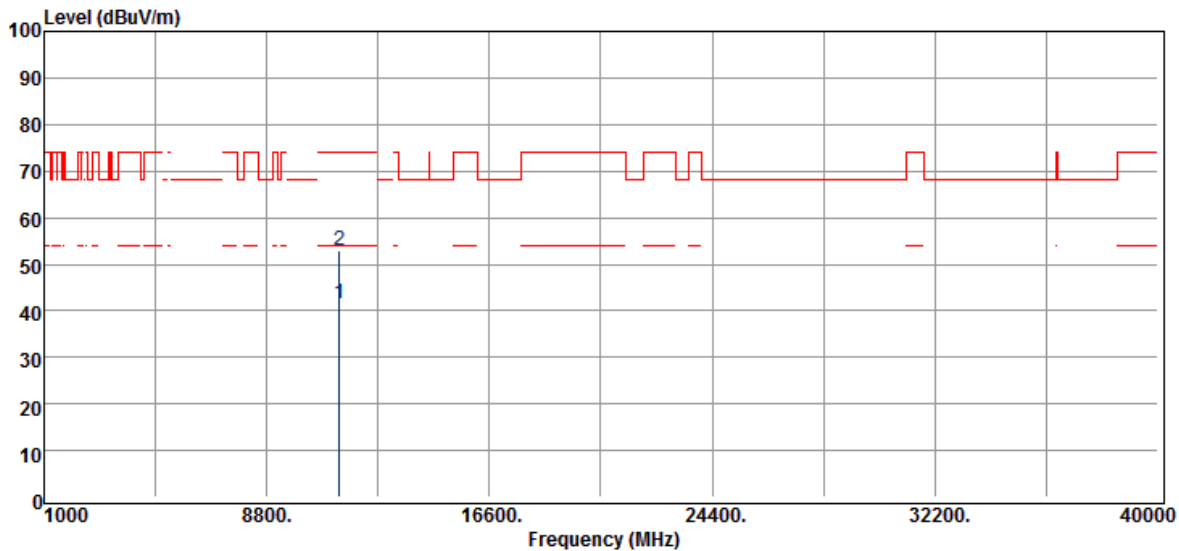
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Project Number : T190321W03
Operation Band :802.11n40 B2c
Fundamental Frequency :5670 MHz
Operation Mode :Tx CH HIGH
EUT Pol. :H Plan

Test Date :2019-04-09
Temp./Humi. :23 deg_C / 62 RH
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11340.00	Average	25.25	16.36	41.61	54.00	-12.39
11340.00	Peak	36.71	16.36	53.07	74.00	-20.93

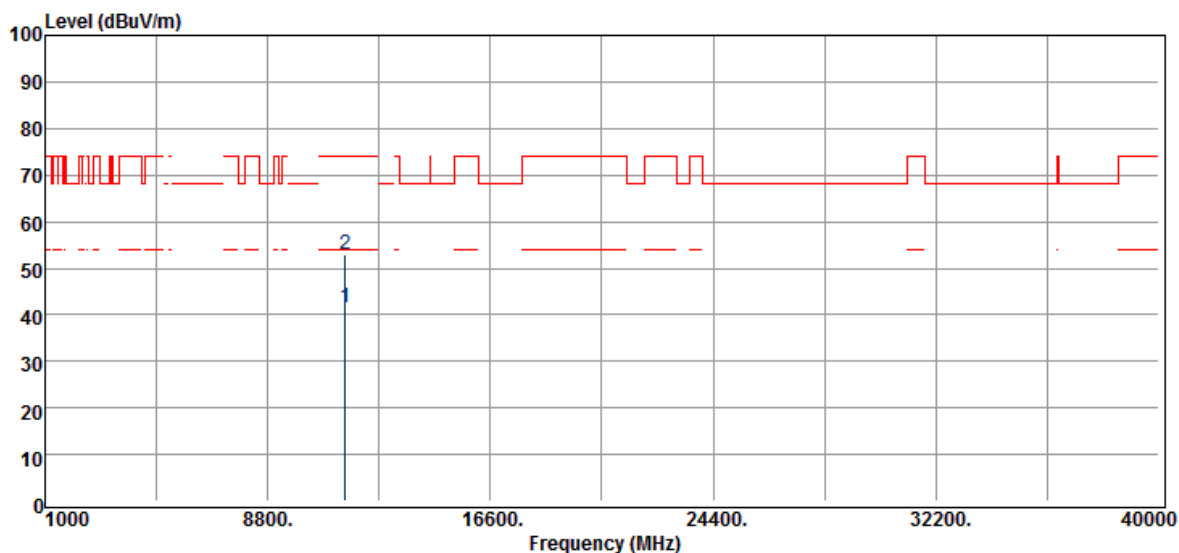
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Project Number : T190321W03
Operation Band : 802.11n40 B3
Fundamental Frequency : 5755 MHz
Operation Mode : Tx CH LOW
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



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	26.27	15.41	41.68	54.00	-12.32
11510.00	Peak	37.51	15.41	52.92	74.00	-21.08

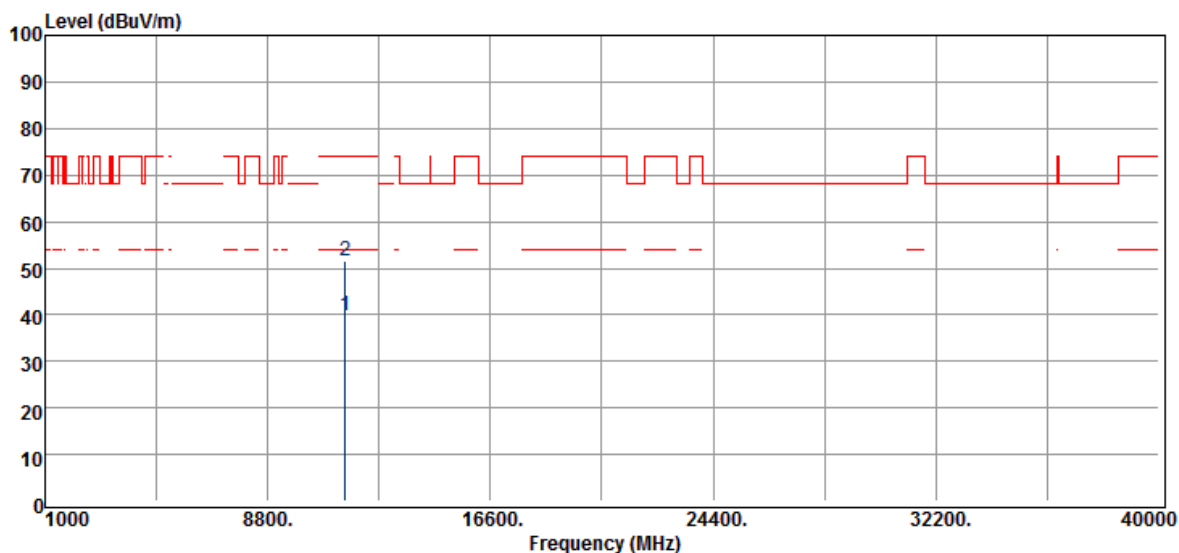
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Project Number : T190321W03
 Operation Band : 802.11n40 B3
 Fundamental Frequency : 5755 MHz
 Operation Mode : Tx CH LOW
 EUT Pol. : H Plan

Test Date : 2019-04-09
 Temp./Humi. : 23 deg_C / 62 RH
 Engineer : Jerry
 Measurement Antenna Pol. : HORIZONTAL



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	24.55	15.41	39.96	54.00	-14.04
11510.00	Peak	36.28	15.41	51.69	74.00	-22.31

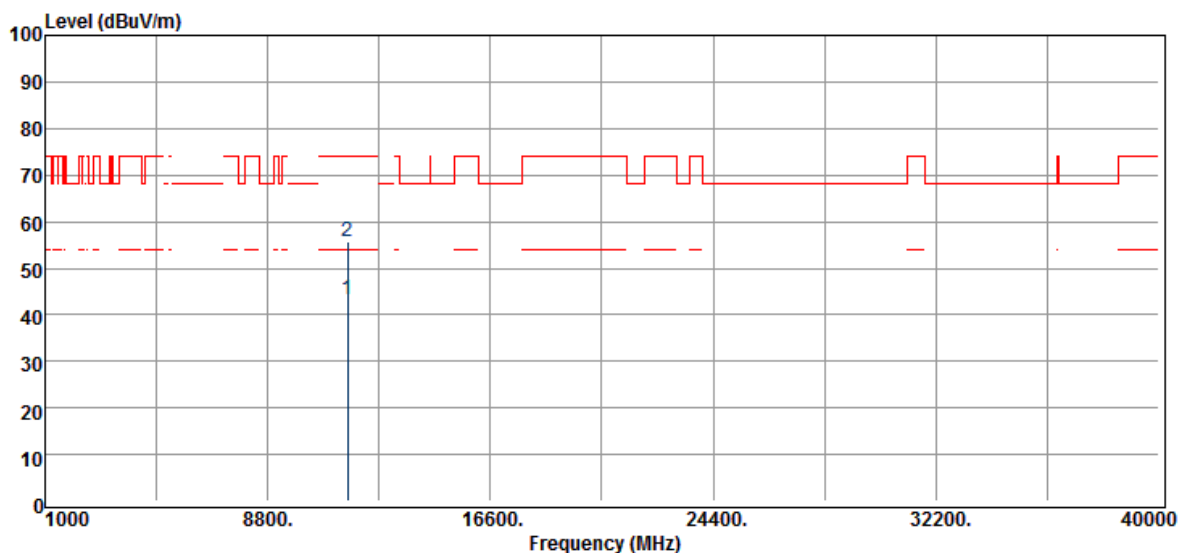
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Project Number : T190321W03
Operation Band : 802.11n40 B3
Fundamental Frequency : 5795 MHz
Operation Mode : Tx CH HIGH
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



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	26.51	16.81	43.32	54.00	-10.68
11590.00	Peak	38.93	16.81	55.74	74.00	-18.26

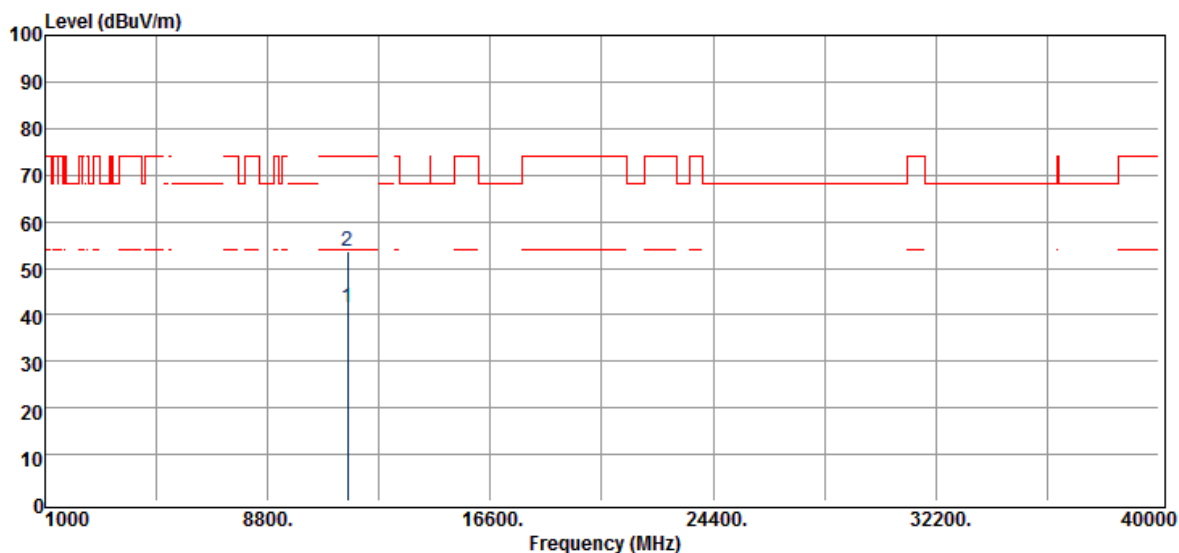
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Project Number : T190321W03
Operation Band :802.11n40 B3
Fundamental Frequency :5795 MHz
Operation Mode :Tx CH HIGH
EUT Pol. :H Plan

Test Date :2019-04-09
Temp./Humi. :23 deg_C / 62 RH
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



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	24.72	16.81	41.53	54.00	-12.47
11590.00	Peak	36.89	16.81	53.70	74.00	-20.30

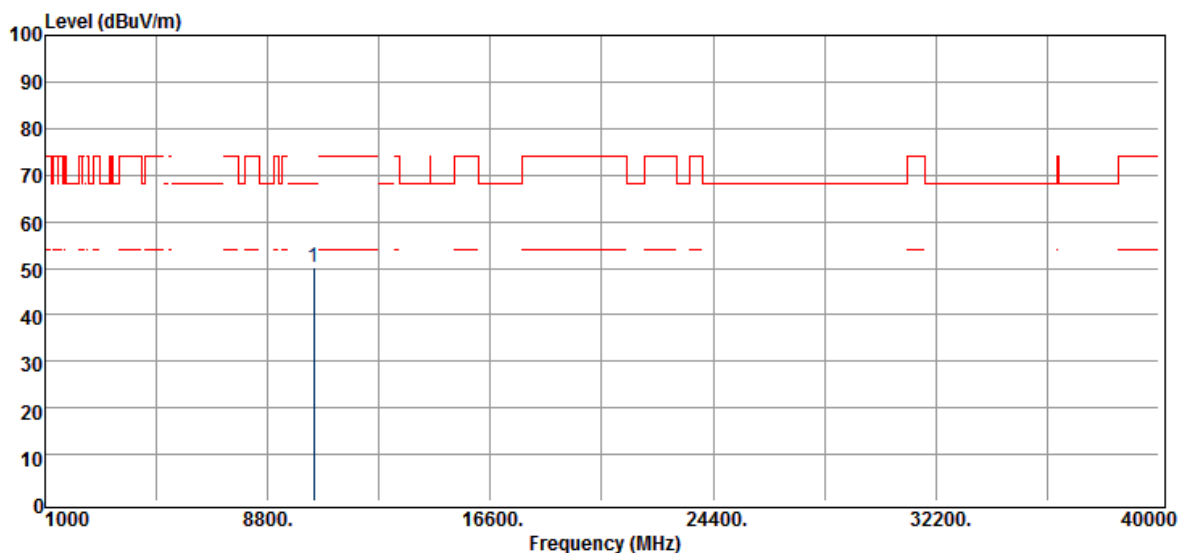
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Project Number : T190321W03
Operation Band : 802.11ac80 B1
Fundamental Frequency : 5210 MHz
Operation Mode : Tx CH LOW
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10420.00	Peak	35.14	15.12	50.26	68.20	-17.94

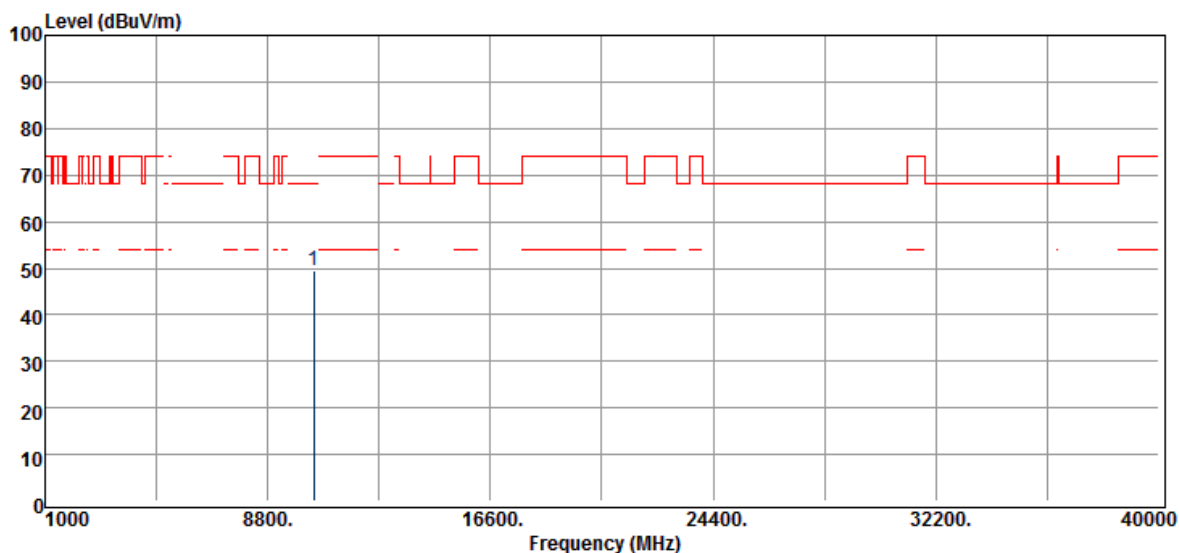
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Project Number : T190321W03
Operation Band : 802.11ac80 B1
Fundamental Frequency : 5210 MHz
Operation Mode : Tx CH LOW
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : HORIZONTAL



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	34.22	15.12	49.34	68.20	-18.86

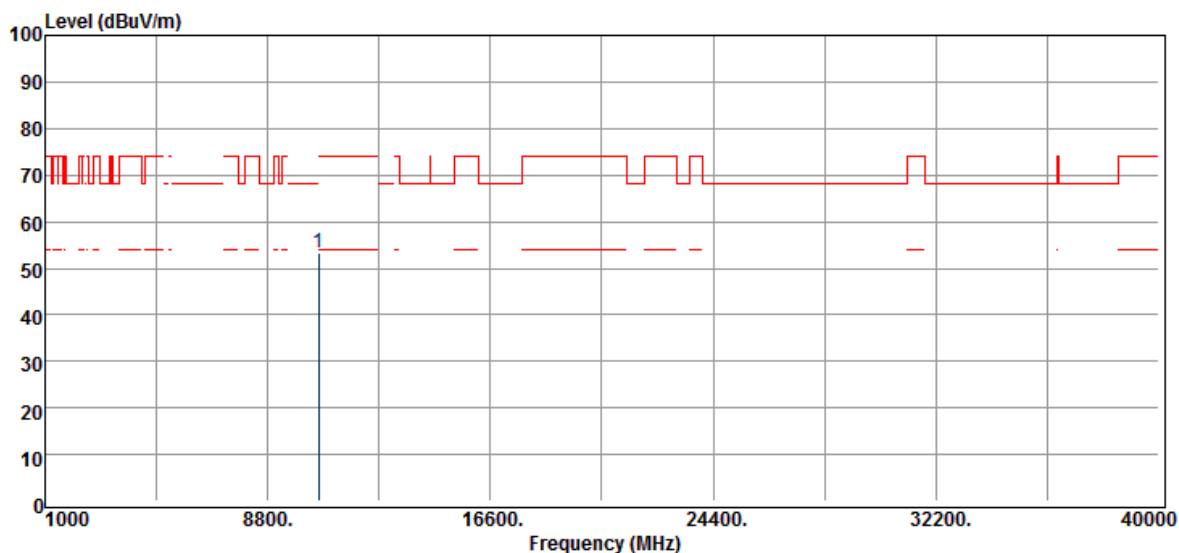
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Project Number : T190321W03
Operation Band : 802.11ac80 B2a
Fundamental Frequency : 5290 MHz
Operation Mode : Tx CH HIGH
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10580.00	Peak	37.76	15.43	53.19	68.20	-15.01

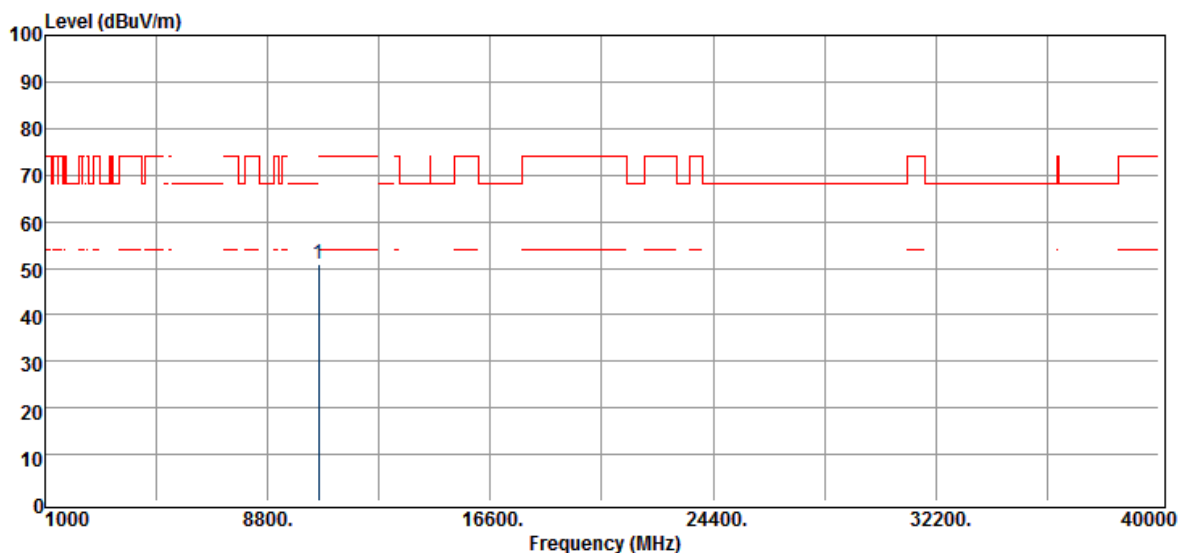
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Project Number : T190321W03
Operation Band : 802.11ac80 B2a
Fundamental Frequency : 5290 MHz
Operation Mode : Tx CH HIGH
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10580.00	Peak	35.56	15.43	50.99	68.20	-17.21

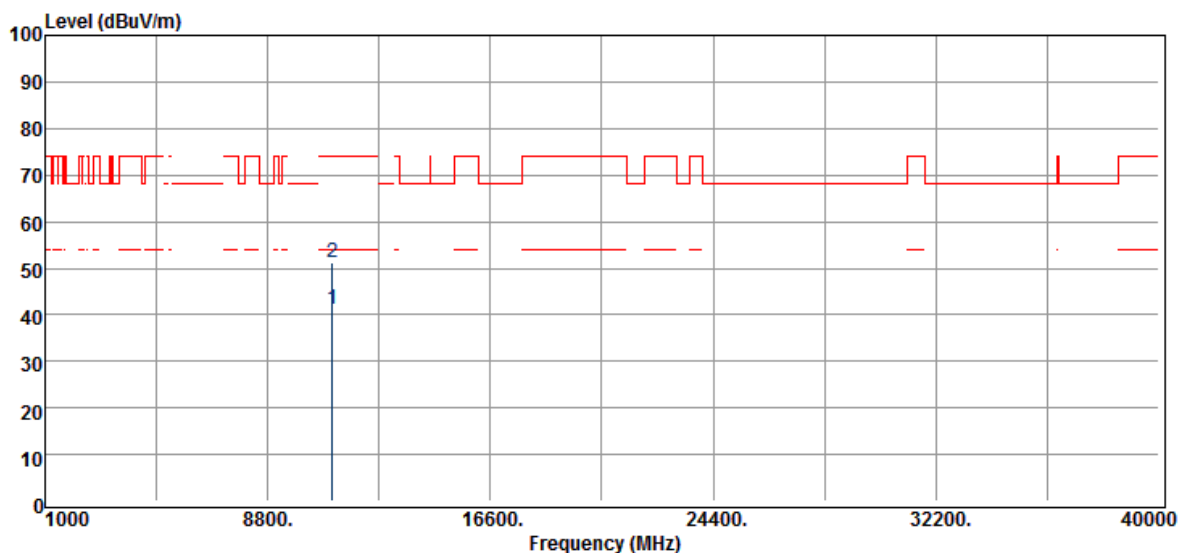
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Project Number : T190321W03
Operation Band : 802.11ac80 B2c
Fundamental Frequency : 5530 MHz
Operation Mode : Tx CH LOW
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11060.00	Average	23.52	17.50	41.02	54.00	-12.98
11060.00	Peak	33.75	17.50	51.25	74.00	-22.75

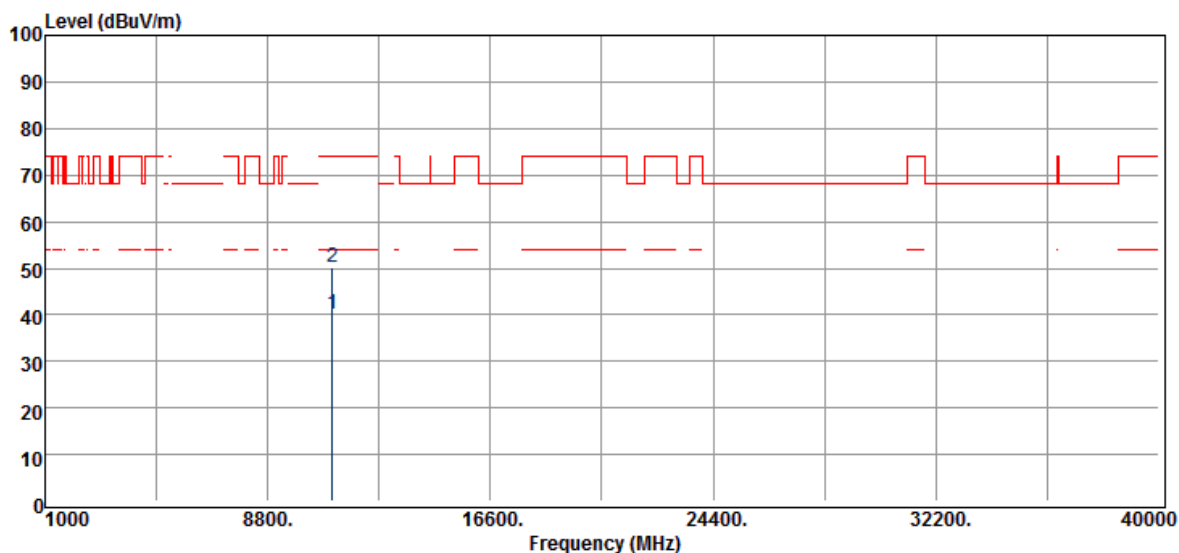
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Project Number : T190321W03
Operation Band : 802.11ac80 B2c
Fundamental Frequency : 5530 MHz
Operation Mode : Tx CH LOW
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11060.00	Average	22.79	17.50	40.29	54.00	-13.71
11060.00	Peak	32.72	17.50	50.22	74.00	-23.78

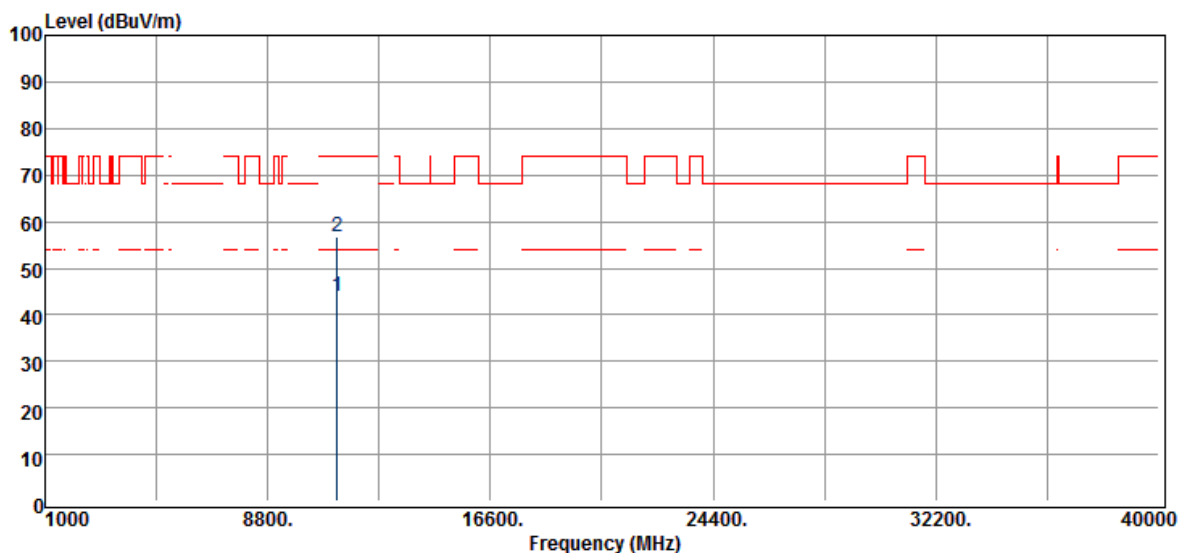
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Project Number : T190321W03
Operation Band : 802.11ac80 B2c
Fundamental Frequency : 5610 MHz
Operation Mode : Tx CH MID
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11220.00	Average	27.59	16.53	44.12	54.00	-9.88
11220.00	Peak	40.12	16.53	56.65	74.00	-17.35

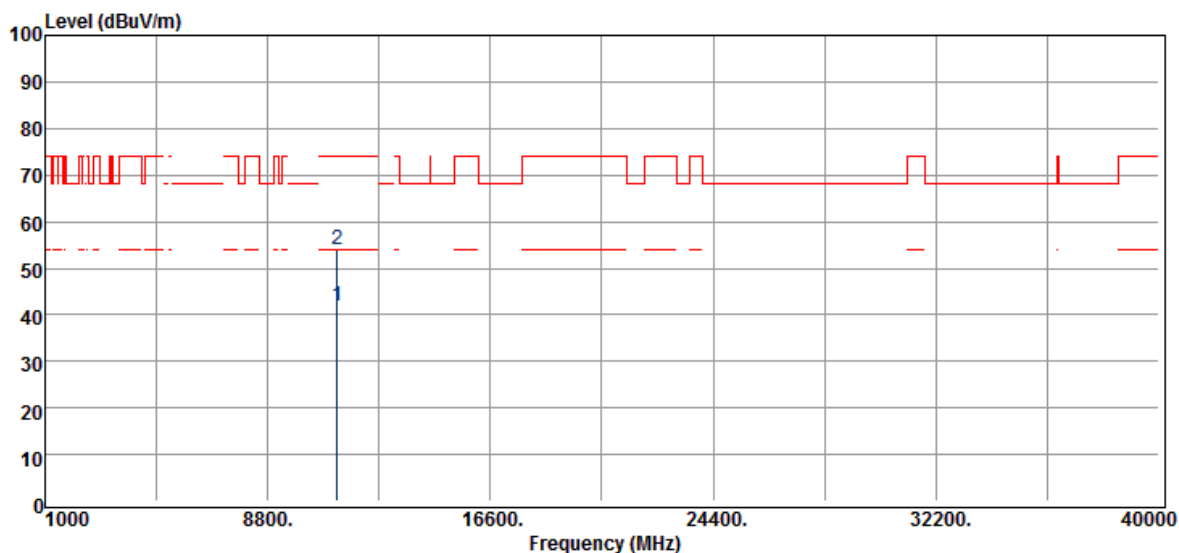
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Project Number : T190321W03
Operation Band : 802.11ac80 B2c
Fundamental Frequency : 5610 MHz
Operation Mode : Tx CH MID
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11220.00	Average	25.38	16.53	41.91	54.00	-12.09
11220.00	Peak	37.51	16.53	54.04	74.00	-19.96

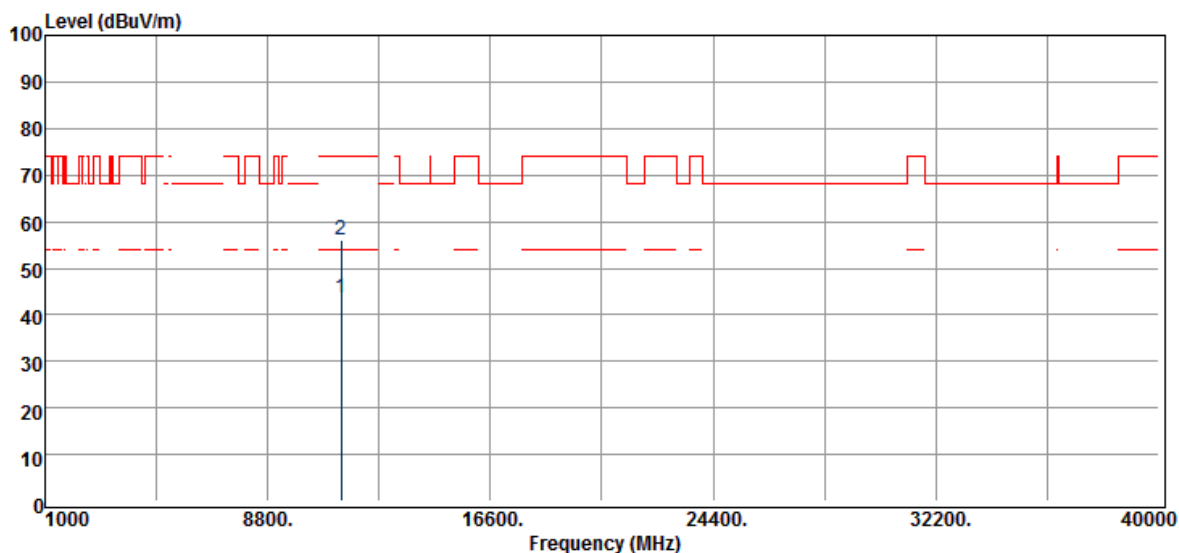
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Project Number : T190321W03
Operation Band :802.11ac80 B2c
Fundamental Frequency :5690 MHz
Operation Mode :Tx CH HIGH
EUT Pol. :H Plan

Test Date :2019-04-09
Temp./Humi. :23 deg_C / 62 RH
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



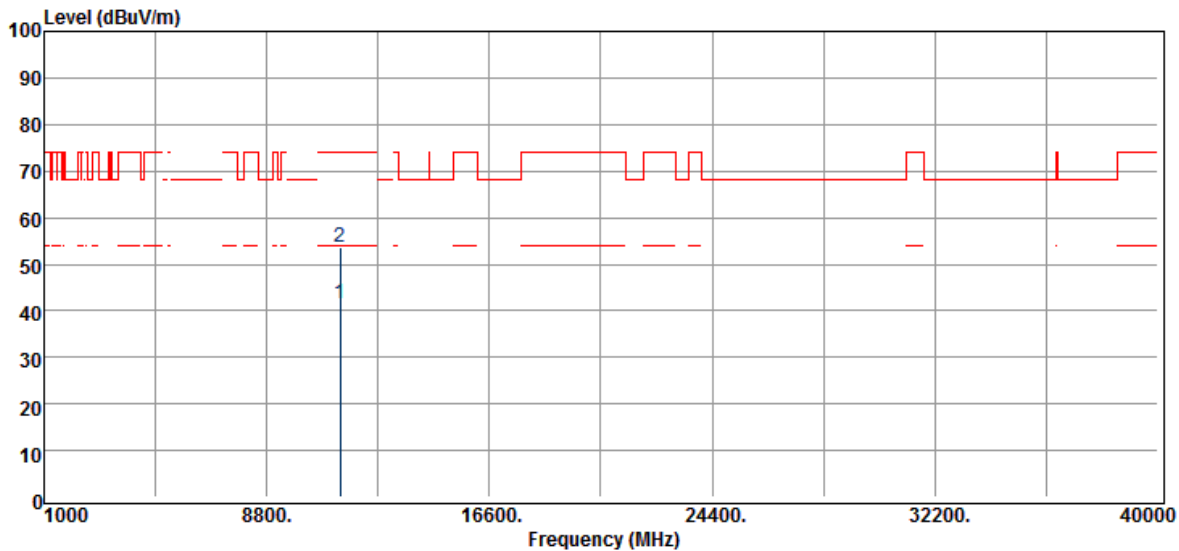
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11380.00	Average	27.25	16.48	43.73	54.00	-10.27
11380.00	Peak	39.63	16.48	56.11	74.00	-17.89

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Project Number	: T190321W03	Test Date	:2019-04-09
Operation Band	:802.11ac80 B2c	Temp./Humi.	:23 deg_C / 62 RH
Fundamental Frequency	:5690 MHz	Engineer	:Jerry
Operation Mode	:Tx CH HIGH	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:H Plan		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11380.00	Average	25.12	16.48	41.60	54.00	-12.40
11380.00	Peak	37.21	16.48	53.69	74.00	-20.31

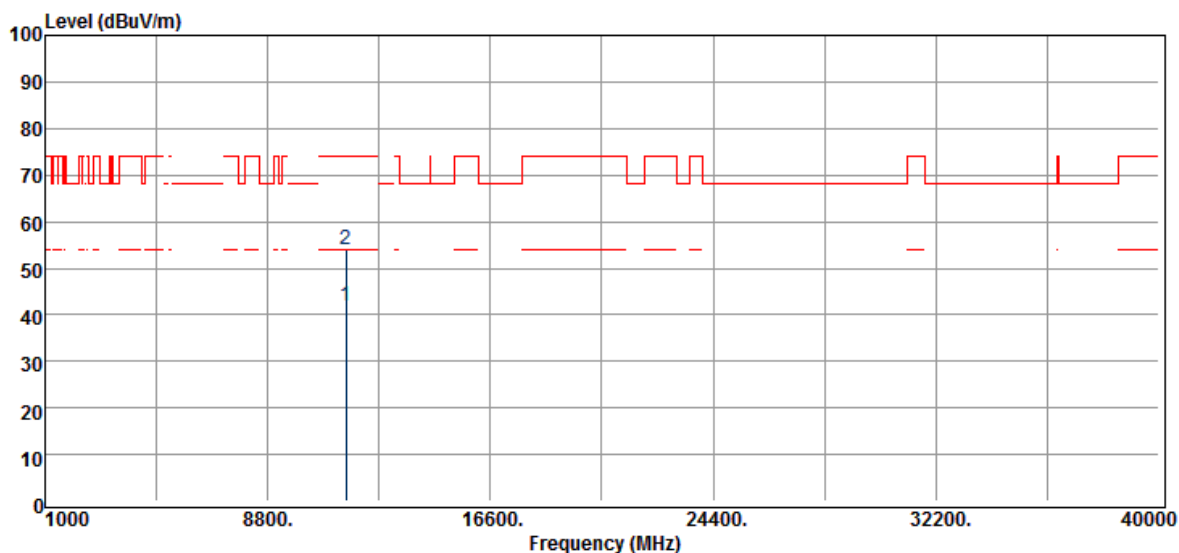
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Project Number : T190321W03
Operation Band : 802.11ac80 B3
Fundamental Frequency : 5775 MHz
Operation Mode : Tx CH LOW
EUT Pol. : H Plan

Test Date : 2019-04-09
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



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	26.13	15.82	41.95	54.00	-12.05
11550.00	Peak	38.15	15.82	53.97	74.00	-20.03

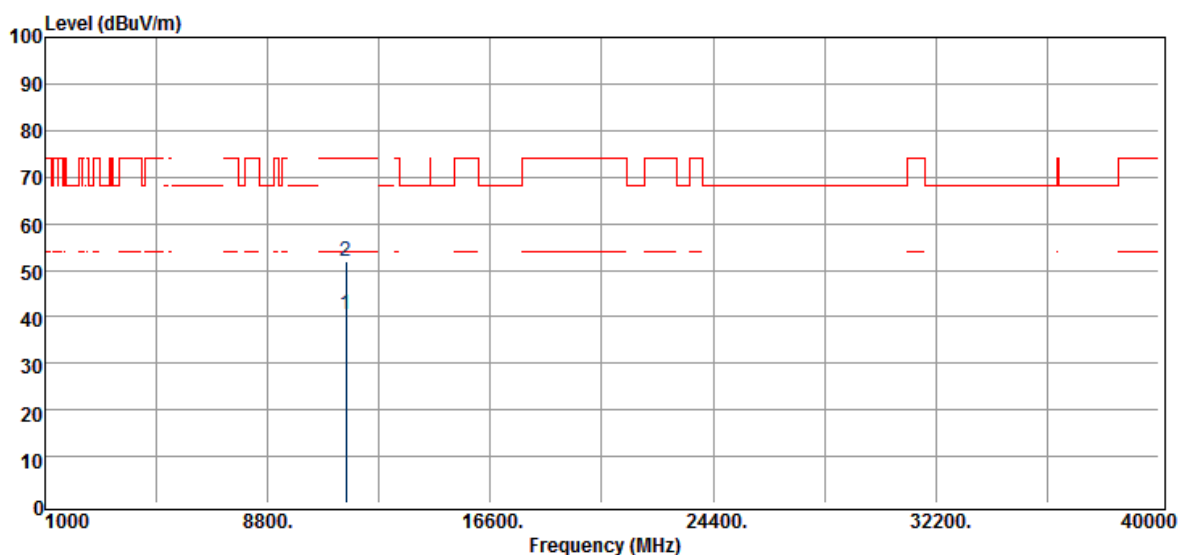
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Project Number : T190321W03
 Operation Band : 802.11ac80 B3
 Fundamental Frequency : 5775 MHz
 Operation Mode : Tx CH LOW
 EUT Pol. : H Plan

Test Date : 2019-04-09
 Temp./Humi. : 23 deg_C / 62 RH
 Engineer : Jerry
 Measurement Antenna Pol. : HORIZONTAL



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	24.52	15.82	40.34	54.00	-13.66
11550.00	Peak	36.22	15.82	52.04	74.00	-21.96

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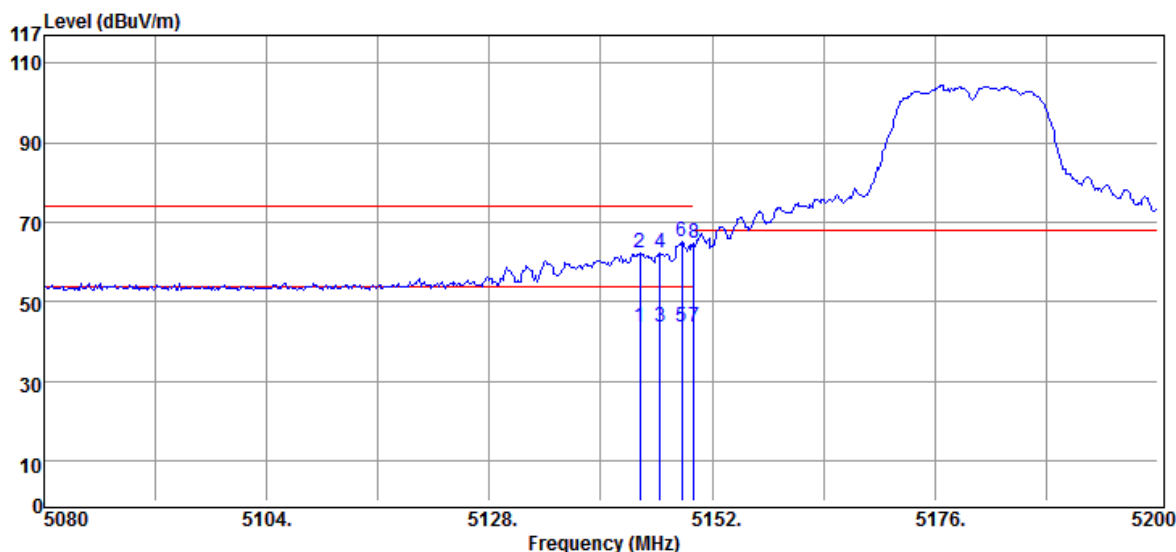
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Band edge falling to restricted band

PCB Antenna

Project Number : T190321W03
Operation Band : 802.11a B1
Fundamental Frequency : 5180 MHz
Operation Mode : Bandedge CH LOW
EUT Pol. : H Plane

Test Date : 2019-04-02
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5144.20	Average	38.97	4.55	43.52	54.00	-10.48
5144.20	Peak	57.90	4.55	62.45	74.00	-11.55
5146.36	Average	39.05	4.55	43.60	54.00	-10.40
5146.36	Peak	57.62	4.55	62.17	74.00	-11.83
5148.76	Average	39.24	4.54	43.78	54.00	-10.22
5148.76	Peak	60.47	4.54	65.01	74.00	-8.99
5150.00	Average	39.34	4.55	43.89	54.00	-10.11
5150.00	Peak	60.04	4.55	64.59	74.00	-9.41

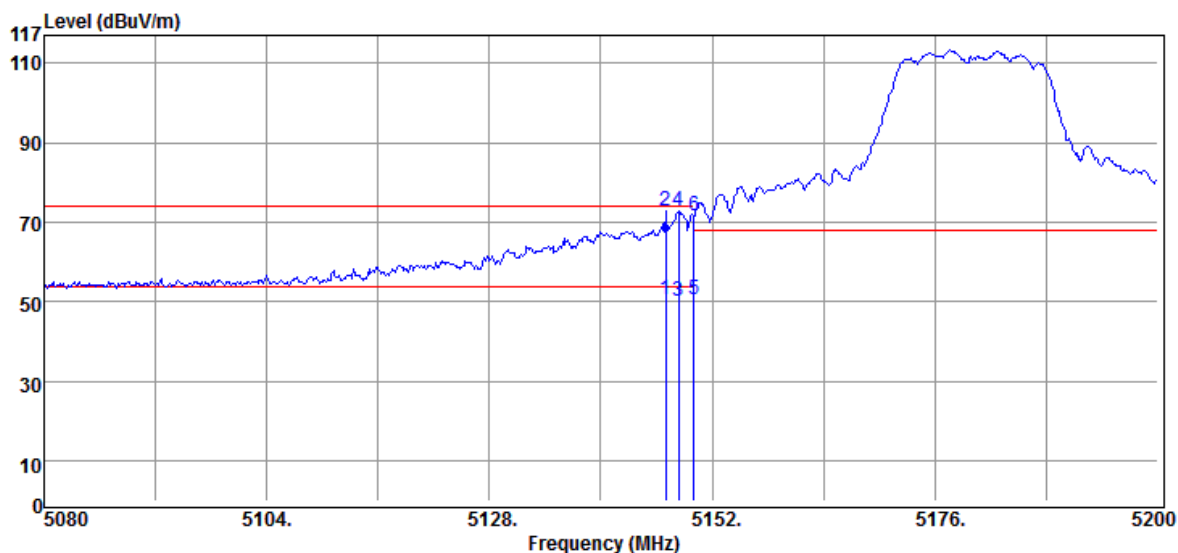
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Project Number : T190321W03
Operation Band : 802.11a B1
Fundamental Frequency : 5180 MHz
Operation Mode : Bandedge CH LOW
EUT Pol. : H Plane

Test Date : 2019-04-02
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5146.96	Average	46.13	4.54	50.67	54.00	-3.33
5146.96	Peak	68.38	4.54	72.92	74.00	-1.08
5148.40	Average	45.77	4.55	50.32	54.00	-3.68
5148.40	Peak	68.35	4.55	72.90	74.00	-1.10
5150.00	Average	46.22	4.55	50.77	54.00	-3.23
5150.00	Peak	66.97	4.55	71.52	74.00	-2.48

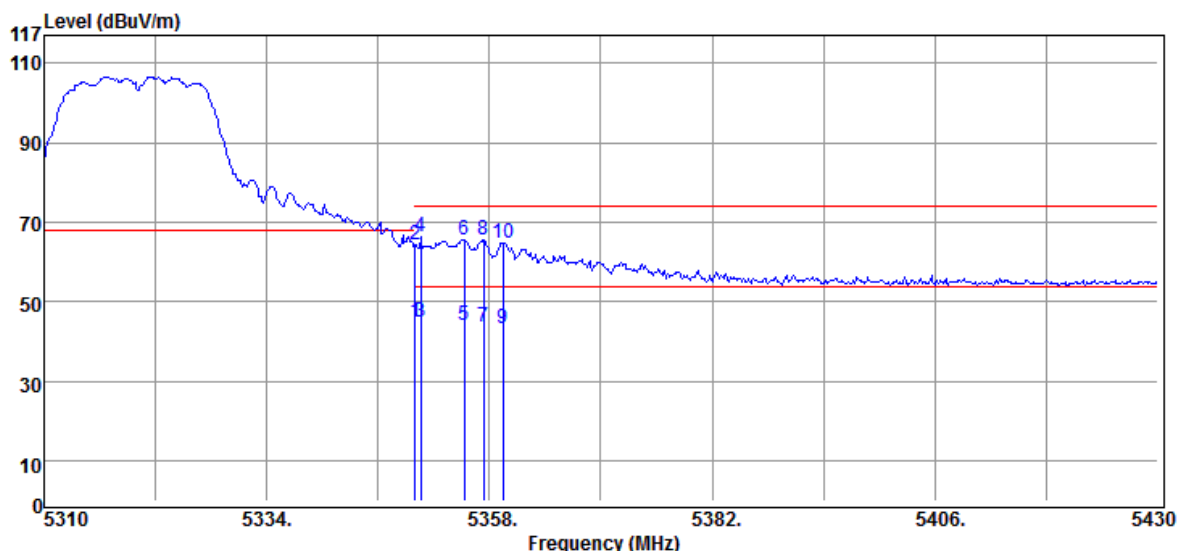
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Project Number : T190321W03
 Operation Band :802.11a B2a
 Fundamental Frequency :5320 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :H Plane

Test Date :2019-04-02
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Jerry
 Measurement Antenna Pol. :VERTICAL



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	39.75	5.19	44.94	54.00	-9.06
5350.00	Peak	59.23	5.19	64.42	74.00	-9.58
5350.56	Average	39.65	5.20	44.85	54.00	-9.15
5350.56	Peak	61.39	5.20	66.59	74.00	-7.41
5355.24	Average	38.76	5.21	43.97	54.00	-10.03
5355.24	Peak	60.56	5.21	65.77	74.00	-8.23
5357.40	Average	38.69	5.21	43.90	54.00	-10.10
5357.40	Peak	60.34	5.21	65.55	74.00	-8.45
5359.44	Average	38.12	5.22	43.34	54.00	-10.66
5359.44	Peak	59.60	5.22	64.82	74.00	-9.18

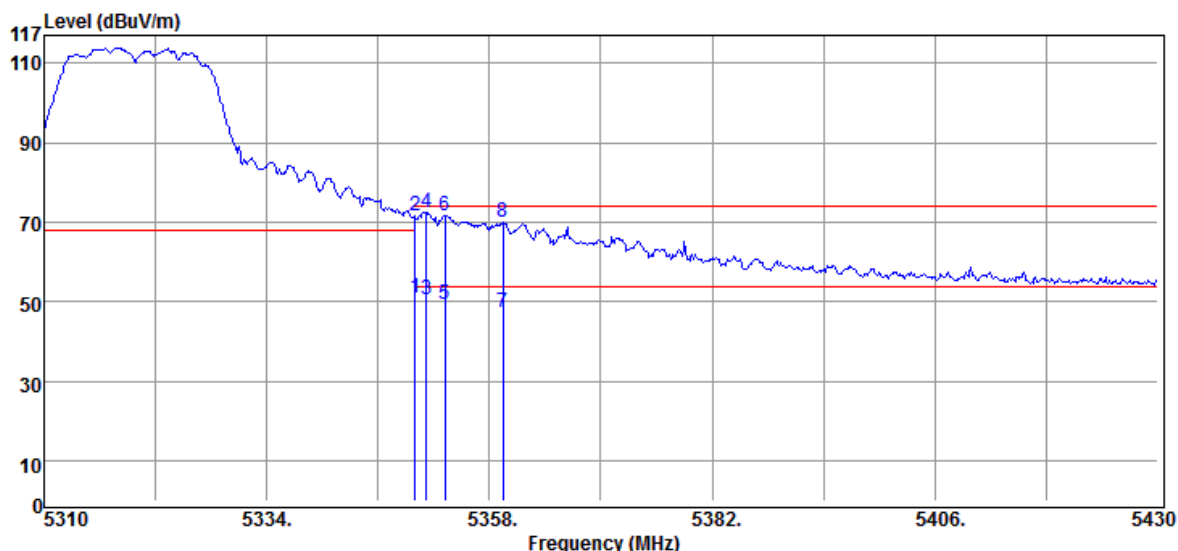
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Project Number : T190321W03
 Operation Band :802.11a B2a
 Fundamental Frequency :5320 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :H Plane

Test Date :2019-04-02
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Jerry
 Measurement Antenna Pol. :HORIZONTAL



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	45.83	5.19	51.02	54.00	-2.98
5350.00	Peak	66.40	5.19	71.59	74.00	-2.41
5351.16	Average	45.22	5.20	50.42	54.00	-3.58
5351.16	Peak	67.43	5.20	72.63	74.00	-1.37
5353.20	Average	44.27	5.20	49.47	54.00	-4.53
5353.20	Peak	66.45	5.20	71.65	74.00	-2.35
5359.44	Average	42.00	5.22	47.22	54.00	-6.78
5359.44	Peak	64.72	5.22	69.94	74.00	-4.06

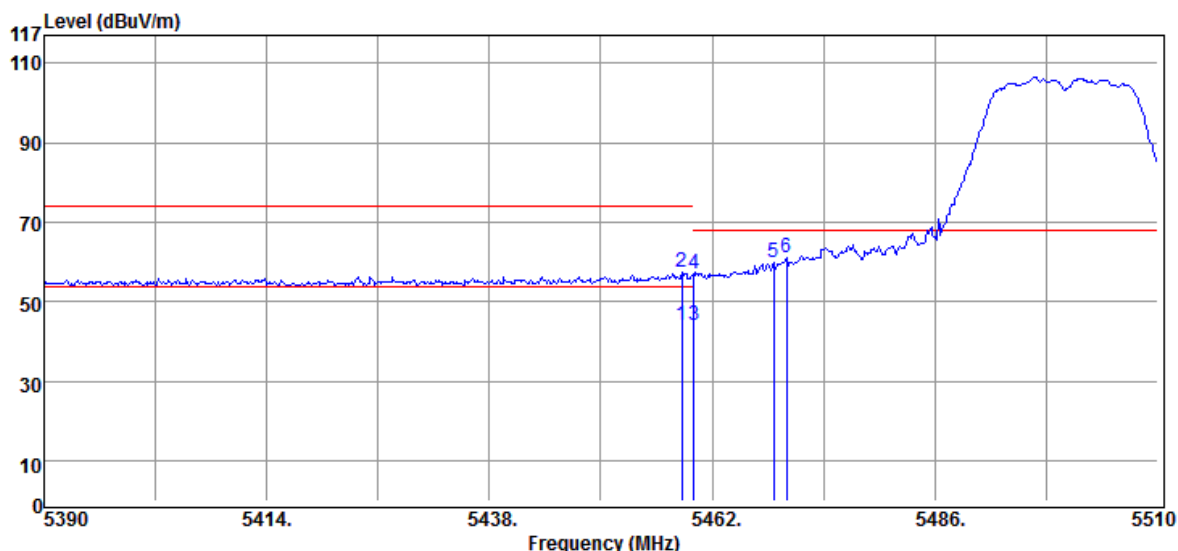
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Project Number : T190321W03
Operation Band :802.11a B2c
Fundamental Frequency :5500 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :H Plane

Test Date :2019-04-02
Temp./Humi. :23 deg_C / 62 RH
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5458.76	Average	38.58	5.55	44.13	54.00	-9.87
5458.76	Peak	51.90	5.55	57.45	74.00	-16.55
5460.00	Average	38.66	5.54	44.20	54.00	-9.80
5460.00	Peak	51.55	5.54	57.09	74.00	-16.91
5468.60	Peak	54.57	5.52	60.09	68.20	-8.11
5470.00	Peak	55.53	5.52	61.05	68.20	-7.15

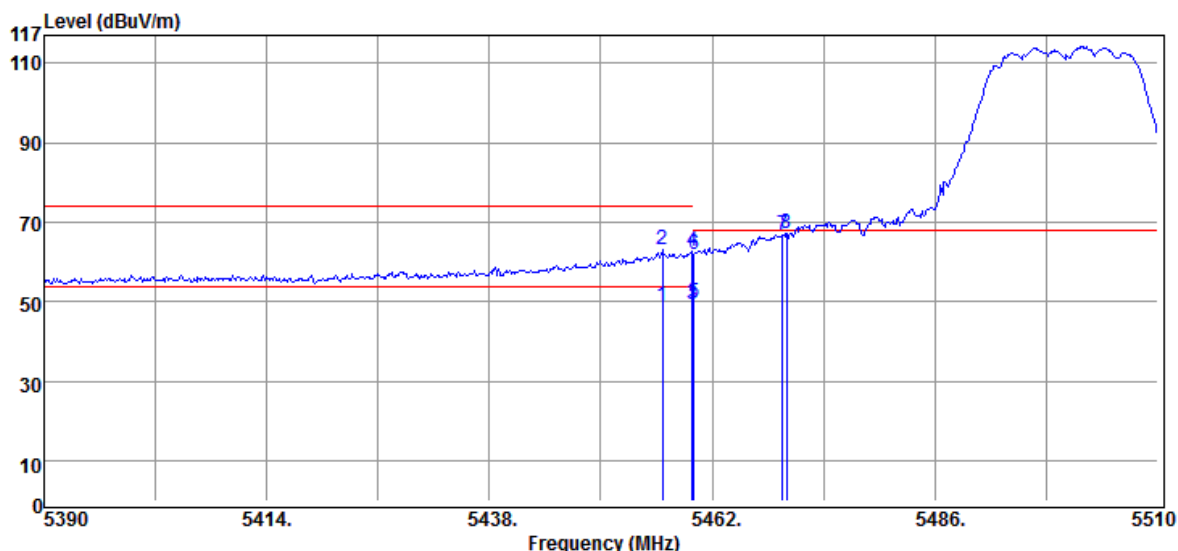
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Project Number : T190321W03
Operation Band :802.11a B2c
Fundamental Frequency :5500 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :H Plane

Test Date :2019-04-02
Temp./Humi. :23 deg_C / 62 RH
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5456.60	Average	43.53	5.55	49.08	54.00	-4.92
5456.60	Peak	57.52	5.55	63.07	74.00	-10.93
5459.84	Average	43.99	5.54	49.53	54.00	-4.47
5459.84	Peak	57.27	5.54	62.81	74.00	-11.19
5460.00	Average	44.08	5.54	49.62	54.00	-4.38
5460.00	Peak	56.59	5.54	62.13	74.00	-11.87
5469.56	Peak	61.44	5.52	66.96	68.20	-1.24
5470.00	Peak	61.66	5.52	67.18	68.20	-1.02

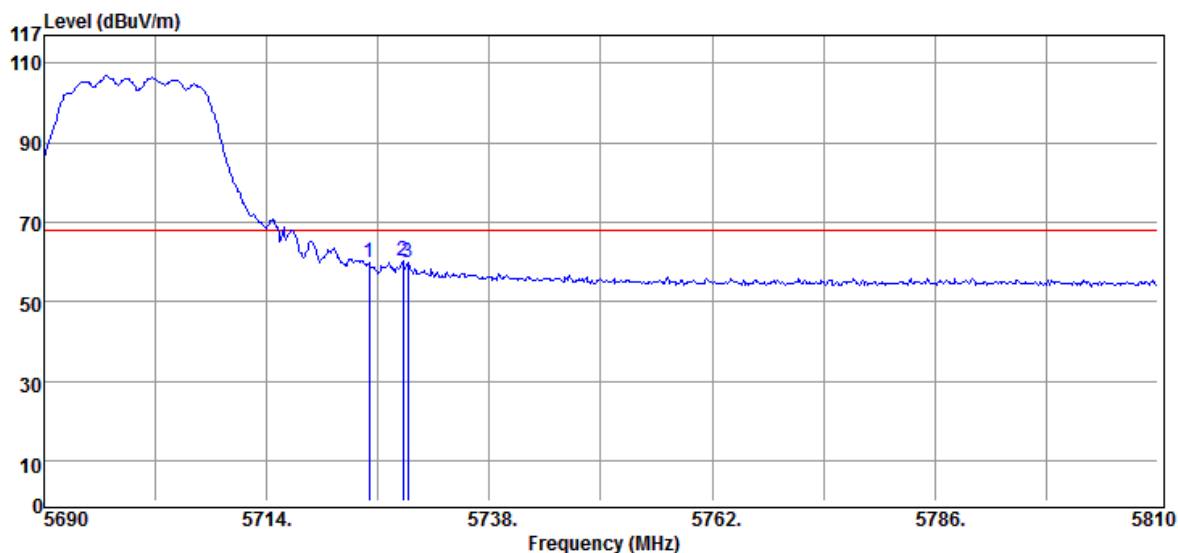
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Project Number : T190321W03
Operation Band :802.11a B2c
Fundamental Frequency :5700 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :H Plane

Test Date :2019-04-02
Temp./Humi. :23 deg_C / 62 RH
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



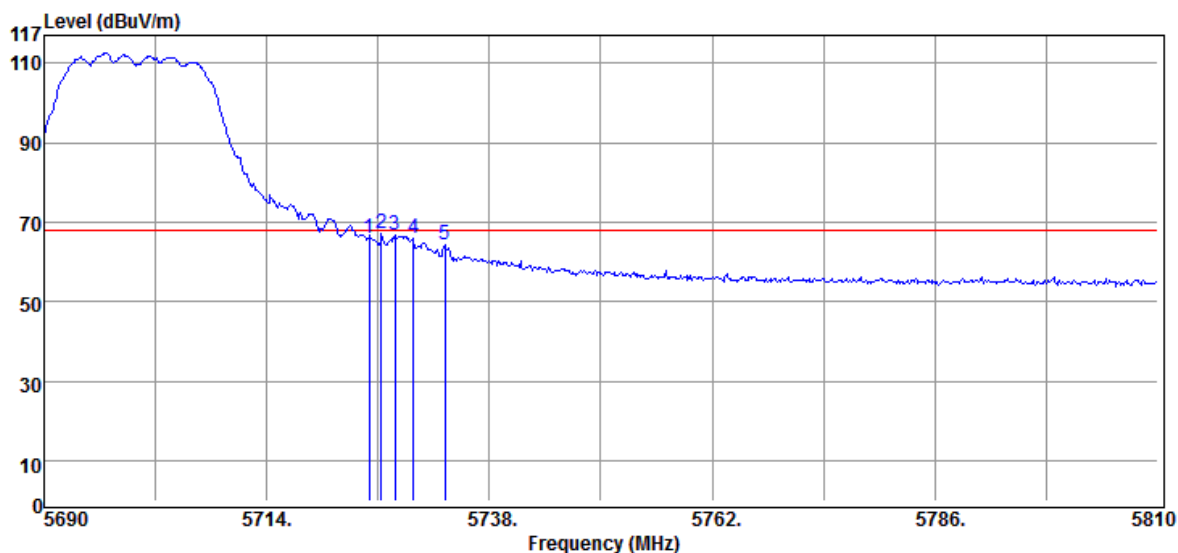
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.00	Peak	53.24	6.55	59.79	68.20	-8.41
5728.64	Peak	53.61	6.54	60.15	68.20	-8.05
5729.24	Peak	53.45	6.53	59.98	68.20	-8.22

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Project Number	: T190321W03	Test Date	:2019-04-02
Operation Band	:802.11a B2c	Temp./Humi.	:23 deg_C / 62 RH
Fundamental Frequency	:5700 MHz	Engineer	:Jerry
Operation Mode	:Bandedge CH HIGH	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:H Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.04	Peak	59.63	6.55	66.18	68.20	-2.02
5726.36	Peak	60.48	6.54	67.02	68.20	-1.18
5727.80	Peak	60.46	6.54	67.00	68.20	-1.20
5729.84	Peak	59.59	6.53	66.12	68.20	-2.08
5733.20	Peak	57.64	6.53	64.17	68.20	-4.03

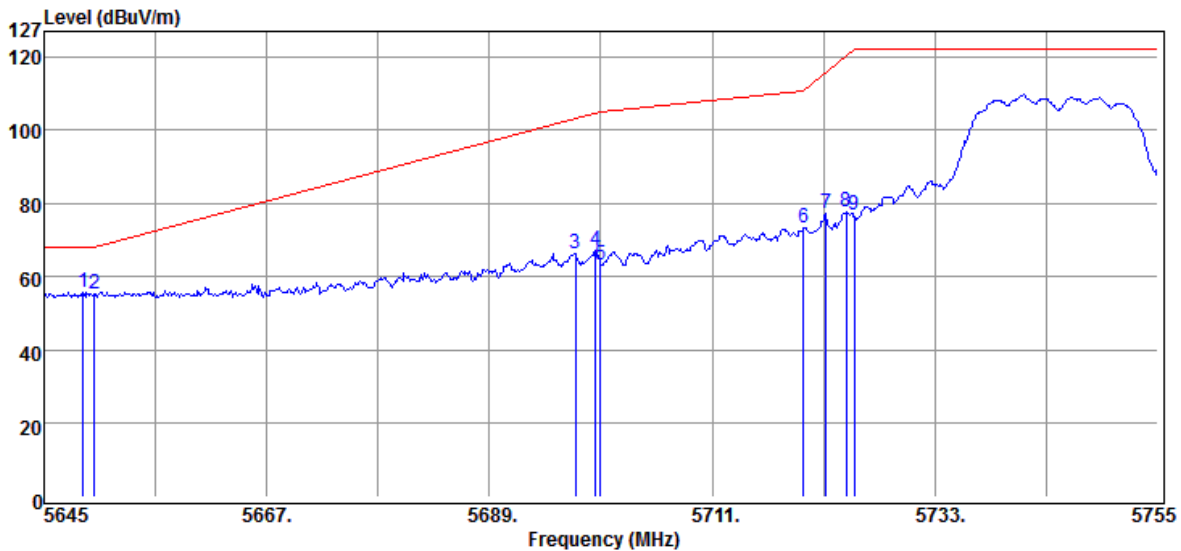
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Project Number : T190321W03
Operation Band :802.11a B3
Fundamental Frequency :5745 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :H Plane

Test Date :2019-04-02
Temp./Humi. :23 deg_C / 62 RH
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5648.85	Peak	49.81	5.89	55.70	68.23	-12.53
5650.00	Peak	49.32	5.91	55.23	68.23	-13.00
5697.47	Peak	60.17	6.40	66.57	103.36	-36.79
5699.45	Peak	60.63	6.43	67.06	104.82	-37.76
5700.00	Peak	56.97	6.43	63.40	105.23	-41.83
5720.00	Peak	66.66	6.55	73.21	110.83	-37.62
5722.22	Peak	70.69	6.54	77.23	115.89	-38.66
5724.20	Peak	71.14	6.55	77.69	120.41	-42.72
5725.00	Peak	70.33	6.55	76.88	122.23	-45.35

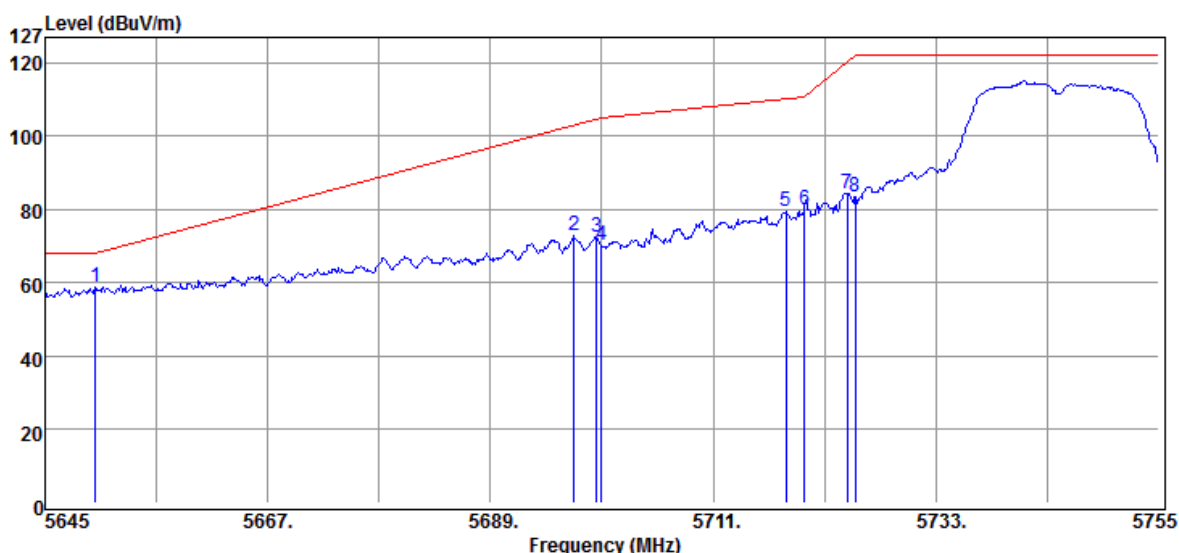
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Project Number : T190321W03
Operation Band :802.11a B3
Fundamental Frequency :5745 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :H Plane

Test Date :2019-04-02
Temp./Humi. :23 deg_C / 62 RH
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



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	52.93	5.91	58.84	68.23	-9.39
5697.25	Peak	66.40	6.40	72.80	103.19	-30.39
5699.45	Peak	65.95	6.43	72.38	104.82	-32.44
5700.00	Peak	63.76	6.43	70.19	105.23	-35.04
5718.15	Peak	73.05	6.54	79.59	110.31	-30.72
5720.00	Peak	73.45	6.55	80.00	110.83	-30.83
5724.20	Peak	78.03	6.55	84.58	120.41	-35.83
5725.00	Peak	76.88	6.55	83.43	122.23	-38.80

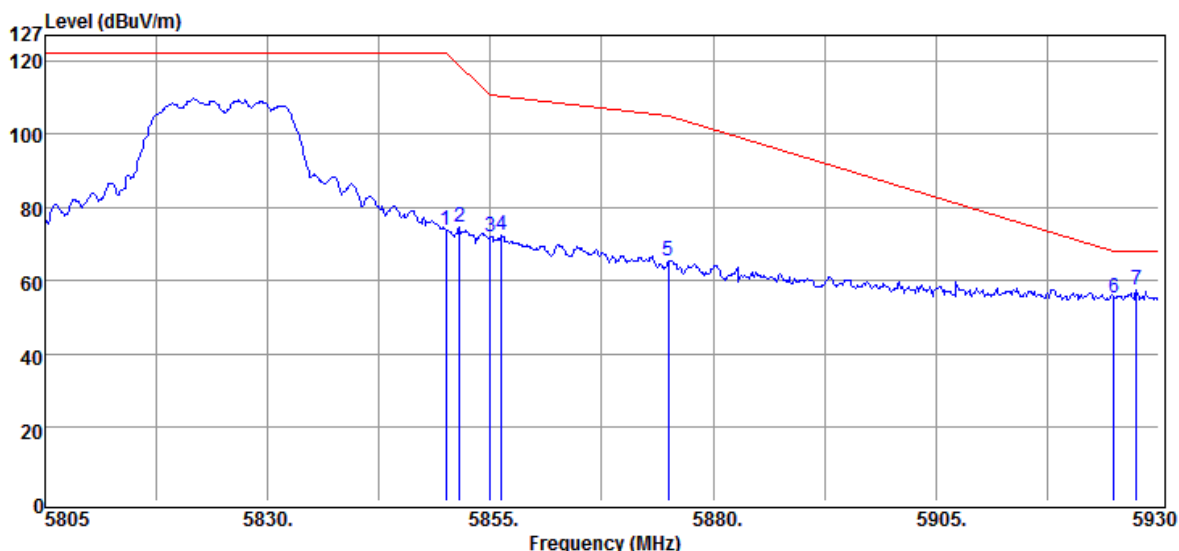
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Project Number : T190321W03
Operation Band :802.11a B3
Fundamental Frequency :5825 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :H Plane

Test Date :2019-04-02
Temp./Humi. :23 deg_C / 62 RH
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



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	67.54	6.41	73.95	122.23	-48.28
5851.50	Peak	68.19	6.42	74.61	118.81	-44.20
5855.00	Peak	65.48	6.43	71.91	110.83	-38.92
5856.25	Peak	66.23	6.43	72.66	110.48	-37.82
5875.00	Peak	59.14	6.49	65.63	105.23	-39.60
5925.00	Peak	48.77	6.44	55.21	68.23	-13.02
5927.50	Peak	51.07	6.46	57.53	68.23	-10.70

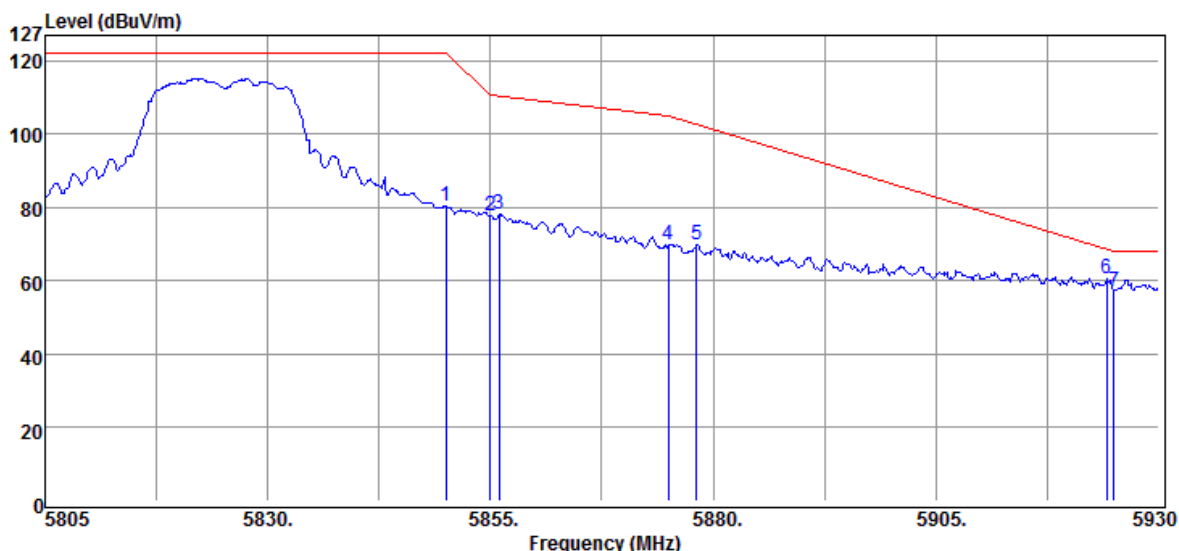
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Project Number : T190321W03
 Operation Band :802.11a B3
 Fundamental Frequency :5825 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :H Plane

Test Date :2019-04-02
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Jerry
 Measurement Antenna Pol. :HORIZONTAL



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	73.80	6.41	80.21	122.23	-42.02
5855.00	Peak	71.27	6.43	77.70	110.83	-33.13
5856.00	Peak	71.93	6.43	78.36	110.55	-32.19
5875.00	Peak	63.20	6.49	69.69	105.23	-35.54
5878.13	Peak	63.44	6.51	69.95	102.92	-32.97
5924.13	Peak	54.07	6.43	60.50	68.88	-8.38
5925.00	Peak	50.87	6.44	57.31	68.23	-10.92

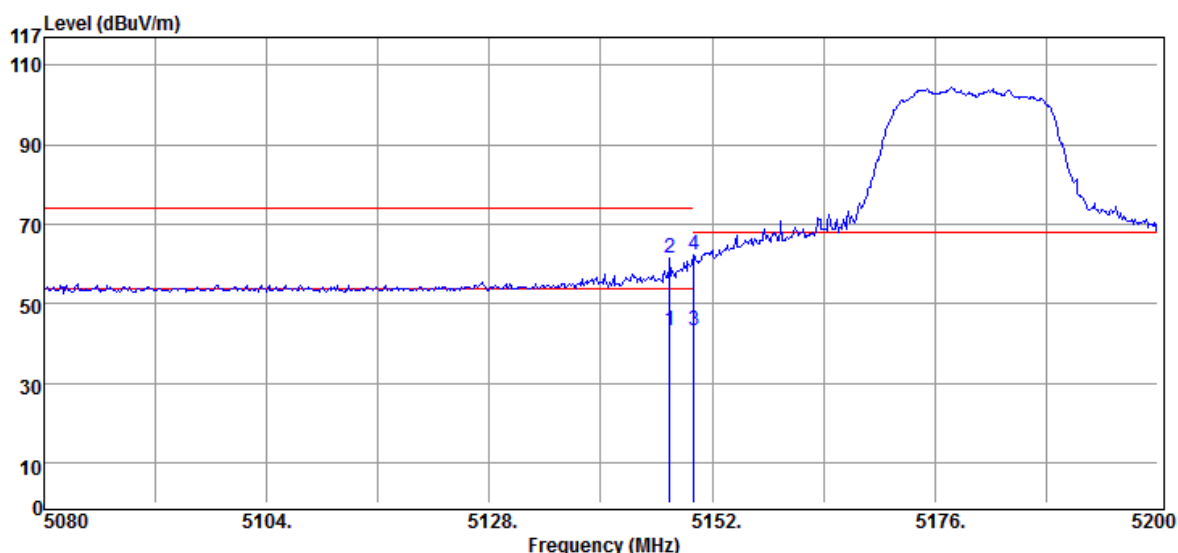
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Project Number : T190321W03
Operation Band :802.11n20 B1
Fundamental Frequency :5180 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :H Plane

Test Date :2019-04-02
Temp./Humi. :23 deg_C / 62 RH
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5147.44	Average	38.59	4.55	43.14	54.00	-10.86
5147.44	Peak	56.88	4.55	61.43	74.00	-12.57
5150.00	Peak	38.94	4.55	43.49	74.00	-30.51
5150.00	Peak	57.65	4.55	62.20	74.00	-11.80

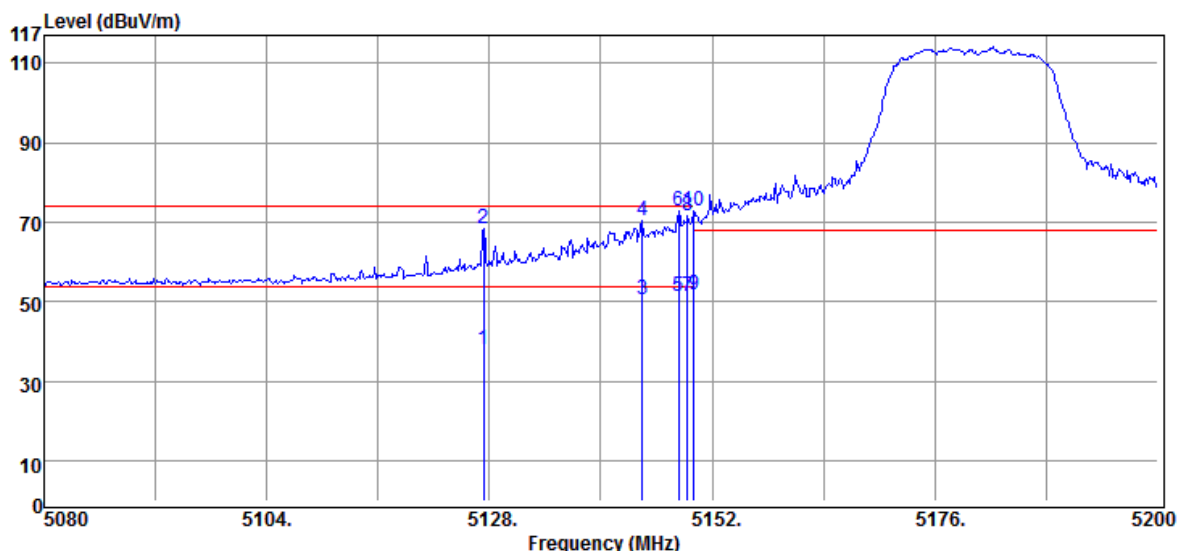
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Project Number : T190321W03
 Operation Band :802.11n20 B1
 Fundamental Frequency :5180 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :H Plane

Test Date :2019-04-02
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Jerry
 Measurement Antenna Pol. :HORIZONTAL



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	33.54	4.68	38.22	54.00	-15.78
5127.40	Peak	63.62	4.68	68.30	74.00	-5.70
5144.44	Average	46.13	4.55	50.68	54.00	-3.32
5144.44	Peak	66.04	4.55	70.59	74.00	-3.41
5148.40	Average	46.79	4.55	51.34	54.00	-2.66
5148.40	Peak	68.27	4.55	72.82	74.00	-1.18
5149.36	Average	46.88	4.54	51.42	54.00	-2.58
5149.36	Peak	67.28	4.54	71.82	74.00	-2.18
5150.00	Average	47.12	4.55	51.67	54.00	-2.33
5150.00	Peak	68.36	4.55	72.91	74.00	-1.09

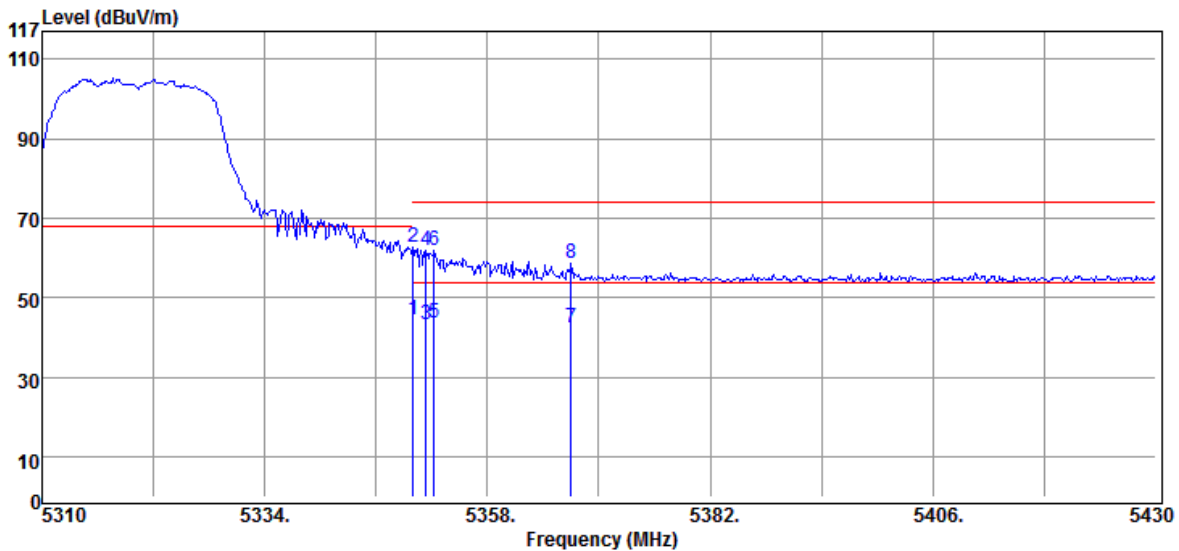
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Project Number : T190321W03
 Operation Band :802.11n20 B2a
 Fundamental Frequency :5320 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :H Plane

Test Date :2019-04-03
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Jerry
 Measurement Antenna Pol. :VERTICAL



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	39.15	5.19	44.34	54.00	-9.66
5350.00	Peak	57.43	5.19	62.62	74.00	-11.38
5351.40	Average	38.06	5.20	43.26	54.00	-10.74
5351.40	Peak	56.92	5.20	62.12	74.00	-11.88
5352.24	Average	38.68	5.20	43.88	54.00	-10.12
5352.24	Peak	56.76	5.20	61.96	74.00	-12.04
5367.00	Average	37.12	5.29	42.41	54.00	-11.59
5367.00	Peak	53.59	5.29	58.88	74.00	-15.12

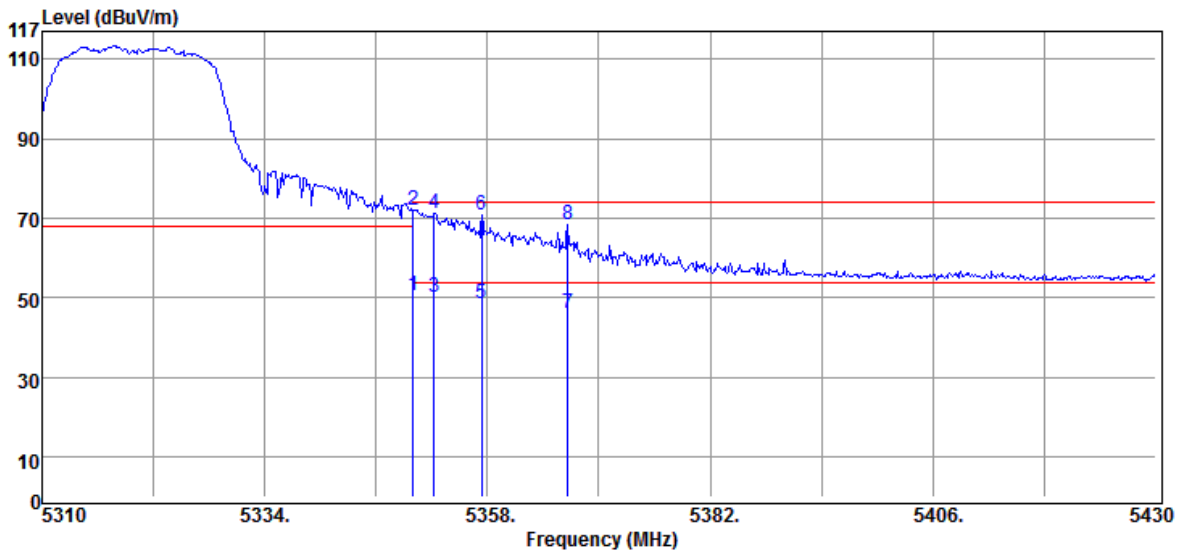
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Project Number : T190321W03
 Operation Band :802.11n20 B2a
 Fundamental Frequency :5320 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :H Plane

Test Date :2019-04-03
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Jerry
 Measurement Antenna Pol. :HORIZONTAL



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	45.61	5.19	50.80	54.00	-3.20
5350.00	Peak	66.83	5.19	72.02	74.00	-1.98
5352.24	Average	44.82	5.20	50.02	54.00	-3.98
5352.24	Peak	66.18	5.20	71.38	74.00	-2.62
5357.40	Average	43.18	5.21	48.39	54.00	-5.61
5357.40	Peak	65.82	5.21	71.03	74.00	-2.97
5366.64	Average	40.99	5.28	46.27	54.00	-7.73
5366.64	Peak	62.99	5.28	68.27	74.00	-5.73

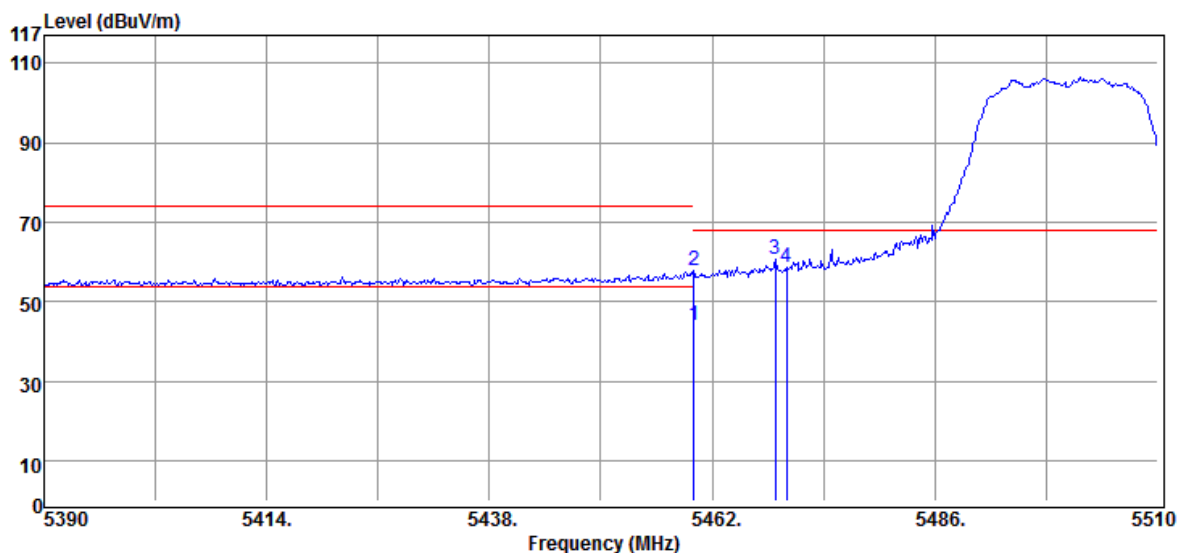
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Project Number : T190321W03
Operation Band :802.11n20 B2c
Fundamental Frequency :5500 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :H Plane

Test Date :2019-04-03
Temp./Humi. :23 deg_C / 62 RH
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5460.00	Average	38.72	5.54	44.26	54.00	-9.74
5460.00	Peak	52.23	5.54	57.77	74.00	-16.23
5468.84	Peak	55.24	5.53	60.77	68.20	-7.43
5470.00	Peak	53.21	5.52	58.73	68.20	-9.47

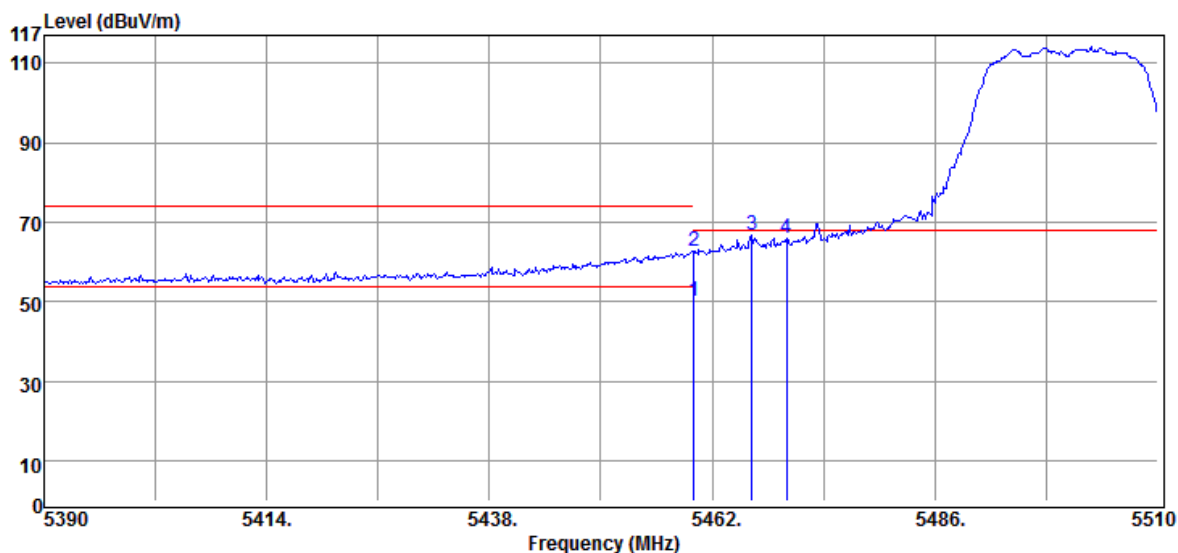
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Project Number : T190321W03
 Operation Band :802.11n20 B2c
 Fundamental Frequency :5500 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :H Plane

Test Date :2019-04-03
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Jerry
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5460.00	Average	44.73	5.54	50.27	54.00	-3.73
5460.00	Peak	57.33	5.54	62.87	74.00	-11.13
5466.32	Peak	61.25	5.53	66.78	68.20	-1.42
5470.00	Peak	60.45	5.52	65.97	68.20	-2.23

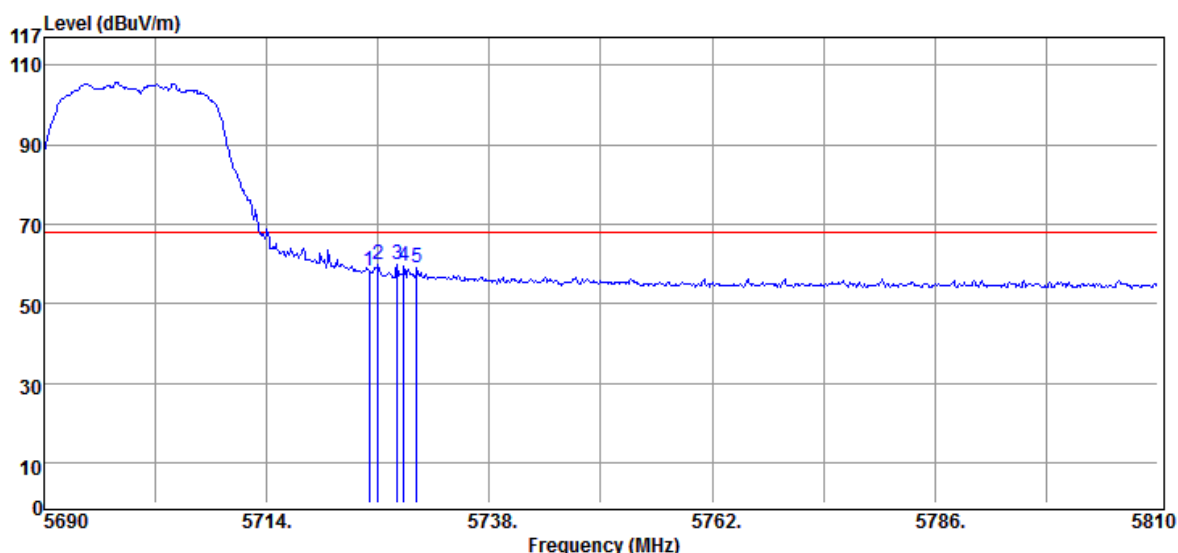
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Project Number : T190321W03
Operation Band :802.11n20 B2c
Fundamental Frequency :5700 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :H Plane

Test Date :2019-04-03
Temp./Humi. :23 deg_C / 62 RH
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.00	Peak	51.69	6.55	58.24	68.20	-9.96
5726.00	Peak	53.26	6.54	59.80	68.20	-8.40
5728.04	Peak	53.38	6.54	59.92	68.20	-8.28
5728.76	Peak	53.16	6.54	59.70	68.20	-8.50
5730.20	Peak	52.51	6.53	59.04	68.20	-9.16

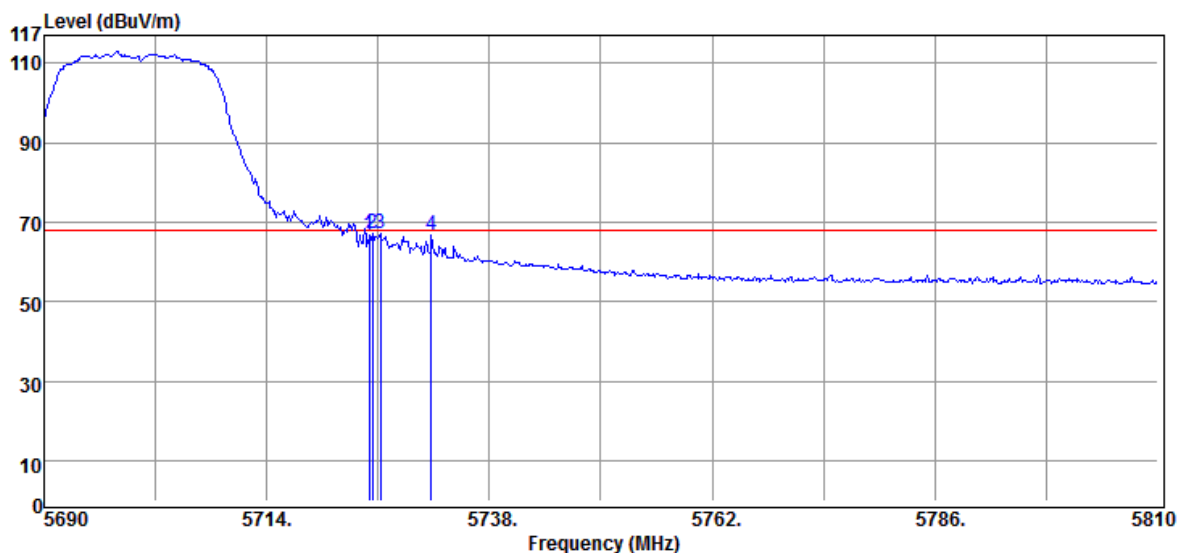
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Project Number : T190321W03
Operation Band :802.11n20 B2c
Fundamental Frequency :5700 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :H Plane

Test Date :2019-04-03
Temp./Humi. :23 deg_C / 62 RH
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.00	Peak	60.25	6.55	66.80	68.20	-1.40
5725.40	Peak	60.62	6.55	67.17	68.20	-1.03
5726.24	Peak	60.48	6.54	67.02	68.20	-1.18
5731.76	Peak	60.38	6.53	66.91	68.20	-1.29

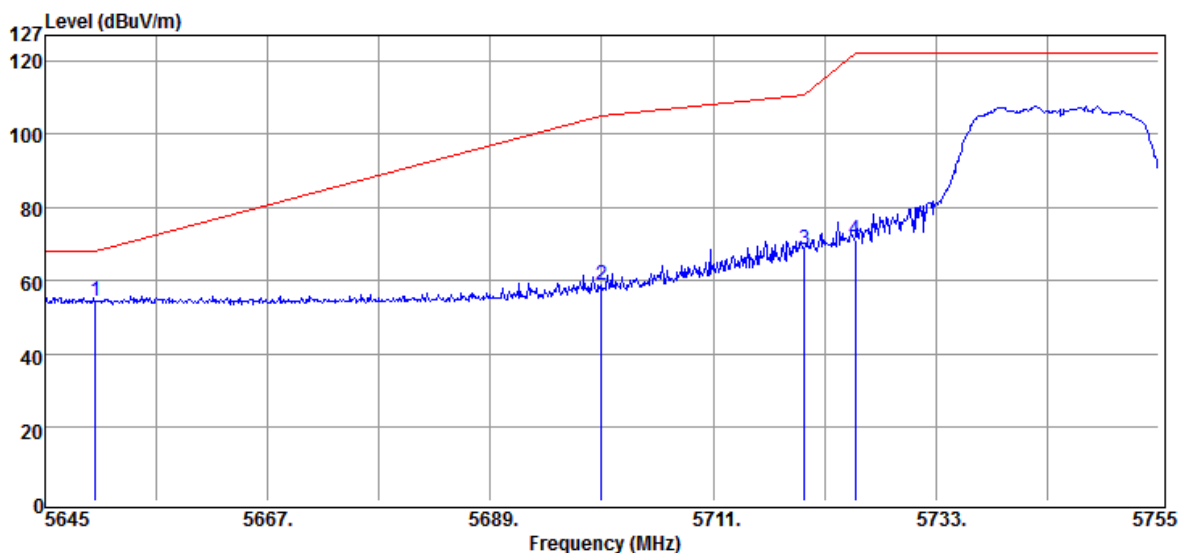
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Project Number : T190321W03
Operation Band :802.11n20 B3
Fundamental Frequency :5745 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :H Plane

Test Date :2019-04-03
Temp./Humi. :23 deg_C / 62 RH
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



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	48.42	5.91	54.33	68.23	-13.90
5700.00	Peak	52.52	6.43	58.95	105.23	-46.28
5720.00	Peak	62.00	6.55	68.55	110.83	-42.28
5725.00	Peak	64.43	6.55	70.98	122.23	-51.25

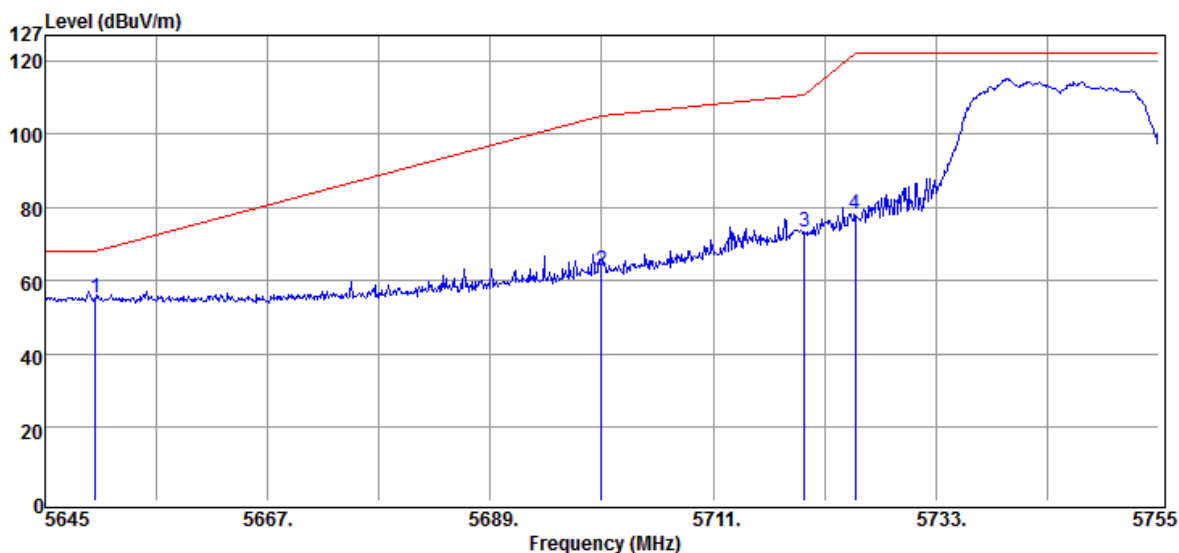
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Project Number : T190321W03
 Operation Band :802.11n20 B3
 Fundamental Frequency :5745 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :H Plane

Test Date :2019-04-03
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Jerry
 Measurement Antenna Pol. :HORIZONTAL



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	49.40	5.91	55.31	68.23	-12.92
5700.00	Peak	56.49	6.43	62.92	105.23	-42.31
5720.00	Peak	66.73	6.55	73.28	110.83	-37.55
5725.00	Peak	71.50	6.55	78.05	122.23	-44.18

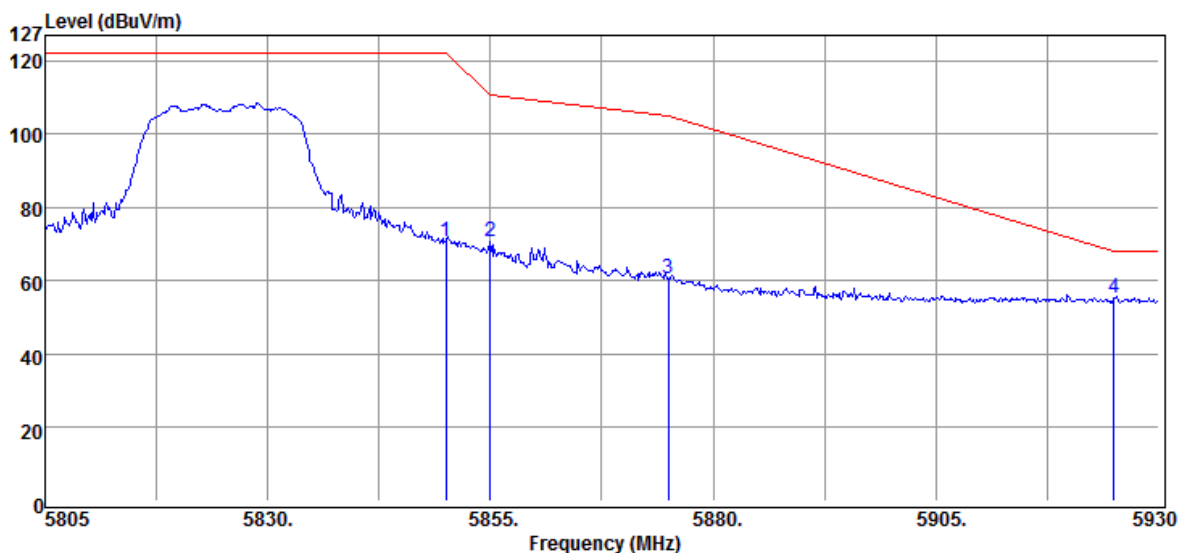
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Project Number : T190321W03
Operation Band :802.11n20 B3
Fundamental Frequency :5825 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :H Plane

Test Date :2019-04-03
Temp./Humi. :23 deg_C / 62 RH
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



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	64.24	6.41	70.65	122.23	-51.58
5855.00	Peak	64.33	6.43	70.76	110.83	-40.07
5875.00	Peak	54.07	6.49	60.56	105.23	-44.67
5925.00	Peak	49.10	6.44	55.54	68.23	-12.69

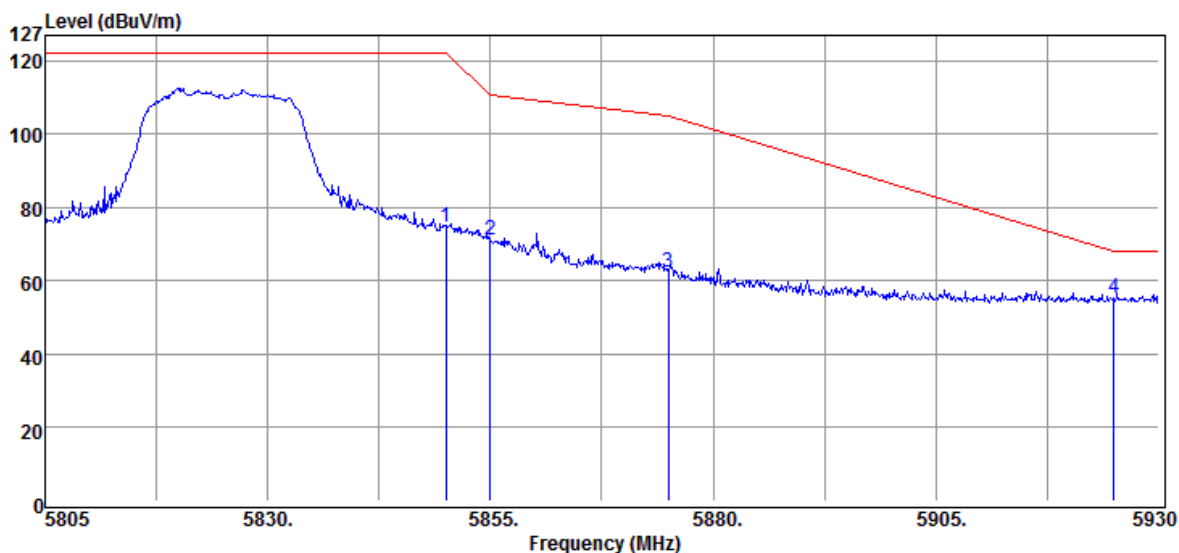
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Project Number : T190321W03
 Operation Band :802.11n20 B3
 Fundamental Frequency :5825 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :H Plane

Test Date :2019-04-03
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Jerry
 Measurement Antenna Pol. :HORIZONTAL



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	68.17	6.41	74.58	122.23	-47.65
5855.00	Peak	64.77	6.43	71.20	110.83	-39.63
5875.00	Peak	55.88	6.49	62.37	105.23	-42.86
5925.00	Peak	48.95	6.44	55.39	68.23	-12.84

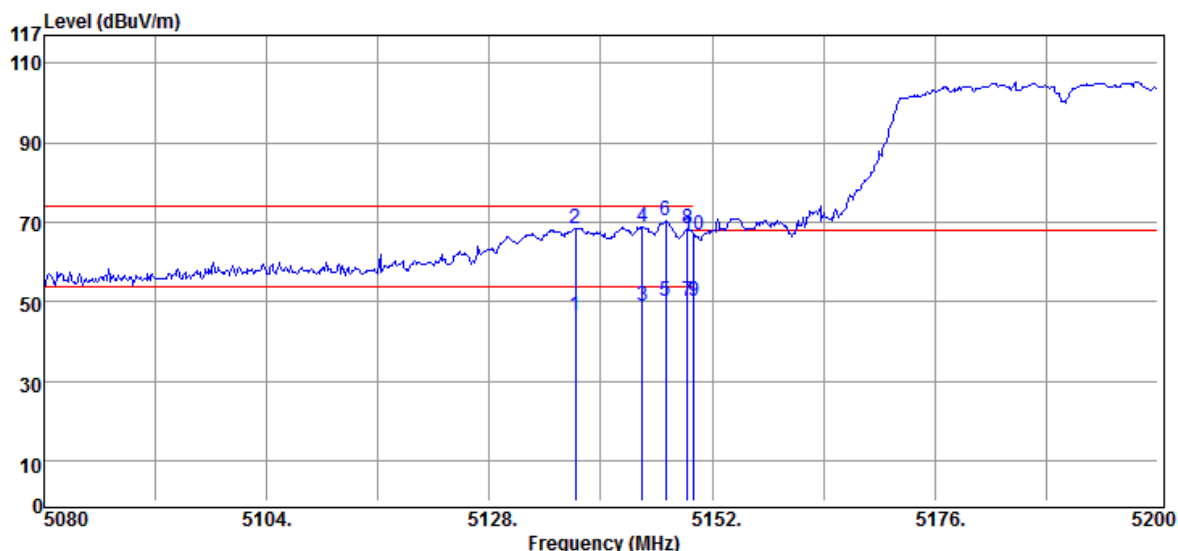
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Project Number : T190321W03
Operation Band :802.11n40 B1
Fundamental Frequency :5190 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :H Plane

Test Date :2019-04-02
Temp./Humi. :23 deg_C / 62 RH
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5137.24	Average	42.16	4.58	46.74	54.00	-7.26
5137.24	Peak	63.97	4.58	68.55	74.00	-5.45
5144.44	Average	44.51	4.55	49.06	54.00	-4.94
5144.44	Peak	64.33	4.55	68.88	74.00	-5.12
5146.96	Average	45.54	4.54	50.08	54.00	-3.92
5146.96	Peak	65.85	4.54	70.39	74.00	-3.61
5149.36	Average	45.72	4.54	50.26	54.00	-3.74
5149.36	Peak	63.73	4.54	68.27	74.00	-5.73
5150.00	Average	45.81	4.55	50.36	54.00	-3.64
5150.00	Peak	62.37	4.55	66.92	74.00	-7.08

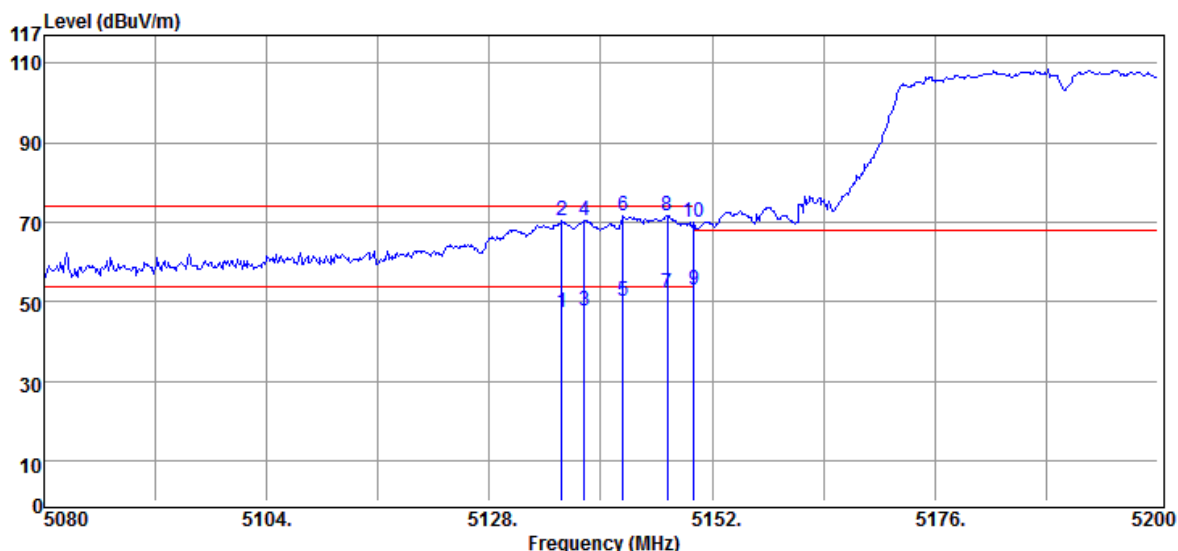
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Project Number : T190321W03
Operation Band :802.11n40 B1
Fundamental Frequency :5190 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :H Plane

Test Date :2019-04-02
Temp./Humi. :23 deg_C / 62 RH
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5135.80	Average	42.67	4.59	47.26	54.00	-6.74
5135.80	Peak	65.90	4.59	70.49	74.00	-3.51
5138.20	Average	43.34	4.58	47.92	54.00	-6.08
5138.20	Peak	65.86	4.58	70.44	74.00	-3.56
5142.40	Average	45.65	4.55	50.20	54.00	-3.80
5142.40	Peak	67.10	4.55	71.65	74.00	-2.35
5147.20	Average	47.84	4.54	52.38	54.00	-1.62
5147.20	Peak	67.24	4.54	71.78	74.00	-2.22
5150.00	Average	48.34	4.55	52.89	54.00	-1.11
5150.00	Peak	65.52	4.55	70.07	74.00	-3.93

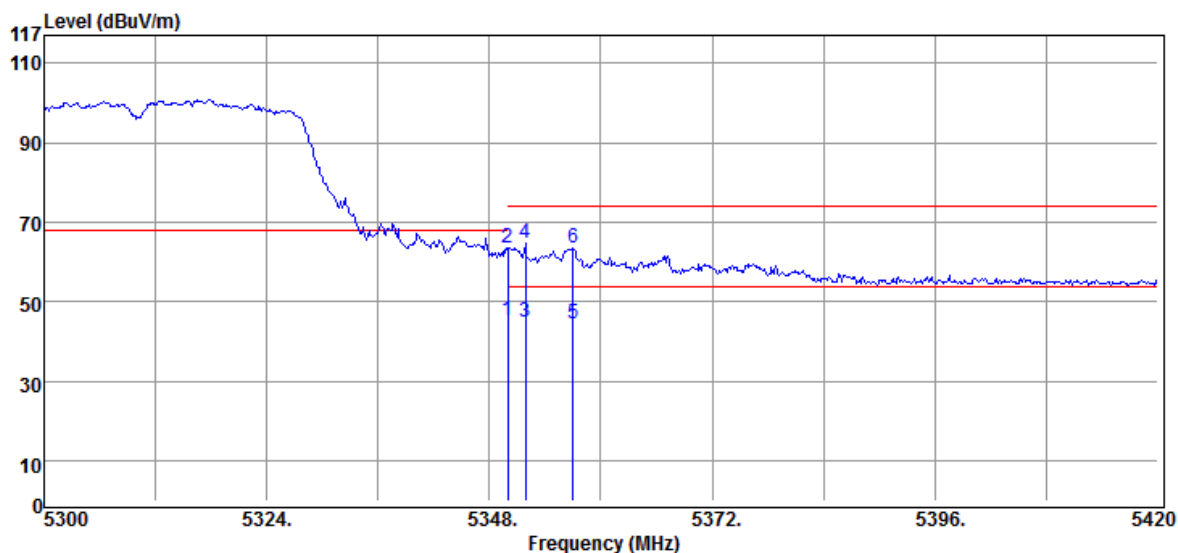
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Project Number : T190321W03
Operation Band :802.11n40 B2a
Fundamental Frequency :5310 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :H Plane

Test Date :2019-04-02
Temp./Humi. :23 deg_C / 62 RH
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



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	40.23	5.19	45.42	54.00	-8.58
5350.00	Peak	58.25	5.19	63.44	74.00	-10.56
5351.84	Average	39.76	5.20	44.96	54.00	-9.04
5351.84	Peak	59.46	5.20	64.66	74.00	-9.34
5357.00	Average	39.23	5.21	44.44	54.00	-9.56
5357.00	Peak	58.39	5.21	63.60	74.00	-10.40

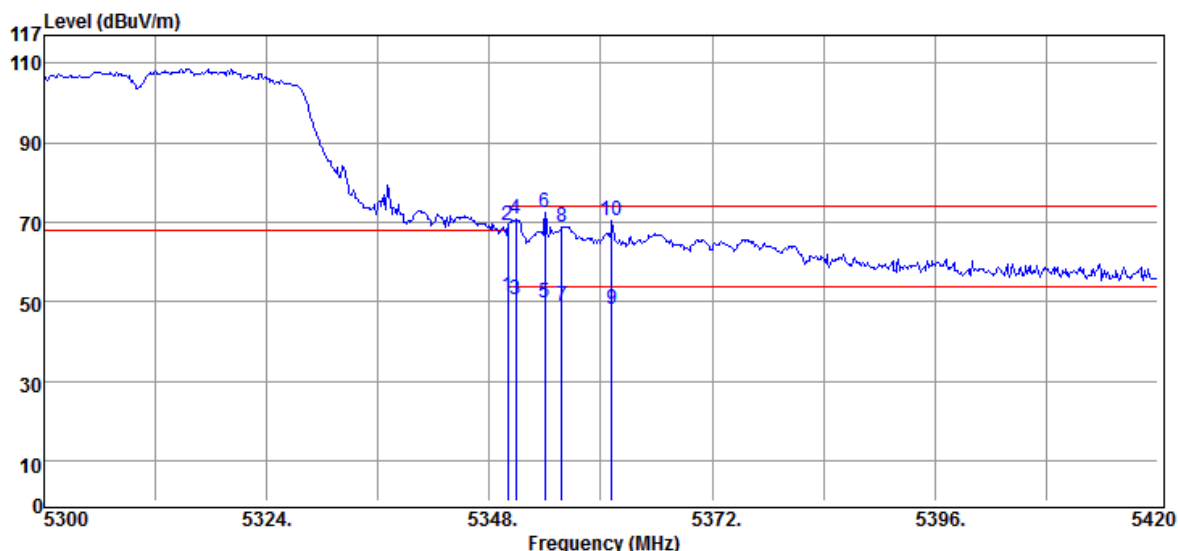
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Project Number : T190321W03
 Operation Band :802.11n40 B2a
 Fundamental Frequency :5310 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :H Plane

Test Date :2019-04-02
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Jerry
 Measurement Antenna Pol. :HORIZONTAL



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	46.28	5.19	51.47	54.00	-2.53
5350.00	Peak	63.95	5.19	69.14	74.00	-4.86
5350.88	Average	45.58	5.20	50.78	54.00	-3.22
5350.88	Peak	65.55	5.20	70.75	74.00	-3.25
5354.00	Average	44.68	5.20	49.88	54.00	-4.12
5354.00	Peak	67.22	5.20	72.42	74.00	-1.58
5355.80	Average	43.78	5.21	48.99	54.00	-5.01
5355.80	Peak	63.78	5.21	68.99	74.00	-5.01
5361.20	Average	42.75	5.23	47.98	54.00	-6.02
5361.20	Peak	65.07	5.23	70.30	74.00	-3.70

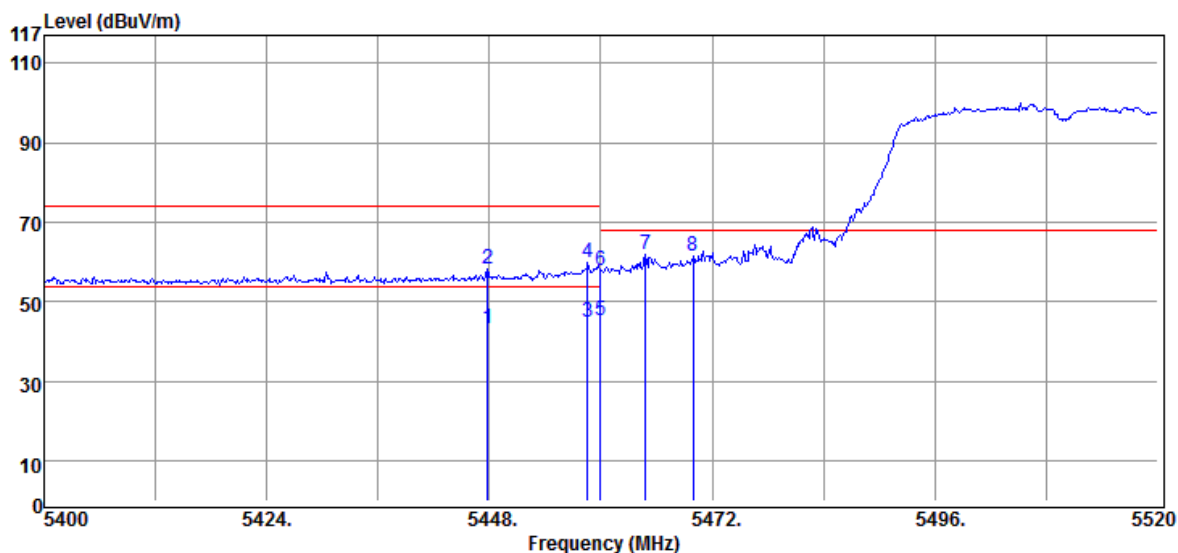
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Project Number : T190321W03
Operation Band :802.11n40 B2c
Fundamental Frequency :5510 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :H Plane

Test Date :2019-04-02
Temp./Humi. :23 deg_C / 62 RH
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5447.76	Average	37.69	5.57	43.26	54.00	-10.74
5447.76	Peak	52.59	5.57	58.16	74.00	-15.84
5458.56	Average	39.56	5.54	45.10	54.00	-8.90
5458.56	Peak	54.34	5.54	59.88	74.00	-14.12
5460.00	Average	39.73	5.54	45.27	54.00	-8.73
5460.00	Peak	52.54	5.54	58.08	74.00	-15.92
5464.80	Peak	56.27	5.53	61.80	68.20	-6.40
5469.96	Peak	55.85	5.52	61.37	68.20	-6.83

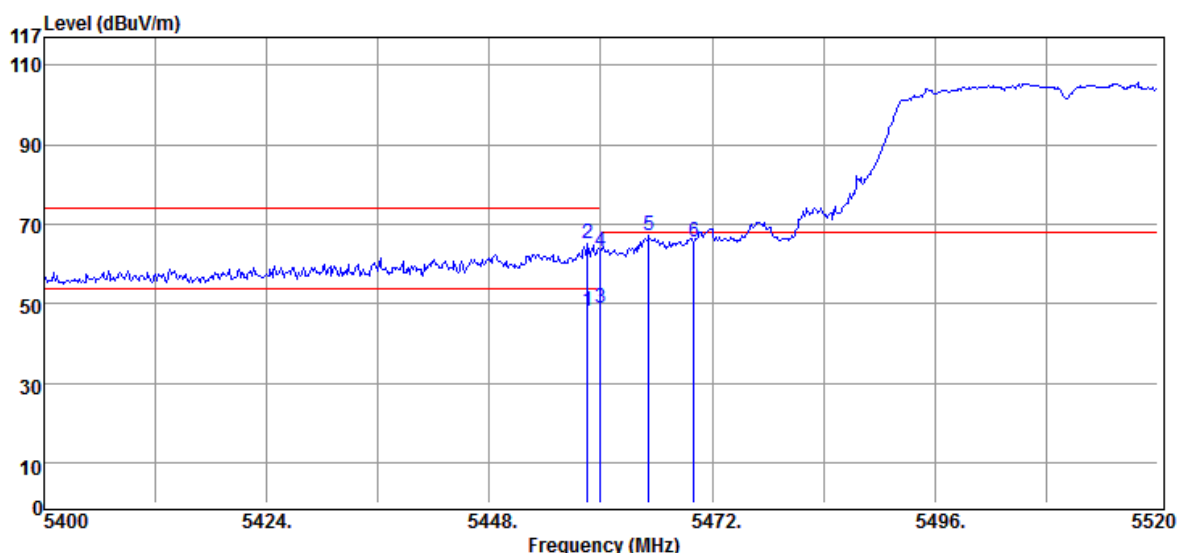
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Project Number : T190321W03
Operation Band :802.11n40 B2c
Fundamental Frequency :5510 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :H Plane

Test Date :2019-04-02
Temp./Humi. :23 deg_C / 62 RH
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



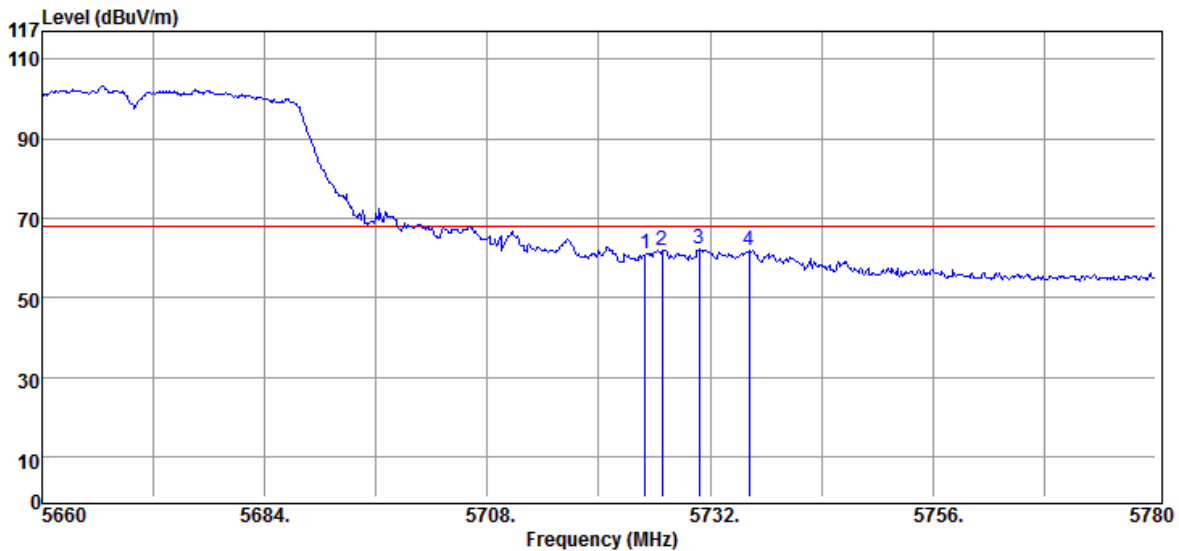
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5458.56	Average	42.74	5.54	48.28	54.00	-5.72
5458.56	Peak	59.63	5.54	65.17	74.00	-8.83
5460.00	Average	43.58	5.54	49.12	54.00	-4.88
5460.00	Peak	57.45	5.54	62.99	74.00	-11.01
5465.16	Peak	61.50	5.53	67.03	68.20	-1.17
5470.00	Peak	60.23	5.52	65.75	68.20	-2.45

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Project Number	: T190321W03	Test Date	:2019-04-02
Operation Band	:802.11n40 B2c	Temp./Humi.	:23 deg_C / 62 RH
Fundamental Frequency	:5670 MHz	Engineer	:Jerry
Operation Mode	:Bandedge CH HIGH	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:H Plane		



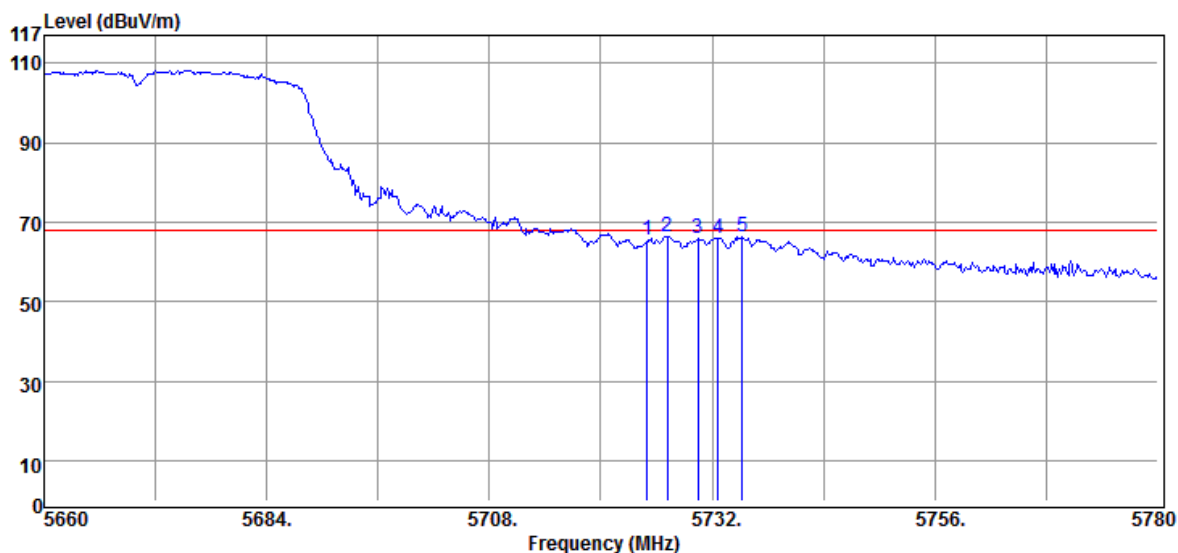
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.00	Peak	54.45	6.55	61.00	68.20	-7.20
5726.84	Peak	55.43	6.54	61.97	68.20	-6.23
5730.80	Peak	55.62	6.53	62.15	68.20	-6.05
5736.20	Peak	55.45	6.52	61.97	68.20	-6.23

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Project Number	: T190321W03	Test Date	:2019-04-02
Operation Band	:802.11n40 B2c	Temp./Humi.	:23 deg_C / 62 RH
Fundamental Frequency	:5670 MHz	Engineer	:Jerry
Operation Mode	:Bandedge CH HIGH	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:H Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.00	Peak	59.21	6.55	65.76	68.20	-2.44
5727.20	Peak	59.91	6.53	66.44	68.20	-1.76
5730.44	Peak	59.42	6.53	65.95	68.20	-2.25
5732.60	Peak	59.57	6.54	66.11	68.20	-2.09
5735.24	Peak	59.89	6.53	66.42	68.20	-1.78

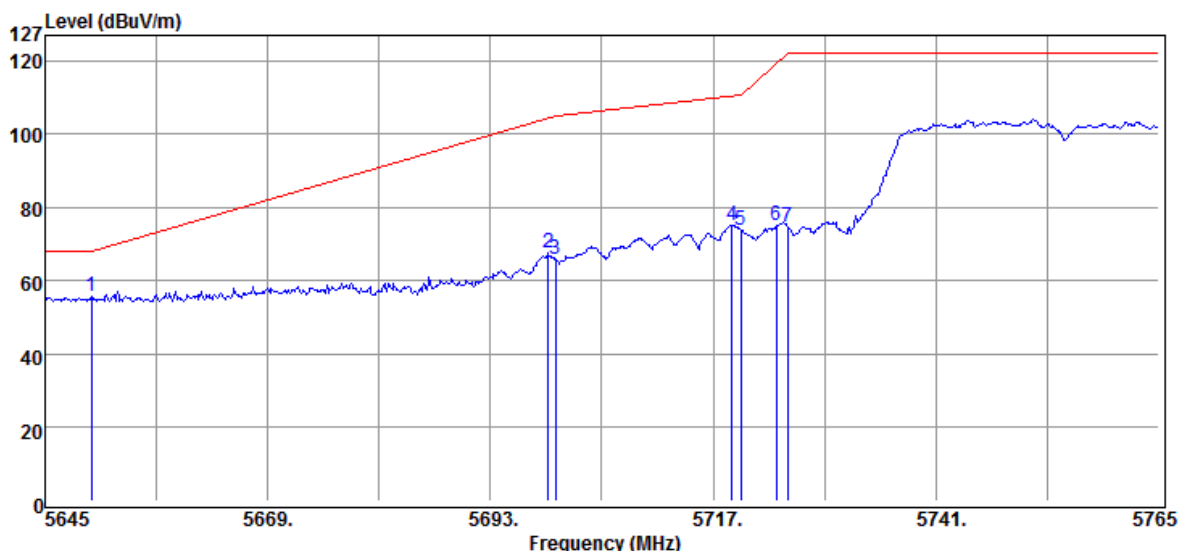
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Project Number : T190321W03
 Operation Band :802.11n40 B3
 Fundamental Frequency :5755 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :H Plane

Test Date :2019-04-02
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Jerry
 Measurement Antenna Pol. :VERTICAL



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	49.83	5.91	55.74	68.23	-12.49
5699.24	Peak	61.32	6.41	67.73	104.67	-36.94
5700.00	Peak	59.56	6.43	65.99	105.23	-39.24
5719.04	Peak	68.67	6.55	75.22	110.56	-35.34
5720.00	Peak	67.27	6.55	73.82	110.83	-37.01
5723.84	Peak	68.80	6.55	75.35	119.58	-44.23
5725.00	Peak	68.15	6.55	74.70	122.23	-47.53

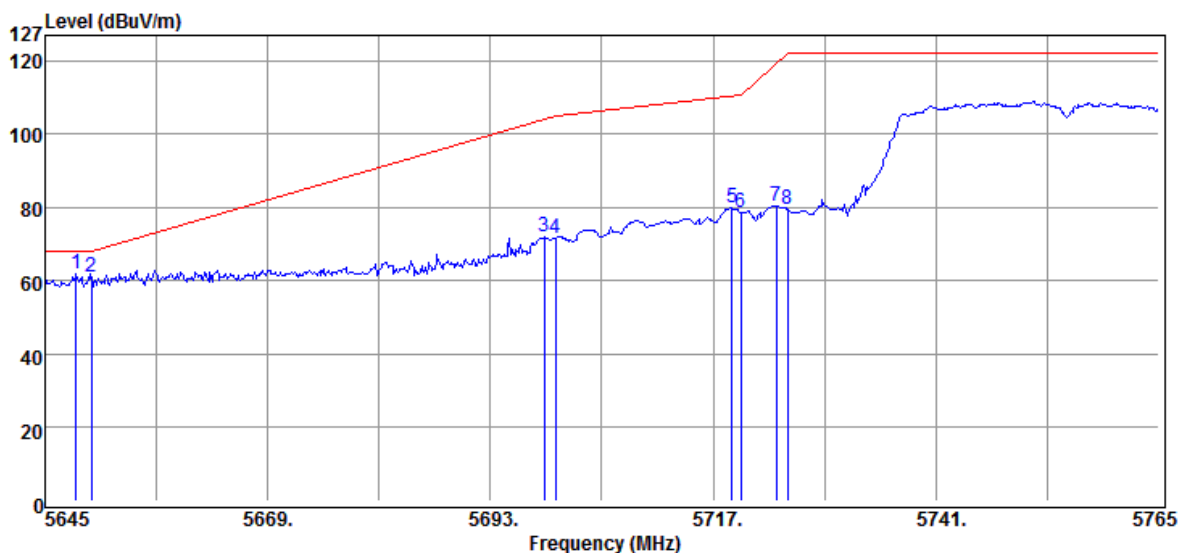
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Project Number : T190321W03
Operation Band :802.11n40 B3
Fundamental Frequency :5755 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :H Plane

Test Date :2019-04-02
Temp./Humi. :23 deg_C / 62 RH
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5648.36	Peak	56.17	5.89	62.06	68.23	-6.17
5650.00	Peak	55.36	5.91	61.27	68.23	-6.96
5698.76	Peak	65.81	6.41	72.22	104.31	-32.09
5700.00	Peak	65.21	6.43	71.64	105.23	-33.59
5719.04	Peak	73.52	6.55	80.07	110.56	-30.49
5720.00	Peak	72.17	6.55	78.72	110.83	-32.11
5723.84	Peak	73.88	6.55	80.43	119.58	-39.15
5725.00	Peak	72.78	6.55	79.33	122.23	-42.90

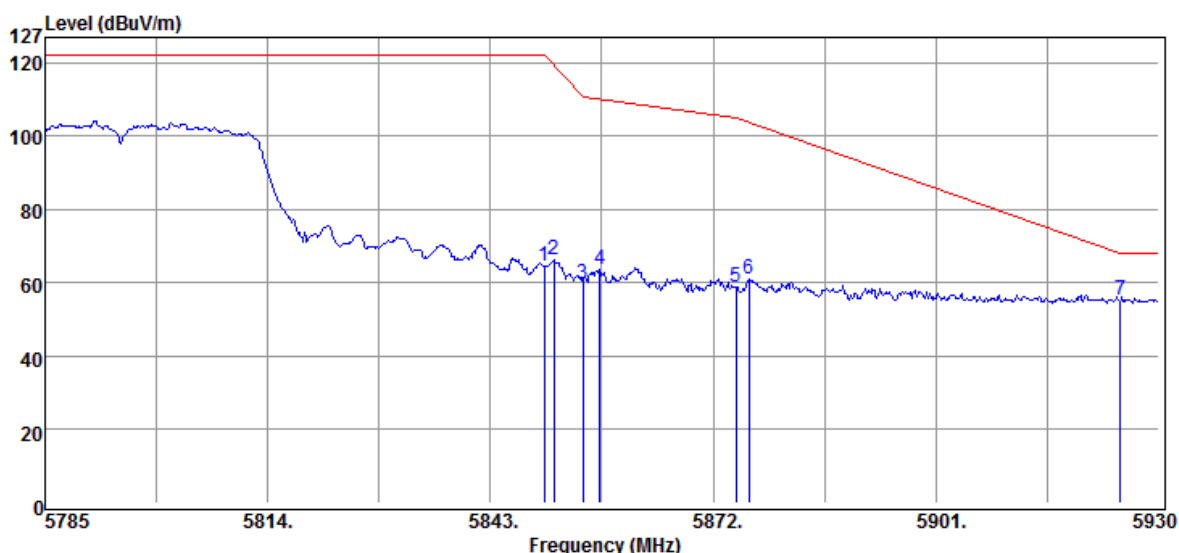
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Project Number : T190321W03
Operation Band :802.11n40 B3
Fundamental Frequency :5795 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :H Plane

Test Date :2019-04-02
Temp./Humi. :23 deg_C / 62 RH
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



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	58.13	6.41	64.54	122.23	-57.69
5851.27	Peak	60.13	6.42	66.55	119.35	-52.80
5855.00	Peak	53.32	6.43	59.75	110.83	-51.08
5857.21	Peak	57.17	6.44	63.61	110.21	-46.60
5875.00	Peak	52.39	6.49	58.88	105.23	-46.35
5876.64	Peak	54.36	6.50	60.86	104.02	-43.16
5925.00	Peak	49.06	6.44	55.50	68.23	-12.73

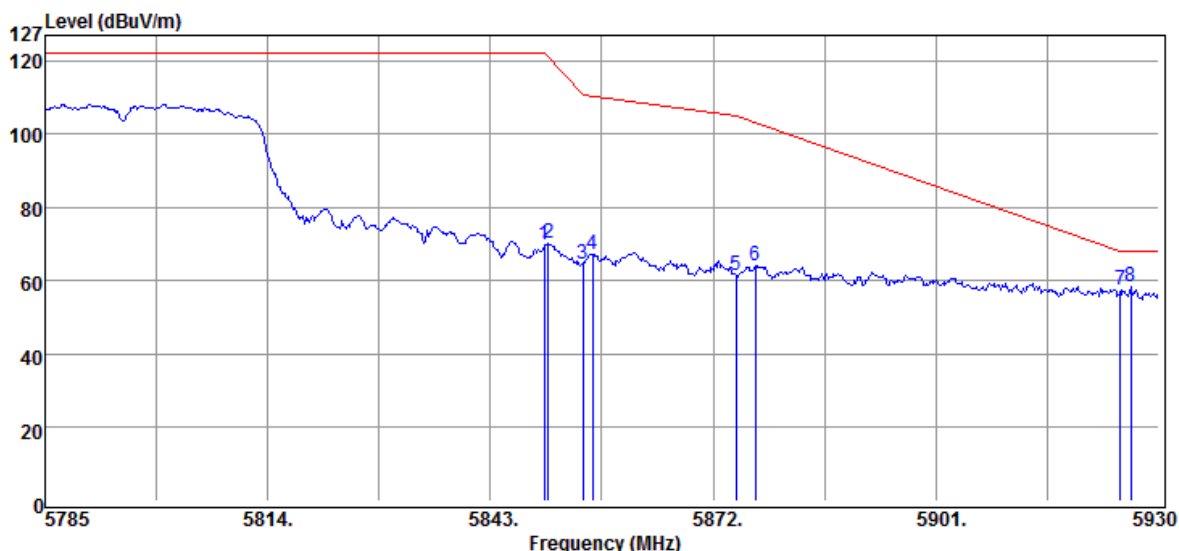
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Project Number : T190321W03
 Operation Band :802.11n40 B3
 Fundamental Frequency :5795 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :H Plane

Test Date :2019-04-02
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Jerry
 Measurement Antenna Pol. :HORIZONTAL



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	63.36	6.41	69.77	122.23	-52.46
5850.54	Peak	63.69	6.42	70.11	121.00	-50.89
5855.00	Peak	58.04	6.43	64.47	110.83	-46.36
5856.34	Peak	60.85	6.43	67.28	110.45	-43.17
5875.00	Peak	55.17	6.49	61.66	105.23	-43.57
5877.51	Peak	57.83	6.50	64.33	103.37	-39.04
5925.00	Peak	50.93	6.44	57.37	68.23	-10.86
5926.38	Peak	52.02	6.44	58.46	68.23	-9.77

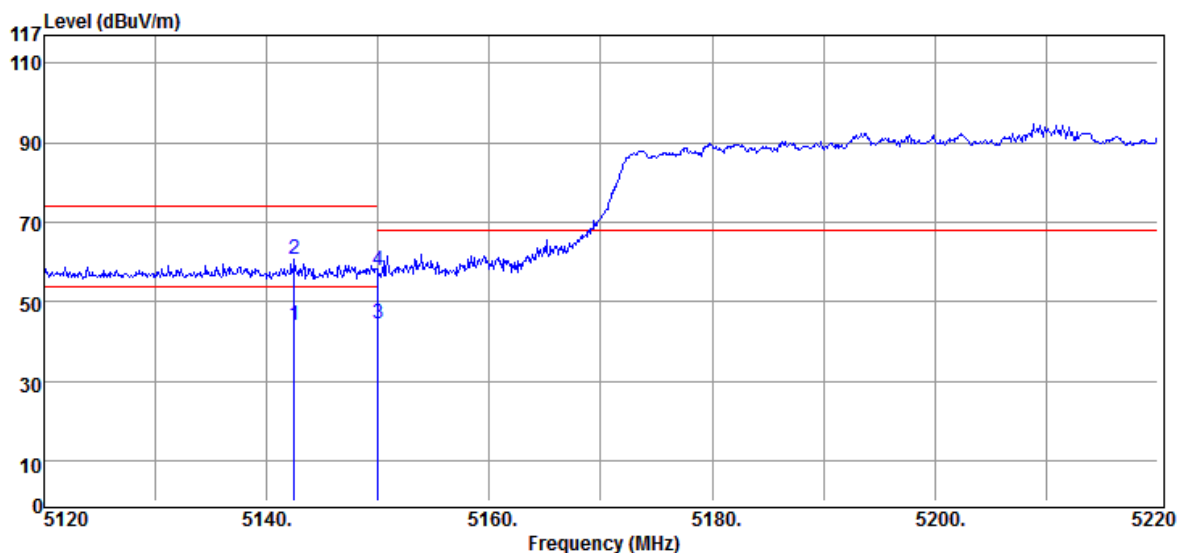
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Project Number : T190321W03
Operation Band :802.11ac80 B1
Fundamental Frequency :5210 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :H Plane

Test Date :2019-04-03
Temp./Humi. :23 deg_C / 62 RH
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5142.50	Average	39.68	4.55	44.23	54.00	-9.77
5142.50	Peak	56.00	4.55	60.55	74.00	-13.45
5150.00	Average	39.93	4.55	44.48	54.00	-9.52
5150.00	Peak	53.53	4.55	58.08	74.00	-15.92

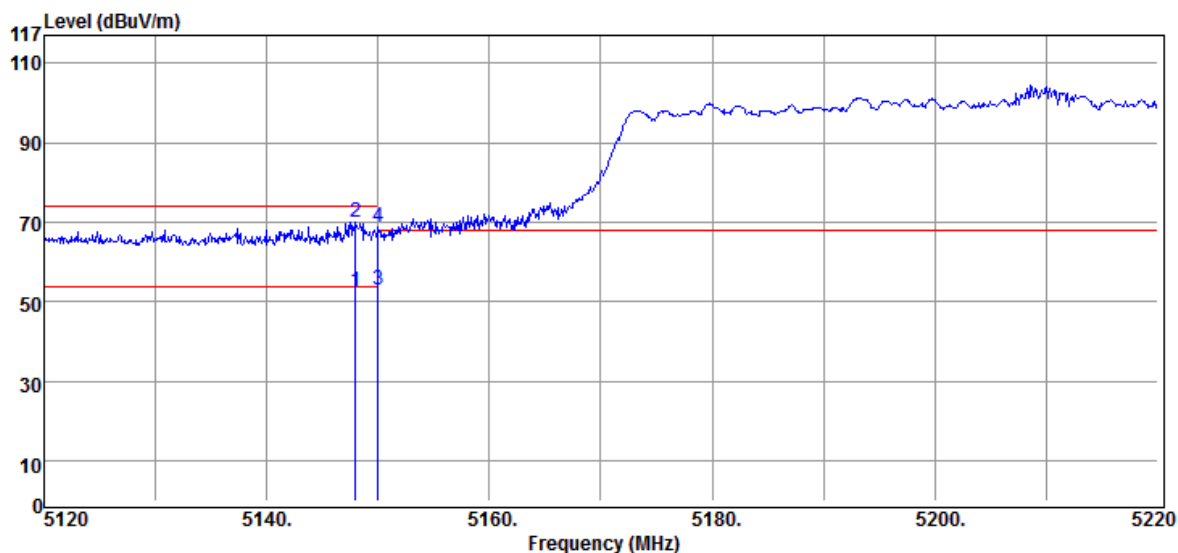
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Project Number : T190321W03
 Operation Band :802.11ac80 B1
 Fundamental Frequency :5210 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :H Plane

Test Date :2019-04-03
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Jerry
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5148.00	Average	48.03	4.55	52.58	54.00	-1.42
5148.00	Peak	65.42	4.55	69.97	74.00	-4.03
5150.00	Average	48.30	4.55	52.85	54.00	-1.15
5150.00	Peak	64.45	4.55	69.00	74.00	-5.00

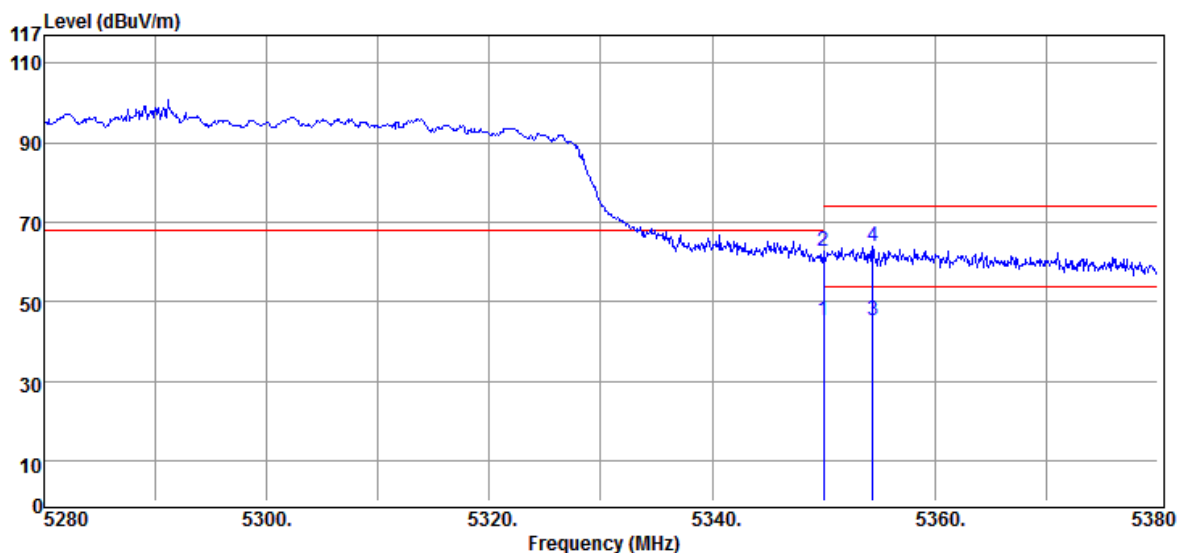
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Project Number : T190321W03
Operation Band : 802.11ac80 B2a
Fundamental Frequency : 5290 MHz
Operation Mode : Bandedge CH HIGH
EUT Pol. : H Plane

Test Date : 2019-04-03
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



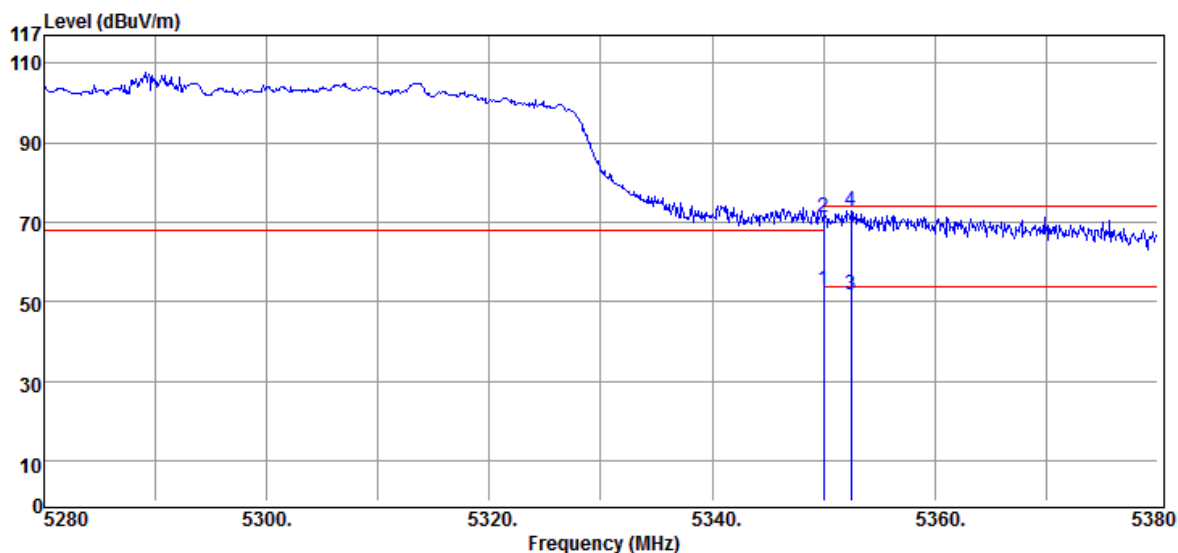
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	Average	40.04	5.19	45.23	54.00	-8.77
5350.00	Peak	57.68	5.19	62.87	74.00	-11.13
5354.40	Average	40.04	5.21	45.25	54.00	-8.75
5354.40	Peak	58.58	5.21	63.79	74.00	-10.21

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Project Number	: T190321W03	Test Date	:2019-04-03
Operation Band	:802.11ac80 B2a	Temp./Humi.	:23 deg_C / 62 RH
Fundamental Frequency	:5290 MHz	Engineer	:Jerry
Operation Mode	:Bandedge CH HIGH	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:H Plane		



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	47.74	5.19	52.93	54.00	-1.07
5350.00	Peak	65.94	5.19	71.13	74.00	-2.87
5352.50	Average	46.82	5.20	52.02	54.00	-1.98
5352.50	Peak	67.57	5.20	72.77	74.00	-1.23

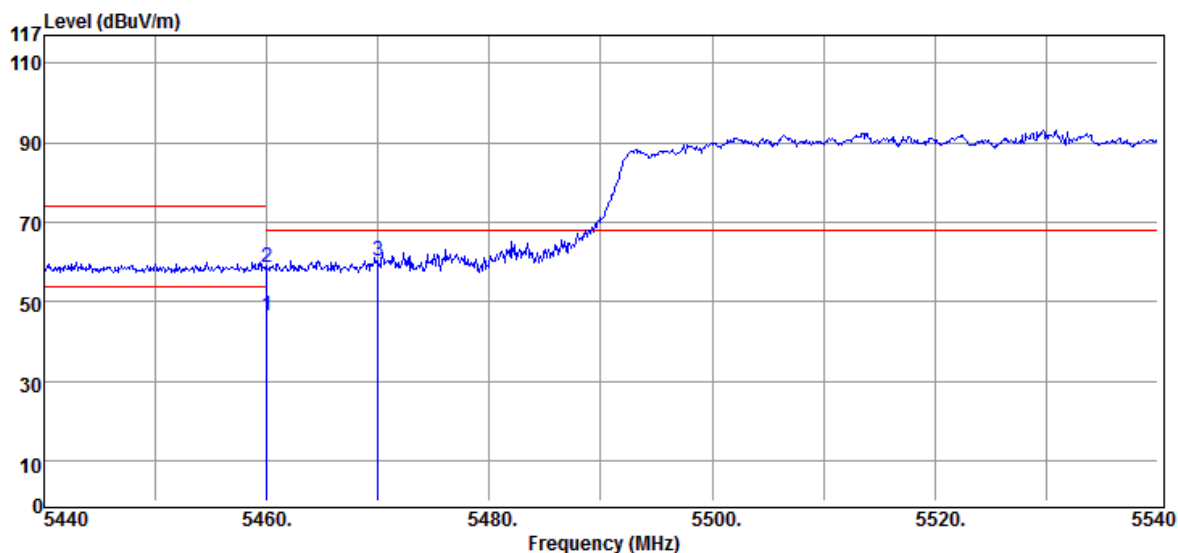
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Project Number : T190321W03
Operation Band :802.11ac80 B2c
Fundamental Frequency :5530 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :H Plane

Test Date :2019-04-03
Temp./Humi. :23 deg_C / 62 RH
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5460.00	Average	40.93	5.54	46.47	54.00	-7.53
5460.00	Peak	53.04	5.54	58.58	74.00	-15.42
5470.00	Peak	54.76	5.52	60.28	68.20	-7.92

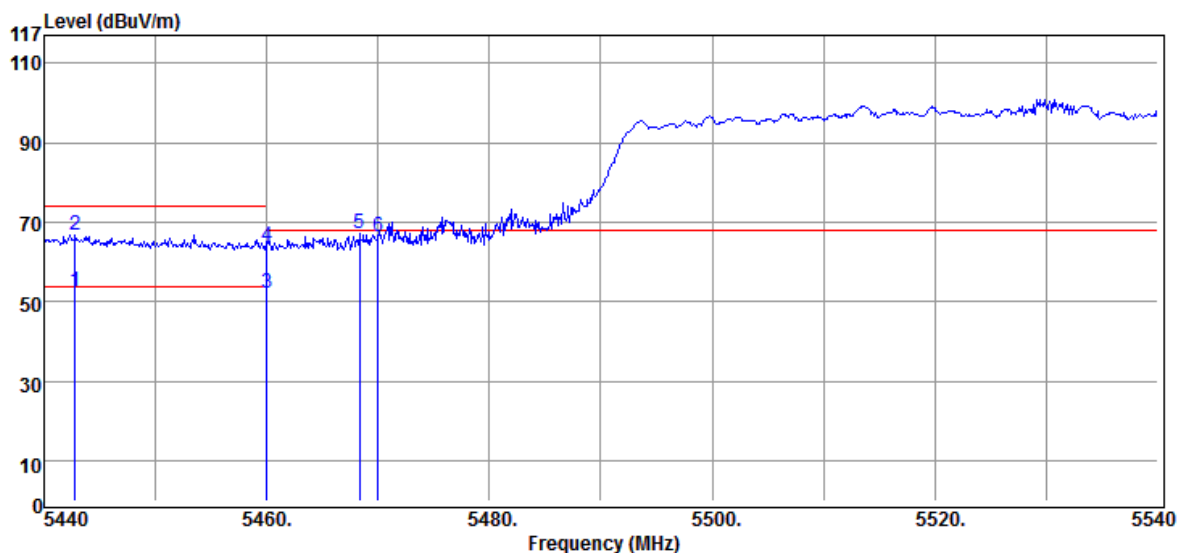
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Project Number : T190321W03
 Operation Band : 802.11ac80 B2c
 Fundamental Frequency : 5530 MHz
 Operation Mode : Bandedge CH LOW
 EUT Pol. : H Plane

Test Date : 2019-04-03
 Temp./Humi. : 23 deg_C / 62 RH
 Engineer : Jerry
 Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5442.80	Average	47.10	5.59	52.69	54.00	-1.31
5442.80	Peak	61.01	5.59	66.60	74.00	-7.40
5460.00	Average	46.51	5.54	52.05	54.00	-1.95
5460.00	Peak	58.53	5.54	64.07	74.00	-9.93
5468.30	Peak	61.52	5.51	67.03	68.20	-1.17
5470.00	Peak	61.05	5.52	66.57	68.20	-1.63

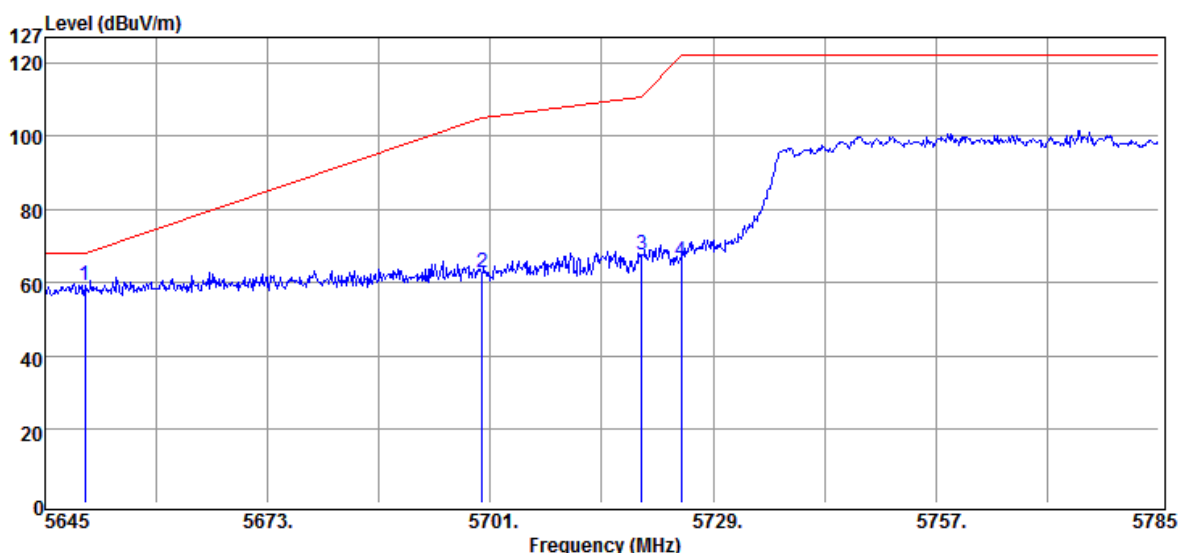
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Project Number : T190321W03
Operation Band :802.11ac80 B3
Fundamental Frequency :5775 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :H Plane

Test Date :2019-04-03
Temp./Humi. :23 deg_C / 62 RH
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



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	53.35	5.91	59.26	68.23	-8.97
5700.00	Peak	56.32	6.43	62.75	105.23	-42.48
5720.00	Peak	61.00	6.55	67.55	110.83	-43.28
5725.00	Peak	59.18	6.55	65.73	122.23	-56.50

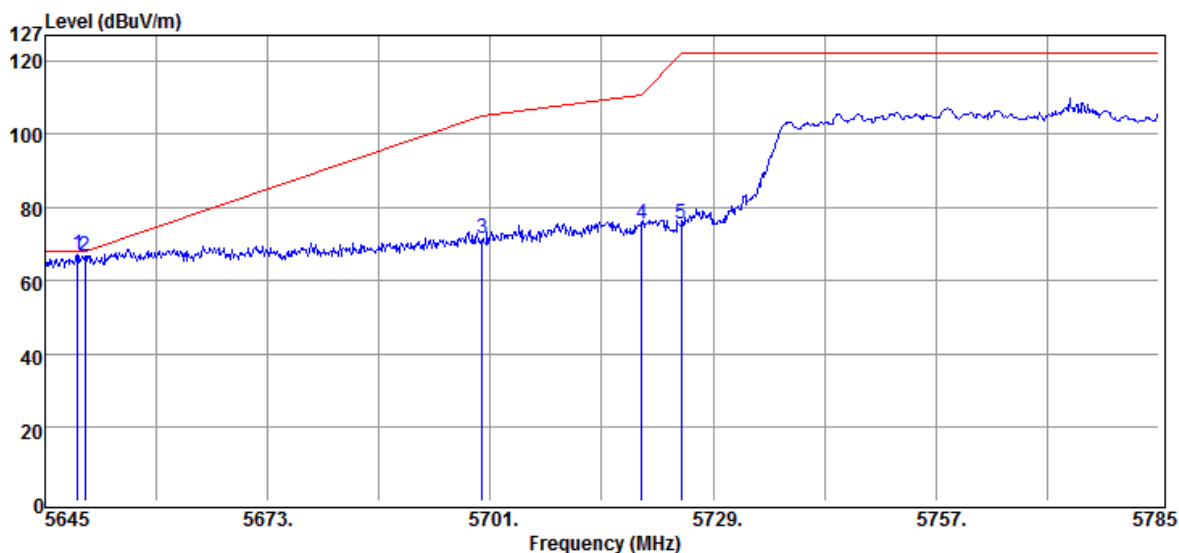
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Project Number : T190321W03
Operation Band :802.11ac80 B3
Fundamental Frequency :5775 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :H Plane

Test Date :2019-04-03
Temp./Humi. :23 deg_C / 62 RH
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5649.06	Peak	61.29	5.89	67.18	68.23	-1.05
5650.00	Peak	60.72	5.91	66.63	68.23	-1.60
5700.00	Peak	65.17	6.43	71.60	105.23	-33.63
5720.00	Peak	69.06	6.55	75.61	110.83	-35.22
5725.00	Peak	69.20	6.55	75.75	122.23	-46.48

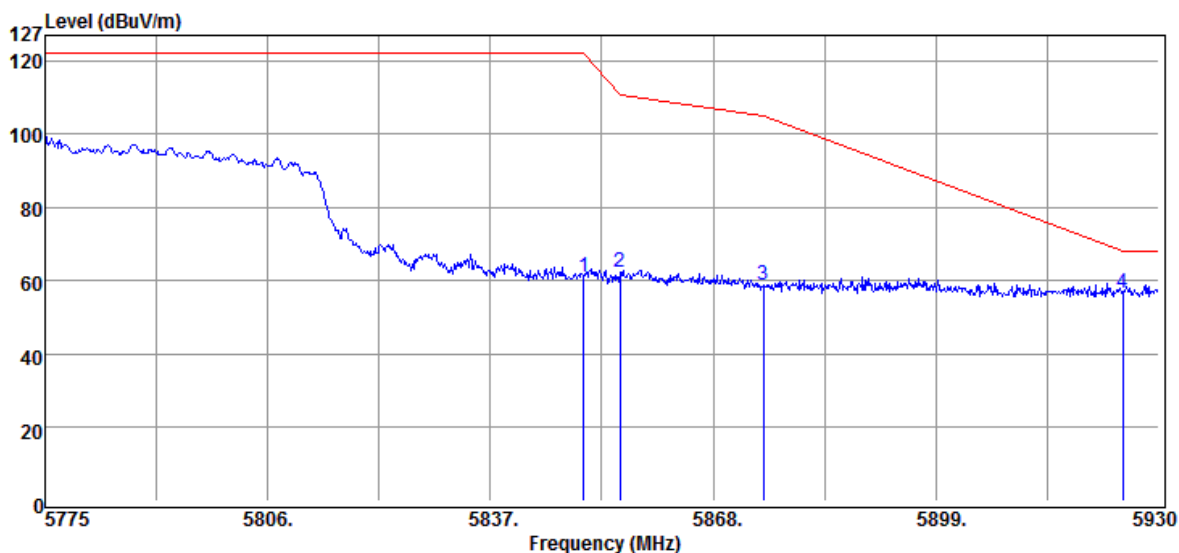
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Project Number : T190321W03
Operation Band :802.11ac80 B3
Fundamental Frequency :5775 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :H Plane

Test Date :2019-04-03
Temp./Humi. :23 deg_C / 62 RH
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



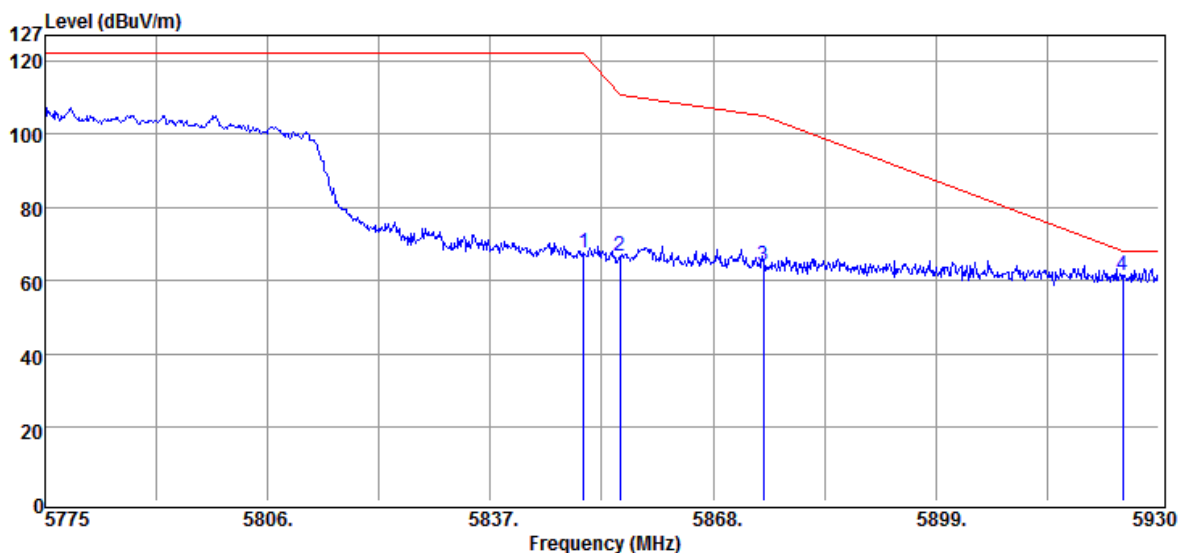
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	54.85	6.41	61.26	122.23	-60.97
5855.00	Peak	55.95	6.43	62.38	110.83	-48.45
5875.00	Peak	52.61	6.49	59.10	105.23	-46.13
5925.00	Peak	50.22	6.44	56.66	68.23	-11.57

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Project Number	: T190321W03	Test Date	:2019-04-03
Operation Band	:802.11ac80 B3	Temp./Humi.	:23 deg_C / 62 RH
Fundamental Frequency	:5775 MHz	Engineer	:Jerry
Operation Mode	:Bandedge CH HIGH	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:H Plane		



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	61.36	6.41	67.77	122.23	-54.46
5855.00	Peak	60.25	6.43	66.68	110.83	-44.15
5875.00	Peak	57.76	6.49	64.25	105.23	-40.98
5925.00	Peak	55.11	6.44	61.55	68.23	-6.68

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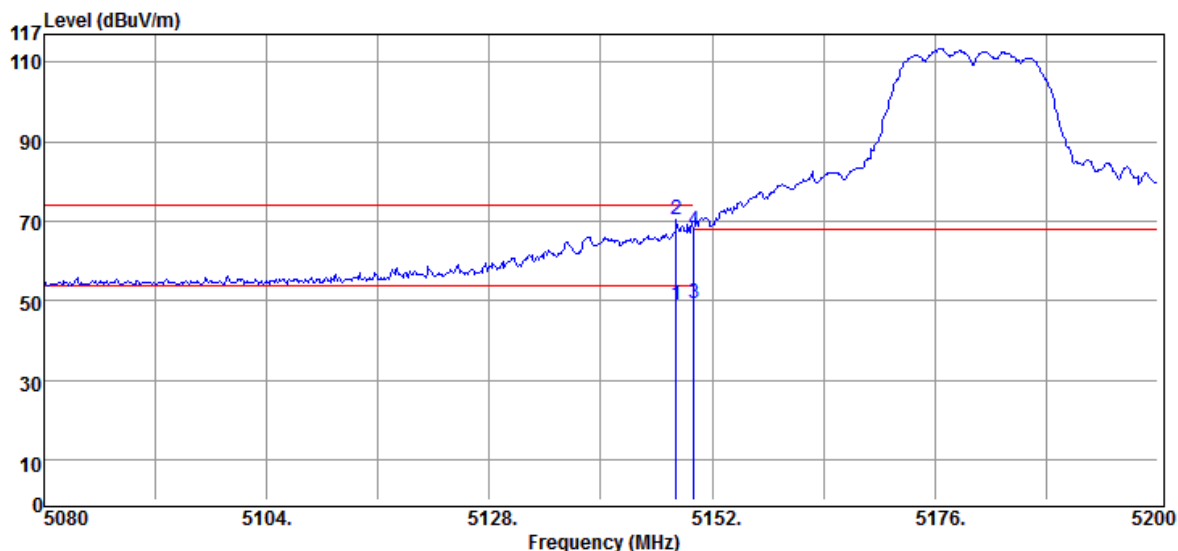
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Dipole Antenna

Project Number : T190321W03
 Operation Band : 802.11a B1
 Fundamental Frequency : 5180 MHz
 Operation Mode : Bandedge CH LOW
 EUT Pol. : H Plane

Test Date : 2019-04-08
 Temp./Humi. : 23 deg_C / 62 RH
 Engineer : Jerry
 Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5148.16	Average	44.57	4.55	49.12	54.00	-4.88
5148.16	Peak	65.89	4.55	70.44	74.00	-3.56
5150.00	Average	44.84	4.55	49.39	54.00	-4.61
5150.00	Peak	63.21	4.55	67.76	74.00	-6.24

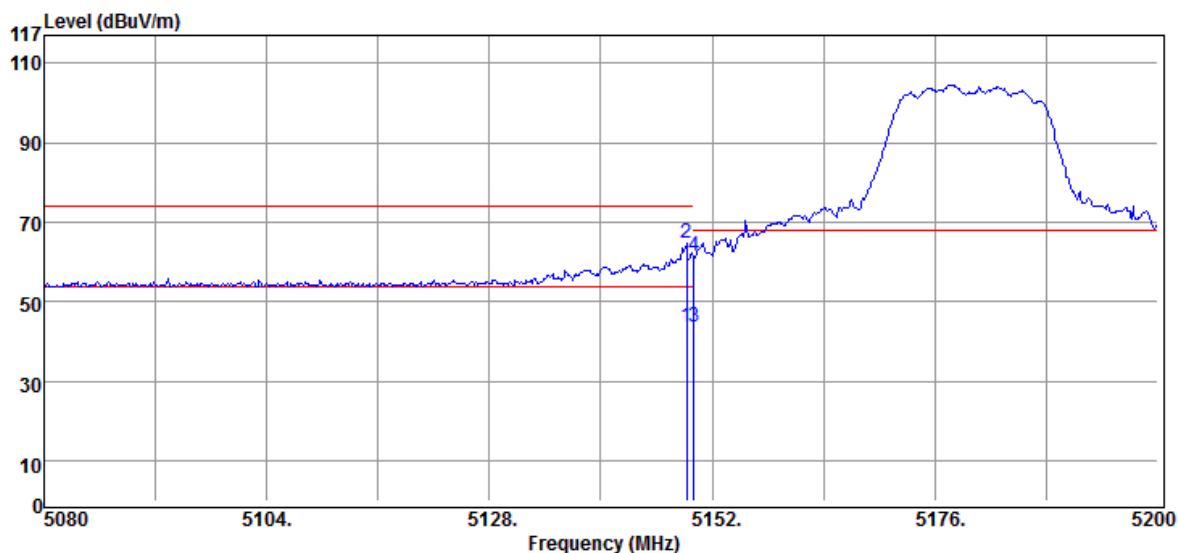
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Project Number : T190321W03
Operation Band :802.11a B1
Fundamental Frequency :5180 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :H Plane

Test Date :2019-04-08
Temp./Humi. :23 deg_C / 62 RH
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5149.24	Average	39.15	4.54	43.69	54.00	-10.31
5149.24	Peak	60.28	4.54	64.82	74.00	-9.18
5150.00	Average	39.21	4.55	43.76	54.00	-10.24
5150.00	Peak	57.01	4.55	61.56	74.00	-12.44

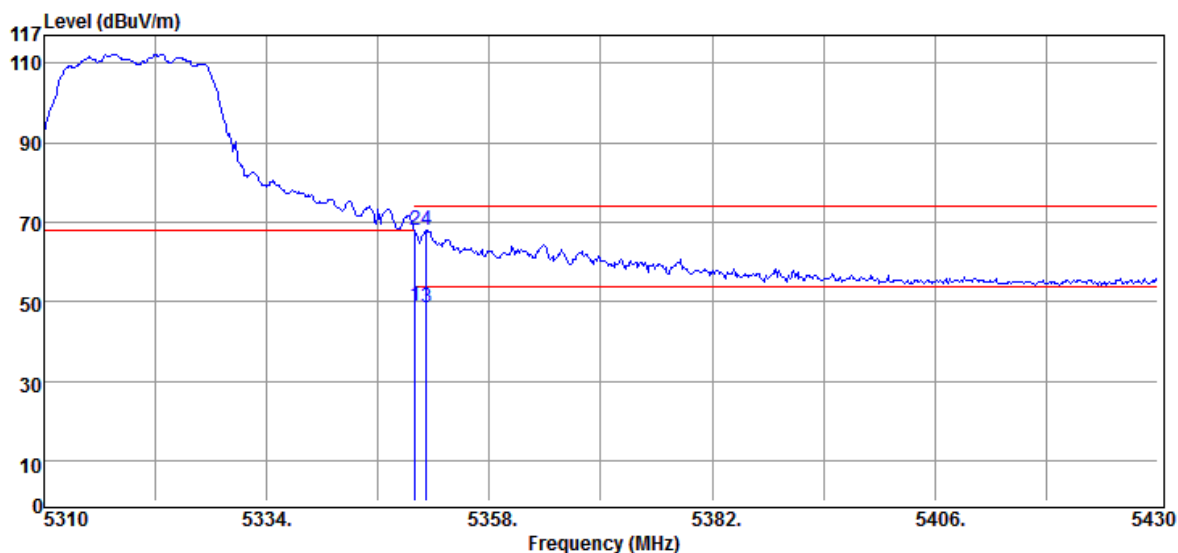
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Project Number : T190321W03
Operation Band : 802.11a B2a
Fundamental Frequency : 5320 MHz
Operation Mode : Bandedge CH HIGH
EUT Pol. : H Plane

Test Date : 2019-04-08
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



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	43.91	5.19	49.10	54.00	-4.90
5350.00	Peak	62.88	5.19	68.07	74.00	-5.93
5351.16	Average	43.28	5.20	48.48	54.00	-5.52
5351.16	Peak	62.69	5.20	67.89	74.00	-6.11

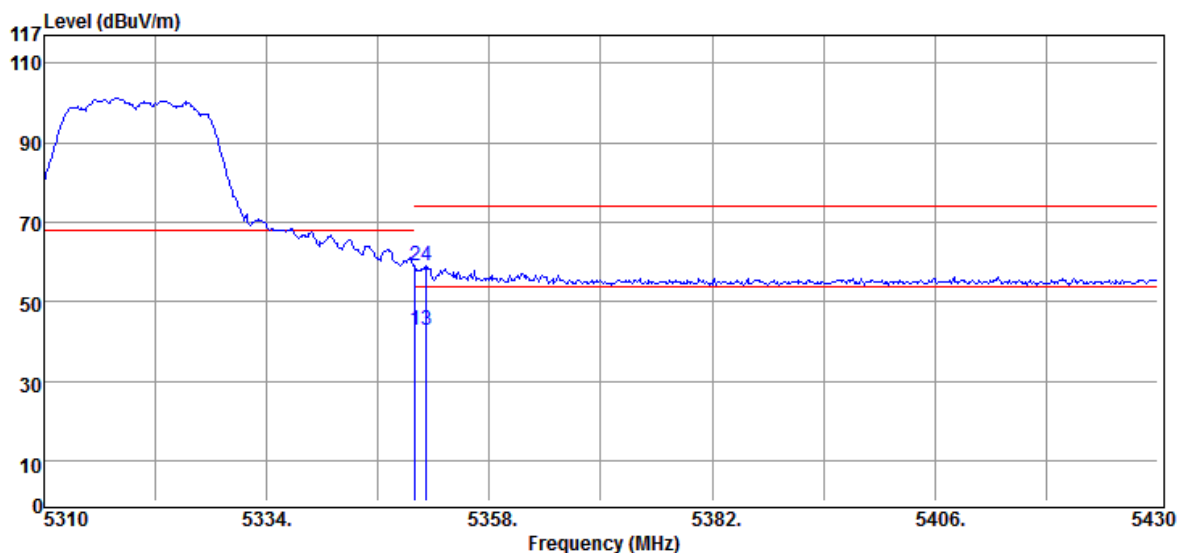
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Project Number : T190321W03
Operation Band : 802.11a B2a
Fundamental Frequency : 5320 MHz
Operation Mode : Bandedge CH HIGH
EUT Pol. : H Plane

Test Date : 2019-04-08
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : HORIZONTAL



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	37.66	5.19	42.85	54.00	-11.15
5350.00	Peak	53.95	5.19	59.14	74.00	-14.86
5351.16	Average	37.64	5.20	42.84	54.00	-11.16
5351.16	Peak	53.87	5.20	59.07	74.00	-14.93

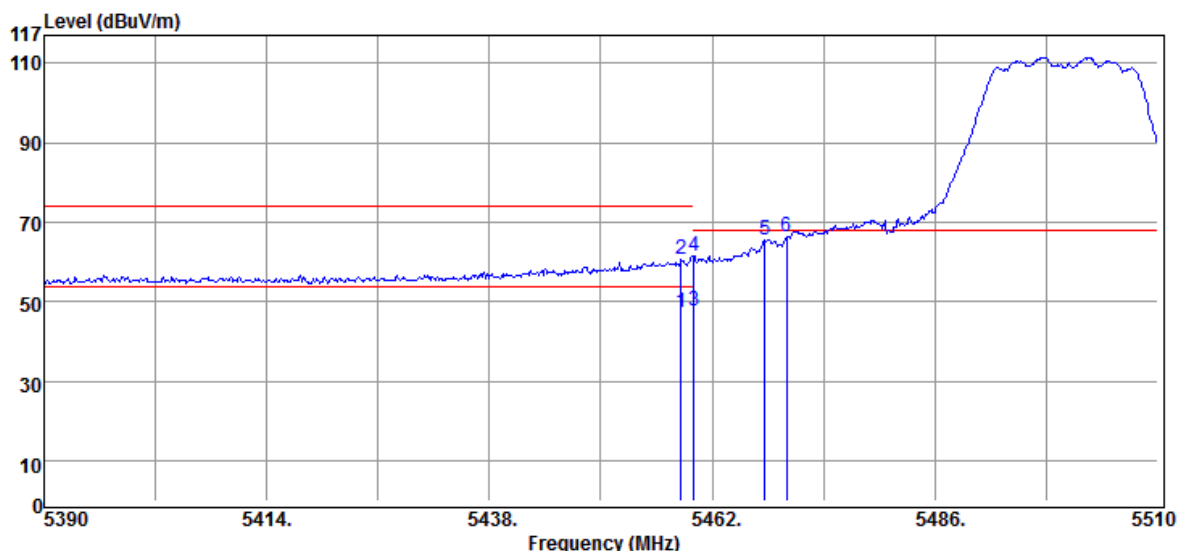
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Project Number : T190321W03
Operation Band :802.11a B2c
Fundamental Frequency :5500 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :H Plane

Test Date :2019-04-08
Temp./Humi. :23 deg_C / 62 RH
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5458.64	Average	41.82	5.54	47.36	54.00	-6.64
5458.64	Peak	55.01	5.54	60.55	74.00	-13.45
5460.00	Average	42.25	5.54	47.79	54.00	-6.21
5460.00	Peak	55.98	5.54	61.52	74.00	-12.48
5467.64	Peak	60.23	5.52	65.75	68.20	-2.45
5470.00	Peak	60.99	5.52	66.51	68.20	-1.69

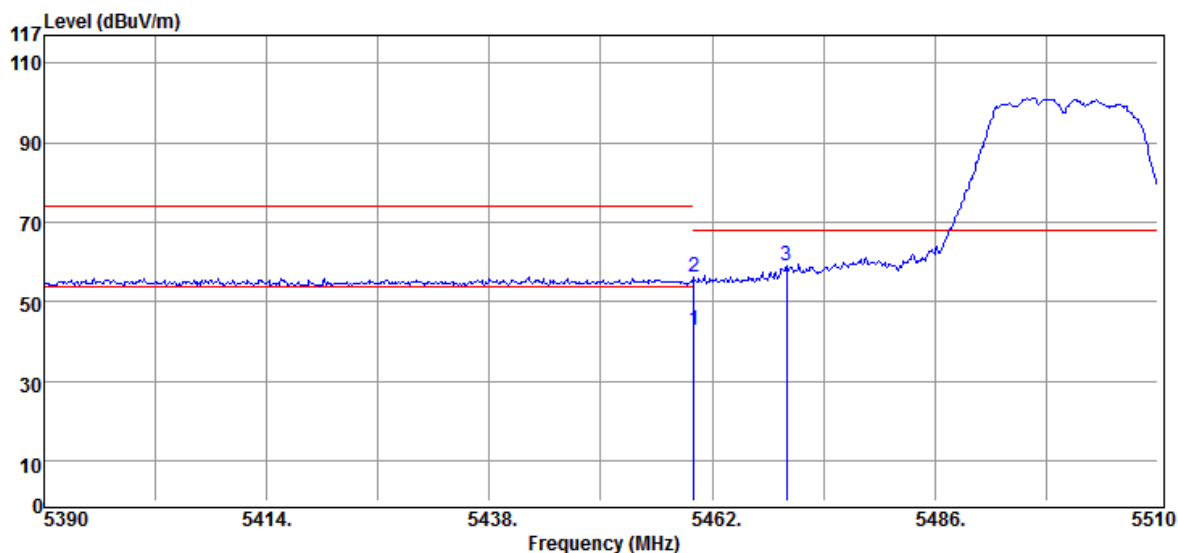
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Project Number : T190321W03
Operation Band :802.11a B2c
Fundamental Frequency :5500 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :H Plane

Test Date :2019-04-08
Temp./Humi. :23 deg_C / 62 RH
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5460.00	Average	37.35	5.54	42.89	54.00	-11.11
5460.00	Peak	50.60	5.54	56.14	74.00	-17.86
5470.00	Peak	53.43	5.52	58.95	68.20	-9.25

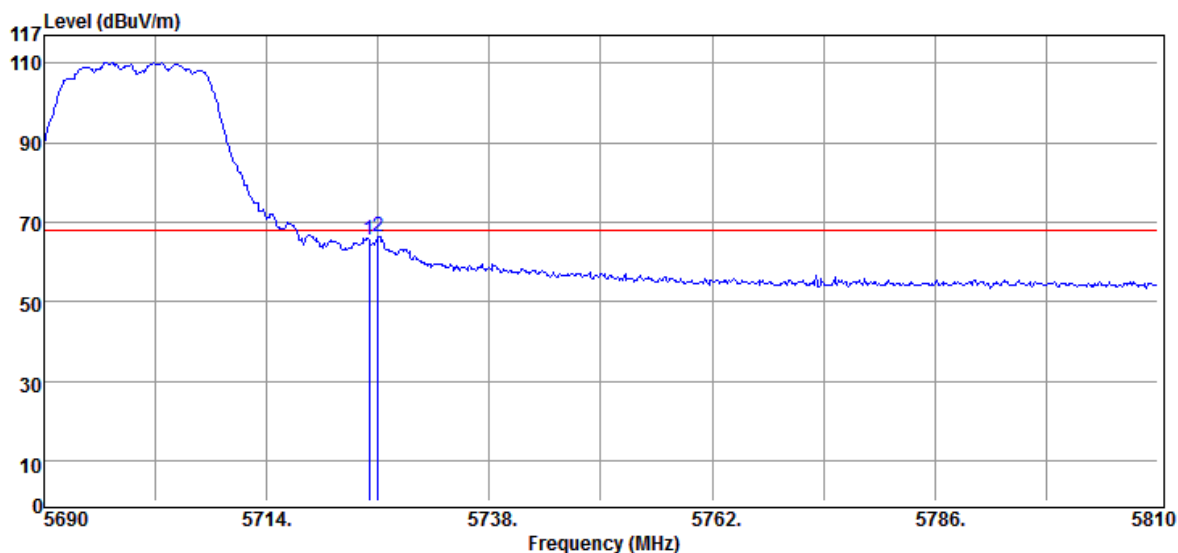
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Project Number : T190321W03
Operation Band :802.11a B2c
Fundamental Frequency :5700 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :H Plane

Test Date :2019-04-08
Temp./Humi. :23 deg_C / 62 RH
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.00	Peak	59.22	6.55	65.77	68.20	-2.43
5726.00	Peak	60.00	6.54	66.54	68.20	-1.66

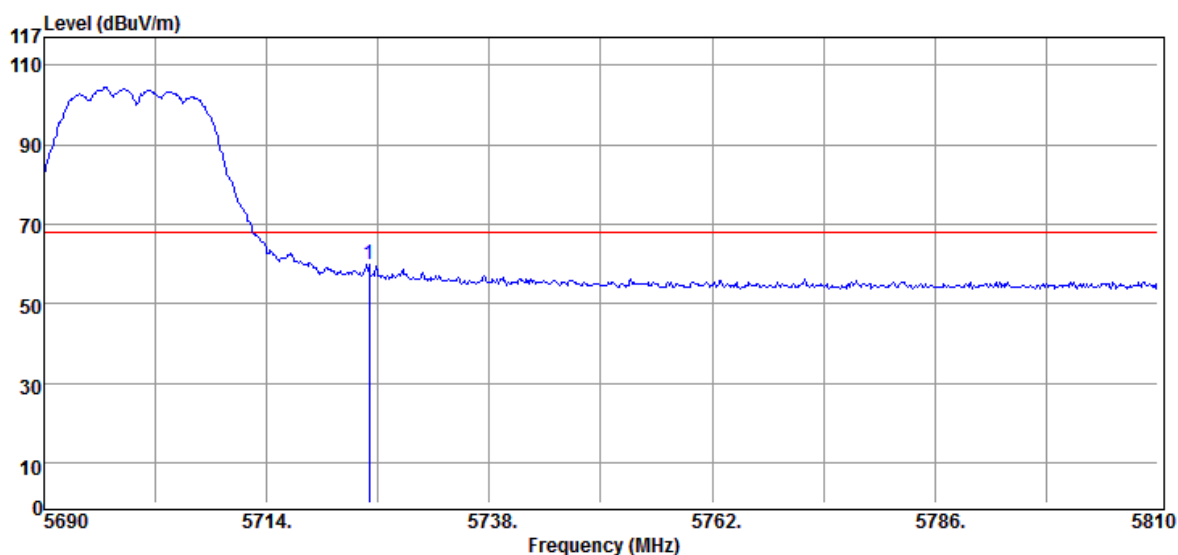
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Project Number : T190321W03
Operation Band :802.11a B2c
Fundamental Frequency :5700 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :H Plane

Test Date :2019-04-08
Temp./Humi. :23 deg_C / 62 RH
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.00	Peak	53.29	6.55	59.84	68.20	-8.36

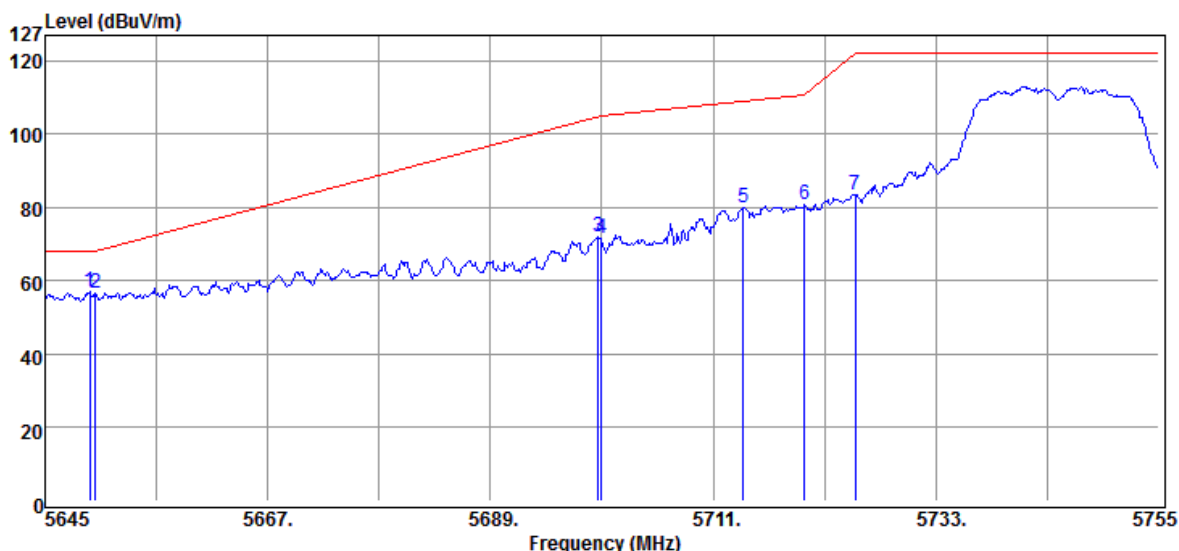
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Project Number : T190321W03
 Operation Band :802.11a B3
 Fundamental Frequency :5745 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :H Plane

Test Date :2019-04-08
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Jerry
 Measurement Antenna Pol. :VERTICAL



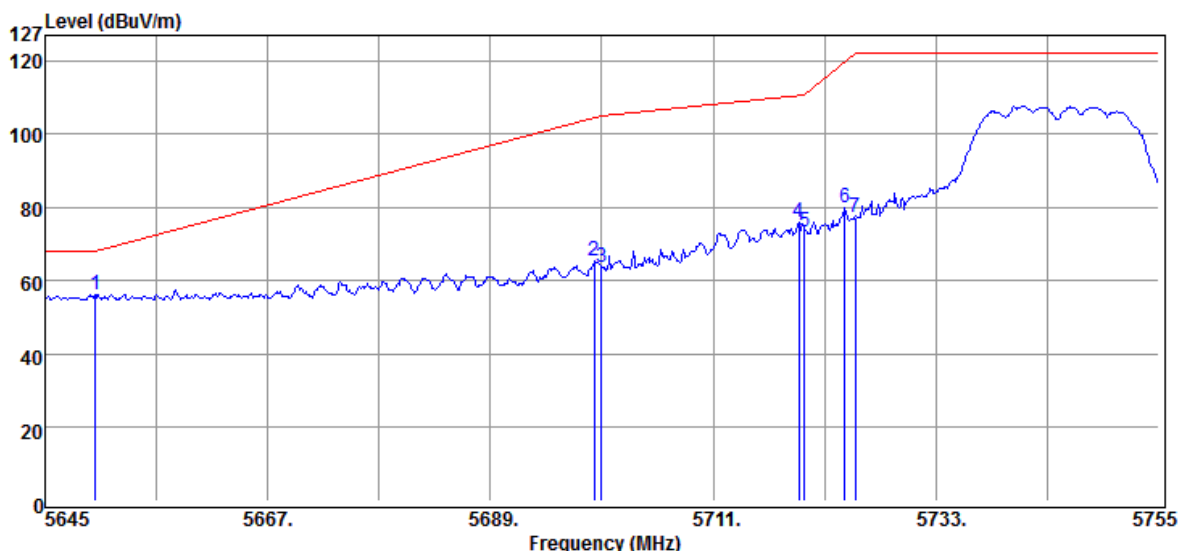
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5649.40	Peak	51.43	5.90	57.33	68.23	-10.90
5650.00	Peak	50.71	5.91	56.62	68.23	-11.61
5699.67	Peak	65.45	6.43	71.88	104.99	-33.11
5700.00	Peak	65.10	6.43	71.53	105.23	-33.70
5713.97	Peak	73.66	6.51	80.17	109.14	-28.97
5720.00	Peak	74.28	6.55	80.83	110.83	-30.00
5725.00	Peak	77.16	6.55	83.71	122.23	-38.52

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Project Number	: T190321W03	Test Date	:2019-04-08
Operation Band	:802.11a B3	Temp./Humi.	:23 deg_C / 62 RH
Fundamental Frequency	:5745 MHz	Engineer	:Jerry
Operation Mode	:Bandedge CH LOW	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:H Plane		



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	50.15	5.91	56.06	68.23	-12.17
5699.23	Peak	58.85	6.41	65.26	104.66	-39.40
5700.00	Peak	57.20	6.43	63.63	105.23	-41.60
5719.47	Peak	69.59	6.55	76.14	110.68	-34.54
5720.00	Peak	66.66	6.55	73.21	110.83	-37.62
5723.98	Peak	73.26	6.55	79.81	119.90	-40.09
5725.00	Peak	70.64	6.55	77.19	122.23	-45.04

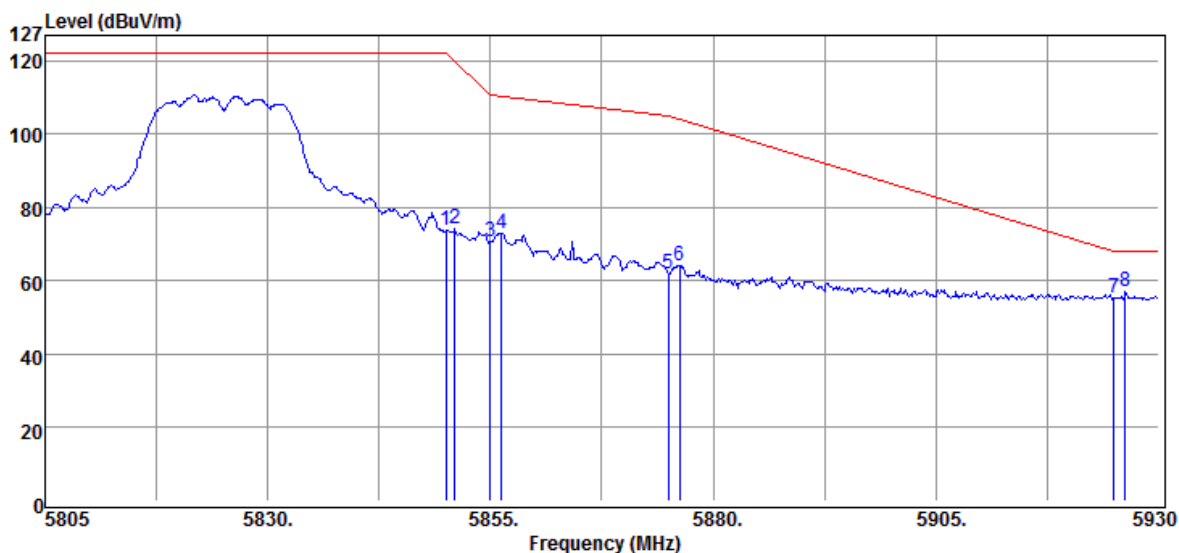
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Project Number : T190321W03
Operation Band :802.11a B3
Fundamental Frequency :5825 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :H Plane

Test Date :2019-04-08
Temp./Humi. :23 deg_C / 62 RH
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



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	67.52	6.41	73.93	122.23	-48.30
5851.00	Peak	67.71	6.42	74.13	119.95	-45.82
5855.00	Peak	64.23	6.43	70.66	110.83	-40.17
5856.25	Peak	66.46	6.43	72.89	110.48	-37.59
5875.00	Peak	55.57	6.49	62.06	105.23	-43.17
5876.25	Peak	57.83	6.50	64.33	104.31	-39.98
5925.00	Peak	48.97	6.44	55.41	68.23	-12.82
5926.25	Peak	50.72	6.44	57.16	68.23	-11.07

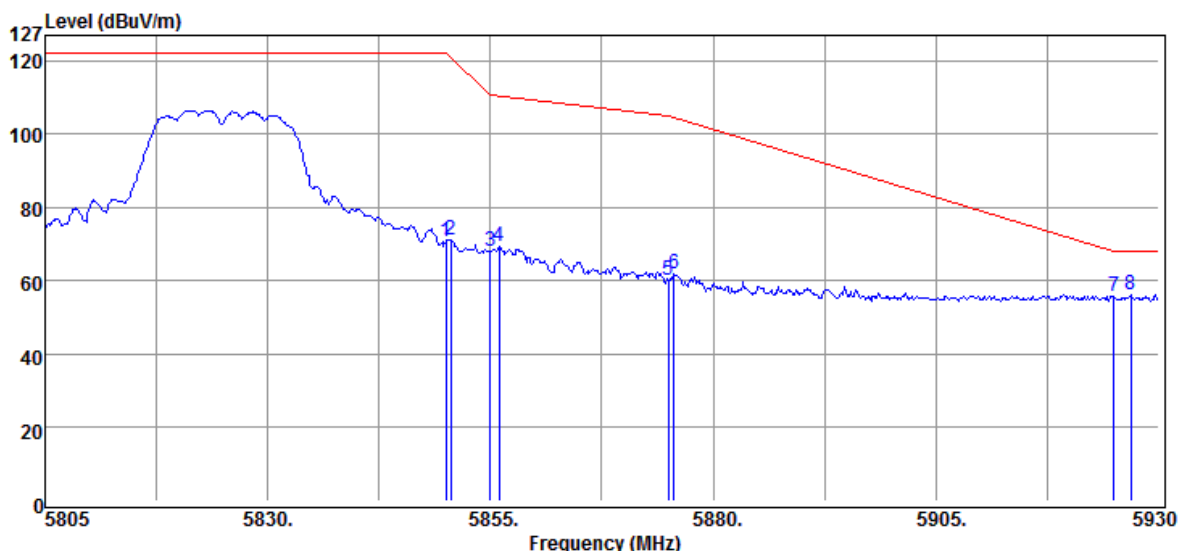
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Project Number : T190321W03
 Operation Band :802.11a B3
 Fundamental Frequency :5825 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :H Plane

Test Date :2019-04-08
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Jerry
 Measurement Antenna Pol. :HORIZONTAL



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	64.51	6.41	70.92	122.23	-51.31
5850.50	Peak	64.76	6.42	71.18	121.09	-49.91
5855.00	Peak	61.75	6.43	68.18	110.83	-42.65
5856.00	Peak	62.88	6.43	69.31	110.55	-41.24
5875.00	Peak	53.58	6.49	60.07	105.23	-45.16
5875.63	Peak	55.38	6.50	61.88	104.77	-42.89
5925.00	Peak	49.37	6.44	55.81	68.23	-12.42
5926.88	Peak	50.02	6.44	56.46	68.23	-11.77

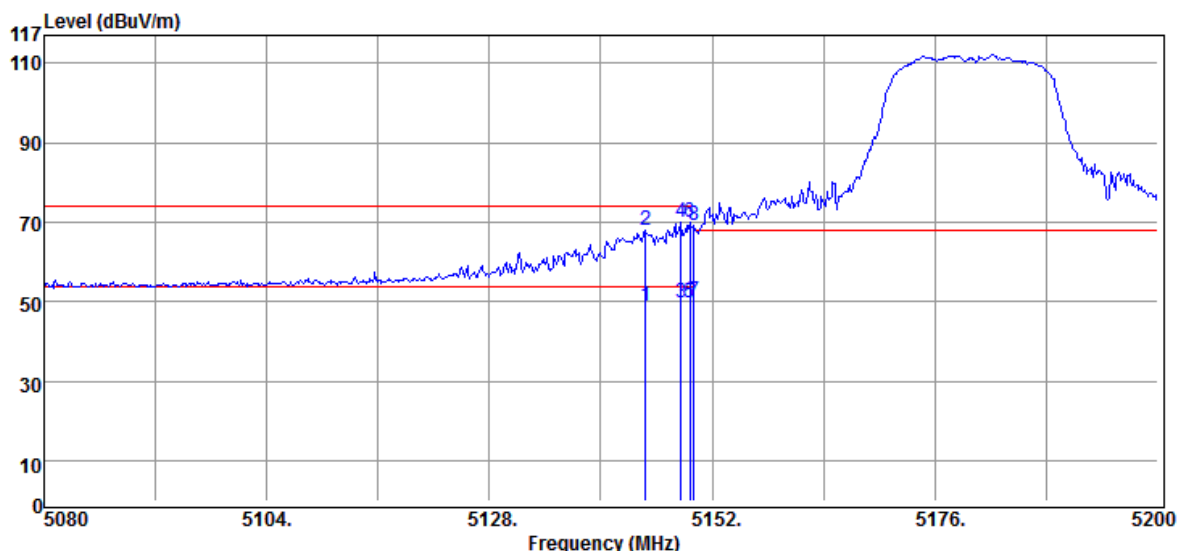
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Project Number : T190321W03
Operation Band :802.11n20 B1
Fundamental Frequency :5180 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :H Plane

Test Date :2019-04-08
Temp./Humi. :23 deg_C / 62 RH
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5144.80	Average	44.25	4.55	48.80	54.00	-5.20
5144.80	Peak	63.39	4.55	67.94	74.00	-6.06
5148.64	Average	45.21	4.54	49.75	54.00	-4.25
5148.64	Peak	65.39	4.54	69.93	74.00	-4.07
5149.60	Average	45.43	4.55	49.98	54.00	-4.02
5149.60	Peak	65.51	4.55	70.06	74.00	-3.94
5150.00	Average	45.67	4.55	50.22	54.00	-3.78
5150.00	Peak	64.72	4.55	69.27	74.00	-4.73

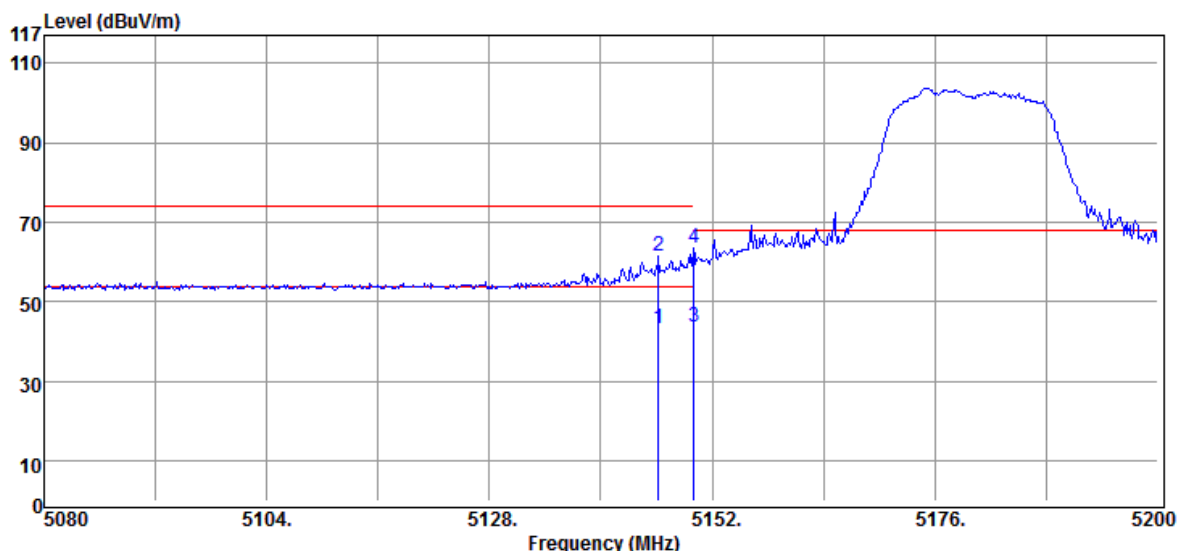
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Project Number : T190321W03
Operation Band :802.11n20 B1
Fundamental Frequency :5180 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :H Plane

Test Date :2019-04-08
Temp./Humi. :23 deg_C / 62 RH
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5146.24	Average	38.79	4.55	43.34	54.00	-10.66
5146.24	Peak	57.05	4.55	61.60	74.00	-12.40
5150.00	Average	39.26	4.55	43.81	54.00	-10.19
5150.00	Peak	59.11	4.55	63.66	74.00	-10.34

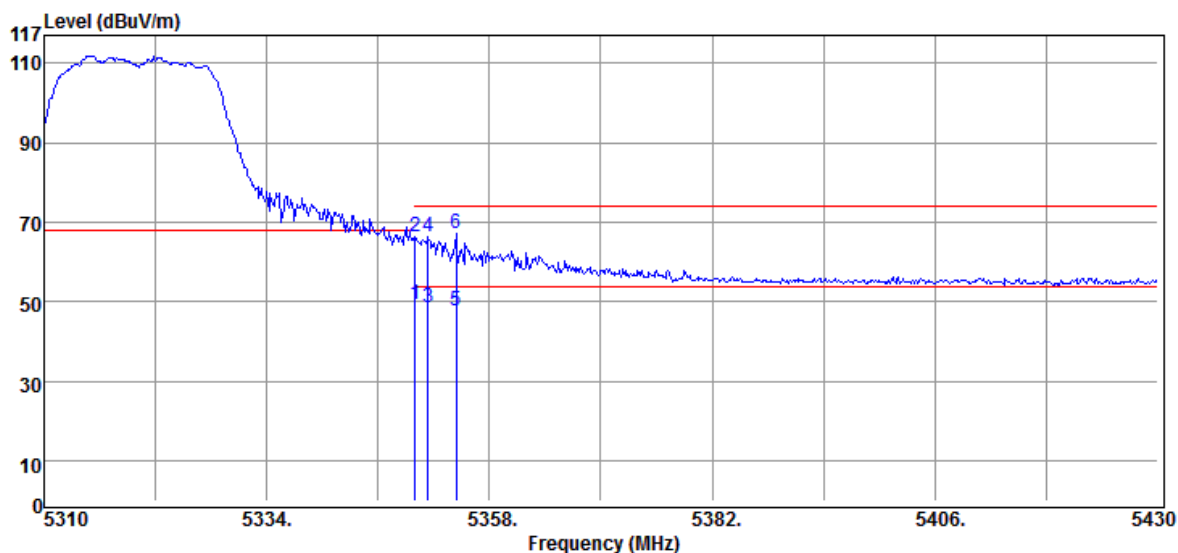
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Project Number : T190321W03
 Operation Band :802.11n20 B2a
 Fundamental Frequency :5320 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :H Plane

Test Date :2019-04-08
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Jerry
 Measurement Antenna Pol. :VERTICAL



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	44.27	5.19	49.46	54.00	-4.54
5350.00	Peak	61.36	5.19	66.55	74.00	-7.45
5351.40	Average	43.25	5.20	48.45	54.00	-5.55
5351.40	Peak	61.03	5.20	66.23	74.00	-7.77
5354.40	Average	42.36	5.21	47.57	54.00	-6.43
5354.40	Peak	62.06	5.21	67.27	74.00	-6.73

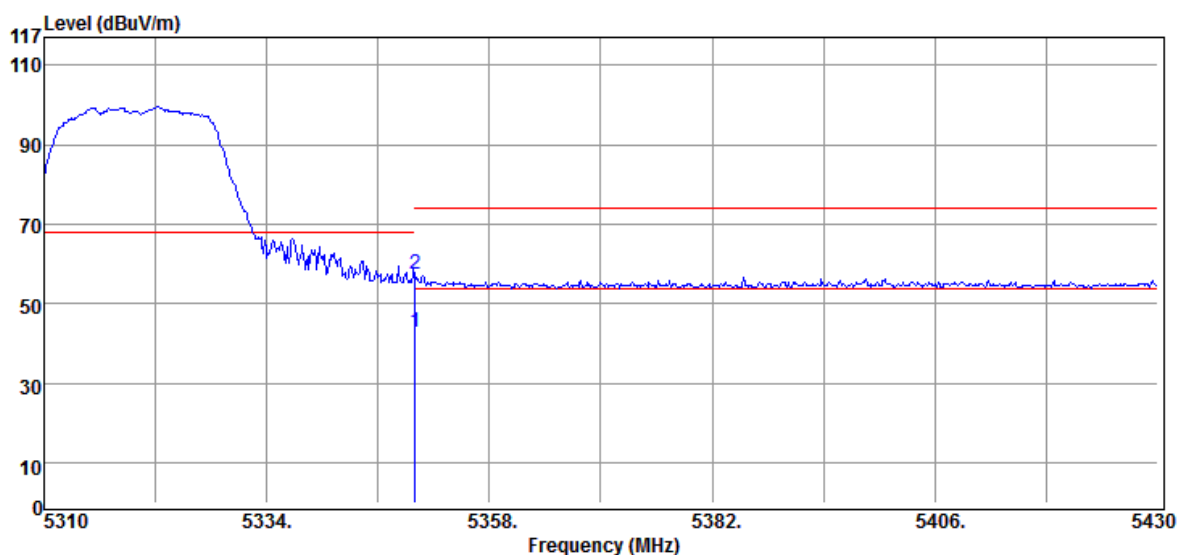
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Project Number : T190321W03
Operation Band :802.11n20 B2a
Fundamental Frequency :5320 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :H Plane

Test Date :2019-04-08
Temp./Humi. :23 deg_C / 62 RH
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



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	37.88	5.19	43.07	54.00	-10.93
5350.00	Peak	52.38	5.19	57.57	74.00	-16.43

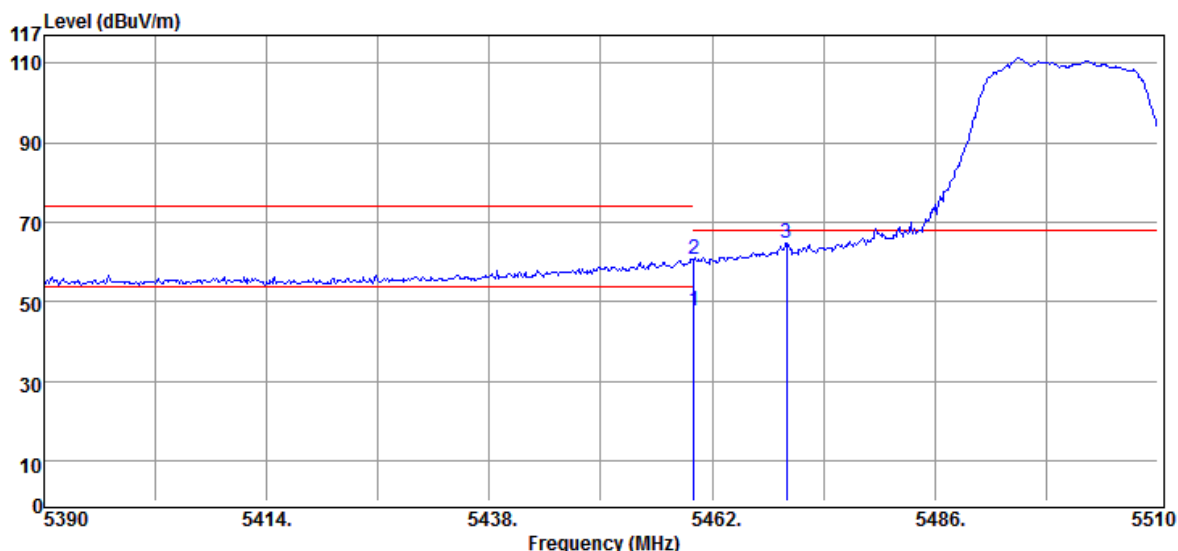
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Project Number : T190321W03
Operation Band :802.11n20 B2c
Fundamental Frequency :5500 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :H Plane

Test Date :2019-04-08
Temp./Humi. :23 deg_C / 62 RH
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5460.00	Average	42.35	5.54	47.89	54.00	-6.11
5460.00	Peak	55.31	5.54	60.85	74.00	-13.15
5470.00	Peak	59.23	5.52	64.75	68.20	-3.45

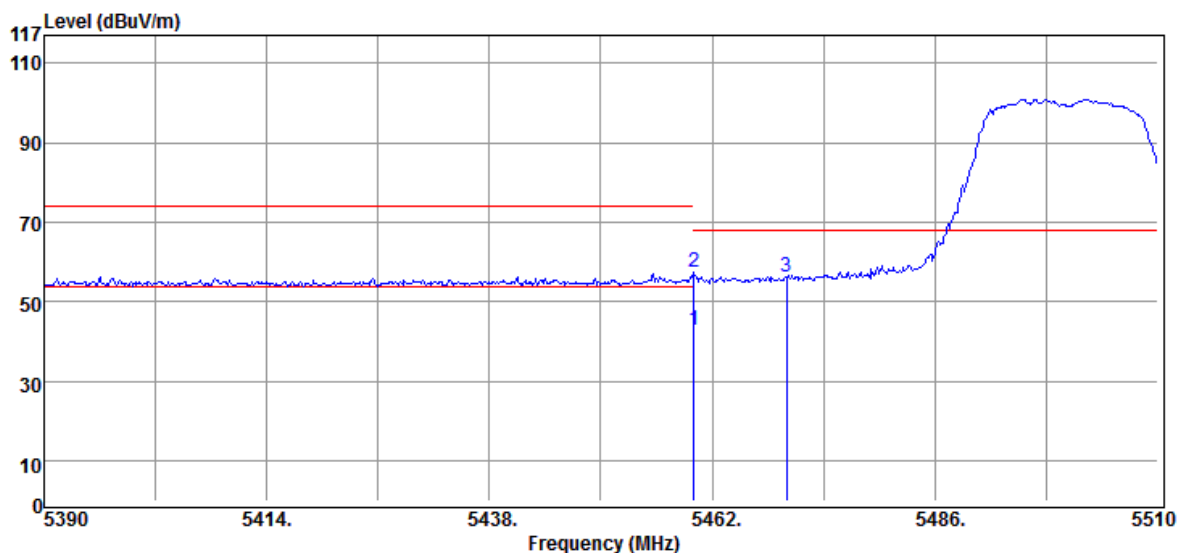
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Project Number : T190321W03
Operation Band :802.11n20 B2c
Fundamental Frequency :5500 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :H Plane

Test Date :2019-04-08
Temp./Humi. :23 deg_C / 62 RH
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5460.00	Average	37.39	5.54	42.93	54.00	-11.07
5460.00	Peak	51.93	5.54	57.47	74.00	-16.53
5470.00	Peak	50.84	5.52	56.36	68.20	-11.84

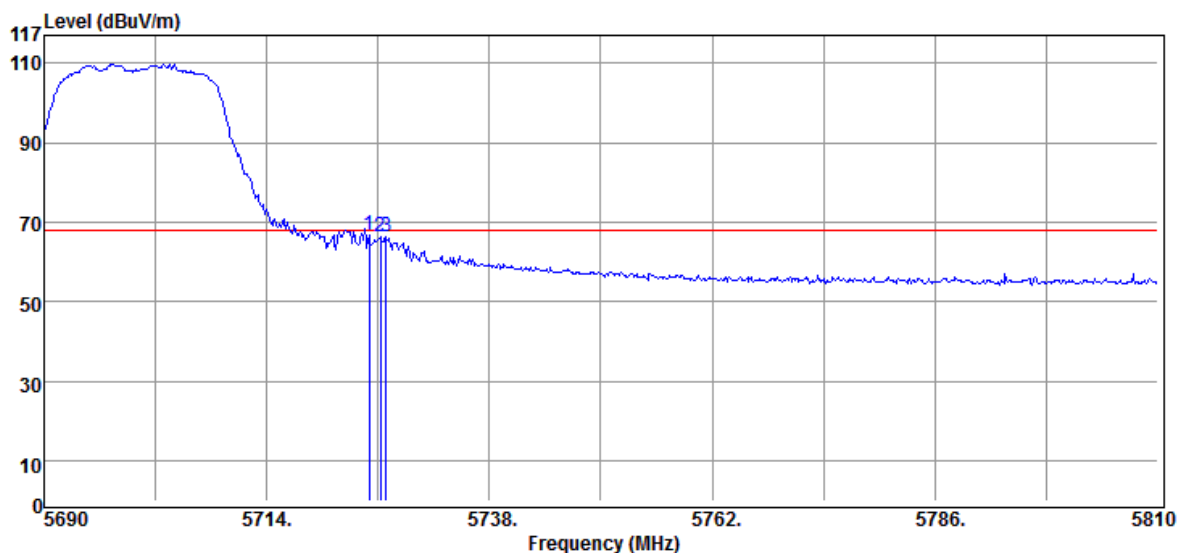
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Project Number : T190321W03
Operation Band : 802.11n20 B2c
Fundamental Frequency : 5700 MHz
Operation Mode : Bandedge CH HIGH
EUT Pol. : H Plane

Test Date : 2019-04-08
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.04	Peak	60.12	6.55	66.67	68.20	-1.53
5726.24	Peak	59.67	6.54	66.21	68.20	-1.99
5726.84	Peak	59.86	6.54	66.40	68.20	-1.80

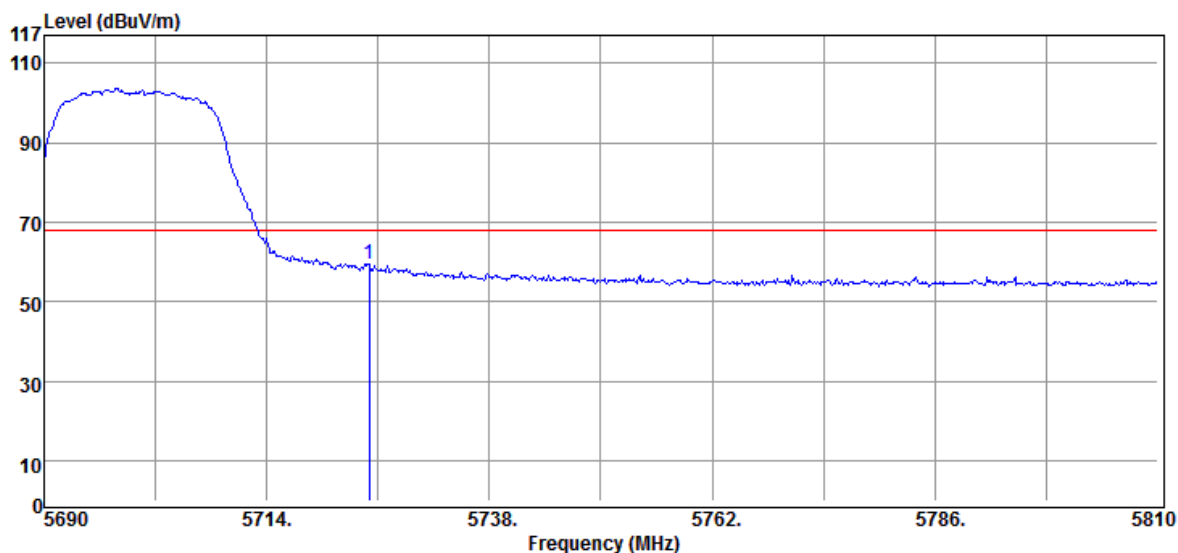
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Project Number : T190321W03
Operation Band :802.11n20 B2c
Fundamental Frequency :5700 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :H Plane

Test Date :2019-04-08
Temp./Humi. :23 deg_C / 62 RH
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.04	Peak	52.93	6.55	59.48	68.20	-8.72

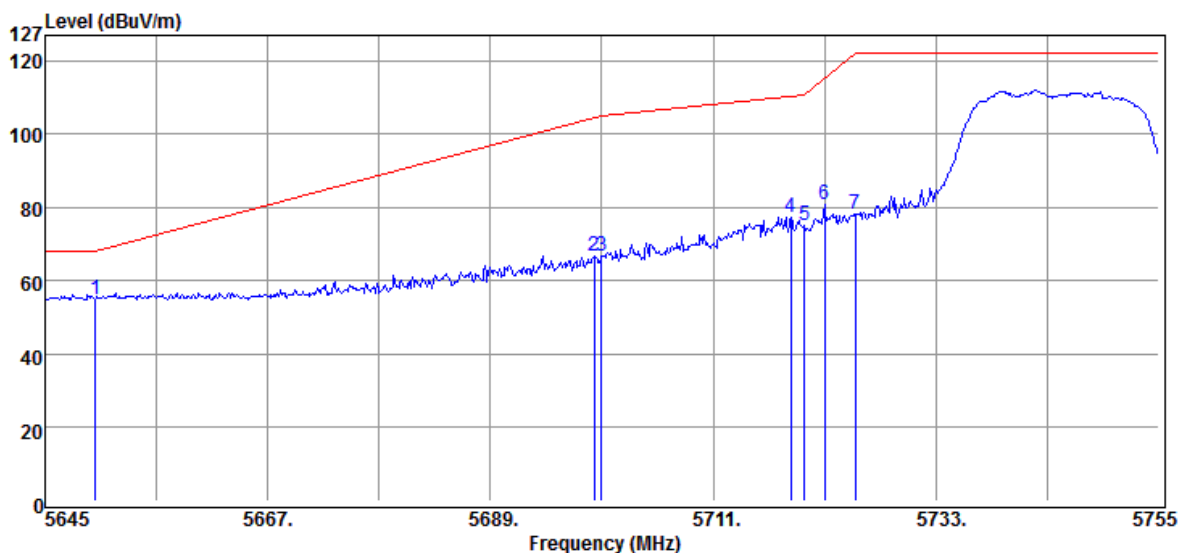
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Project Number : T190321W03
Operation Band :802.11n20 B3
Fundamental Frequency :5745 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :H Plane

Test Date :2019-04-08
Temp./Humi. :23 deg_C / 62 RH
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



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	49.20	5.91	55.11	68.23	-13.12
5699.23	Peak	60.34	6.41	66.75	104.66	-37.91
5700.00	Peak	60.15	6.43	66.58	105.23	-38.65
5718.70	Peak	70.97	6.55	77.52	110.47	-32.95
5720.00	Peak	68.71	6.55	75.26	110.83	-35.57
5722.00	Peak	74.35	6.55	80.90	115.39	-34.49
5725.00	Peak	71.52	6.55	78.07	122.23	-44.16

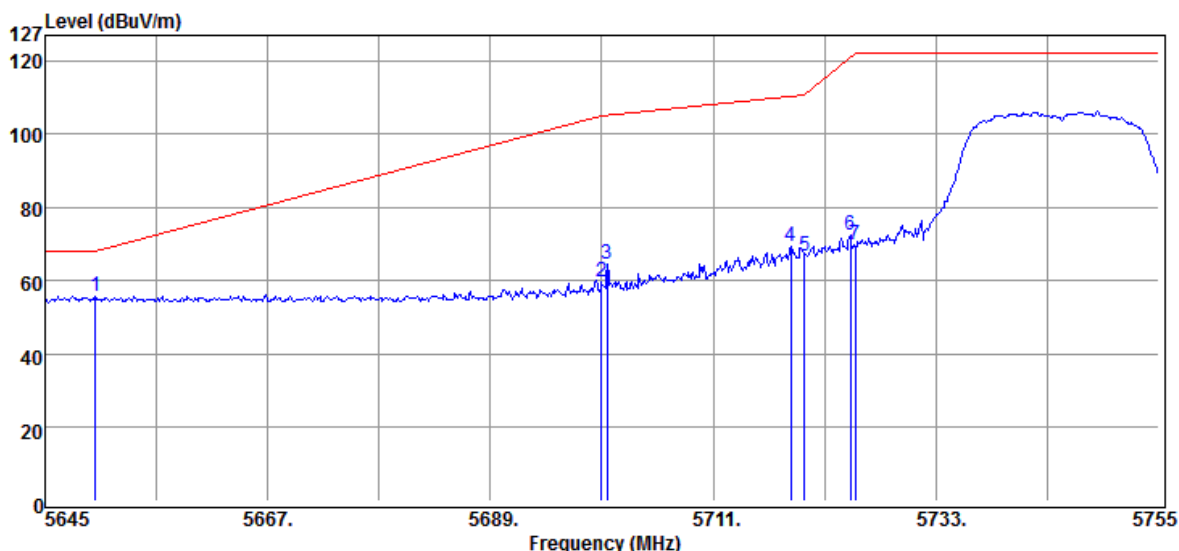
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Project Number : T190321W03
Operation Band :802.11n20 B3
Fundamental Frequency :5745 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :H Plane

Test Date :2019-04-08
Temp./Humi. :23 deg_C / 62 RH
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



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	49.86	5.91	55.77	68.23	-12.46
5700.00	Peak	53.49	6.43	59.92	105.23	-45.31
5700.55	Peak	58.10	6.43	64.53	105.38	-40.85
5718.70	Peak	62.76	6.55	69.31	110.47	-41.16
5720.00	Peak	60.05	6.55	66.60	110.83	-44.23
5724.53	Peak	65.82	6.55	72.37	121.16	-48.79
5725.00	Peak	63.23	6.55	69.78	122.23	-52.45

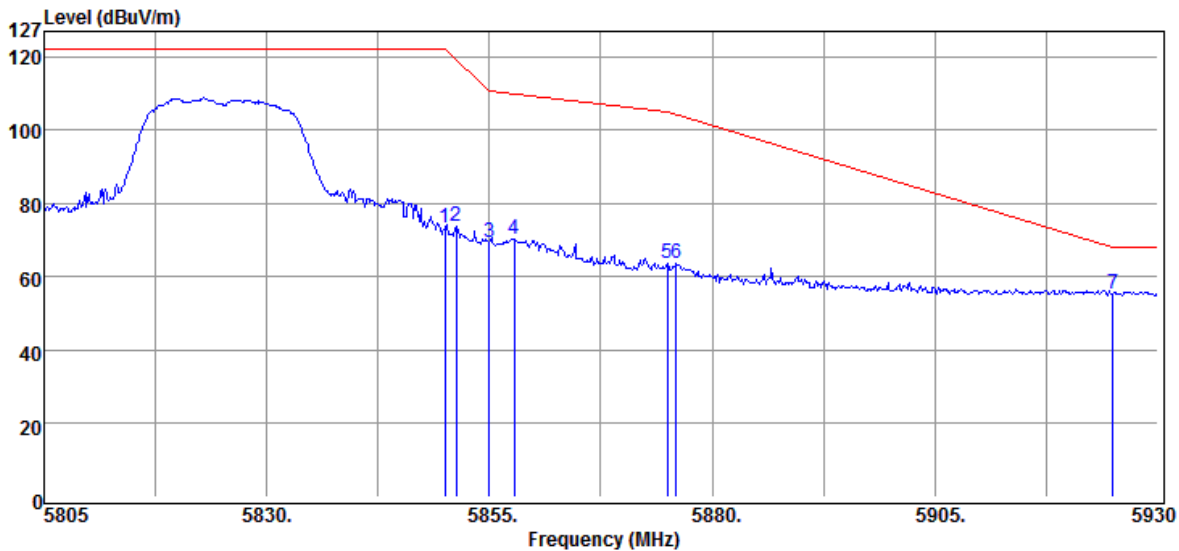
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Project Number : T190321W03
Operation Band :802.11n20 B3
Fundamental Frequency :5825 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :H Plane

Test Date :2019-04-08
Temp./Humi. :23 deg_C / 62 RH
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



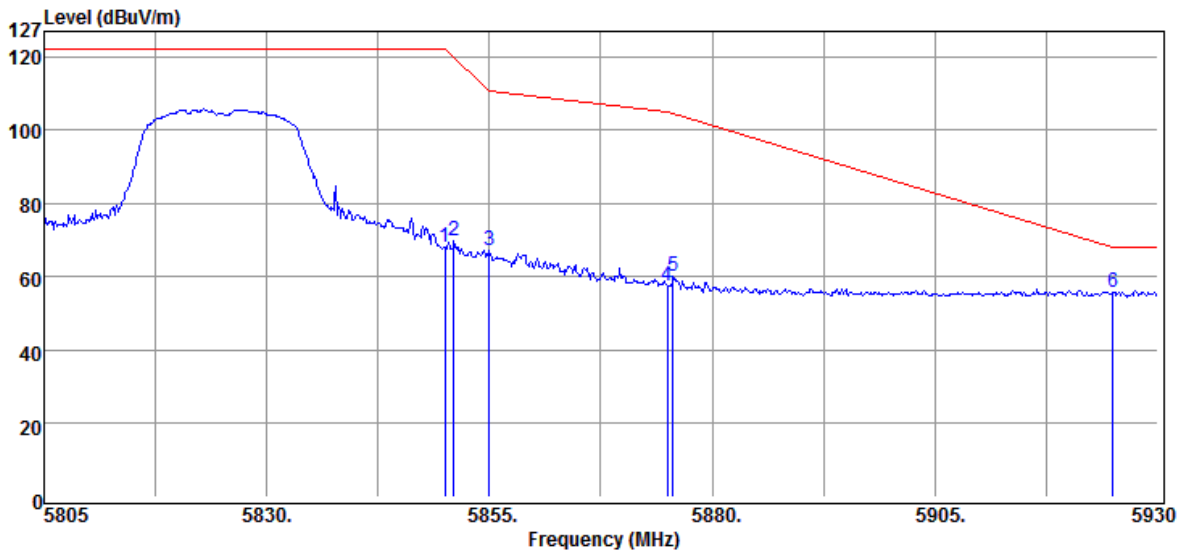
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	67.15	6.41	73.56	122.23	-48.67
5851.25	Peak	67.34	6.42	73.76	119.38	-45.62
5855.00	Peak	62.98	6.43	69.41	110.83	-41.42
5857.75	Peak	63.81	6.43	70.24	110.06	-39.82
5875.00	Peak	57.14	6.49	63.63	105.23	-41.60
5876.00	Peak	57.03	6.50	63.53	104.49	-40.96
5925.00	Peak	49.08	6.44	55.52	68.23	-12.71

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Project Number	: T190321W03	Test Date	:2019-04-08
Operation Band	:802.11n20 B3	Temp./Humi.	:23 deg_C / 62 RH
Fundamental Frequency	:5825 MHz	Engineer	:Jerry
Operation Mode	:Bandedge CH HIGH	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:H Plane		



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	61.77	6.41	68.18	122.23	-54.05
5851.00	Peak	63.26	6.42	69.68	119.95	-50.27
5855.00	Peak	60.93	6.43	67.36	110.83	-43.47
5875.00	Peak	51.29	6.49	57.78	105.23	-47.45
5875.63	Peak	53.55	6.50	60.05	104.77	-44.72
5925.00	Peak	49.26	6.44	55.70	68.23	-12.53

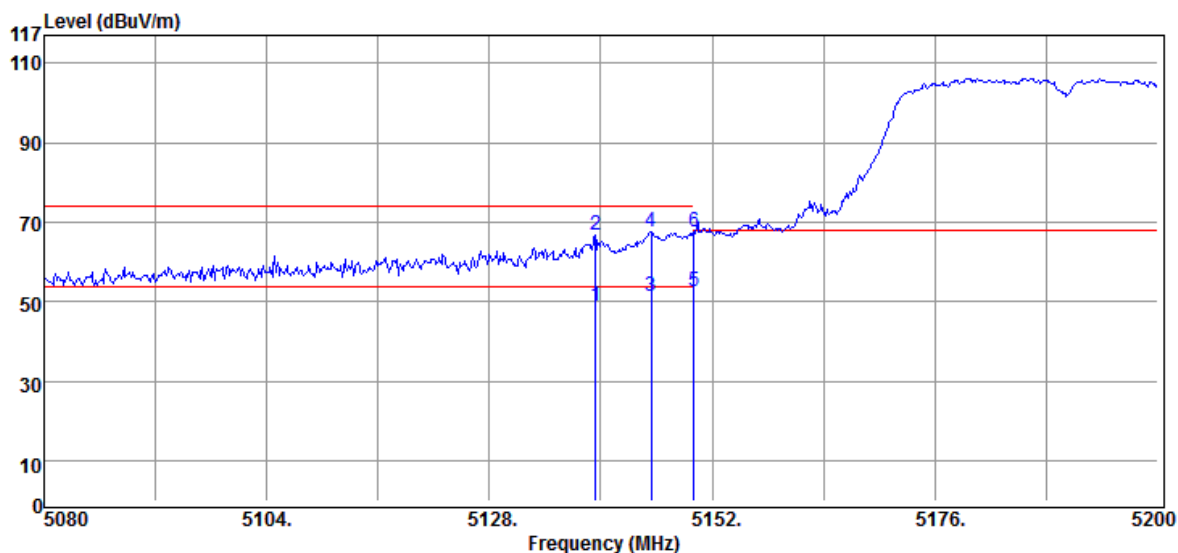
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Project Number : T190321W03
 Operation Band :802.11n40 B1
 Fundamental Frequency :5190 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :H Plane

Test Date :2019-04-08
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Jerry
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5139.40	Average	44.28	4.56	48.84	54.00	-5.16
5139.40	Peak	62.19	4.56	66.75	74.00	-7.25
5145.40	Average	46.70	4.55	51.25	54.00	-2.75
5145.40	Peak	62.97	4.55	67.52	74.00	-6.48
5150.00	Average	48.21	4.55	52.76	54.00	-1.24
5150.00	Peak	62.86	4.55	67.41	74.00	-6.59

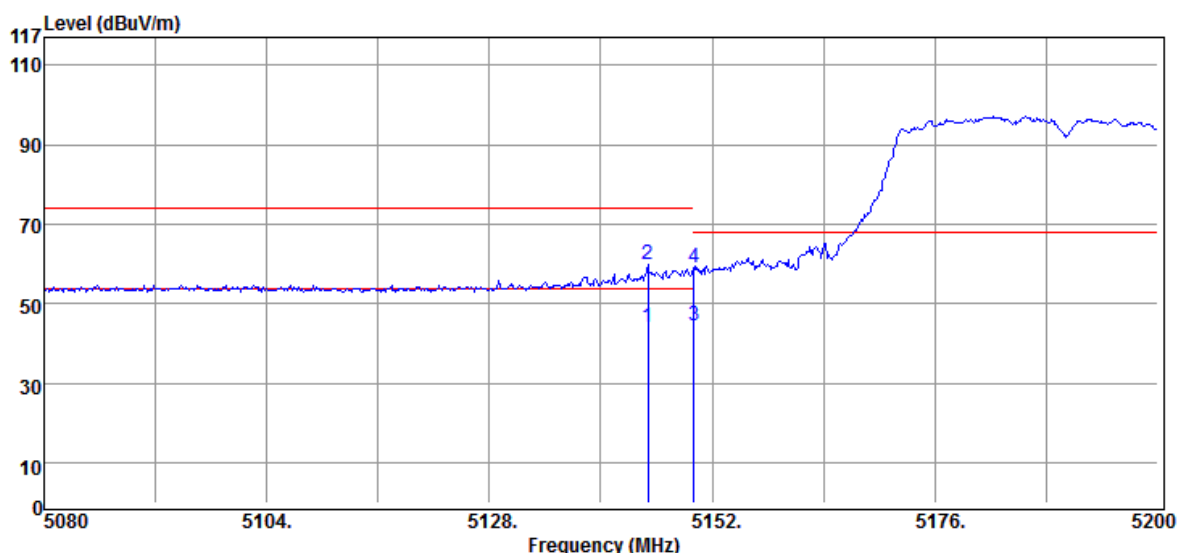
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Project Number : T190321W03
Operation Band :802.11n40 B1
Fundamental Frequency :5190 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :H Plane

Test Date :2019-04-08
Temp./Humi. :23 deg_C / 62 RH
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5145.04	Average	39.67	4.55	44.22	54.00	-9.78
5145.04	Peak	55.46	4.55	60.01	74.00	-13.99
5150.00	Average	40.12	4.55	44.67	54.00	-9.33
5150.00	Peak	54.60	4.55	59.15	74.00	-14.85

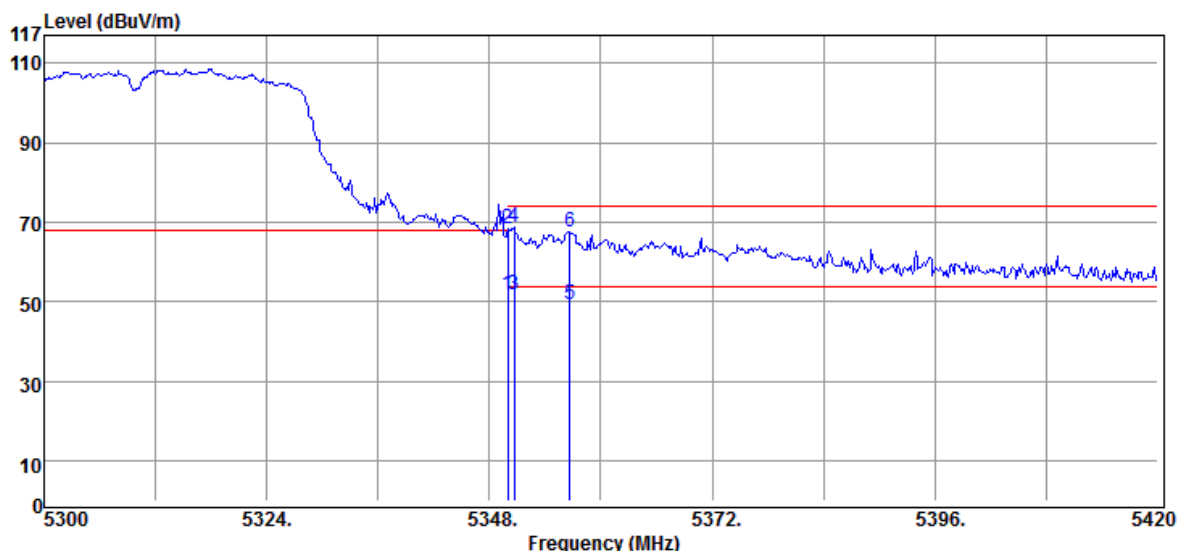
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Project Number : T190321W03
 Operation Band :802.11n40 B2a
 Fundamental Frequency :5310 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :H Plane

Test Date :2019-04-08
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Jerry
 Measurement Antenna Pol. :VERTICAL



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	46.65	5.19	51.84	54.00	-2.16
5350.00	Peak	63.29	5.19	68.48	74.00	-5.52
5350.64	Average	46.54	5.20	51.74	54.00	-2.26
5350.64	Peak	63.61	5.20	68.81	74.00	-5.19
5356.64	Average	44.28	5.21	49.49	54.00	-4.51
5356.64	Peak	62.60	5.21	67.81	74.00	-6.19

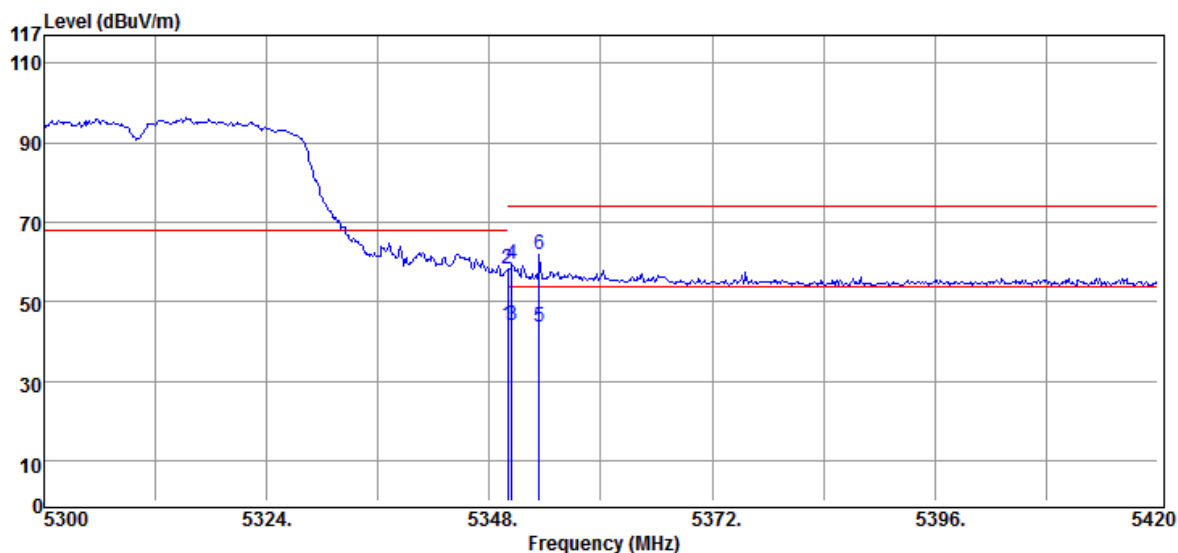
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Project Number : T190321W03
 Operation Band :802.11n40 B2a
 Fundamental Frequency :5310 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :H Plane

Test Date :2019-04-08
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Jerry
 Measurement Antenna Pol. :HORIZONTAL



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	38.96	5.19	44.15	54.00	-9.85
5350.00	Peak	52.98	5.19	58.17	74.00	-15.83
5350.40	Average	38.81	5.20	44.01	54.00	-9.99
5350.40	Peak	54.33	5.20	59.53	74.00	-14.47
5353.40	Average	38.59	5.20	43.79	54.00	-10.21
5353.40	Peak	56.68	5.20	61.88	74.00	-12.12

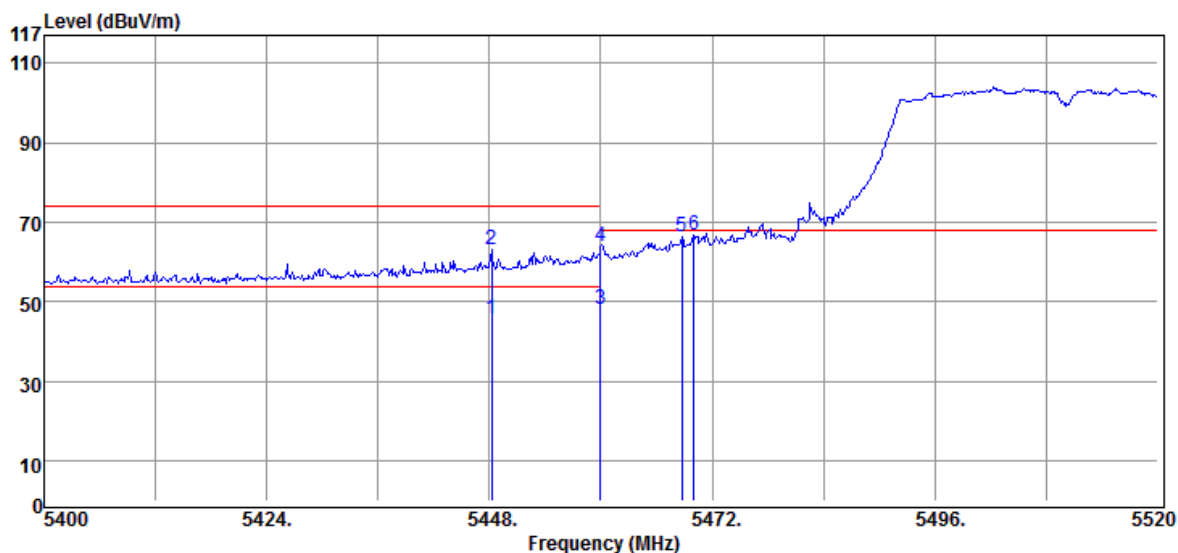
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Project Number : T190321W03
 Operation Band :802.11n40 B2c
 Fundamental Frequency :5510 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :H Plane

Test Date :2019-04-08
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Jerry
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5448.24	Average	40.13	5.56	45.69	54.00	-8.31
5448.24	Peak	57.76	5.56	63.32	74.00	-10.68
5460.00	Average	42.68	5.54	48.22	54.00	-5.78
5460.00	Peak	58.29	5.54	63.83	74.00	-10.17
5468.76	Peak	60.82	5.53	66.35	68.20	-1.85
5470.00	Peak	61.18	5.52	66.70	68.20	-1.50

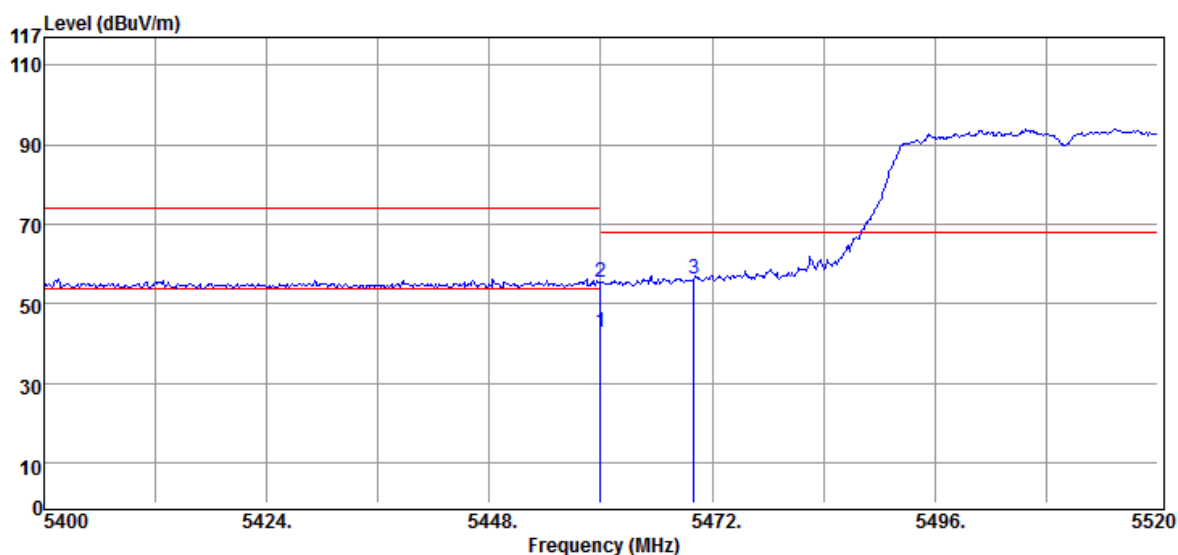
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Project Number : T190321W03
Operation Band :802.11n40 B2c
Fundamental Frequency :5510 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :H Plane

Test Date :2019-04-08
Temp./Humi. :23 deg_C / 62 RH
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



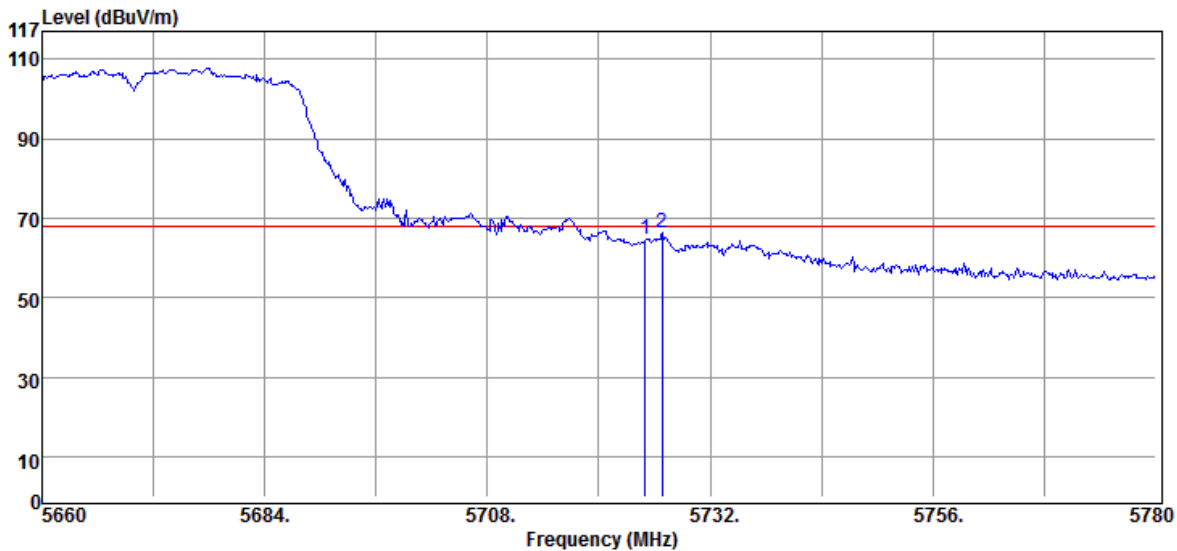
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5460.00	Average	37.18	5.54	42.72	54.00	-11.28
5460.00	Peak	49.78	5.54	55.32	74.00	-18.68
5470.00	Peak	50.75	5.52	56.27	68.20	-11.93

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Project Number	: T190321W03	Test Date	:2019-04-08
Operation Band	:802.11n40 B2c	Temp./Humi.	:23 deg_C / 62 RH
Fundamental Frequency	:5670 MHz	Engineer	:Jerry
Operation Mode	:Bandedge CH HIGH	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:H Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.00	Peak	58.13	6.55	64.68	68.20	-3.52
5726.84	Peak	59.80	6.54	66.34	68.20	-1.86

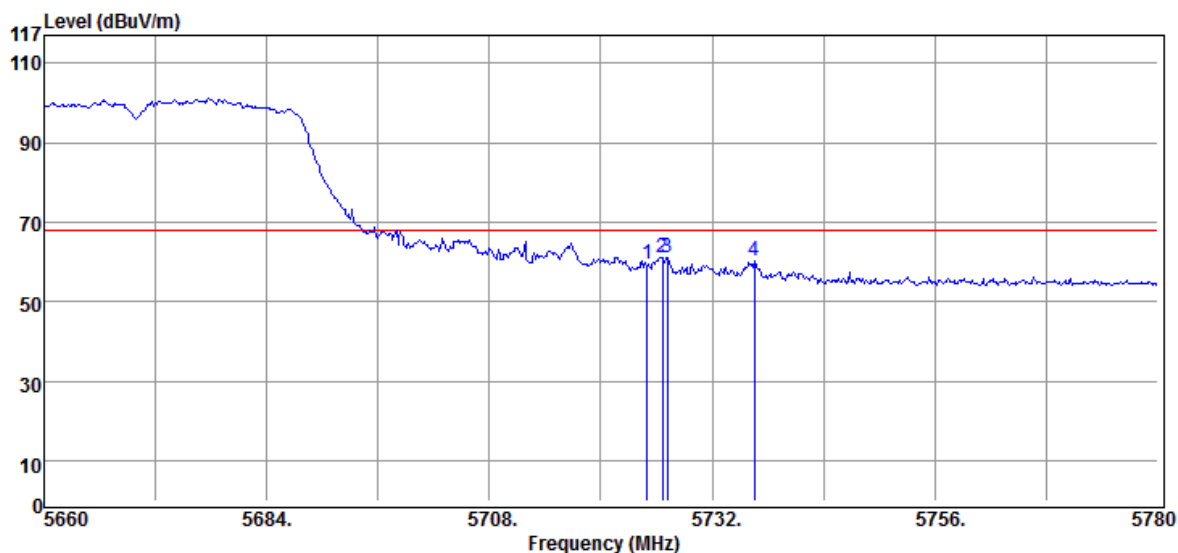
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Project Number : T190321W03
Operation Band : 802.11n40 B2c
Fundamental Frequency : 5670 MHz
Operation Mode : Bandedge CH HIGH
EUT Pol. : H Plane

Test Date : 2019-04-08
Temp./Humi. : 23 deg_C / 62 RH
Engineer : Jerry
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.00	Peak	53.13	6.55	59.68	68.20	-8.52
5726.60	Peak	54.64	6.54	61.18	68.20	-7.02
5727.20	Peak	54.72	6.53	61.25	68.20	-6.95
5736.56	Peak	53.85	6.52	60.37	68.20	-7.83

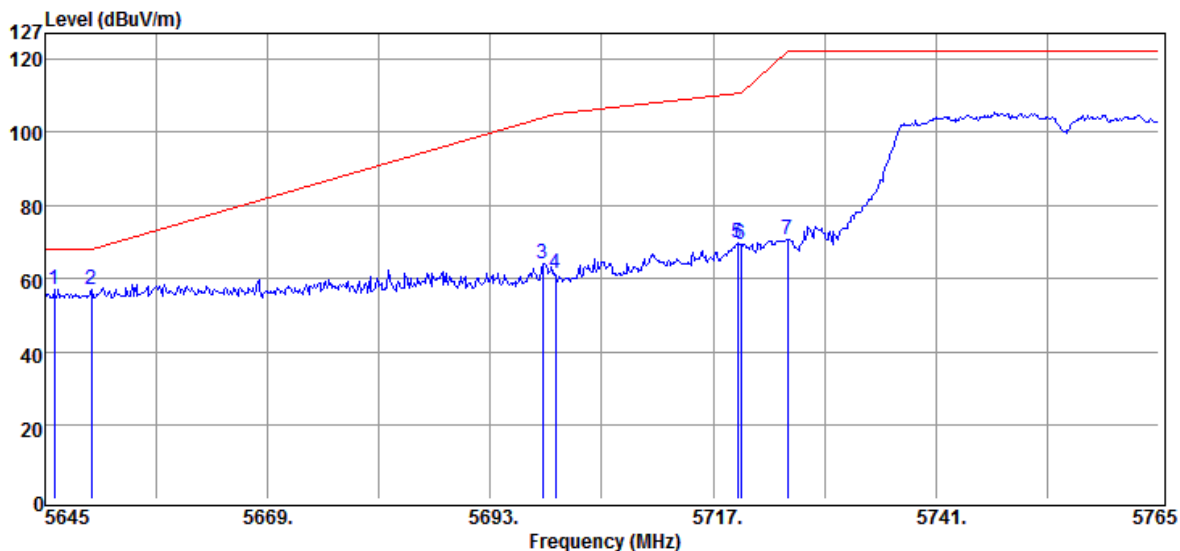
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Project Number : T190321W03
Operation Band :802.11n40 B3
Fundamental Frequency :5755 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :H Plane

Test Date :2019-04-08
Temp./Humi. :23 deg_C / 62 RH
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5645.96	Peak	51.27	5.88	57.15	68.23	-11.08
5650.00	Peak	51.08	5.91	56.99	68.23	-11.24
5698.64	Peak	57.75	6.41	64.16	104.22	-40.06
5700.00	Peak	55.14	6.43	61.57	105.23	-43.66
5719.64	Peak	63.46	6.55	70.01	110.73	-40.72
5720.00	Peak	63.04	6.55	69.59	110.83	-41.24
5725.00	Peak	64.19	6.55	70.74	122.23	-51.49

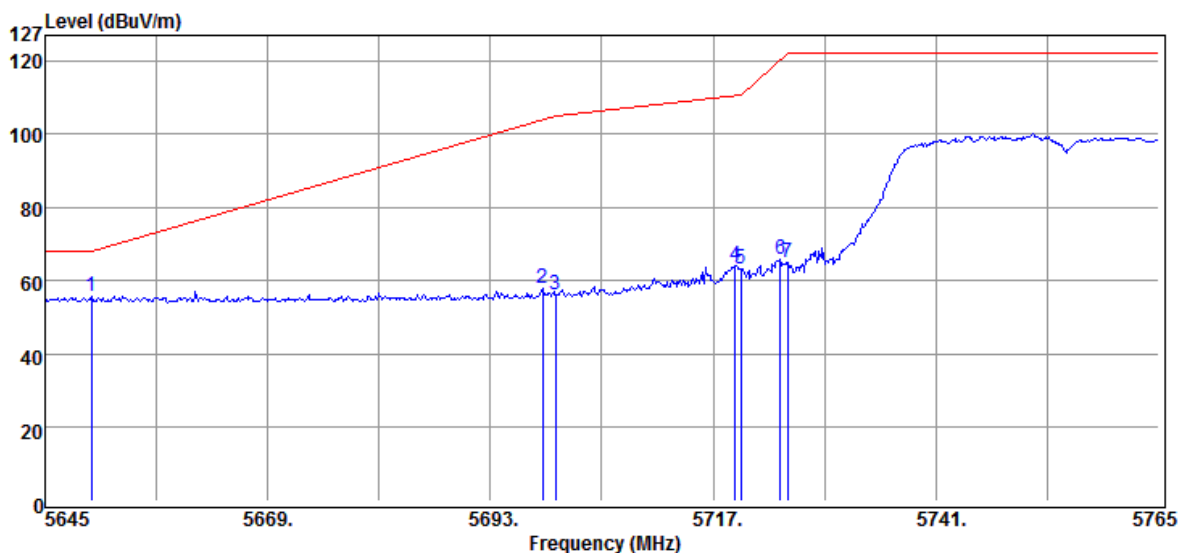
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Project Number : T190321W03
 Operation Band :802.11n40 B3
 Fundamental Frequency :5755 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :H Plane

Test Date :2019-04-08
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Jerry
 Measurement Antenna Pol. :HORIZONTAL



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	49.71	5.91	55.62	68.23	-12.61
5698.64	Peak	51.61	6.41	58.02	104.22	-46.20
5700.00	Peak	49.95	6.43	56.38	105.23	-48.85
5719.40	Peak	57.46	6.55	64.01	110.66	-46.65
5720.00	Peak	56.89	6.55	63.44	110.83	-47.39
5724.20	Peak	59.24	6.55	65.79	120.41	-54.62
5725.00	Peak	58.55	6.55	65.10	122.23	-57.13

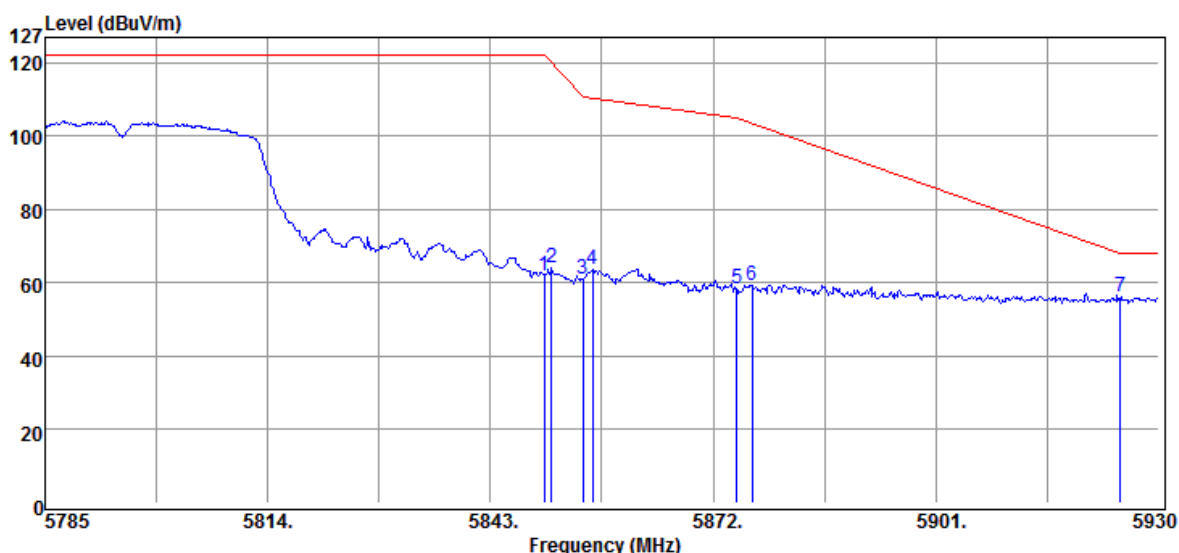
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Project Number : T190321W03
Operation Band :802.11n40 B3
Fundamental Frequency :5795 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :H Plane

Test Date :2019-04-08
Temp./Humi. :23 deg_C / 62 RH
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5849.96	Peak	55.64	6.41	62.05	122.23	-60.18
5850.98	Peak	57.57	6.42	63.99	120.01	-56.02
5855.04	Peak	54.58	6.43	61.01	110.82	-49.81
5856.34	Peak	57.18	6.43	63.61	110.45	-46.84
5875.05	Peak	51.90	6.49	58.39	105.20	-46.81
5877.08	Peak	52.86	6.50	59.36	103.69	-44.33
5925.00	Peak	49.88	6.44	56.32	68.23	-11.91

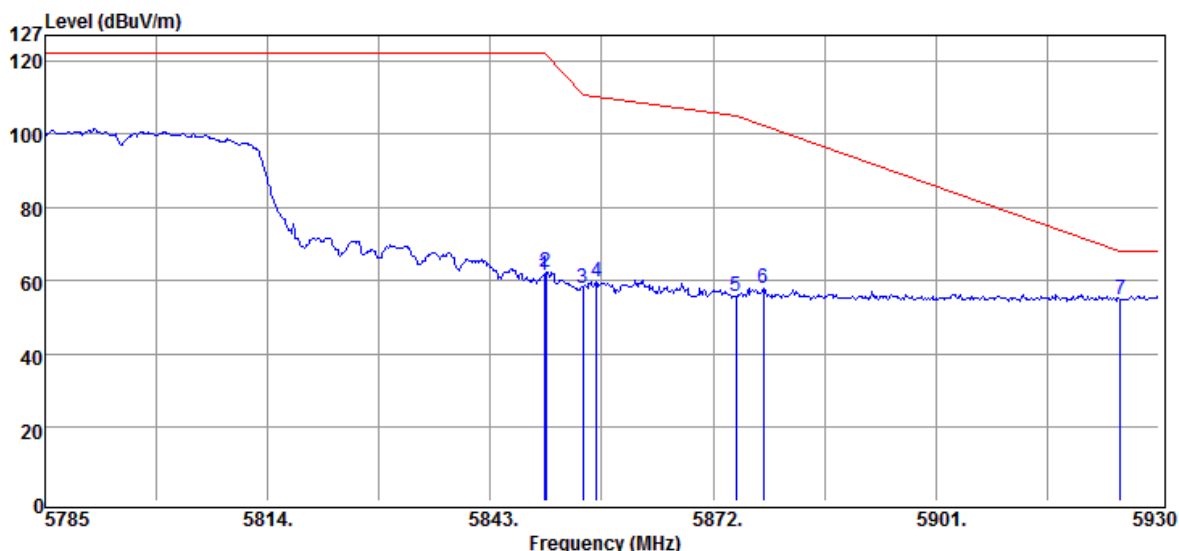
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Project Number : T190321W03
 Operation Band :802.11n40 B3
 Fundamental Frequency :5795 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :H Plane

Test Date :2019-04-08
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Jerry
 Measurement Antenna Pol. :HORIZONTAL



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	55.31	6.41	61.72	122.23	-60.51
5850.25	Peak	56.06	6.42	62.48	121.66	-59.18
5855.00	Peak	51.76	6.43	58.19	110.83	-52.64
5856.78	Peak	53.30	6.44	59.74	110.33	-50.59
5875.00	Peak	49.51	6.49	56.00	105.23	-49.23
5878.53	Peak	51.59	6.51	58.10	102.62	-44.52
5925.00	Peak	48.38	6.44	54.82	68.23	-13.41

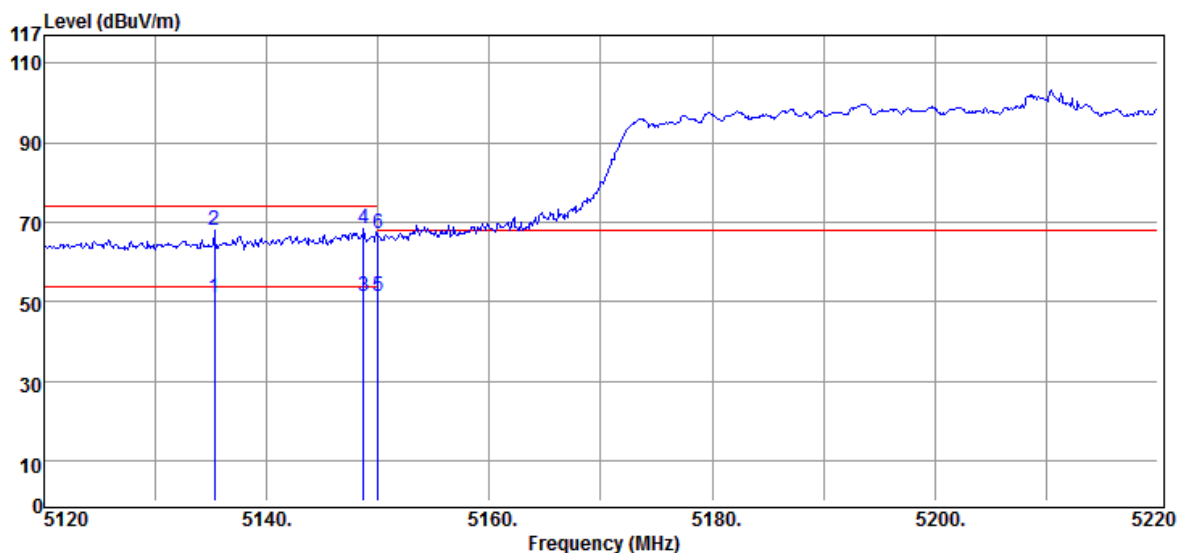
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Project Number : T190321W03
 Operation Band :802.11ac80 B1
 Fundamental Frequency :5210 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :H Plane

Test Date :2019-04-08
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Jerry
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5135.30	Average	46.38	4.60	50.98	54.00	-3.02
5135.30	Peak	63.31	4.60	67.91	74.00	-6.09
5148.70	Average	46.79	4.54	51.33	54.00	-2.67
5148.70	Peak	63.68	4.54	68.22	74.00	-5.78
5150.00	Average	46.74	4.55	51.29	54.00	-2.71
5150.00	Peak	62.46	4.55	67.01	74.00	-6.99

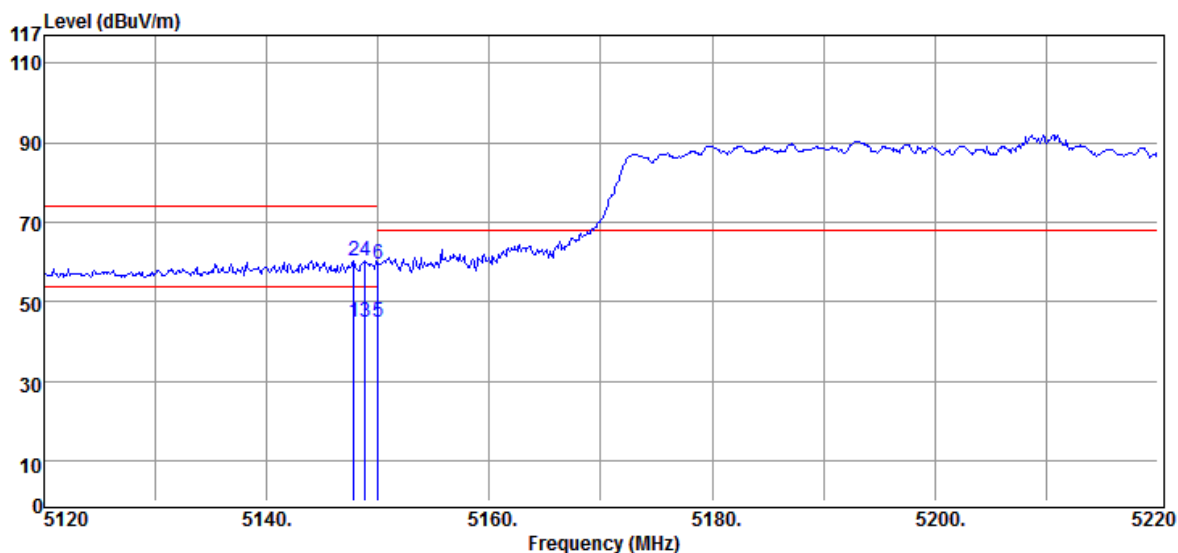
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Project Number : T190321W03
Operation Band :802.11ac80 B1
Fundamental Frequency :5210 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :H Plane

Test Date :2019-04-08
Temp./Humi. :23 deg_C / 62 RH
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5147.80	Average	40.58	4.55	45.13	54.00	-8.87
5147.80	Peak	55.92	4.55	60.47	74.00	-13.53
5148.80	Average	40.57	4.54	45.11	54.00	-8.89
5148.80	Peak	55.62	4.54	60.16	74.00	-13.84
5150.00	Average	40.34	4.55	44.89	54.00	-9.11
5150.00	Peak	54.89	4.55	59.44	74.00	-14.56

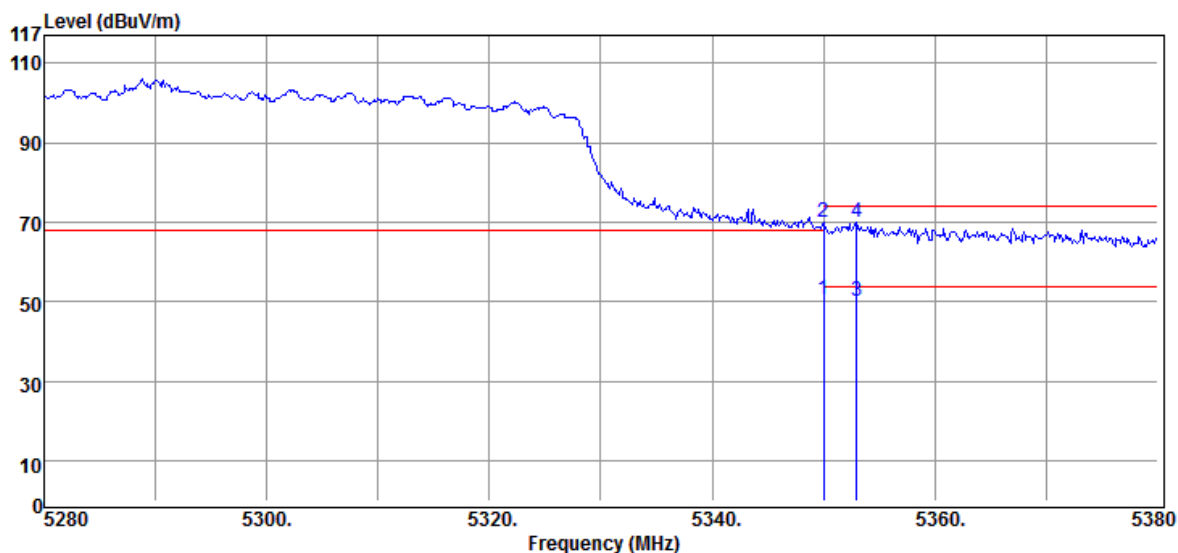
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Project Number : T190321W03
 Operation Band :802.11ac80 B2a
 Fundamental Frequency :5290 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :H Plane

Test Date :2019-04-08
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Jerry
 Measurement Antenna Pol. :VERTICAL



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	45.38	5.19	50.57	54.00	-3.43
5350.00	Peak	64.71	5.19	69.90	74.00	-4.10
5353.00	Average	44.90	5.20	50.10	54.00	-3.90
5353.00	Peak	64.68	5.20	69.88	74.00	-4.12

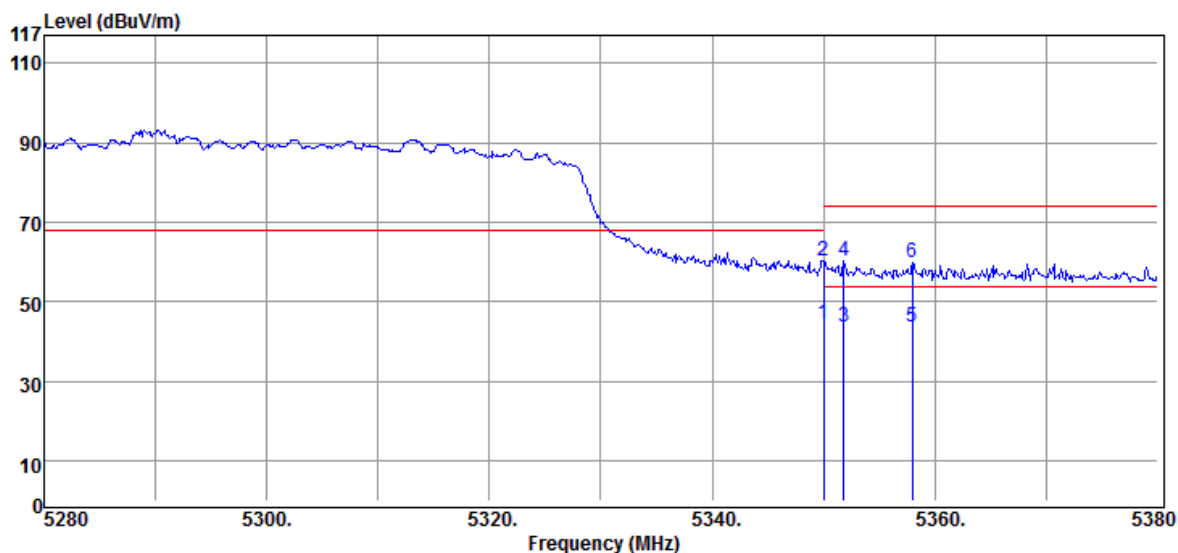
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Project Number : T190321W03
 Operation Band :802.11ac80 B2a
 Fundamental Frequency :5290 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :H Plane

Test Date :2019-04-08
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Jerry
 Measurement Antenna Pol. :HORIZONTAL



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	39.22	5.19	44.41	54.00	-9.59
5350.00	Peak	55.28	5.19	60.47	74.00	-13.53
5351.80	Average	38.65	5.20	43.85	54.00	-10.15
5351.80	Peak	54.95	5.20	60.15	74.00	-13.85
5358.00	Average	38.69	5.21	43.90	54.00	-10.10
5358.00	Peak	54.82	5.21	60.03	74.00	-13.97

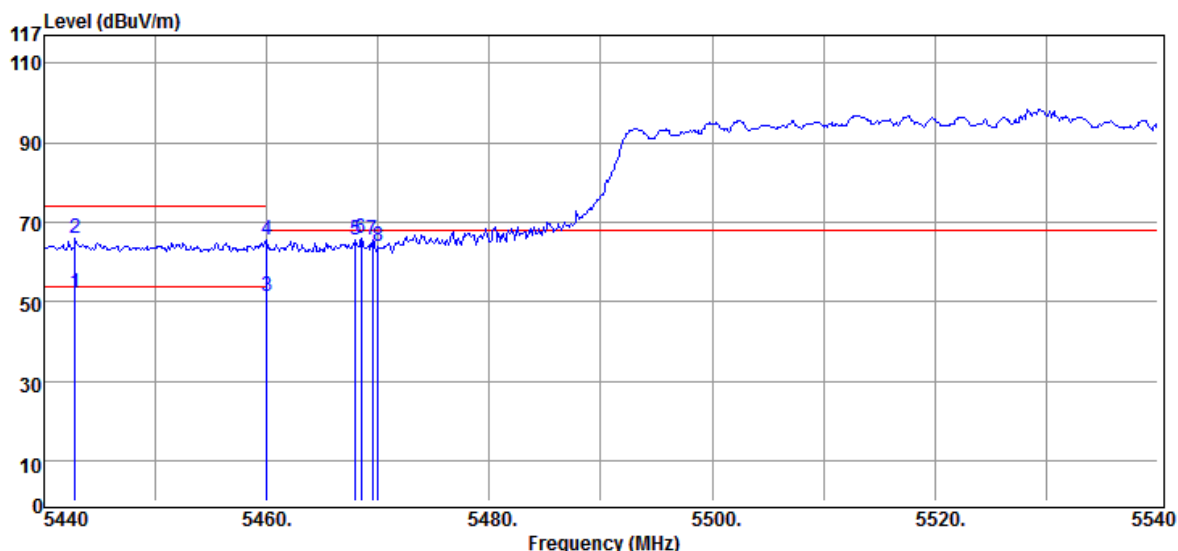
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Project Number : T190321W03
 Operation Band : 802.11ac80 B2c
 Fundamental Frequency : 5530 MHz
 Operation Mode : Bandedge CH LOW
 EUT Pol. : H Plane

Test Date : 2019-04-09
 Temp./Humi. : 23 deg_C / 62 RH
 Engineer : Jerry
 Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5442.80	Average	46.58	5.59	52.17	54.00	-1.83
5442.80	Peak	60.44	5.59	66.03	74.00	-7.97
5460.00	Average	45.79	5.54	51.33	54.00	-2.67
5460.00	Peak	60.04	5.54	65.58	74.00	-8.42
5468.00	Peak	60.22	5.52	65.74	68.20	-2.46
5468.50	Peak	60.64	5.52	66.16	68.20	-2.04
5469.50	Peak	60.26	5.52	65.78	68.20	-2.42
5470.00	Peak	58.34	5.52	63.86	68.20	-4.34

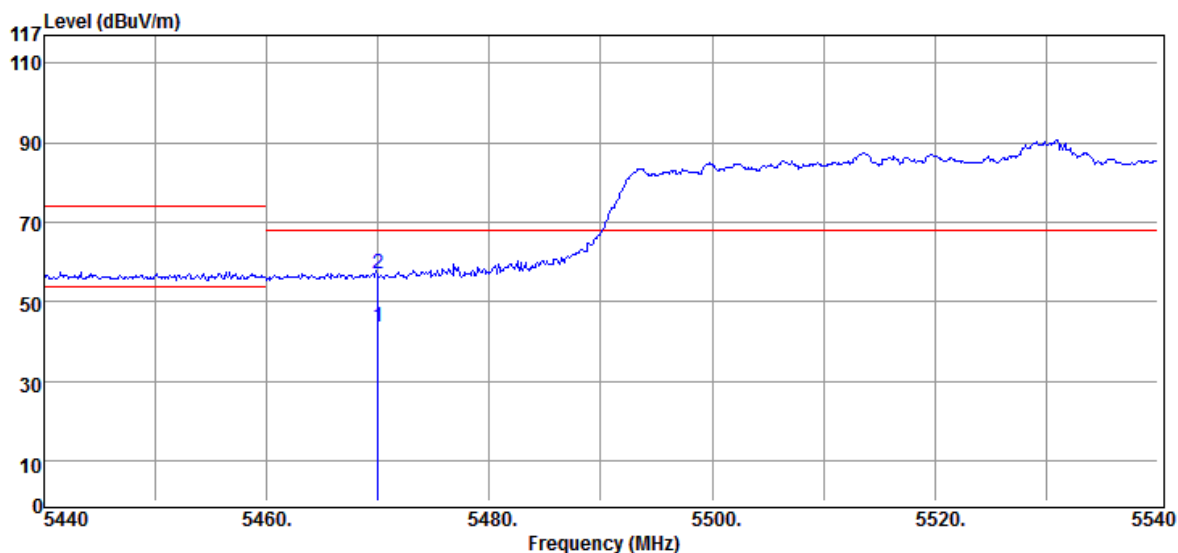
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Project Number : T190321W03
Operation Band :802.11ac80 B2c
Fundamental Frequency :5530 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :H Plane

Test Date :2019-04-09
Temp./Humi. :23 deg_C / 62 RH
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5470.00	Average	38.17	5.52	43.69	500.00	-456.31
5470.00	Peak	51.68	5.52	57.20	68.20	-11.00

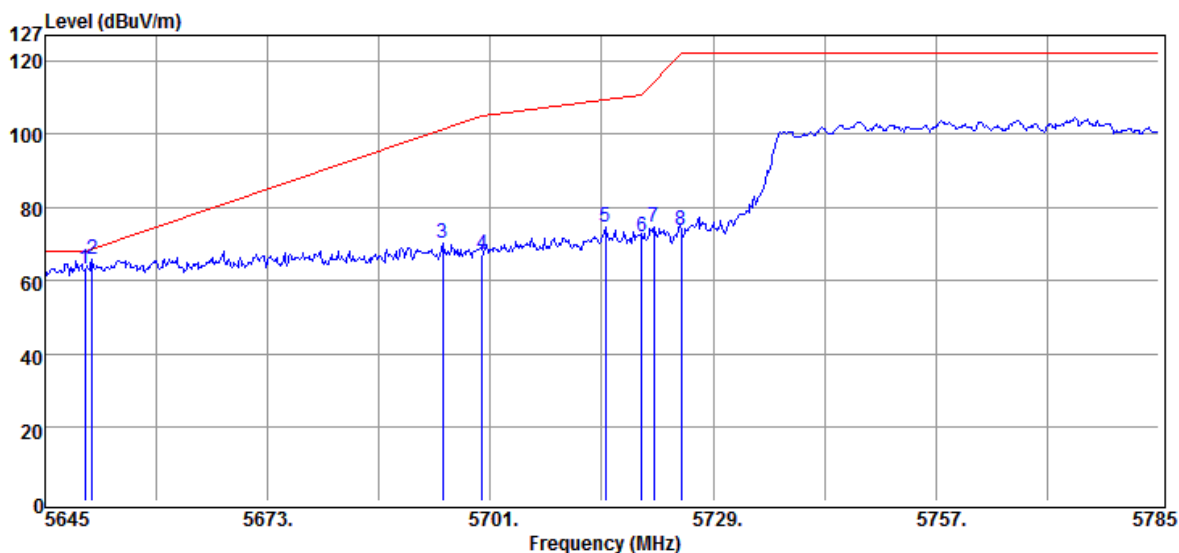
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Project Number : T190321W03
Operation Band :802.11ac80 B3
Fundamental Frequency :5775 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :H Plane

Test Date :2019-04-09
Temp./Humi. :23 deg_C / 62 RH
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



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	57.19	5.91	63.10	68.23	-5.13
5650.88	Peak	60.18	5.92	66.10	68.88	-2.78
5694.98	Peak	63.78	6.37	70.15	101.52	-31.37
5700.00	Peak	61.02	6.43	67.45	105.23	-37.78
5715.42	Peak	68.30	6.52	74.82	109.55	-34.73
5720.00	Peak	65.61	6.55	72.16	110.83	-38.67
5721.58	Peak	68.29	6.55	74.84	114.43	-39.59
5725.00	Peak	67.32	6.55	73.87	122.23	-48.36

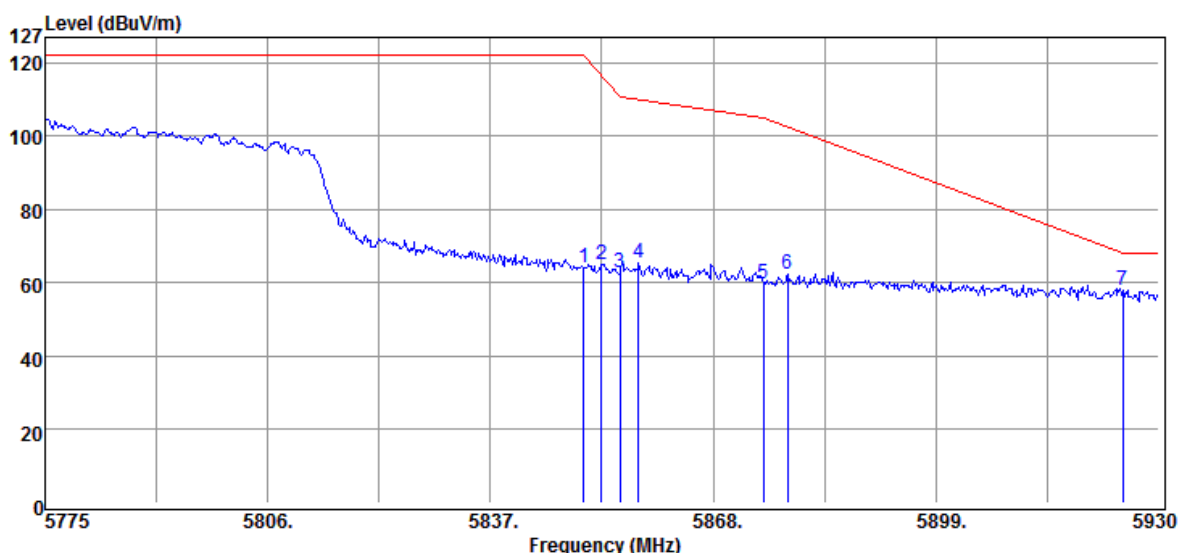
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Project Number : T190321W03
Operation Band :802.11ac80 B3
Fundamental Frequency :5775 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :H Plane

Test Date :2019-04-09
Temp./Humi. :23 deg_C / 62 RH
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



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	57.75	6.41	64.16	122.23	-58.07
5852.50	Peak	58.72	6.42	65.14	116.53	-51.39
5855.00	Peak	56.59	6.43	63.02	110.83	-47.81
5857.62	Peak	59.11	6.43	65.54	110.10	-44.56
5875.00	Peak	53.30	6.49	59.79	105.23	-45.44
5878.39	Peak	55.71	6.51	62.22	102.73	-40.51
5925.00	Peak	51.64	6.44	58.08	68.23	-10.15

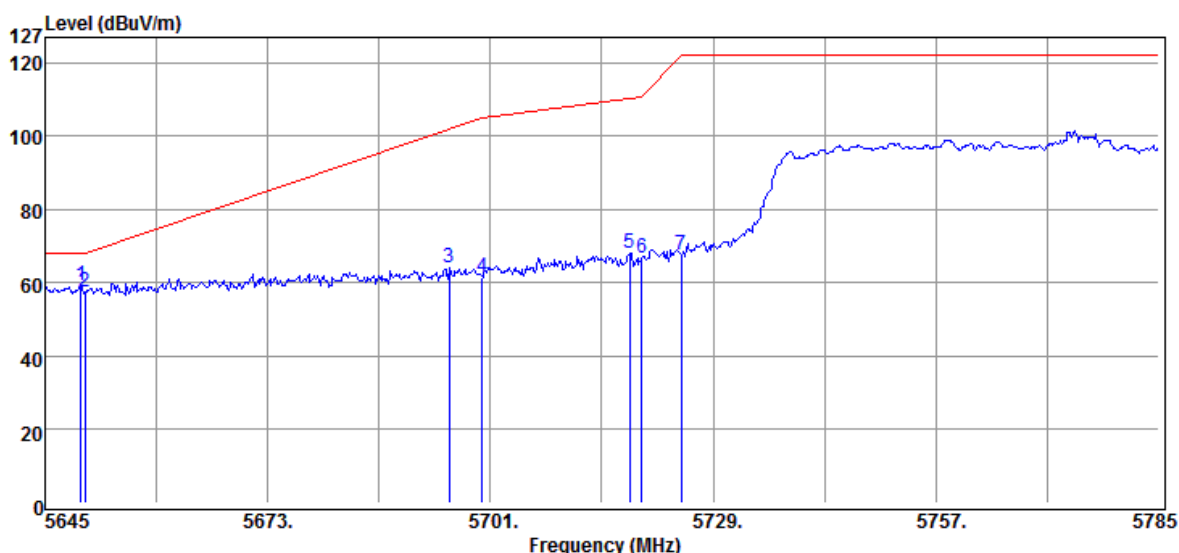
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Project Number : T190321W03
Operation Band :802.11ac80 B3
Fundamental Frequency :5775 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :H Plane

Test Date :2019-04-09
Temp./Humi. :23 deg_C / 62 RH
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



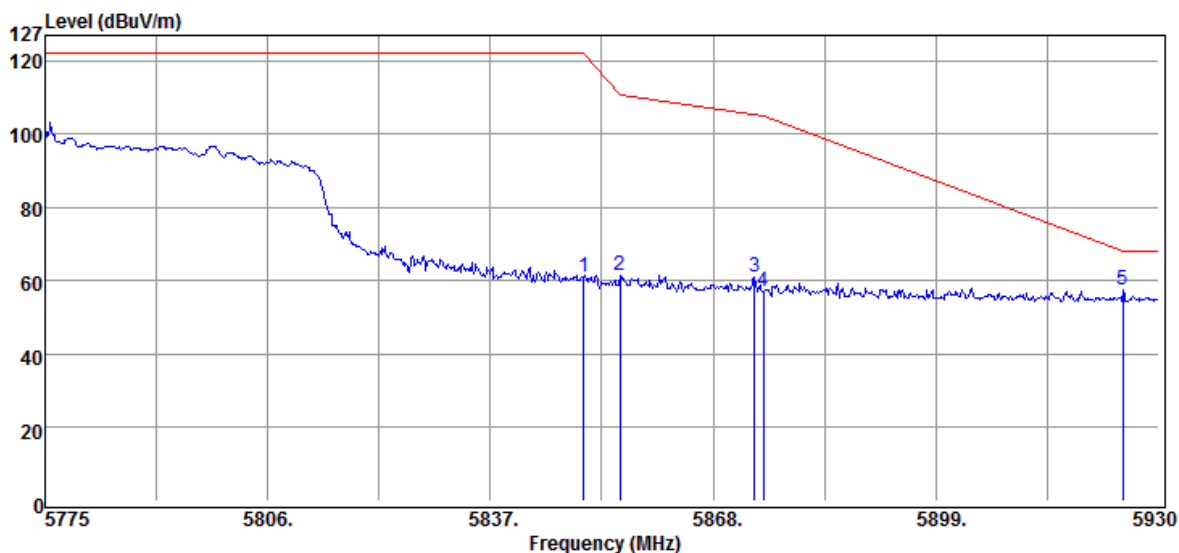
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
5649.48	Peak	53.64	5.90	59.54	68.23	-8.69
5650.00	Peak	51.77	5.91	57.68	68.23	-10.55
5695.82	Peak	57.64	6.38	64.02	102.14	-38.12
5700.00	Peak	55.30	6.43	61.73	105.23	-43.50
5718.50	Peak	61.65	6.54	68.19	110.41	-42.22
5720.00	Peak	60.15	6.55	66.70	110.83	-44.13
5725.00	Peak	61.02	6.55	67.57	122.23	-54.66

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Project Number	: T190321W03	Test Date	:2019-04-09
Operation Band	:802.11ac80 B3	Temp./Humi.	:23 deg_C / 62 RH
Fundamental Frequency	:5775 MHz	Engineer	:Jerry
Operation Mode	:Bandedge CH HIGH	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:H Plane		



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	54.89	6.41	61.30	122.23	-60.93
5855.00	Peak	54.91	6.43	61.34	110.83	-49.49
5873.74	Peak	54.69	6.49	61.18	105.58	-44.40
5875.00	Peak	50.53	6.49	57.02	105.23	-48.21
5925.00	Peak	51.09	6.44	57.53	68.23	-10.70

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12 TRANSMISSION IN THE ABSENCE OF DATA

12.1 Standard Applicable

According to §15.407(c)

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

12.2 Result

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

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13 FREQUENCY STABILITY

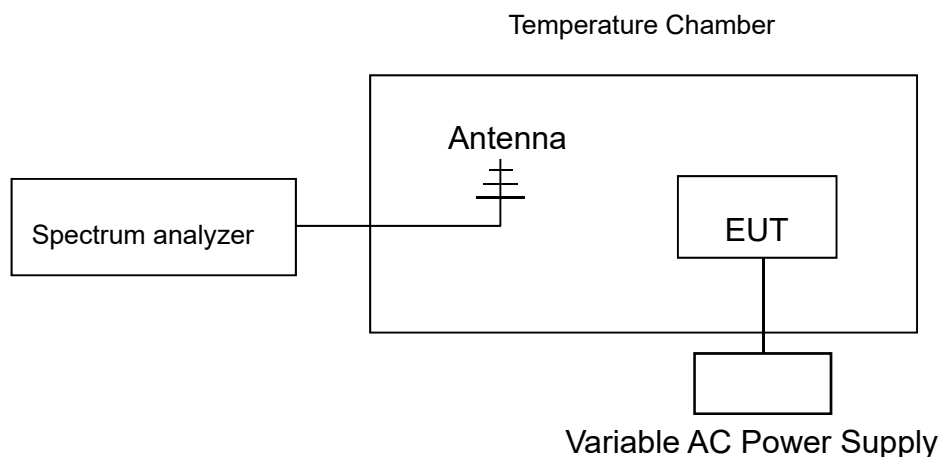
13.1 Standard Applicable

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:

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
PXA Spectrum Analyzer	Agilent	N9030A	MY53120760	04/22/2019	04/21/2020
Thermo-static/Hrgrosatic Chamber	TAICHY	MHG-150LF	930619	10/08/2018	10/07/2019
DC Block	Mini-Circuits	BLK-18-S+	31129(1)	02/26/2019	02/25/2020
Attenuator	Mini-Circuit	BW-S10W2+	1	02/26/2019	02/25/2020
Attenuator	Mini-Circuit	BW-S10W2+	3	02/26/2019	02/25/2020

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13.5 Measurement Result

Startup:

Operation Mode	802.11 a	Test Date	2019.03.28
Temperature	: 23.1°C	Test By	Peter
Humidity	: 59%		

Test Temp.(°C)	Test Voltage(V)	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-30	3.465	36	5180	5,179.99200	0.00000154
	3.145	36	5180	5,179.99175	0.00000159
25	3.3	36	5180	5,180.00236	-0.00000046
70	3.465	36	5180	5,180.00550	-0.00000106
	3.145	36	5180	5,180.00469	-0.00000090

2 minutes:

Operation Mode	802.11 a	Test Date	2019.03.28
Temperature	: 23.1°C	Test By	Peter
Humidity	: 59%		

Test Temp.(°C)	Test Voltage(V)	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-30	3.465	36	5180	5,179.99227	0.00000149
	3.145	36	5180	5,179.99504	0.00000096
25	3.3	36	5180	5,180.00649	-0.00000125
70	3.465	36	5180	5,180.00782	-0.00000151
	3.145	36	5180	5,180.00692	-0.00000134

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5 minutes:

Operation Mode	802.11 a	Test Date	2019.03.28
Temperature	: 23.1°C	Test By	Peter
Humidity	: 59%		

Test Temp.(°C)	Test Voltage(V)	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-30	3.465	36	5180	5,179.99506	0.00000095
	3.145	36	5180	5,179.99124	0.00000169
25	3.3	36	5180	5,180.00168	-0.00000032
70	3.465	36	5180	5,180.00747	-0.00000144
	3.145	36	5180	5,180.00824	-0.00000159

10 minutes:

Operation Mode	802.11 a	Test Date	2019.03.28
Temperature	: 23.1°C	Test By	Peter
Humidity	: 59%		

Test Temp.(°C)	Test Voltage(V)	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-30	3.465	36	5180	5,179.99236	0.00000147
	3.145	36	5180	5,179.99205	0.00000153
25	3.3	36	5180	5,180.00114	-0.00000022
70	3.465	36	5180	5,180.00909	-0.00000176
	3.145	36	5180	5,180.00970	-0.00000187

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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 with unique RF connector and no consideration of replacement. Please see EUT photo for details.

~ End of Report ~

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