

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

Applicant: Seiko Epson Corporation
6925 Tazawa, Toyoshina, Azumino-shi, Nagano, 399-8285
Japan

Product Name: Intelligent Controller

Brand Name: EPSON

Model No.: BO-IC400

Model Difference: N/A

Report Number: E2/2020/50085

FCC ID: SKSBO-IC400

FCC Rule Part: §15.407, Cat: NII

Issue Date: Jul. 10, 2020

Date of Test: May 29, 2020 ~ Jul. 03, 2020

Date of EUT Received: May 29, 2020

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10: 2013 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits.

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

Approved By:

Jazz Huang

Jazz Huang / Asst. Supervisor



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Revision History

Report Number	Revision	Description	Issue Date	Remark
E2/2020/50085	Rev.00	Original.	Jul. 10, 2020	Revised By: Yuri Tsai

Note:

1、Disclaimer

Antenna information is provided by the applicant, test results of this report are applicable to the sample EUT received.

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1 GENERAL INFORMATION

1.1 Product Description

Product Name:	Intelligent Controller	
Brand Name:	EPSON	
Model No.:	BO-IC400	
Model Difference:	N/A	
Hardware Version:	DVT	
Software Version:	Android 9	
Power Supply:	3.85Vdc from Rechargeable Li-ion Battery or 5Vdc from Micro USB port	
	Battery:	Model No.: EAR1B, Supplier: Shen Zhen KAYO Battery Co., Ltd.
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 802.11 ac_160MHz: 58.5 – 1733.4Mbps

1.2 Antenna Designation

Antenna Type	Supplier	Antenna Part No.	Freq. (MHz)	Peak Antenna Gain (dBi)	Worst Antenna Gain
PIFA	PEGATRON	K1606-00028F1BS1	5150~5250	1.7 (Main)	
			5250~5350	2 (Main)	
			5470~5725	1.9 (Main)	
			5725~5850	0.8 (Main)	
		K1606-00029E1BS1	5150~5250	3.3 (Aux)	V
			5250~5350	3.3 (Aux)	V
			5470~5725	3.5 (Aux)	V
			5725~5850	1.8 (Aux)	V
Note: Pre-scanned was done on the above 2 antennas, the Aux antenna results higher emission at 5GHz. Therefore, the completed set of measurement was done on the antenna to be presented on this test report.					

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1.3 FCC worst power

Wi-Fi 802.11	Frequency Range	Channels	Rated Power (Avg.) (dBm) (Worst case)		Modulation Technology
a	5180~5240	4	15.84		OFDM
	5260~5320	4	15.73		
	5500~5700	12	15.9		
	5745-5825	5	15.88		
n_HT ac_VHT 20M	5180~5240	4	HT	15.41	OFDM
	5260~5320	4	HT	15.37	
	5500~5700	12	HT	15.39	
	5745-5825	5	HT	15.42	
n_HT ac_VHT 40M	5190~5230	2	HT	15.47	OFDM
	5270~5310	2	HT	15.47	
	5510~5670	5	HT	15.33	
	5755-5795	2	HT	15.23	
ac_VHT 80M	5210	1	HT	15.23	OFDM
	5290	1	HT	15.35	
	5530~5610	2	HT	15.79	
	5775	1	HT	15.60	

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1.4 Test Methodology of Applied Standards

FCC Part 15, Subpart E §15.407
FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01
FCC KDB 662911 D01 Multiple Transmitter Output v02r01
ANSI C63.10:2013

1.5 Test Facility

SGS Taiwan Ltd. Central RF Lab (TAF code 3702)
No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333

FCC Designation number: TW0028

1.6 Special Accessories

There are no special accessories used while test was conducted.

1.7 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

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

2.2 EUT Exercise

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

2.3 Test Procedure

2.3.1 Conducted Emissions

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

2.3.2 Conducted Test (RF)

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

2.3.3 Radiated Emissions

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

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2.4 Measurement Results Explanation Example

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

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

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

2.4.2 For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

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2.5 Configuration of Tested System

Fig. 2-1 Radiated Emission & Conducted (Antenna Port)



Fig. 2-2 Conducted (AC powerline) Emission Configuration

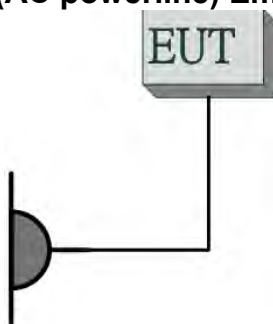


Table 2-1 Equipment Used in Tested System

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	Lenovo	L440	P0000367	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

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

Operated band in 5150 MHz ~5250 MHz:

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

40 M	
CH	Freq (MHz)
38	5190
46	5230

80 M	
CH	Freq (MHz)
42	5210

Operated band in 5250 MHz ~5350 MHz:

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

40 M	
CH	Freq (MHz)
54	5270
62	5310

80 M	
CH	Freq (MHz)
58	5290

Operated band in 5470 MHz ~5725 MHz:

20 M	
CH	Freq (MHz)
100	5500
104	5520
108	5540
112	5560
116	5580
120	5600
124	5620
128	5640
132	5660
136	5680
140	5700
144	5720

40 M	
CH	Freq (MHz)
102	5510
110	5550
118	5590
126	5630
134	5670
142	5710

80 M	
CH	Freq (MHz)
106	5530
122	5610
138	5690

Operated band in 5745 MHz ~5850 MHz:

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

40	
CH	Freq (MHz)
151	5755
159	5795

80 M	
CH	Freq (MHz)
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				Single Transmission Spatial	Multiple Transmission Spatial
<input checked="" type="checkbox"/> 802.11 a	<input checked="" type="checkbox"/> Ch0	<input checked="" type="checkbox"/> Ch1	<input type="checkbox"/> Ch2	<input type="checkbox"/> Ch3	<input type="checkbox"/> 1TX	<input checked="" type="checkbox"/> 2TX
<input checked="" type="checkbox"/> 802.11 n	<input checked="" type="checkbox"/> Ch0	<input checked="" type="checkbox"/> Ch1	<input type="checkbox"/> Ch2	<input type="checkbox"/> Ch3	<input type="checkbox"/> SISO	<input checked="" type="checkbox"/> MIMO
<input checked="" type="checkbox"/> 802.11 ac	<input checked="" type="checkbox"/> Ch0	<input checked="" type="checkbox"/> Ch1	<input type="checkbox"/> Ch2	<input type="checkbox"/> Ch3	<input type="checkbox"/> SISO	<input checked="" type="checkbox"/> MIMO
<input type="checkbox"/> 802.11 ax	<input type="checkbox"/> Ch0	<input type="checkbox"/> Ch1	<input type="checkbox"/> Ch2	<input type="checkbox"/> Ch3	<input type="checkbox"/> SISO	<input type="checkbox"/> MIMO

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4.2.1 RADIATED EMISSION TEST:

RADIATED EMISSION TEST (BELOW 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	44	OFDM	6	2TX
	5260~5320	52 to 64	60			
	5500~5700	100 to 140	116			
	5745~5825	149 to 165	157			
802.11ac_VHT80	5210	42	42		MCS0	MIMO
	5290	58	58			
	5530~5610	106 to 122	122			
	5775	155	155			

RADIATED EMISSION TEST (ABOVE 1 GHz)						
MODE	FREQUEN- CY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTEN- NA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	2TX
	5260~5320	52 to 64	52,60,64			
	5500~5700	100 to 140	100,116,140,			
	5500~5720	100 to 144	144			
5745~5825	149 to 165	149,157,165				
802.11n_HT20	5180~5240	36 to 48	36,44,48		MCS8	MIMO
	5260~5320	52 to 64	52,60,64			
	5500~5700	100 to 140	100,116,140,			
	5500~5720	100 to 144	144			
5745~5825	149 to 165	149,157,165				
802.11n_HT40	5190~5230	38 to 46	38,46		MCS8	MIMO
	5270~5310	54 to 62	54,62			
	5510~5670	102 to 134	102,110,134,14			
	5510~5710	102 to 142	2			
5755~5795	151 to 159	151,159				
802.11ac_VHT80	5210	42	42		MCS0	MIMO
	5290	58	58			
	5530~5610	106 to 122	106,122,138			
	5530~5690	106 to 138				
5775	155	155				

Note:

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

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4.2.2 ANTENNA PORT CONDUCTED MEASUREMENT:

CONDUCTED TEST						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	2TX
	5260~5320	52 to 64	52,60,64			
	5500~5700	100 to 140	100,116,140,			
	5500~5720	100 to 144	144			
802.11n_HT20	5745~5825	149 to 165	149,157,165		MCS8	MIMO
	5180~5240	36 to 48	36,44,48			
	5260~5320	52 to 64	52,60,64			
	5500~5700	100 to 140	100,116,140,			
802.11n_HT40	5500~5720	100 to 144	144		MCS8	MIMO
	5745~5825	149 to 165	149,157,165			
	5190~5230	38 to 46	38,46			
	5270~5310	54 to 62	54,62			
802.11ac_VHT80	5510~5670	102 to 134	102,110,134,14		MCS0	MIMO
	5510~5710	102 to 142	2			
	5755~5795	151 to 159	151,159			
	5210	42	42			
802.11ac_VHT80	5290	58	58		MCS0	MIMO
	5530~5610	106 to 122	106,122,138			
	5530~5690	106 to 138				
	5775	155	155			

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5 MEASUREMENT UNCERTAINTY

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

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

Note:

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

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6 CONDUCTED EMISSION TEST

6.1 Standard Applicable

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

Frequency range MHz	Limits dB(μV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50
Note 1.The lower limit shall apply at the transition frequencies 2.The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.		

6.2 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
LISN	SCHWARZ- BECK Mess-Elektronik	NSLK8127	974	03/25/2020	03/24/2021
EMI Test Receiver	R&S	ESCI	101342	04/28/2020	04/27/2021

6.3 EUT Setup

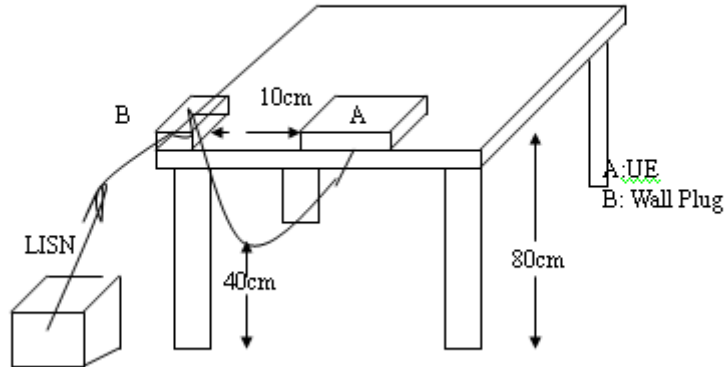
1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2013.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The rear of the EUT and peripherals were placed flushed with the rear of the tabletop.
3. The LISN was connected with 120Vac/60Hz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

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6.4 Test SET-UP



6.5 Measurement Procedure

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

6.6 Measurement Result

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

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

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Report Number :E2/2020/50085

Test Date :2020-06-17

Test Mode :WLAN 5G

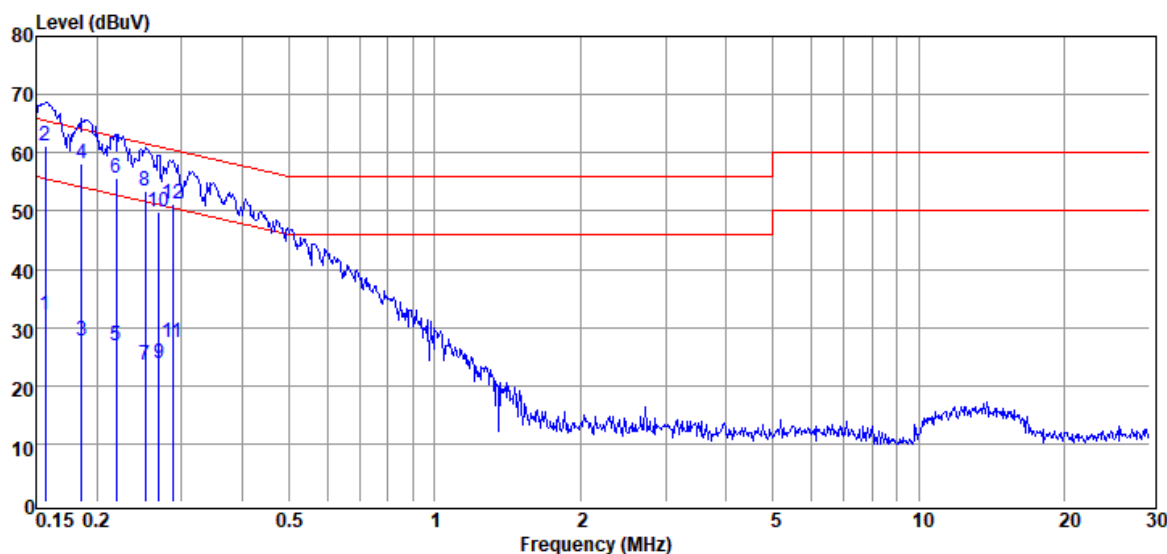
Temp./Humi. :23.4/59

Power :120V/60Hz

Engineer :Ashton

Probe :L1

:



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
0.16	Average	22.00	10.22	32.22	55.65	-23.43
0.16	QP	51.00	10.22	61.22	65.65	-4.43
0.19	Average	17.50	10.22	27.72	54.20	-26.48
0.19	QP	47.80	10.22	58.02	64.20	-6.18
0.22	Average	16.50	10.22	26.72	52.83	-26.11
0.22	QP	45.50	10.22	55.72	62.83	-7.11
0.25	Average	13.20	10.22	23.42	51.69	-28.27
0.25	QP	43.30	10.22	53.52	61.69	-8.17
0.27	Average	13.70	10.22	23.92	51.16	-27.24
0.27	QP	39.60	10.22	49.82	61.16	-11.34
0.29	Average	17.20	10.22	27.42	50.59	-23.17
0.29	QP	40.90	10.22	51.12	60.59	-9.47

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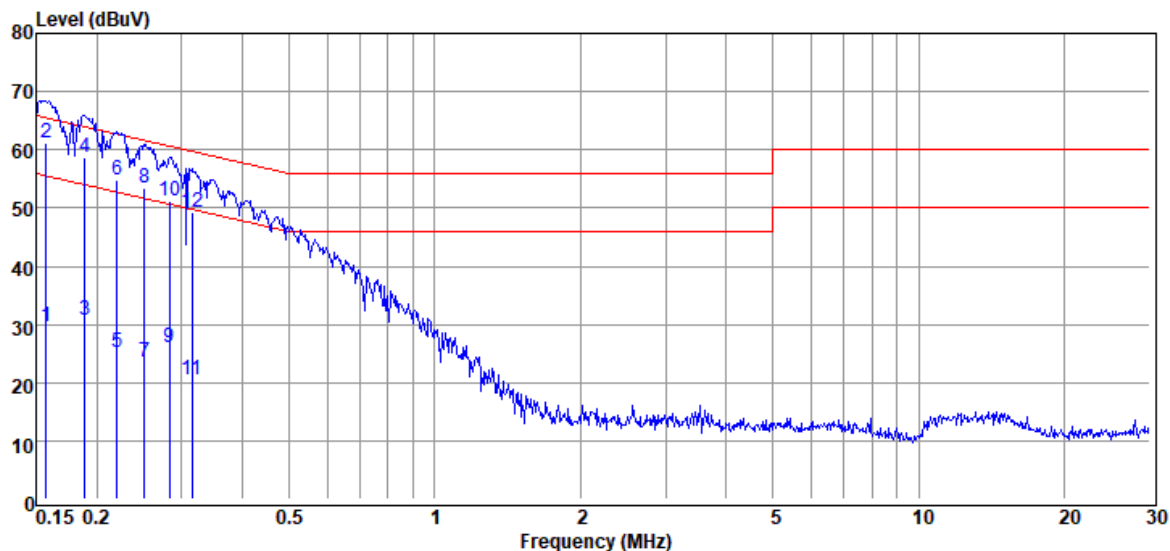
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Report Number :E2/2020/50085
 Test Mode :WLAN 5G
 Power :120V/60Hz
 Probe :N
 :

Test Date :2020-06-17
 Temp./Humi. :23.4/59
 Engineer :Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
0.16	Average	19.50	10.21	29.71	55.60	-25.89
0.16	QP	51.10	10.21	61.31	65.60	-4.29
0.19	Average	20.50	10.21	30.71	54.06	-23.35
0.19	QP	48.60	10.21	58.81	64.06	-5.25
0.22	Average	15.00	10.21	25.21	52.79	-27.58
0.22	QP	44.60	10.21	54.81	62.79	-7.98
0.25	Average	13.20	10.21	23.41	51.73	-28.32
0.25	QP	43.30	10.21	53.51	61.73	-8.22
0.28	Average	15.80	10.22	26.02	50.72	-24.70
0.28	QP	41.10	10.22	51.32	60.72	-9.40
0.31	Average	10.40	10.22	20.62	49.84	-29.22
0.31	QP	39.00	10.22	49.22	59.84	-10.62

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7 DUTY CYCLE TEST SIGNAL

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

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

7.1 Measurement Procedure:

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

Duty Cycle:

Mode	Duty Cycle (%) =Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
802.11a	97.22	0.12	0.71	1.00
802.11n_20	94.54	0.24	1.48	2.00
802.11ac_20	97.41	0.11	0.76	1.00
802.11n_40	95.01	0.22	1.48	2.00
802.11ac_40	94.78	0.23	1.53	2.00
802.11ac_80	89.79	0.47	3.09	4.00

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7.2 DUTY CYCLE TEST SIGNAL MEASUREMENT RESULT

802.11a_20MHz\5180 MHz-5180



802.11n_20MHz\5180 MHz-5180



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802.11n_40MHz\5190 MHz-5190



802.11ac_20MHz\5180 MHz-5180



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802.11ac_40MHz\5190 MHz-5190



802.11ac_80MHz\5210 MHz-5210



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8 26DB & 6DB EMISSION BANDWIDTH MEASUREMENT

8.1 Standard Applicable

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

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

8.2 Measurement Procedure

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

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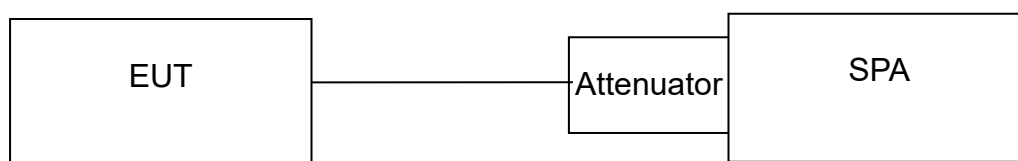
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8.3 Measurement Equipment Used

SGS Conducted Room					
Name of Equip-ment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum Analyzer	KEYSIGHT	N9010B	MY59070196	03/22/2020	03/21/2021
DC Block	PASTERNAK	PE8210	RF256	11/20/2019	11/19/2020
Attenuator	Marvelous	WATT-218FS-10	RF245	11/20/2019	11/19/2020

8.4 Test Set-up



8.5 Measurement Result

8.5.1 FCC 26dB Bandwidth

802.11a_Ch0			802.11a_Ch1		
Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)	Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	21.94	13.412	5180	22.47	13.516
5220	22.68	13.556	5220	21.81	13.387
5240	22.22	13.467	5240	22.61	13.543
5260	21.87	13.398	5260	22.16	13.456
5300	21.57	13.339	5300	22.45	13.512
5320	23.55	13.720	5320	22.44	13.510
5500	22.78	13.576	5500	22.03	13.430
5580	22.55	13.531	5580	21.72	13.369
5700	21.97	13.418	5700	21.12	13.247
5720	22.99	13.615	5720	22	13.424

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802.11n_HT20_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	22.85	13.589
5220	21.95	13.414
5240	22.33	13.489
5260	22.81	13.581
5300	21.6	13.345
5320	23.19	13.653
5500	21.56	13.336
5580	22.44	13.510
5700	23.25	13.664
5720	22.18	13.460

802.11n_HT20_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	23.33	13.679
5220	22.44	13.510
5240	22.35	13.493
5260	22.21	13.465
5300	23.52	13.714
5320	23.19	13.653
5500	21.73	13.371
5580	22.81	13.581
5700	22.29	13.481
5720	22.85	13.589

802.11n_HT40_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	41.28	16.157
5230	41.07	16.135
5270	41.12	16.141
5310	41.06	16.134
5510	41.32	16.162
5550	40.94	16.121
5670	40.61	16.086
5710	41.08	16.136

802.11n_HT40_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	40.79	16.106
5230	40.62	16.087
5270	41.09	16.137
5310	41.02	16.130
5510	41.22	16.151
5550	41.3	16.160
5670	41.04	16.132
5710	40.67	16.093

802.11ac_VHT80_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	83.02	19.192
5290	82.96	19.189
5530	82.87	19.184
5610	82.71	19.176
5690	83.16	19.199

802.11ac_VHT80_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	84.09	19.247
5290	81.85	19.130
5530	82.57	19.168
5610	82.27	19.152
5690	82.09	19.143

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

802.11a_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	16.04	12.052
5785	15.13	11.798
5825	16.09	12.066

802.11a_Ch1

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	15.08	11.784
5785	16.06	12.057
5825	15.93	12.022

802.11n_HT20_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	15.46	11.892
5785	17.07	12.322
5825	11.44	10.584

802.11n_HT20_Ch1

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	17.56	12.445
5785	15.7	11.959
5825	17.16	12.345

802.11n_HT40_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	35.22	15.468
5795	35.18	15.463

802.11n_HT40_Ch1

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	35.06	15.448
5795	35.73	15.530

802.11ac_VHT80_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	73.97	18.691

802.11ac_VHT80_Ch1

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	75.17	18.760

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FCC_802.11a_20MHz_Chain0_5180MHz



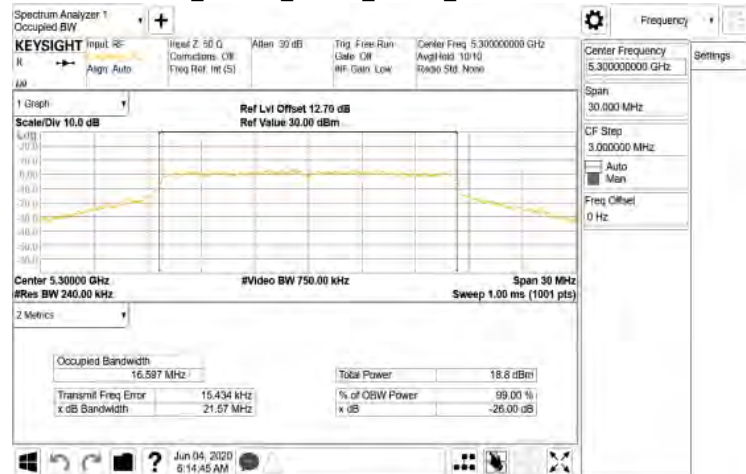
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FCC_802.11a_20MHz_Chain0_5220MHz



FCC_802.11a_20MHz_Chain0_5300MHz



FCC_802.11a_20MHz_Chain0_5240MHz



FCC_802.11a_20MHz_Chain0_5320MHz

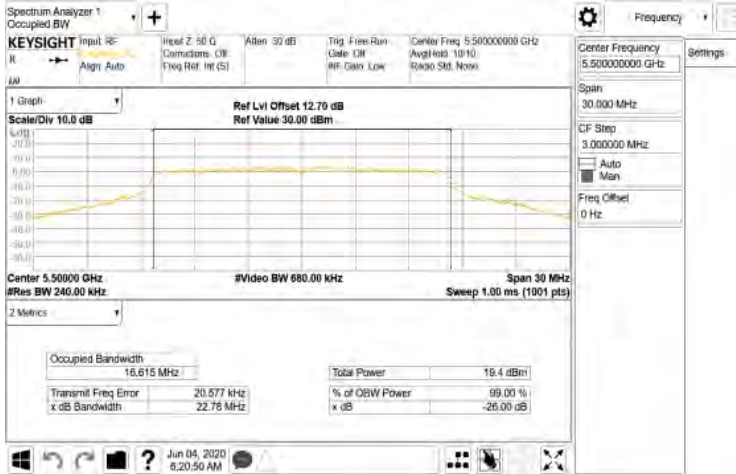


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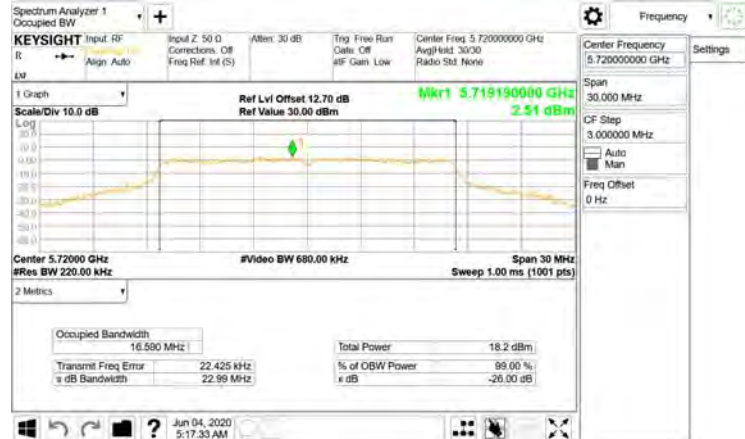
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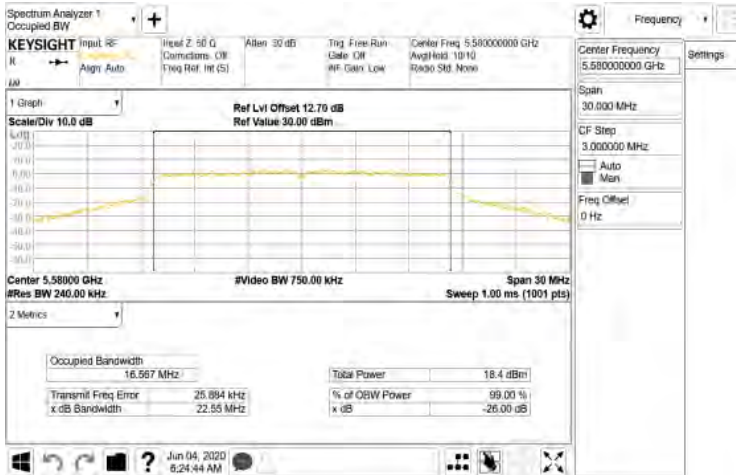
FCC_802.11a_20MHz_Chain0_5500MHz



FCC_802.11a_20MHz_Chain0_5720MHz



FCC_802.11a_20MHz_Chain0_5580MHz



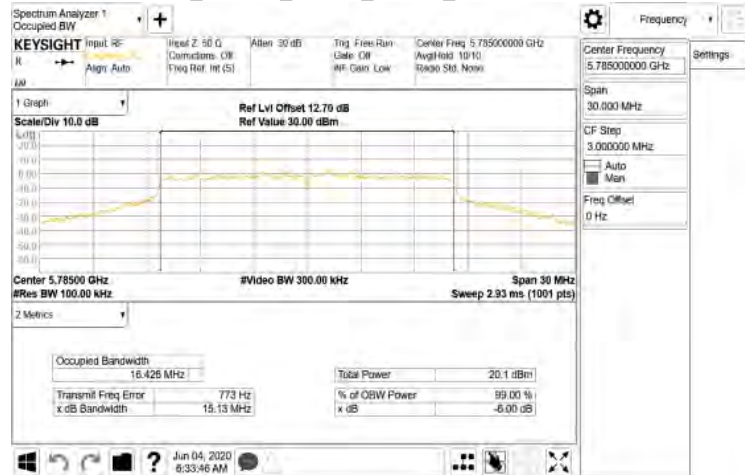
FCC_802.11a_20MHz_Chain0_5745MHz



FCC_802.11a_20MHz_Chain0_5700MHz



FCC_802.11a_20MHz_Chain0_5785MHz



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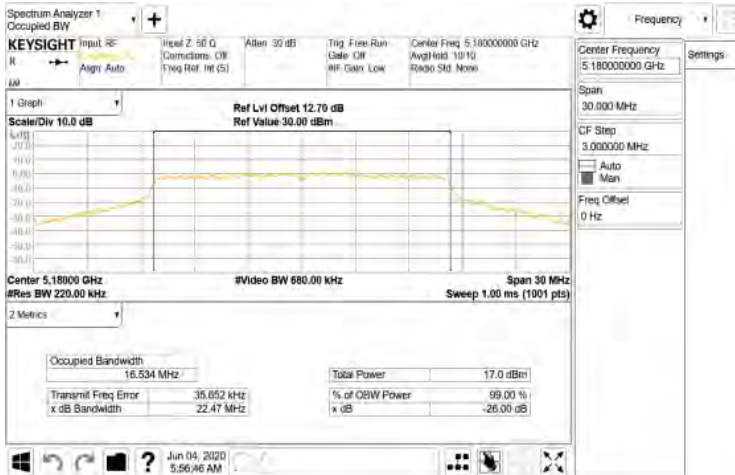
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FCC_802.11a_20MHz_Chain1_5240MHz



FCC_802.11a_20MHz_Chain1_5180MHz



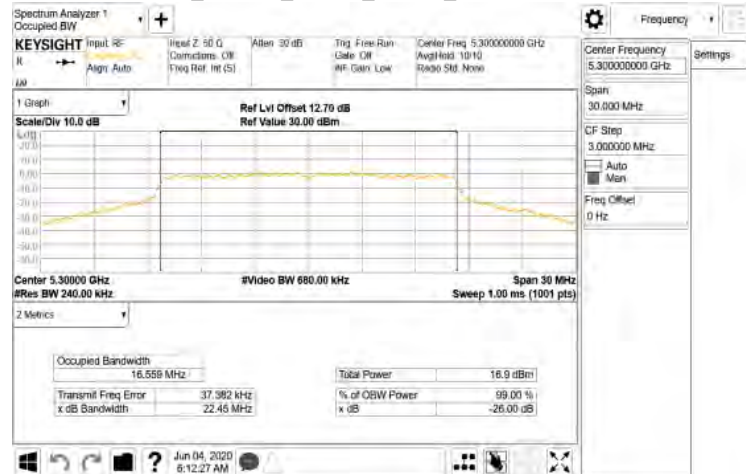
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FCC_802.11a_20MHz_Chain1_5220MHz



FCC_802.11a_20MHz_Chain1_5300MHz



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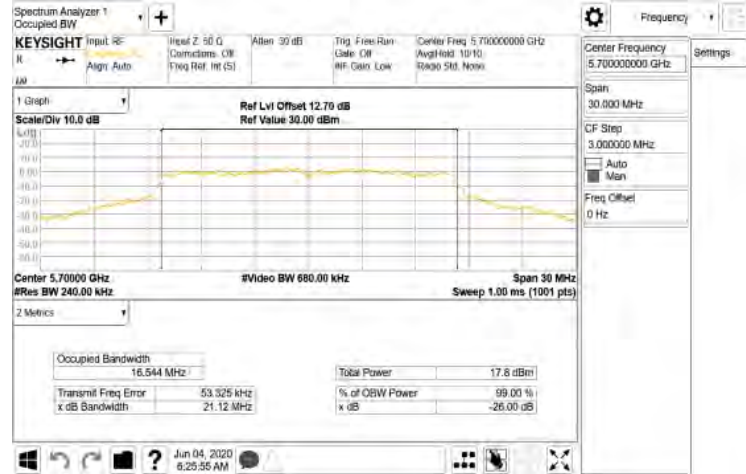
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FCC_802.11a_20MHz_Chain1_5320MHz



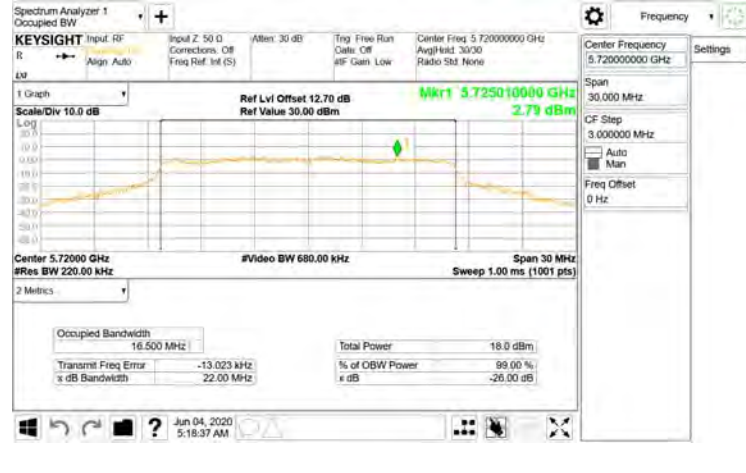
FCC_802.11a_20MHz_Chain1_5700MHz



FCC_802.11a_20MHz_Chain1_5500MHz



FCC_802.11a_20MHz_Chain1_5720MHz



FCC_802.11a_20MHz_Chain1_5580MHz



FCC_802.11a_20MHz_Chain1_5745MHz



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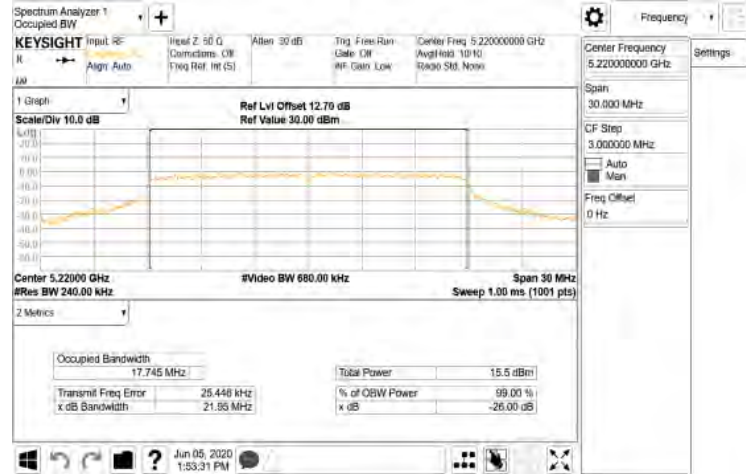
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FCC_802.11a_20MHz_Chain1_5785MHz



FCC_802.11n_20MHz_Chain0_5220MHz



FCC_802.11a_20MHz_Chain1_5825MHz



FCC_802.11n_20MHz_Chain0_5240MHz



FCC_802.11n_20MHz_Chain0_5180MHz



FCC_802.11n_20MHz_Chain0_5260MHz



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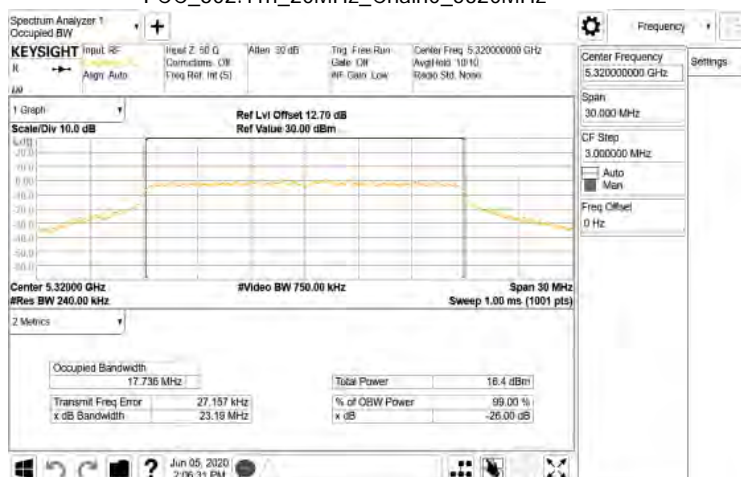
FCC_802.11n_20MHz_Chain0_5300MHz



FCC_802.11n_20MHz_Chain0_5580MHz



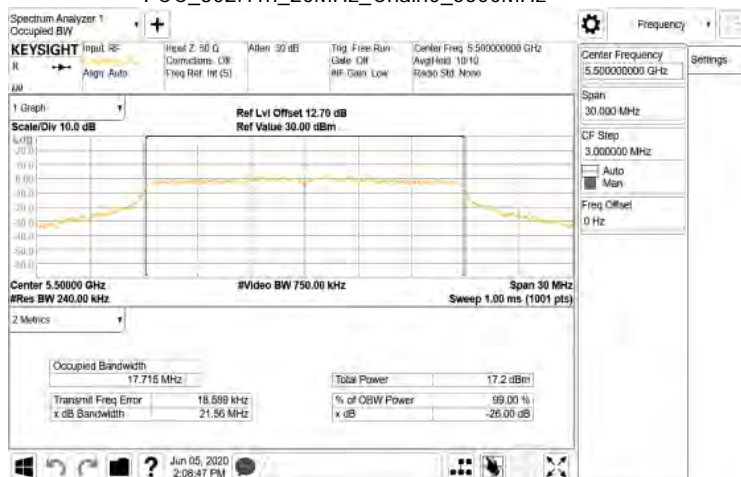
FCC_802.11n_20MHz_Chain0_5320MHz



FCC_802.11n_20MHz_Chain0_5700MHz



FCC_802.11n_20MHz_Chain0_5500MHz



FCC_802.11n_20MHz_Chain0_5720MHz



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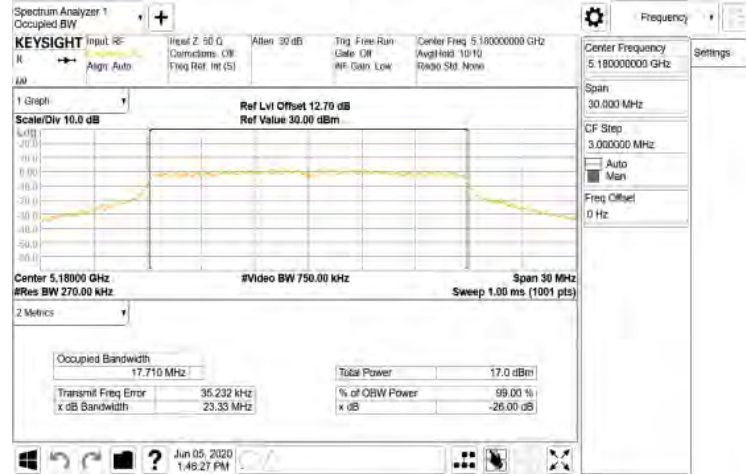
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FCC_802.11n_20MHz_Chain0_5745MHz



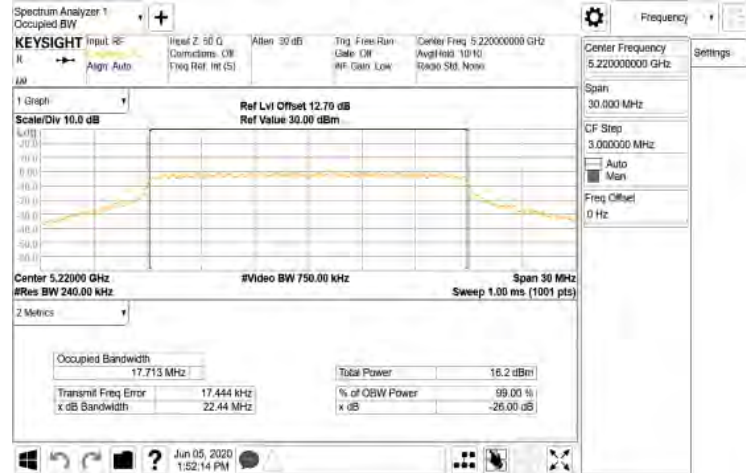
FCC_802.11n_20MHz_Chain1_5180MHz



FCC_802.11n_20MHz_Chain0_5785MHz



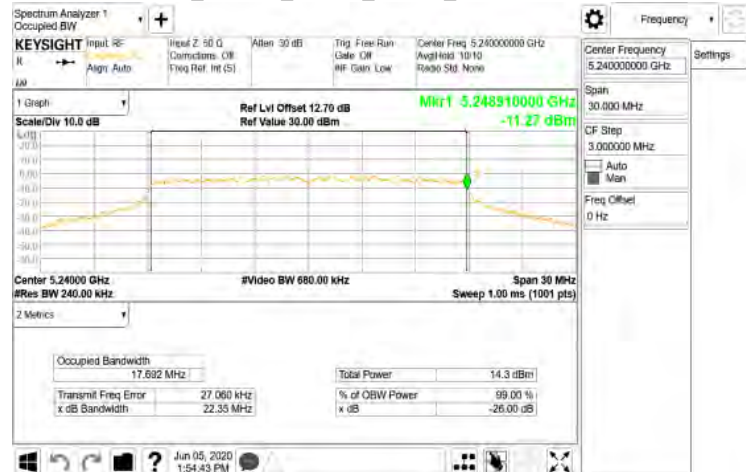
FCC_802.11n_20MHz_Chain1_5220MHz



FCC_802.11n_20MHz_Chain0_5825MHz



FCC_802.11n_20MHz_Chain1_5240MHz



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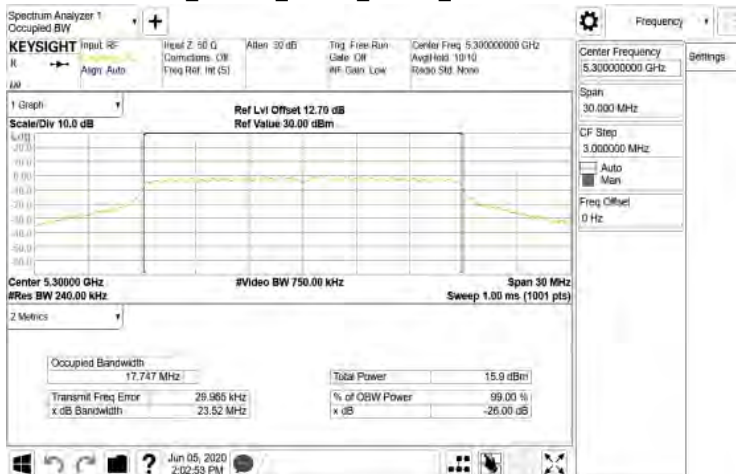
FCC_802.11n_20MHz_Chain1_5260MHz



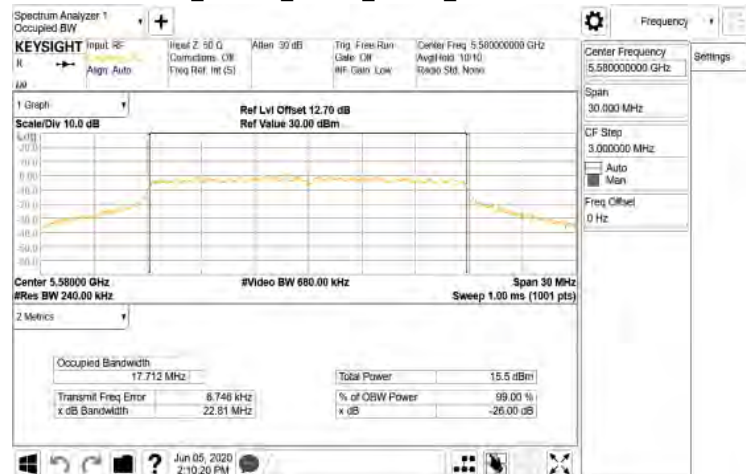
FCC_802.11n_20MHz_Chain1_5500MHz



FCC_802.11n_20MHz_Chain1_5300MHz



FCC_802.11n_20MHz_Chain1_5580MHz



FCC_802.11n_20MHz_Chain1_5320MHz



FCC_802.11n_20MHz_Chain1_5700MHz



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FCC_802.11n_20MHz_Chain1_5720MHz



FCC_802.11n_20MHz_Chain1_5825MHz



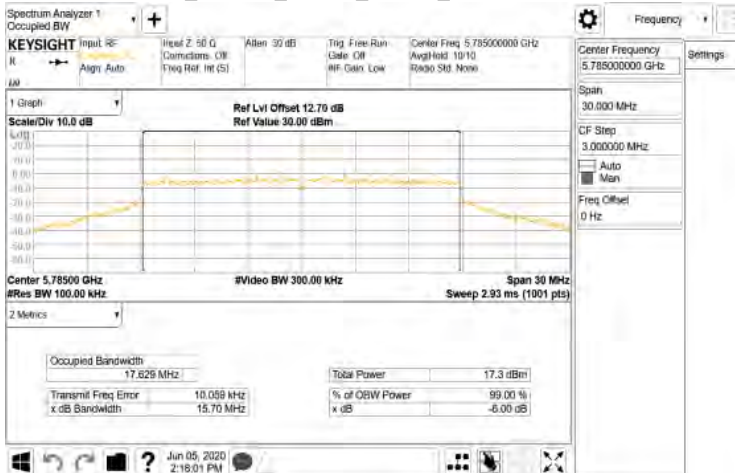
FCC_802.11n_20MHz_Chain1_5745MHz



FCC_802.11n_40MHz_Chain0_5190MHz



FCC_802.11n_20MHz_Chain1_5785MHz



FCC_802.11n_40MHz_Chain0_5230MHz

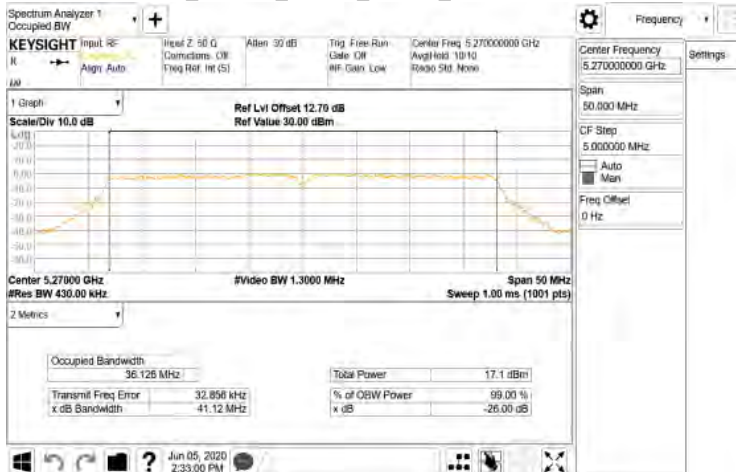


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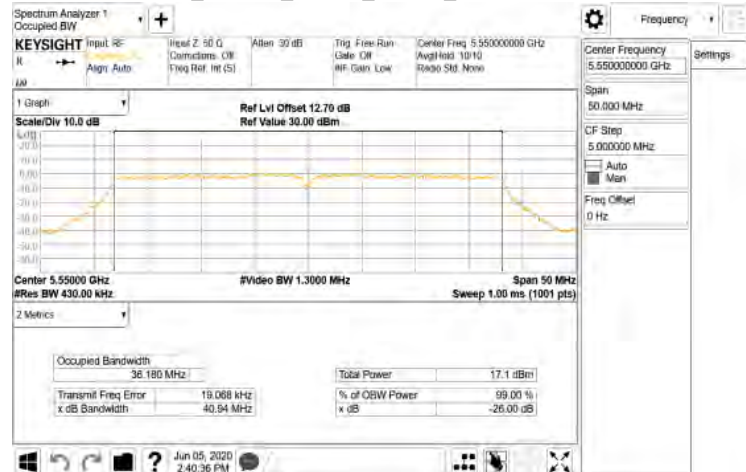
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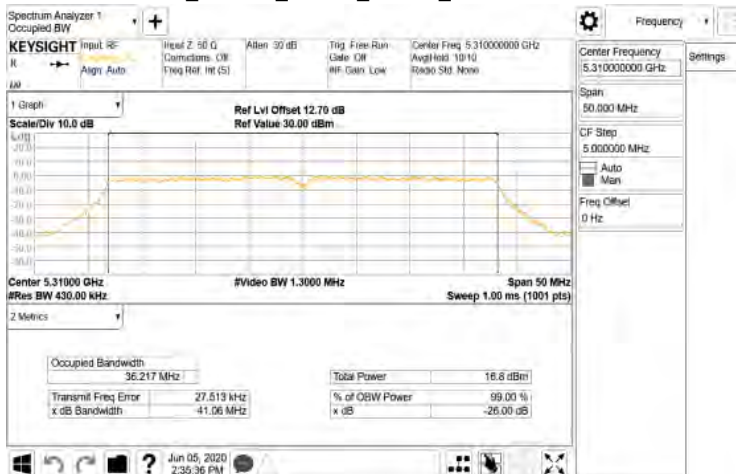
FCC_802.11n_40MHz_Chain0_5270MHz



FCC_802.11n_40MHz_Chain0_5550MHz



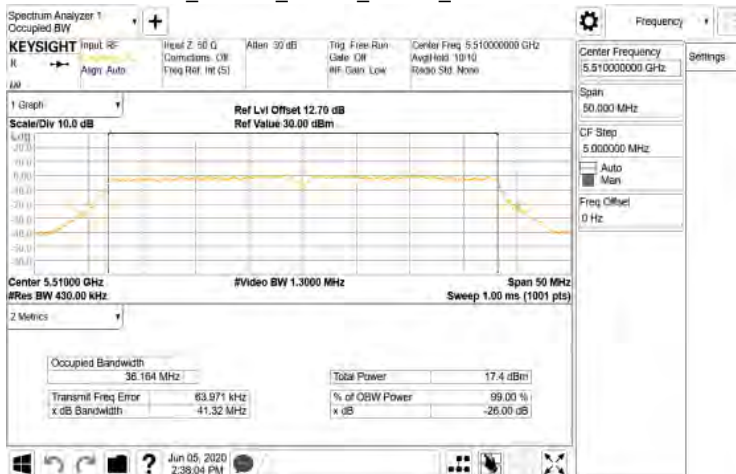
FCC_802.11n_40MHz_Chain0_5310MHz



FCC_802.11n_40MHz_Chain0_5670MHz



FCC_802.11n_40MHz_Chain0_5510MHz



FCC_802.11n_40MHz_Chain0_5710MHz



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FCC_802.11n_40MHz_Chain0_5755MHz



FCC_802.11n_40MHz_Chain1_5230MHz



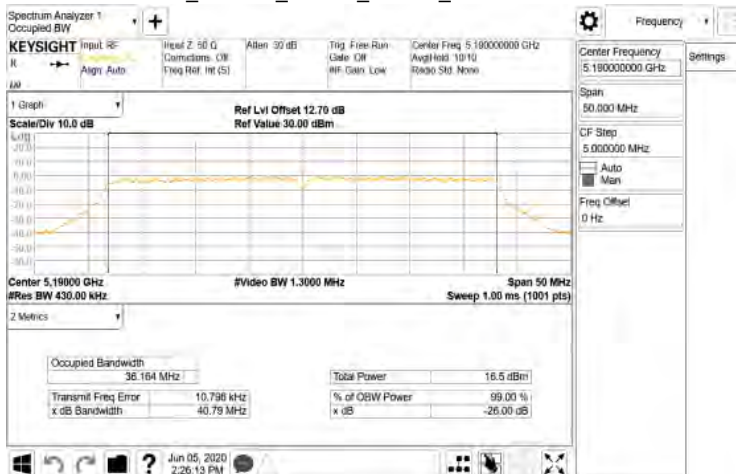
FCC_802.11n_40MHz_Chain0_5795MHz



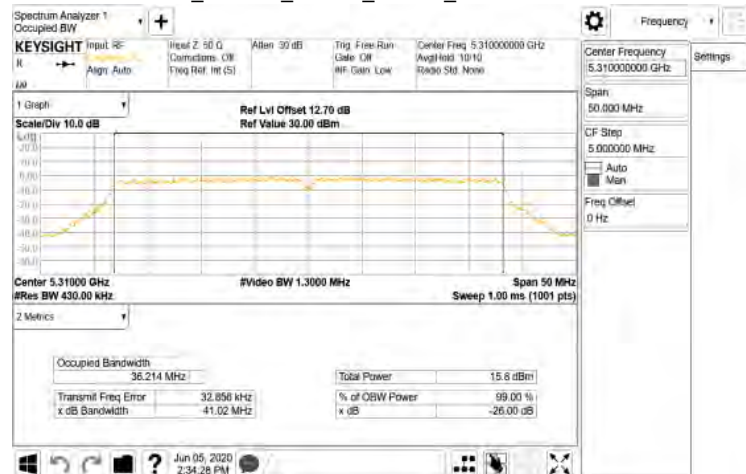
FCC_802.11n_40MHz_Chain1_5270MHz



FCC_802.11n_40MHz_Chain1_5190MHz



FCC_802.11n_40MHz_Chain1_5310MHz



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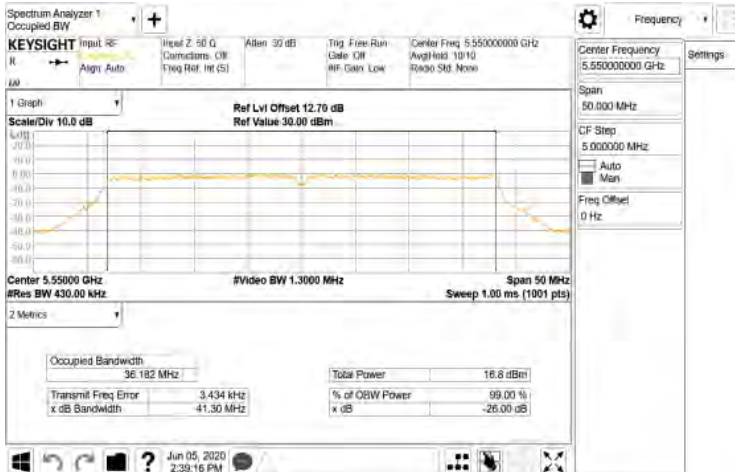
FCC_802.11n_40MHz_Chain1_5510MHz



FCC_802.11n_40MHz_Chain1_5710MHz



FCC_802.11n_40MHz_Chain1_5550MHz



FCC_802.11n_40MHz_Chain1_5755MHz



FCC_802.11n_40MHz_Chain1_5670MHz



FCC_802.11n_40MHz_Chain1_5795MHz



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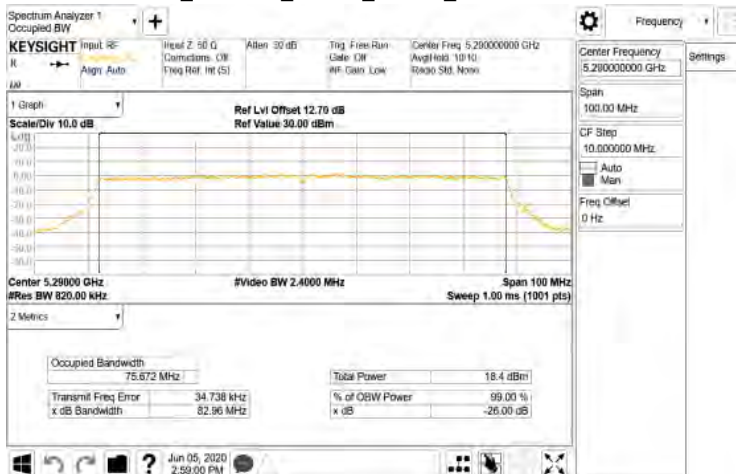
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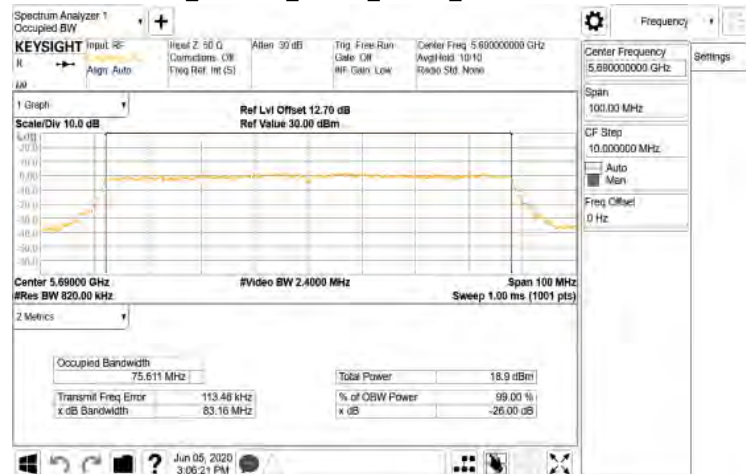
FCC_802.11ac_80MHz_Chain0_5610MHz



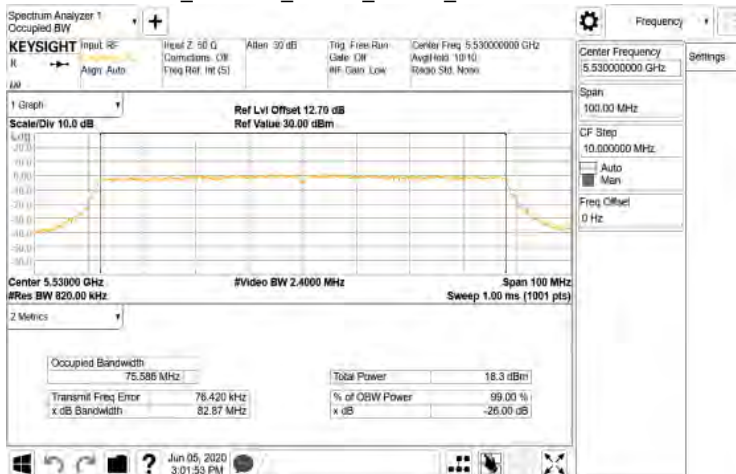
FCC_802.11ac_80MHz_Chain0_5290MHz



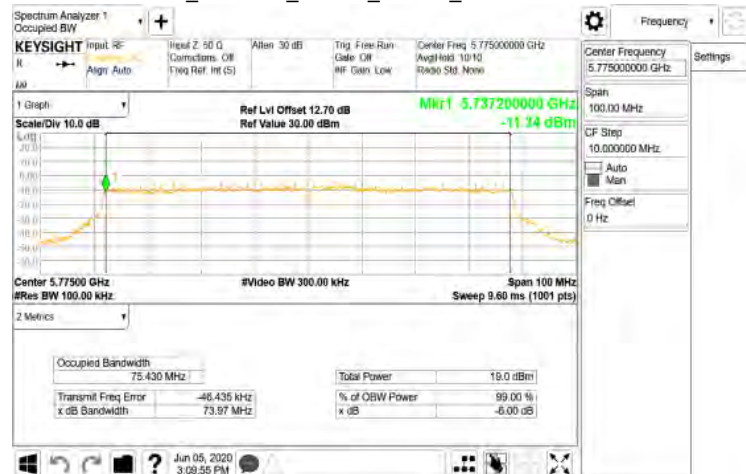
FCC_802.11ac_80MHz_Chain0_5690MHz



FCC_802.11ac_80MHz_Chain0_5530MHz



FCC_802.11ac_80MHz_Chain0_5775MHz



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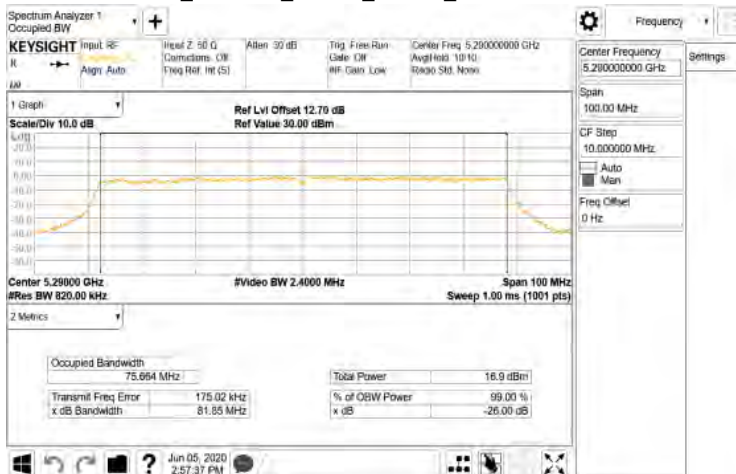
FCC_802.11ac_80MHz_Chain1_5210MHz



FCC_802.11ac_80MHz_Chain1_5610MHz



FCC_802.11ac_80MHz_Chain1_5290MHz



FCC_802.11ac_80MHz_Chain1_5690MHz



FCC_802.11ac_80MHz_Chain1_5530MHz



FCC_802.11ac_80MHz_Chain1_5775MHz



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8.5.3 26dB BW Verification for DFS Function

802.11a_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.37	< 5250
5745	5736.78	> 5725

802.11a_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.28	< 5250
5745	5736.81	> 5725

802.11n_HT20_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.88	< 5250
5745	5736.15	> 5725

802.11n_HT20_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.91	< 5250
5745	5736.15	> 5725

802.11n_HT40_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5230	5248.15	< 5250
5755	5737.05	> 5725

802.11n_HT40_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5230	5248.15	< 5250
5755	5736.85	> 5725

802.11ac_VHT80_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5210	5248.10	< 5250
5775	5737.20	> 5725

802.11ac_VHT80_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5210	5248.00	< 5250
5775	5737.40	> 5725

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9 MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

9.1 Standard Applicable

FCC

OPERZTION Band	EUT CATEGORY		LIMIT
U-NII-1		Access Point (Master device)	1 Watt(30dBm)
		Fixed point-to-point Access Ponit	1 Watt(30dBm)
	√	Mobile and portable client device	250mW(23.98dBm)
U-NII-2A	√		250mW(23.98dBm) or 11dBm+10 log B
U-NII-2C	√		250mW(23.98dBm) or 11dBm+10 log B
U-NII-3	√		1 Watt(30dBm)
If transmitting antennas of directional gain greater than 6 dBi are used, the Maximum transmit power shall be reduced by the amount in dB that the direction-al gain of the antenna exceeds 6 dBi.			

Note:

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

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

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

where

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

NSS = the number of independent spatial streams of data;

NANT = the total number of antennas

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

G_k is the gain in dBi of the kth antenna.

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The antenna gain is not greater than 6 dBi. Therefore, reduction of power is not required.

	Effective Legacy Gain (dBi)	Conducted Power Limit (dBm)
UNII-1	5.55	23.98
UNII-2A	5.68	23.98
U-NII-2C	5.75	23.98
U-NII-3	4.32	30.00

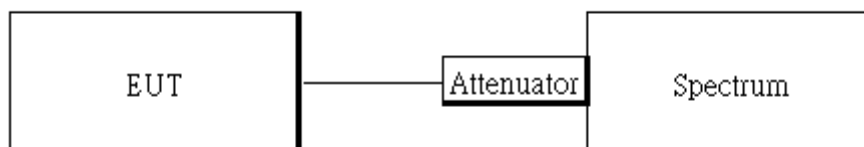
9.2 Measurement Procedure

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

SGS Conducted Room					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Power Meter	Anritsu	ML2496A	1804002	04/06/2020	04/05/2021
Power Sensor	Anritsu	MA2411B	1726105	04/06/2020	04/05/2021
Power Sensor	Anritsu	MA2411B	1726106	04/06/2020	04/05/2021
Attenuator	Marvelous	MVE2213-10	RF80	11/20/2019	11/19/2020
Attenuator	Marvelous	WATT-218FS-10	RF245	11/20/2019	11/19/2020

9.4 Test Set-up



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9.5 Measurement Result

9.5.1 Conducted output power (FCC)

802.11a_Ch0

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	6	12.97	19.831	23.98	PASS
44	5220	6	12.87	19.379	23.98	PASS
48	5240	6	12.68	18.550	23.98	PASS
52	5260	6	12.73	18.764	23.98 or $11+10\log(B) = 24.40$	PASS
60	5300	6	12.69	18.592	23.98 or $11+10\log(B) = 24.34$	PASS
64	5320	6	12.62	18.295	23.98 or $11+10\log(B) = 24.72$	PASS
100	5500	6	12.82	19.157	23.98 or $11+10\log(B) = 24.58$	PASS
116	5580	6	12.55	18.003	23.98 or $11+10\log(B) = 24.53$	PASS
140	5700	6	12.92	19.604	23.98 or $11+10\log(B) = 24.42$	PASS
144	5720(U-NII 2C)	6	11.49	14.10	23.98 or $11+10\log(B) = 24.62$	PASS
144	5720 (U-NII 3)	6	7.44	5.55	30	PASS
149	5745	6	12.87	19.379	30	PASS
157	5785	6	12.95	19.739	30	PASS
165	5825	6	12.72	18.721	30	PASS

802.11a_Ch1

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	6	12.99	19.922	23.98	PASS
44	5220	6	12.90	19.513	23.98	PASS
48	5240	6	12.88	19.424	23.98	PASS
52	5260	6	12.97	19.831	23.98 or $11+10\log(B) = 24.46$	PASS
60	5300	6	12.98	19.876	23.98 or $11+10\log(B) = 24.51$	PASS
64	5320	6	12.99	19.922	23.98 or $11+10\log(B) = 24.51$	PASS
100	5500	6	12.97	19.831	23.98 or $11+10\log(B) = 24.43$	PASS
116	5580	6	12.81	19.113	23.98 or $11+10\log(B) = 24.37$	PASS
140	5700	6	12.96	19.785	23.98 or $11+10\log(B) = 24.25$	PASS
144	5720(U-NII 2C)	6	11.60	14.46	23.98 or $11+10\log(B) = 24.42$	PASS
144	5720 (U-NII 3)	6	7.34	5.42	30	PASS
149	5745	6	12.97	19.831	30	PASS
157	5785	6	12.99	19.922	30	PASS
165	5825	6	12.94	19.694	30	PASS

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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	12.9	12.51	15.84	38.397	23.98	PASS
44	5220	6	12.72	12.52	15.75	37.625	23.98	PASS
48	5240	6	12.67	12.41	15.68	36.945	23.98	PASS
52	5260	6	12.58	12.34	15.60	36.268	23.98 or 11+10log(B) = 24.40	PASS
60	5300	6	12.65	12.55	15.73	37.445	23.98 or 11+10log(B) = 24.34	PASS
64	5320	6	12.45	12.37	15.54	35.841	23.98 or 11+10log(B) = 24.51	PASS
100	5500	6	12.7	12.77	15.87	38.626	23.98 or 11+10log(B) = 24.43	PASS
116	5580	6	12.48	12.4	15.57	36.090	23.98 or 11+10log(B) = 24.37	PASS
140	5700	6	12.84	12.7	15.90	38.942	23.98 or 11+10log(B) = 24.25	PASS
144	5720(U-NII 2C)	6	11.30	11.10	14.30	26.938	23.98 or 11+10log(B) = 24.42	PASS
144	5720 (U-NII 3)	6	7.25	6.84	10.26	10.607	30	PASS
149	5745	6	12.83	12.4	15.75	37.618	30	PASS
157	5785	6	12.81	12.68	15.88	38.718	30	PASS
165	5825	6	12.71	12.69	15.83	38.315	30	PASS

802.11n_HT20_Ch0

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	12.44	17.556	23.98	PASS
44	5220	MCS0	12.46	17.637	23.98	PASS
48	5240	MCS0	12.45	17.597	23.98	PASS
52	5260	MCS0	12.20	16.612	23.98 or 11+10log(B) = 24.58	PASS
60	5300	MCS0	12.18	16.536	23.98 or 11+10log(B) = 24.34	PASS
64	5320	MCS0	12.17	16.498	23.98 or 11+10log(B) = 24.65	PASS
100	5500	MCS0	12.24	16.766	23.98 or 11+10log(B) = 24.34	PASS
116	5580	MCS0	12.43	17.516	23.98 or 11+10log(B) = 24.51	PASS
140	5700	MCS0	12.44	17.556	23.98 or 11+10log(B) = 24.66	PASS
144	5720(U-NII 2C)	MCS0	11.02	12.65	23.98 or 11+10log(B) = 24.46	PASS
144	5720 (U-NII 3)	MCS0	6.80	4.79	30	PASS
149	5745	MCS0	12.37	17.275	30	PASS
157	5785	MCS0	12.39	17.355	30	PASS
165	5825	MCS0	12.47	17.678	30	PASS

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802.11n_HT20_Ch1

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	12.46	17.637	23.98	PASS
44	5220	MCS0	12.48	17.719	23.98	PASS
48	5240	MCS0	12.49	17.759	23.98	PASS
52	5260	MCS0	12.40	17.395	23.98 or $11+10\log(B) = 24.47$	PASS
60	5300	MCS0	12.49	17.759	23.98 or $11+10\log(B) = 24.71$	PASS
64	5320	MCS0	12.44	17.556	23.98 or $11+10\log(B) = 24.65$	PASS
100	5500	MCS0	12.47	17.678	23.98 or $11+10\log(B) = 24.37$	PASS
116	5580	MCS0	12.44	17.556	23.98 or $11+10\log(B) = 24.58$	PASS
140	5700	MCS0	12.49	17.759	23.98 or $11+10\log(B) = 24.48$	PASS
144	5720(U-NII 2C)	MCS0	11.02	12.65	23.98 or $11+10\log(B) = 24.59$	PASS
144	5720 (U-NII 3)	MCS0	6.94	4.95	30	PASS
149	5745	MCS0	12.46	17.637	30	PASS
157	5785	MCS0	12.48	17.719	30	PASS
165	5825	MCS0	12.49	17.759	30	PASS

802.11n_HT20_MIMO

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
36	5180	MCS8	12.35	11.88	15.38	34.482	23.98	PASS
44	5220	MCS8	12.39	11.45	15.20	33.113	23.98	PASS
48	5240	MCS8	12.45	11.84	15.41	34.756	23.98	PASS
52	5260	MCS8	12.13	12.11	15.37	34.472	23.98 or $11+10\log(B) = 24.47$	PASS
60	5300	MCS8	12.12	11.83	15.23	33.358	23.98 or $11+10\log(B) = 24.34$	PASS
64	5320	MCS8	12.12	11.79	15.21	33.210	23.98 or $11+10\log(B) = 24.65$	PASS
100	5500	MCS8	12.22	11.73	15.24	33.393	23.98 or $11+10\log(B) = 24.34$	PASS
116	5580	MCS8	12.41	11.48	15.22	33.300	23.98 or $11+10\log(B) = 24.51$	PASS
140	5700	MCS8	12.39	11.87	15.39	34.613	23.98 or $11+10\log(B) = 24.48$	PASS
144	5720(U-NII 2C)	MCS8	10.99	10.10	13.84	24.190	23.98 or $11+10\log(B) = 24.46$	PASS
144	5720 (U-NII 3)	MCS8	6.77	6.02	9.62	9.156	30	PASS
149	5745	MCS8	12.32	11.87	15.36	34.320	30	PASS
157	5785	MCS8	12.32	11.97	15.40	34.699	30	PASS
165	5825	MCS8	12.45	11.86	15.42	34.831	30	PASS

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802.11n_HT40_Ch0

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	12.25	16.797	23.98	PASS
46	5230	MCS0	12.30	16.991	23.98	PASS
54	5270	MCS0	12.44	17.548	23.98 or $11+10\log(B) = 27.14$	PASS
62	5310	MCS0	12.43	17.508	23.98 or $11+10\log(B) = 27.13$	PASS
102	5510	MCS0	12.40	17.387	23.98 or $11+10\log(B) = 27.16$	PASS
110	5550	MCS0	12.29	16.952	23.98 or $11+10\log(B) = 27.12$	PASS
134	5670	MCS0	12.18	16.528	23.98 or $11+10\log(B) = 27.09$	PASS
142	5710(U-NII 2C)	MCS0	11.57	14.37	23.98 or $11+10\log(B) = 27.14$	PASS
142	5710 (U-NII 3)	MCS0	3.50	2.24	30	PASS
151	5755	MCS0	12.10	16.227	30	PASS
159	5795	MCS0	12.17	16.490	30	PASS

802.11n_HT40_Ch1

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	12.47	17.670	23.98	PASS
46	5230	MCS0	12.42	17.467	23.98	PASS
54	5270	MCS0	12.46	17.629	23.98 or $11+10\log(B) = 27.14$	PASS
62	5310	MCS0	12.48	17.710	23.98 or $11+10\log(B) = 27.13$	PASS
102	5510	MCS0	12.41	17.427	23.98 or $11+10\log(B) = 27.15$	PASS
110	5550	MCS0	12.49	17.751	23.98 or $11+10\log(B) = 27.16$	PASS
134	5670	MCS0	12.47	17.670	23.98 or $11+10\log(B) = 27.13$	PASS
142	5710(U-NII 2C)	MCS0	11.88	15.42	23.98 or $11+10\log(B) = 27.09$	PASS
142	5710 (U-NII 3)	MCS0	3.67	2.33	23.98	PASS
151	5755	MCS0	12.48	17.710	23.98	PASS
159	5795	MCS0	12.49	17.751	30	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	12.24	11.99	15.35	34.272	23.98	PASS
46	5230	MCS8	12.28	12.2	15.47	35.260	23.98	PASS
54	5270	MCS8	12.43	11.92	15.42	34.794	23.98 or $11+10\log(B) = 27.14$	PASS
62	5310	MCS8	12.38	12.09	15.47	35.237	23.98 or $11+10\log(B) = 27.13$	PASS
102	5510	MCS8	12.38	11.68	15.28	33.703	23.98 or $11+10\log(B) = 27.15$	PASS
110	5550	MCS8	12.29	11.9	15.33	34.135	23.98 or $11+10\log(B) = 27.12$	PASS
134	5670	MCS8	12.08	12.1	15.32	34.061	23.98 or $11+10\log(B) = 27.09$	PASS
142	5710(U-NII 2C)	MCS8	11.54	11.36	14.67	29.340	23.98 or $11+10\log(B) = 27.09$	PASS
142	5710 (U-NII 3)	MCS8	3.47	3.15	6.60	4.574	30	PASS
151	5755	MCS8	12.08	11.92	15.23	33.368	30	PASS
159	5795	MCS8	12.11	11.86	15.22	33.261	30	PASS

802.11ac VHT80 Ch0

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	12.04	15.989	23.98	PASS
58	5290	MCS0	12.18	16.513	23.98 or $11+10\log(B) = 30.19$	PASS
106	5530	MCS0	12.32	17.054	23.98 or $11+10\log(B) = 30.18$	PASS
122	5610	MCS0	12.36	17.212	23.98 or $11+10\log(B) = 30.18$	PASS
138	5690(U-NII 2C)	MCS0	11.84	15.28	23.98 or $11+10\log(B) = 30.20$	PASS
138	5690 (U-NII 3)	MCS0	1.18	1.31	30	PASS
155	5775	MCS0	12.32	17.054	30	PASS

802.11ac VHT80 Ch1

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	12.28	16.897	23.98	PASS
58	5290	MCS0	12.49	17.735	23.98 or $11+10\log(B) = 30.13$	PASS
106	5530	MCS0	12.44	17.532	23.98 or $11+10\log(B) = 30.17$	PASS
122	5610	MCS0	12.48	17.694	23.98 or $11+10\log(B) = 30.15$	PASS
138	5690(U-NII 2C)	MCS0	12.16	16.43	23.98 or $11+10\log(B) = 30.14$	PASS
138	5690 (U-NII 3)	MCS0	1.16	1.31	23.98	PASS
155	5775	MCS0	12.35	17.172	23.98	PASS

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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	12.02	11.47	15.23	33.360	23.98	PASS
58	5290	MCS0	12.15	11.58	15.35	34.299	23.98 or $11+10\log(B) = 30.13$	PASS
106	5530	MCS0	12.3	11.07	15.21	33.166	23.98 or $11+10\log(B) = 30.17$	PASS
122	5610	MCS0	12.34	12.29	15.79	37.963	23.98 or $11+10\log(B) = 30.15$	PASS
138	5690(U-NII 2C)	MCS0	11.75	11.51	15.10	32.342	23.98 or $11+10\log(B) = 30.14$	PASS
138	5690 (U-NII 3)	MCS0	1.09	0.51	4.44	2.779	30	PASS
155	5775	MCS0	12.24	11.99	15.60	36.269	30	PASS

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10 MAXIMUM POWER SPECTRAL DENSITY

10.1 Standard Applicable

FCC

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

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

Note:

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

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

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

where

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

NSS = the number of independent spatial streams of data;

NANT = the total number of antennas

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

G_k is the gain in dBi of the kth antenna.

The antenna gain is not greater than 6 dBi. Therefore, reduction of power is not required.

	Effective Legacy Gain (dBi)	PSD Limit	
UNII-1	5.55	11.00	dBm/MHz
UNII-2A	5.68	11.00	dBm/MHz
U-NII-2C	5.75	11.00	dBm/MHz
U-NII-3	4.32	30.00	dBm/500 kHz

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10.2 Measurement Procedure

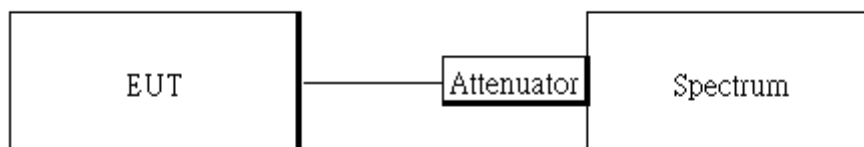
1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to Spectrum.
4. **For U-NII1, U-NII-2A, U-NII-2C Band:**
Set 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/ac MIMO mode: offset is set following "measure and add 10 Log (N)" on spectrum to measure the PSD for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna. N=3 for this given application.

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

10.3 Measurement Equipment Used

SGS Conducted Room					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum Analyzer	KEYSIGHT	N9010B	MY59070196	03/22/2020	03/21/2021
DC Block	PASTERNAK	PE8210	RF256	11/20/2019	11/19/2020
Attenuator	Marvelous	WATT-218FS-10	RF245	11/20/2019	11/19/2020

10.4 Test Set-up



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10.5 Measurement Result

10.5.1 Power spectral density

POWER DENSITY 802.11a MODE					
Frequency (MHz)	PSD W/O Duty Factor (dBm)	Duty Factor	PSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5180.00	4.53	0.12	4.65	11.00	-6.35
5220.00	3.66	0.12	3.78	11.00	-7.22
5240.00	4.09	0.12	4.21	11.00	-6.79
5260.00	4.10	0.12	4.22	11.00	-6.78
5300.00	3.51	0.12	3.63	11.00	-7.37
5320.00	3.46	0.12	3.58	11.00	-7.42
5500.00	4.57	0.12	4.69	11.00	-6.31
5580.00	5.04	0.12	5.16	11.00	-5.84
5700.00	6.21	0.12	6.33	11.00	-4.67
5720 (U-NII 2C)	5.84	0.12	5.96	11.00	-5.04
5720 (U-NII 3)	1.38	0.12	1.51	30.00	-28.49
5745.00	2.29	0.12	2.41	30.00	-27.59
5785.00	1.99	0.12	2.11	30.00	-27.89
5825.00	1.70	0.12	1.82	30.00	-28.18
POWER DENSITY 802.11n HT20 MODE					
Frequency (MHz)	PSD W/O Duty Factor (dBm)	Duty Factor	PSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5180	3.61	0.24	3.85	11	-7.15
5220	1.06	0.24	1.31	11	-9.69
5240	1.27	0.24	1.51	11	-9.49
5260	1.13	0.24	1.38	11	-9.62
5300	1.30	0.24	1.54	11	-9.46
5320	1.85	0.24	2.09	11	-8.91
5500	2.58	0.24	2.83	11	-8.17
5580	2.24	0.24	2.48	11	-8.52
5700	3.69	0.24	3.93	11	-7.07
5720 (U-NII 2C)	4.56	0.24	4.80	11	-6.20
5720 (U-NII 3)	0.76	0.24	1.00	30	-29.00
5745	0.65	0.24	0.89	30	-29.11
5785	0.90	0.24	1.15	30	-28.85
5825	0.42	0.24	0.66	30	-29.34

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POWER DENSITY 802.11n HT40 MODE					
Frequency (MHz)	PSD W/O Duty Factor (dBm)	Duty Factor	PSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5190	-1.877	0.22	-1.65	11	-12.65
5230	-2.047	0.22	-1.82	11	-12.82
5270	-1.748	0.22	-1.53	11	-12.53
5310	-1.123	0.22	-0.90	11	-11.90
5510	-0.128	0.22	0.09	11	-10.91
5550	-0.519	0.22	-0.30	11	-11.30
5670	0.41	0.22	0.64	11	-10.36
5710 (U-NII 2C)	1.93	0.22	2.15	11	-8.85
5710 (U-NII 3)	-2.34	0.22	-2.11	30	-32.11
5755	-1.87	0.22	-1.65	30	-31.65
5795	-1.43	0.22	-1.21	30	-31.21
POWER DENSITY 802.11ac VHT80 MODE					
Frequency (MHz)	PSD W/O Duty Factor (dBm)	Duty Factor	PSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5210	-4.37	0.47	-3.90	11	-14.90
5290	-4.21	0.47	-3.74	11	-14.74
5530	-3.00	0.47	-2.53	11	-13.53
5610	-3.07	0.47	-2.60	11	-13.60
5690 (U-NII 2C)	-0.34	0.47	0.13	11	-10.87
5690 (U-NII 3)	-5.88	0.47	-5.41	30	-35.41
5775	-4.61	0.47	-4.14	30	-34.14

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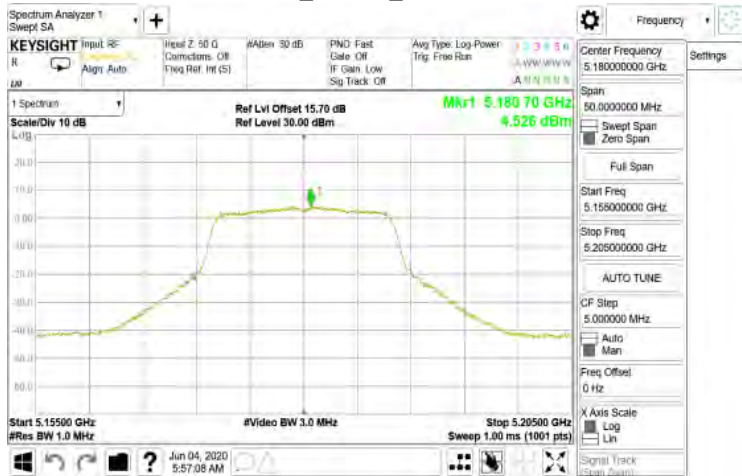
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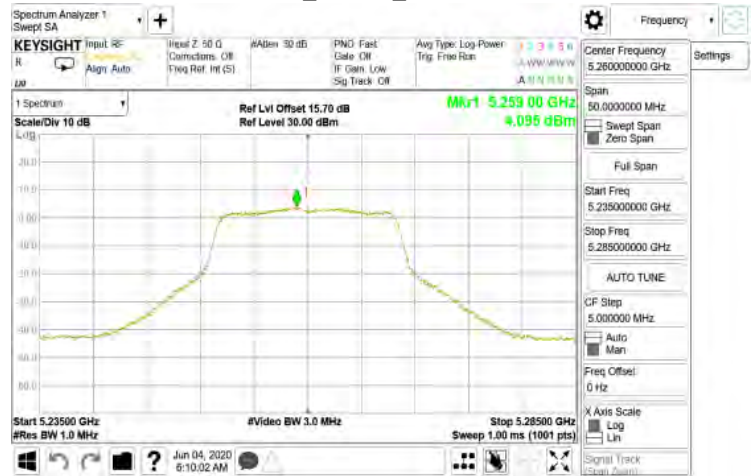
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802.11a_20MHz_5180MHz



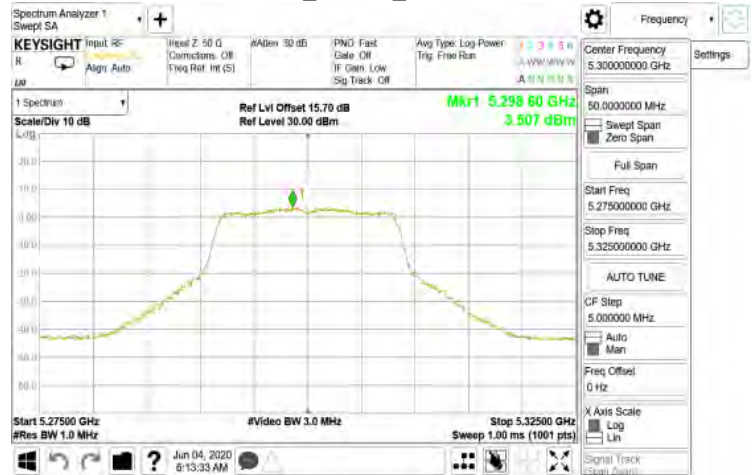
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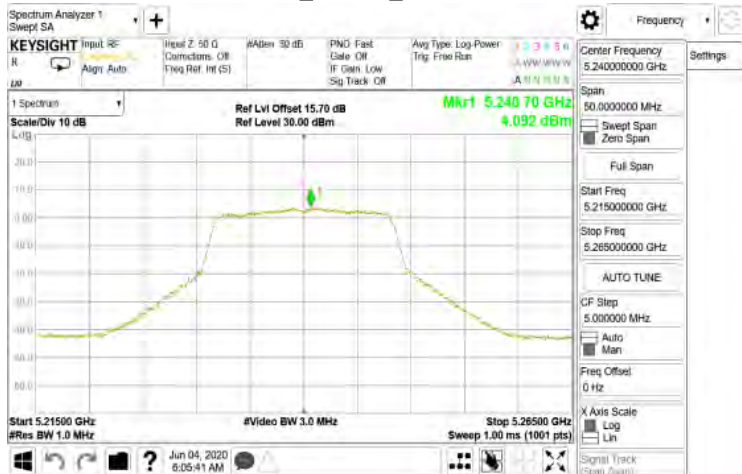
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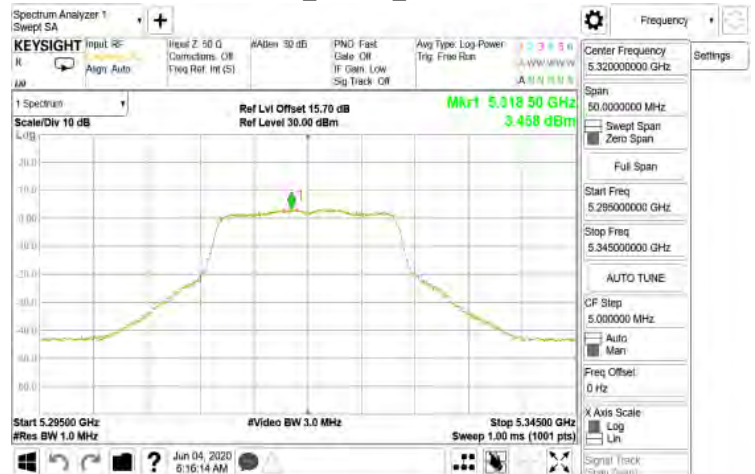
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802.11a_20MHz_5240MHz



802.11a_20MHz_5320MHz

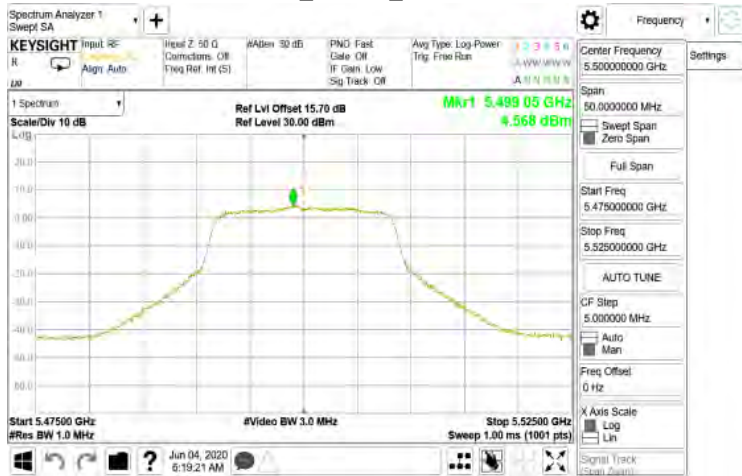


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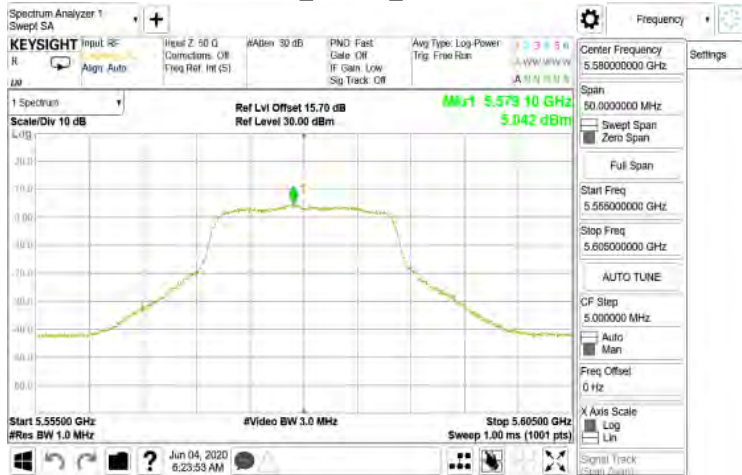
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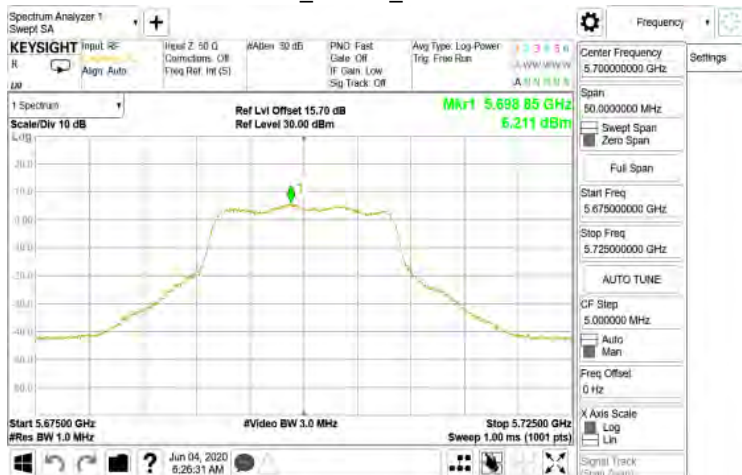
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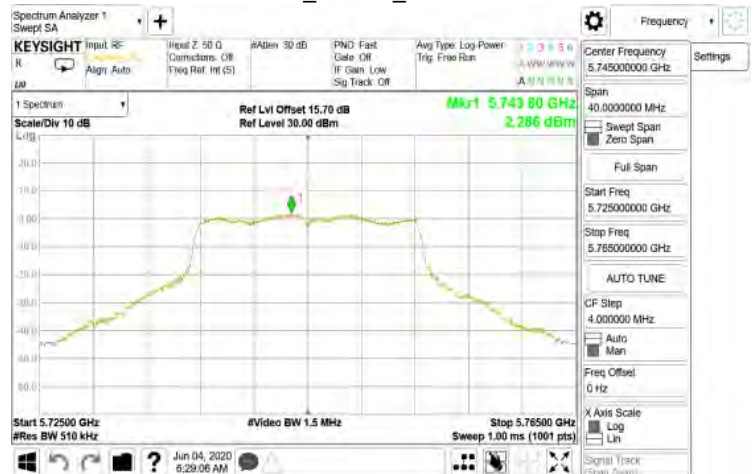
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802.11a_20MHz_5700MHz



802.11a_20MHz_5745MHz

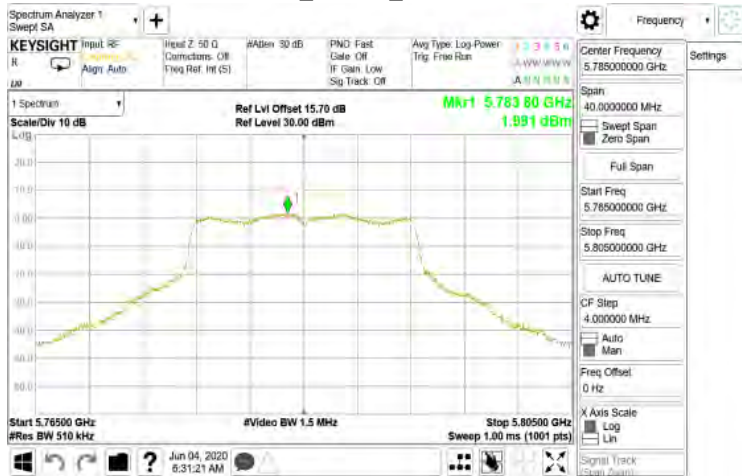


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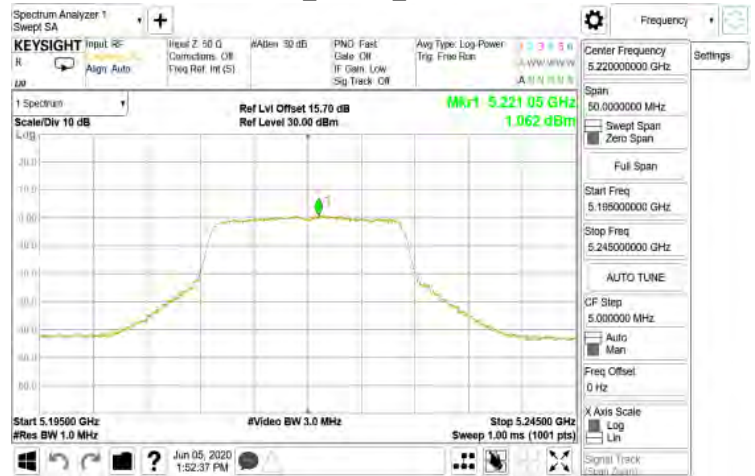
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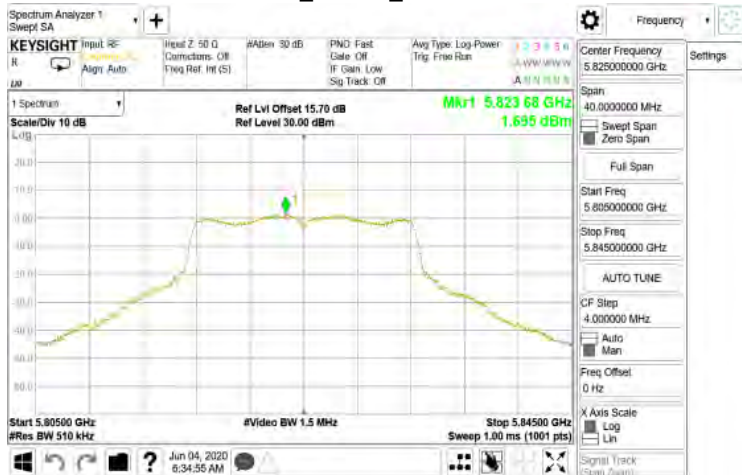
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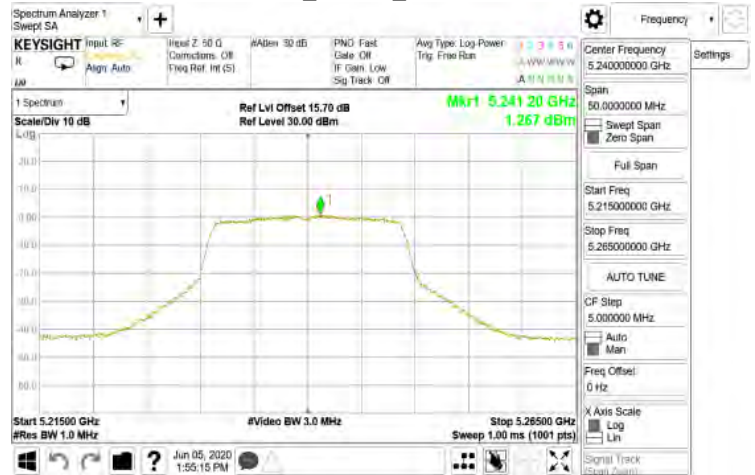
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802.11a_20MHz_5825MHz



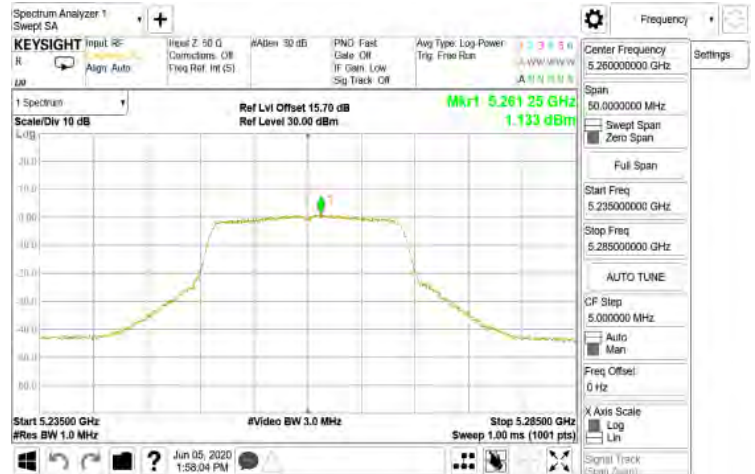
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802.11n_20MHz_5180MHz



802.11n_20MHz_5260MHz



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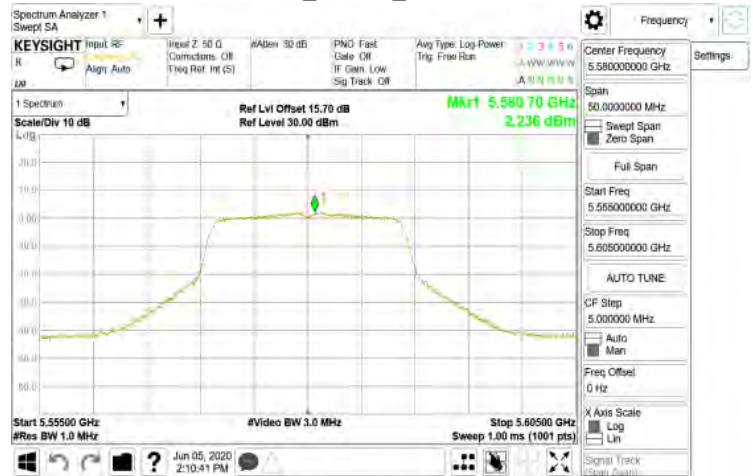
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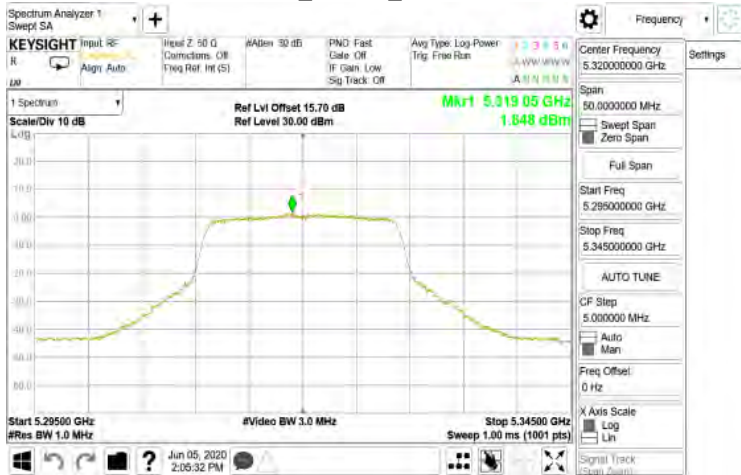
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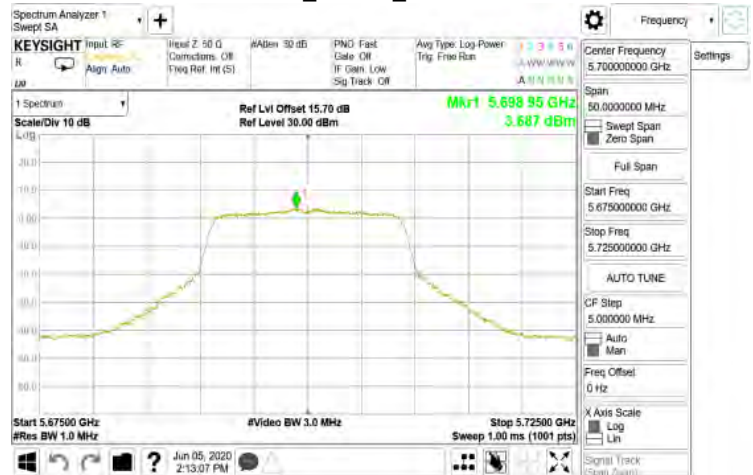
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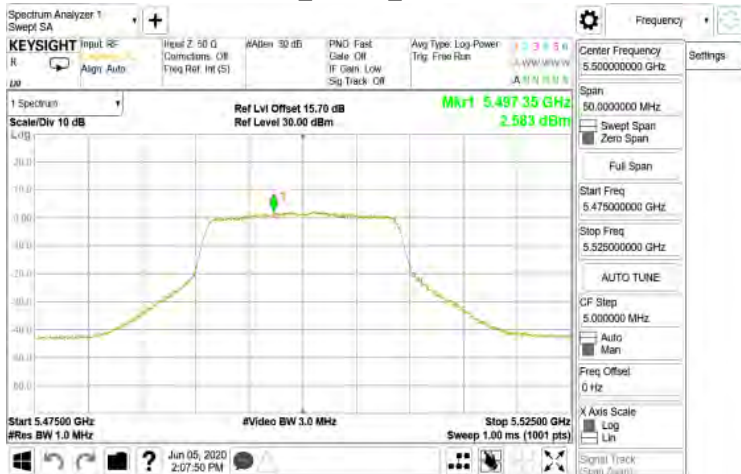
802.11n_20MHz_5320MHz



802.11n_20MHz_5700MHz



802.11n_20MHz_5500MHz



802.11n_20MHz_5720MHz_2C



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802.11n_20MHz_5720MHz_3



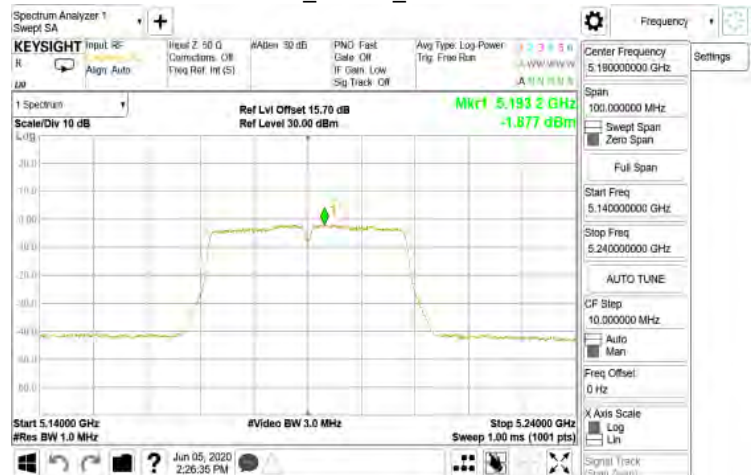
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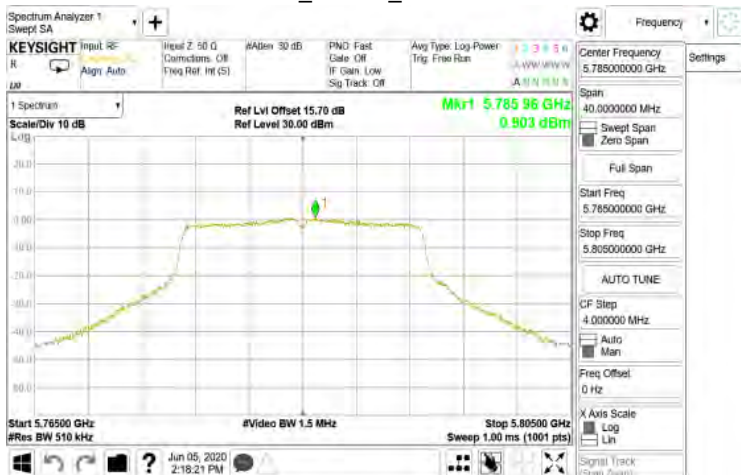
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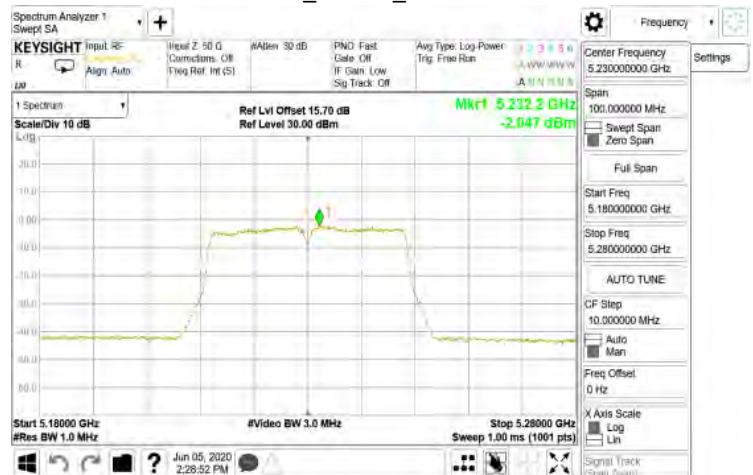
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802.11n_20MHz_5785MHz



802.11n_40MHz_5230MHz

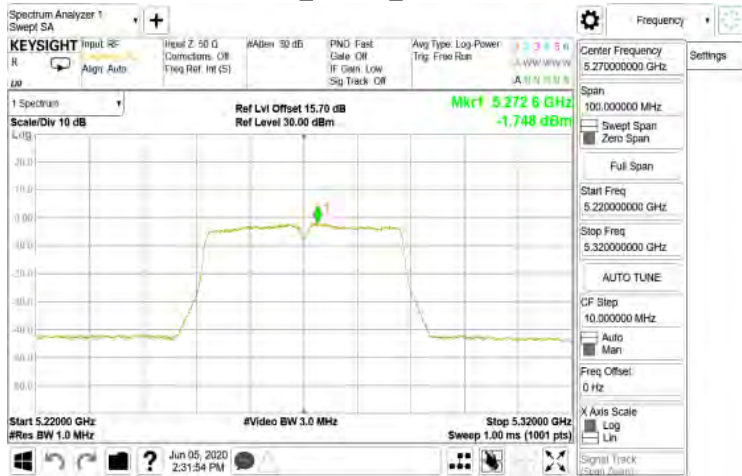


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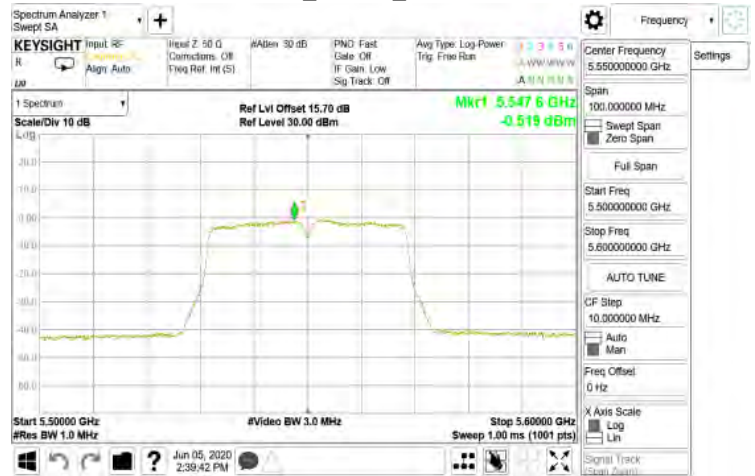
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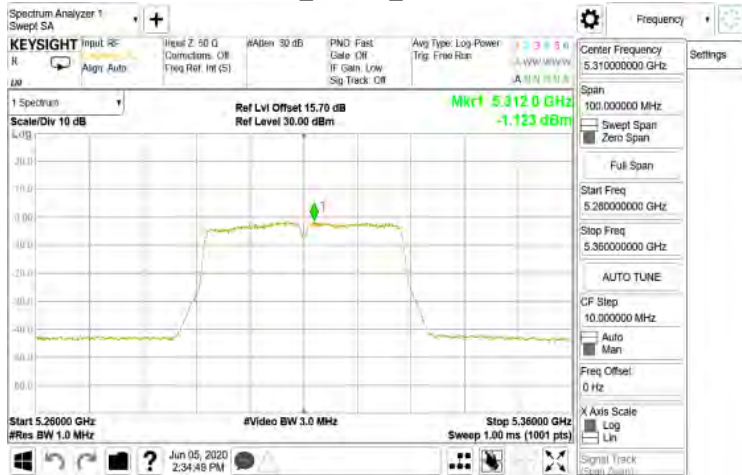
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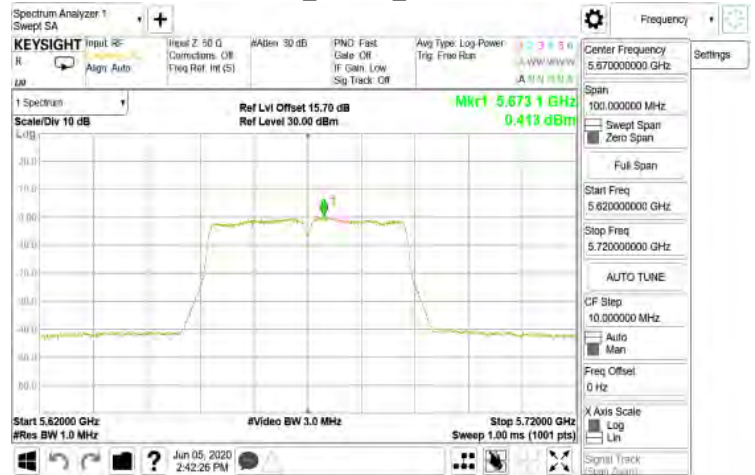
802.11n_40MHz_5550MHz



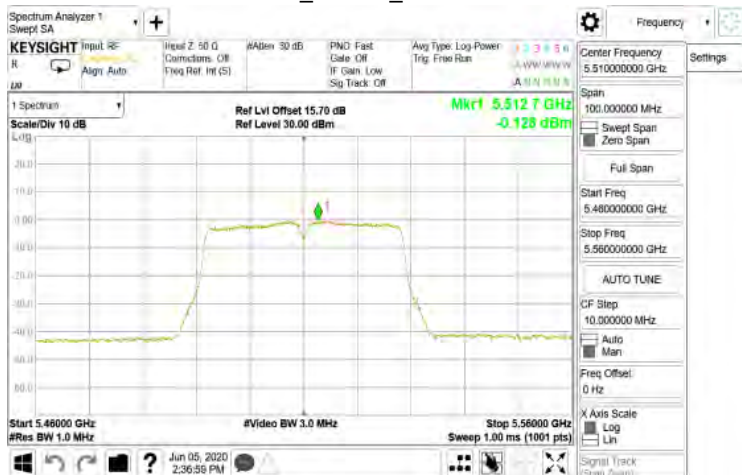
802.11n_40MHz_5310MHz



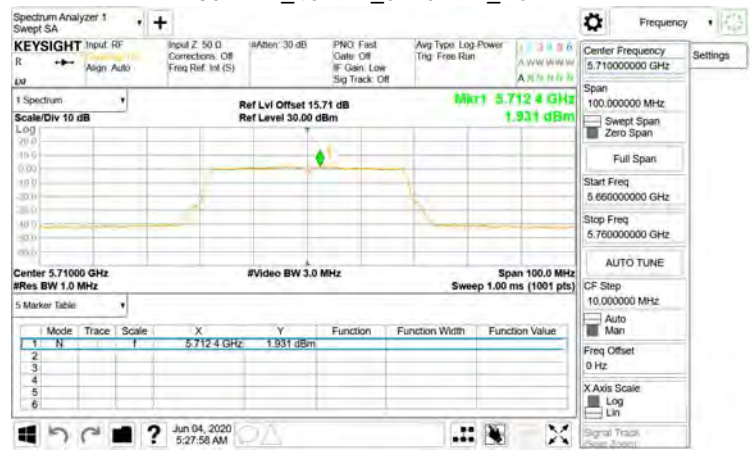
802.11n_40MHz_5670MHz



802.11n_40MHz_5510MHz



802.11n_40MHz_5710MHz_2C



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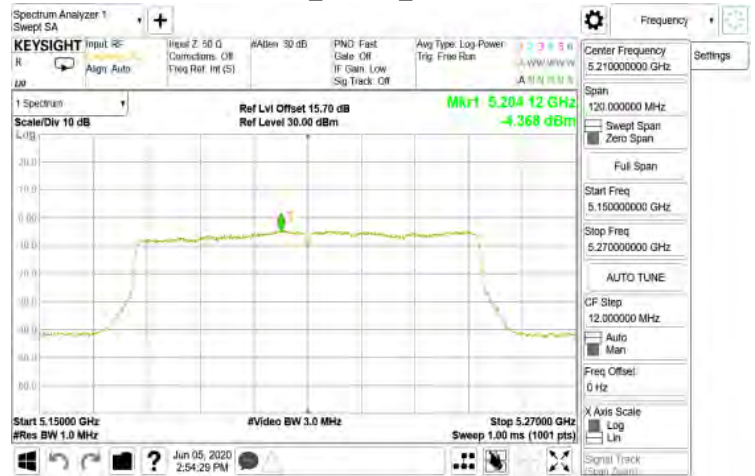
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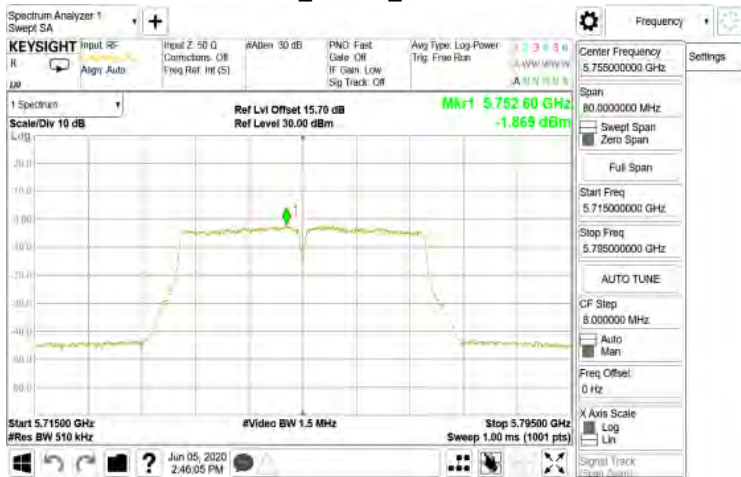
802.11n_40MHz_5710MHz_3



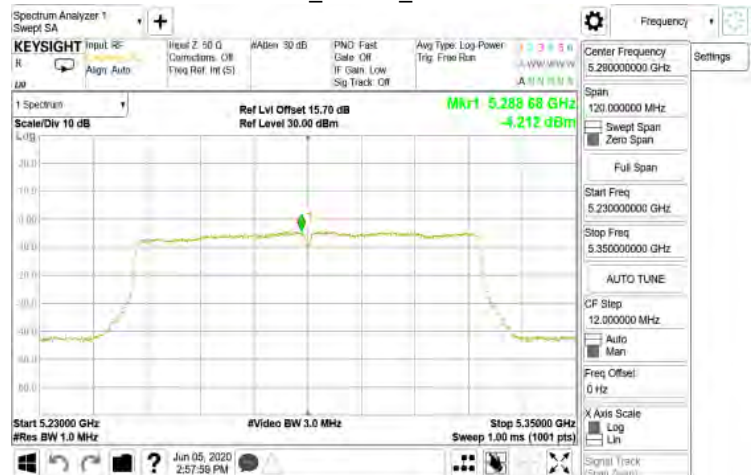
802.11ac_80MHz_5210MHz



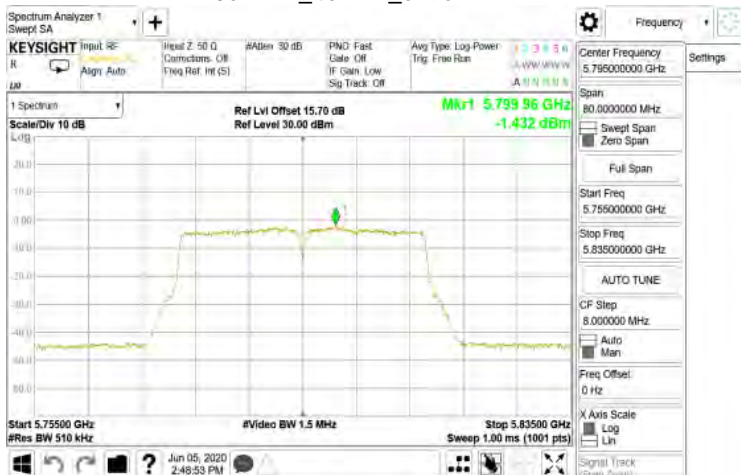
802.11n_40MHz_5755MHz



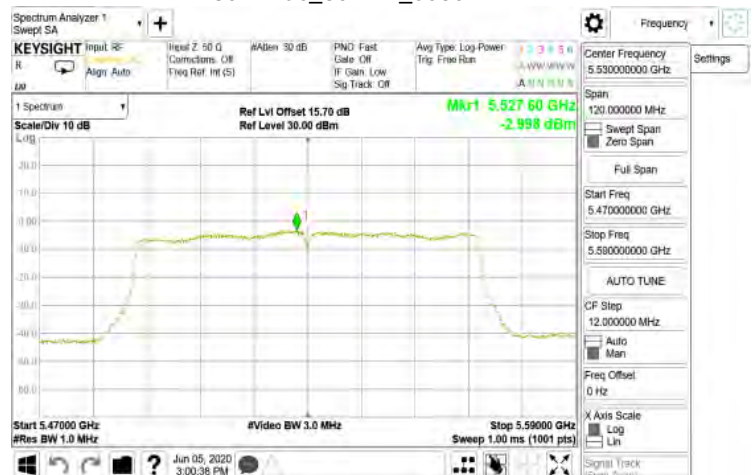
802.11ac_80MHz_5290MHz



802.11n_40MHz_5795MHz



802.11ac_80MHz_5530MHz

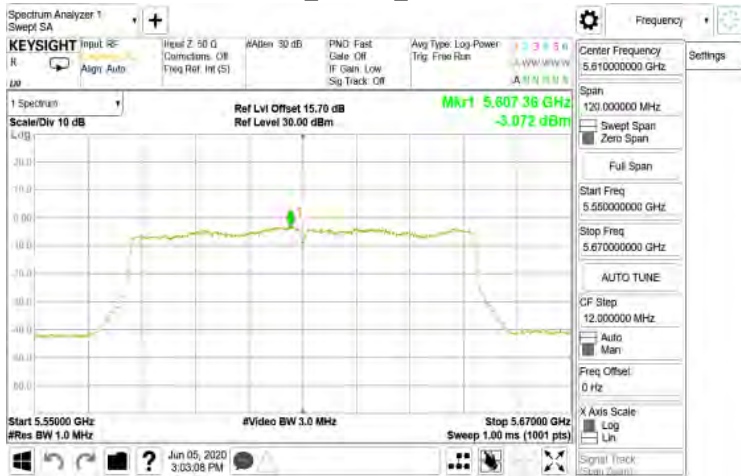


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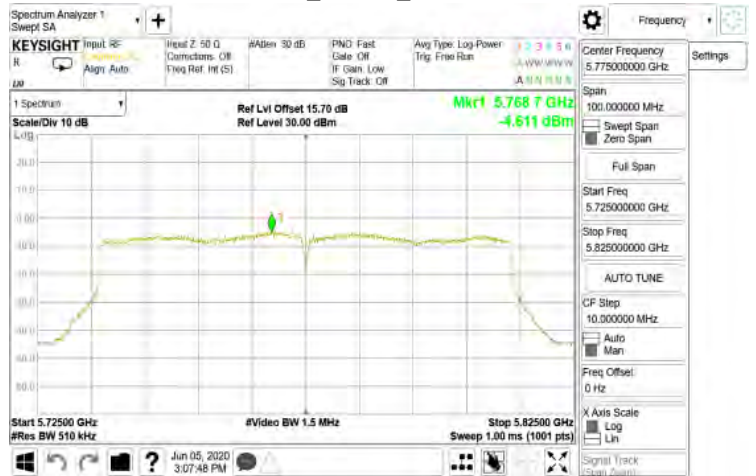
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802.11ac_80MHz_5610MHz



802.11ac_80MHz_5775MHz



802.11ac_80MHz_5690MHz_2C



802.11ac_80MHz_5690MHz_3



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11 UNDESIRABLE RADIATED EMISSION MEASUREMENT

11.1 Standard Applicable

11.1.1 Band Edge

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

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

APPLICABLE TO	EIRP LIMIT	FIELD STRENGTH AT 3m
15.407(b)(1) RSS-247 §6.2.1.2	PK: -27 (dBm/MHz)	PK: 68.3 (dBμV/m)
15.407(b)(2) RSS-247 §6.2.2.2		
15.407(b)(3) RSS-247 §6.2.3.2		
15.407(b)(4)(i) RSS-247 §6.2.4.2	PK:-27 (dBm/MHz) *1 PK:10 (dBm/MHz) *2 PK:15.6 (dBm/MHz) *3 PK:27 (dBm/MHz) *4	PK: 68.2(dBμV/m) *1 PK:105.2 (dBμV/m) *2 PK: 110.8(dBμV/m) *3 PK:122.2 (dBμV/m) *4
*1 beyond 75 MHz or more above of the bandedge. *2 below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above. *3 below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above. *4 from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.		

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

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11.1.2 Spurious Emission

Unwanted spurious emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table:

Frequency (MHz)	Field strength (microvolts/meter)	Distance (meters)
0.009-0.490	2400/F(KHz)	300
0.490-1.705	24000/F(KHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Note:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBμV/m) = 20 log Emission level (μV/m)

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11.2 Measurement Equipment Used

SGS SAC-III					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Horn Antenna	Schwarzbeck	BBHA9170	185	08/07/2019	08/06/2020
Horn Antenna	Schwarzbeck	BBHA9120D	1187	01/10/2020	01/09/2021
EMI Test Receiver	R&S	ESU 40	100363	04/29/2020	04/28/2021
Pre-Amplifier	EMC Instruments	EMC0011830	980199	11/20/2019	11/19/2020
Pre-Amplifier	EMC Instruments	EMC184045B	980135	11/20/2019	11/19/2020
Attenuator	Woken	WATT-218FS-10	RF25	11/20/2019	11/19/2020
Band Rejection Filter	Micro-Tronics	G015	RF100	11/20/2019	11/19/2020
Band Rejection Filter	Micro-Tronics	G016	RF101	11/20/2019	11/19/2020
Band Rejection Filter	Micro-Tronics	G021	RF102	11/20/2019	11/19/2020
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17388/4	11/20/2019	11/19/2020
Coaxial Cable	Huber Suhner	RG 214/U	W22.03	11/20/2019	11/19/2020

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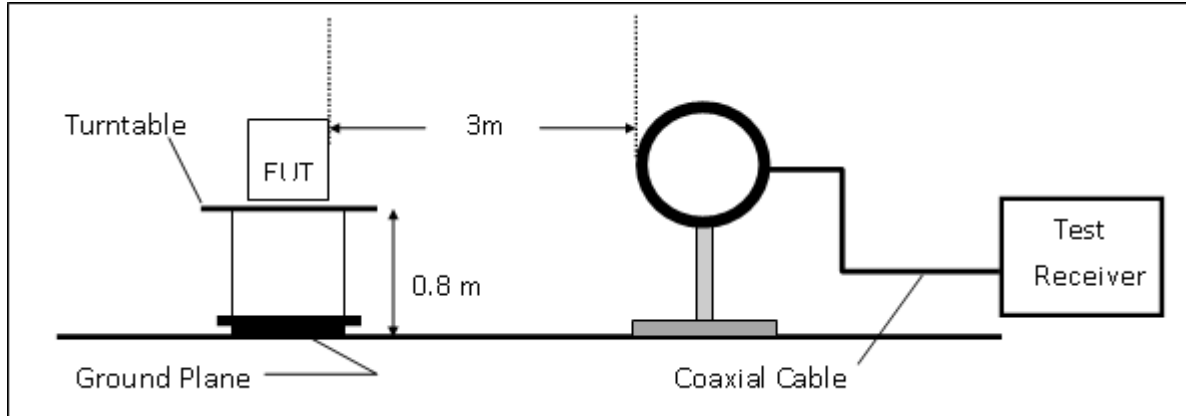
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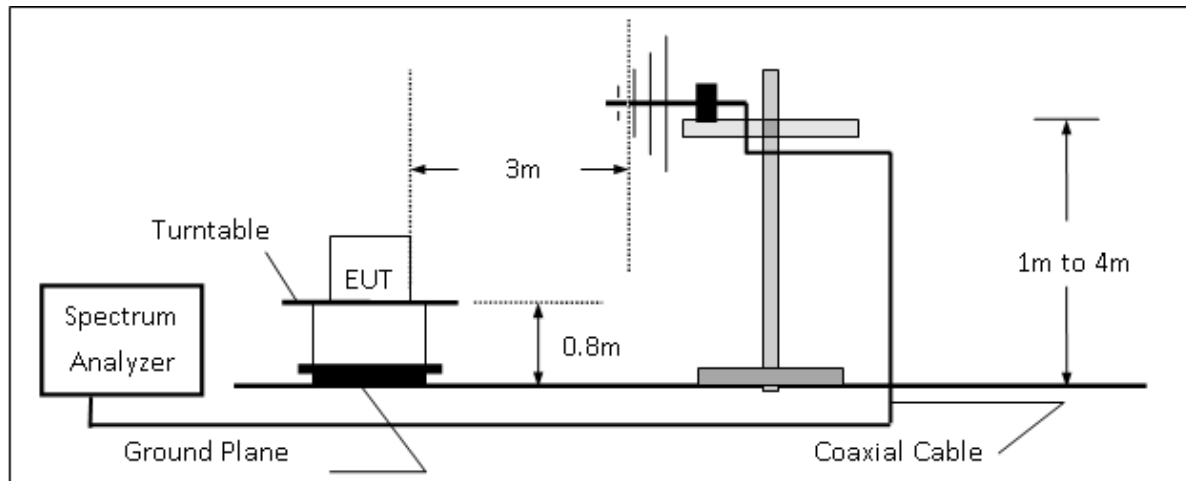
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11.3 Test SET-UP

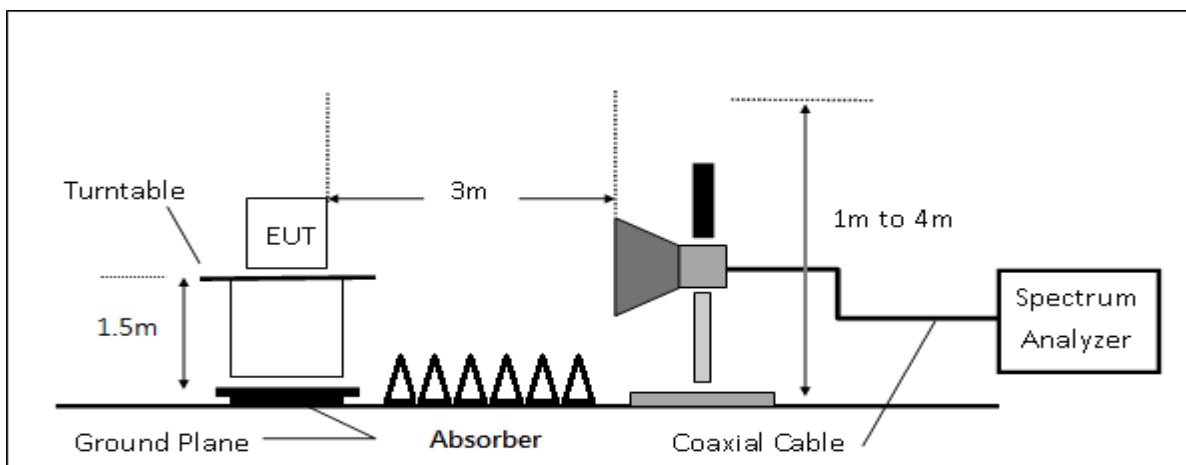
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(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. At frequency above 1 GHz, Set the spectrum analyzer:
 - A. RBW=1 MHz, VBW=3 MHz for **Peak** Detector.
 - B. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW \geq 1/T (Duty cycle < 98%) for **Average** Detector.
8. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
9. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
10. Repeat above procedures until all frequency measured were complete.

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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

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

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

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

11.6 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.

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

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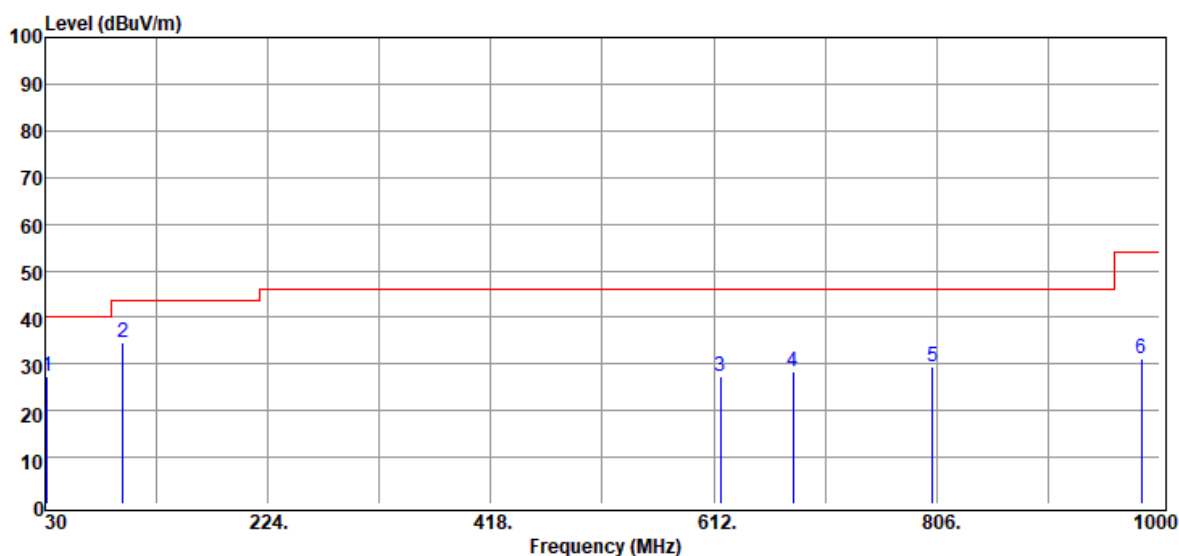
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11.7 Radiated Spurious Emission Measurement Result

11.7.1 Below 1GHz Worst-Case Data:

Report Number	:E2/2020/50085	Test Date	:2020-06-06
Operation Mode	:802.11a / Band 1	Temp./Humi.	:23.5/52
Test Frequency	:5220 MHz	Antenna Pol.	:VERTICAL
Test Mode	:TX CH MID	Engineer	:Ashton
EUT Pol	:E2 Plan		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
31.94	Peak	31.56	-4.26	27.30	40.00	-12.70
97.90	Peak	50.59	-15.99	34.60	43.50	-8.90
617.82	Peak	30.03	-2.53	27.50	46.00	-18.50
680.87	Peak	30.48	-1.96	28.52	46.00	-17.48
802.12	Peak	29.51	0.07	29.58	46.00	-16.42
984.48	Peak	29.54	1.77	31.31	54.00	-22.69

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t (886-2) 2299-3279

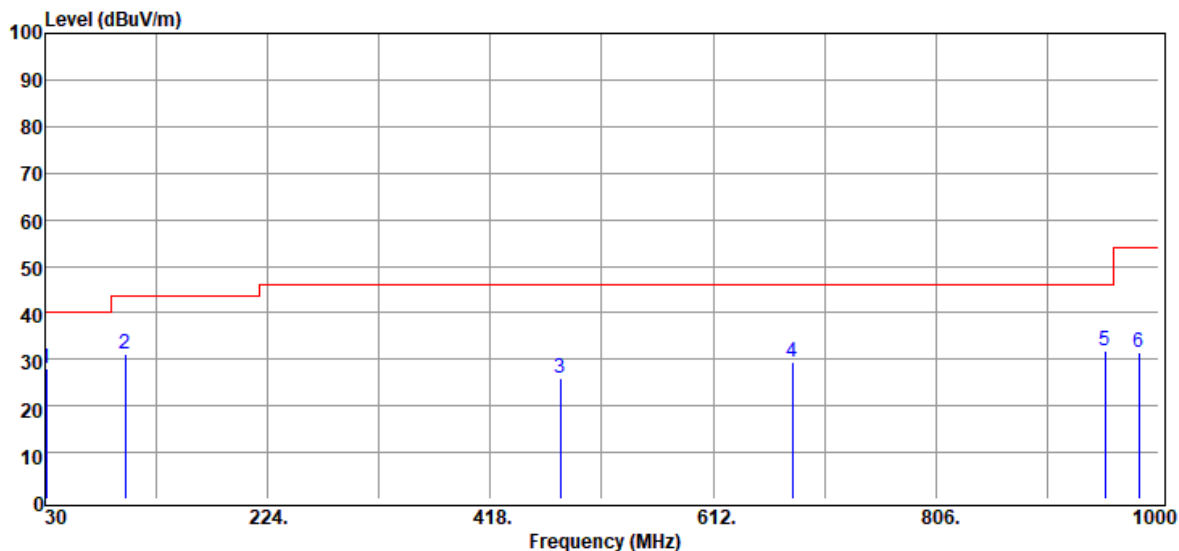
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Report Number :E2/2020/50085
Operation Mode :802.11a / Band 1
Test Frequency :5220 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Date :2020-06-06
Temp./Humi. :23.5/52
Antenna Pol. :HORIZONTAL
Engineer :Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
30.97	Peak	31.82	-3.89	27.93	40.00	-12.07
99.84	Peak	46.80	-15.66	31.14	43.50	-12.36
479.11	Peak	31.16	-5.15	26.01	46.00	-19.99
680.87	Peak	31.22	-1.96	29.26	46.00	-16.74
953.44	Peak	30.38	1.41	31.79	46.00	-14.21
982.54	Peak	29.54	1.82	31.36	54.00	-22.64

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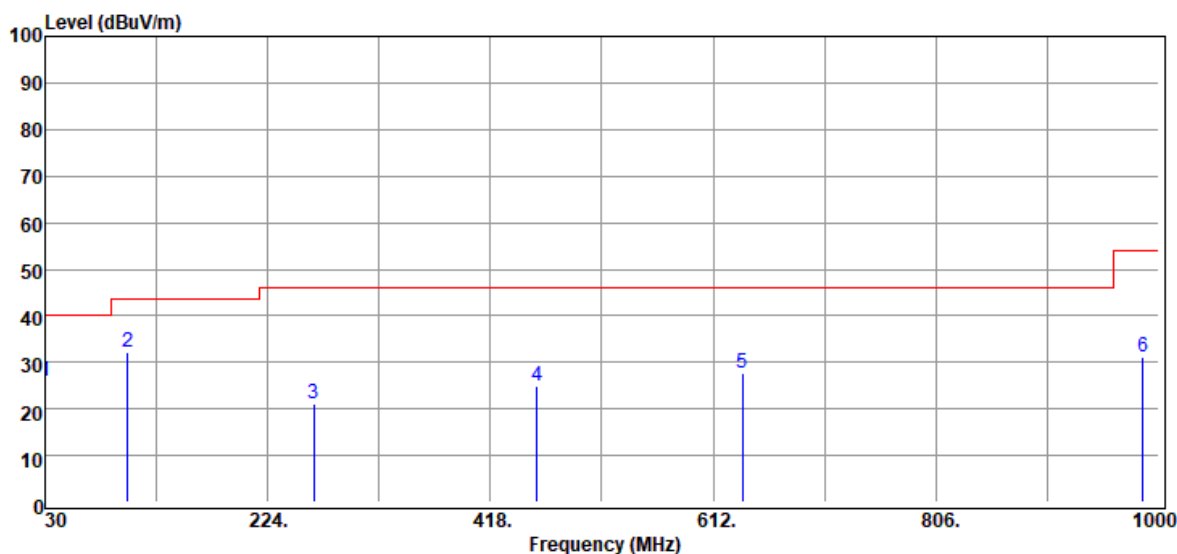
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Report Number :E2/2020/50085
Operation Mode :802.11a / Band 2
Test Frequency :5300 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Date :2020-06-06
Temp./Humi. :23.4/55
Antenna Pol. :VERTICAL
Engineer :Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
30.00	Peak	29.26	-3.33	25.93	40.00	-14.07
101.78	Peak	47.29	-15.21	32.08	43.50	-11.42
263.77	Peak	31.71	-10.67	21.04	46.00	-24.96
458.74	Peak	30.96	-5.92	25.04	46.00	-20.96
637.22	Peak	29.77	-1.93	27.84	46.00	-18.16
986.42	Peak	29.26	1.76	31.02	54.00	-22.98

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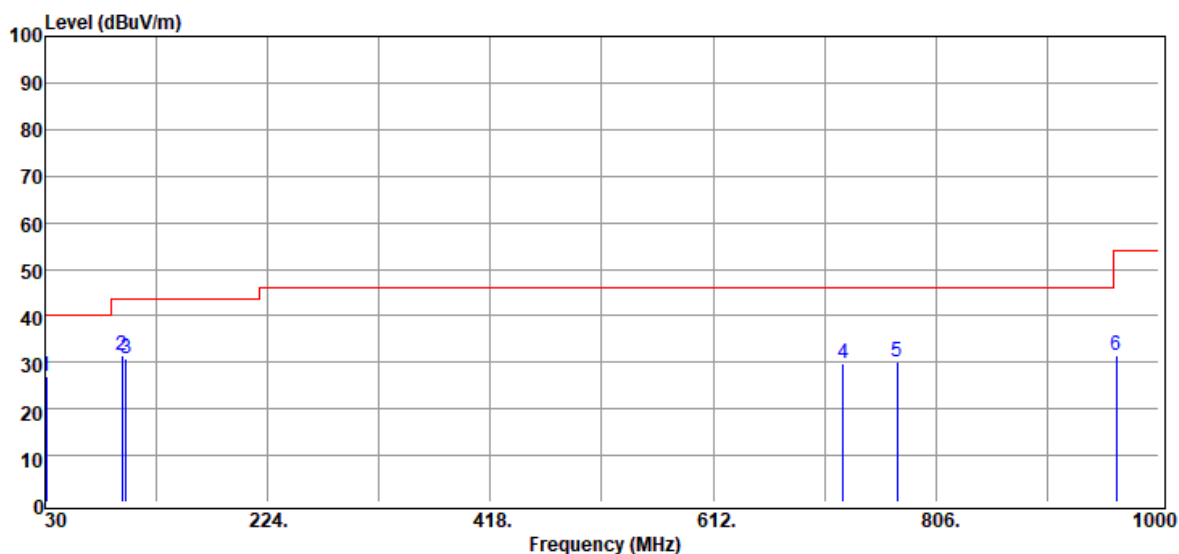
f (886-2) 2298-0488

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Report Number :E2/2020/50085
Operation Mode :802.11a / Band 2
Test Frequency :5300 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Date :2020-06-06
Temp./Humi. :23.4/55
Antenna Pol. :HORIZONTAL
Engineer :Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
30.97	Peak	31.00	-3.89	27.11	40.00	-12.89
96.93	Peak	47.73	-16.13	31.60	43.50	-11.90
100.81	Peak	46.35	-15.47	30.88	43.50	-12.62
725.49	Peak	31.85	-2.23	29.62	46.00	-16.38
772.05	Peak	30.28	-0.22	30.06	46.00	-15.94
963.14	Peak	30.01	1.35	31.36	54.00	-22.64

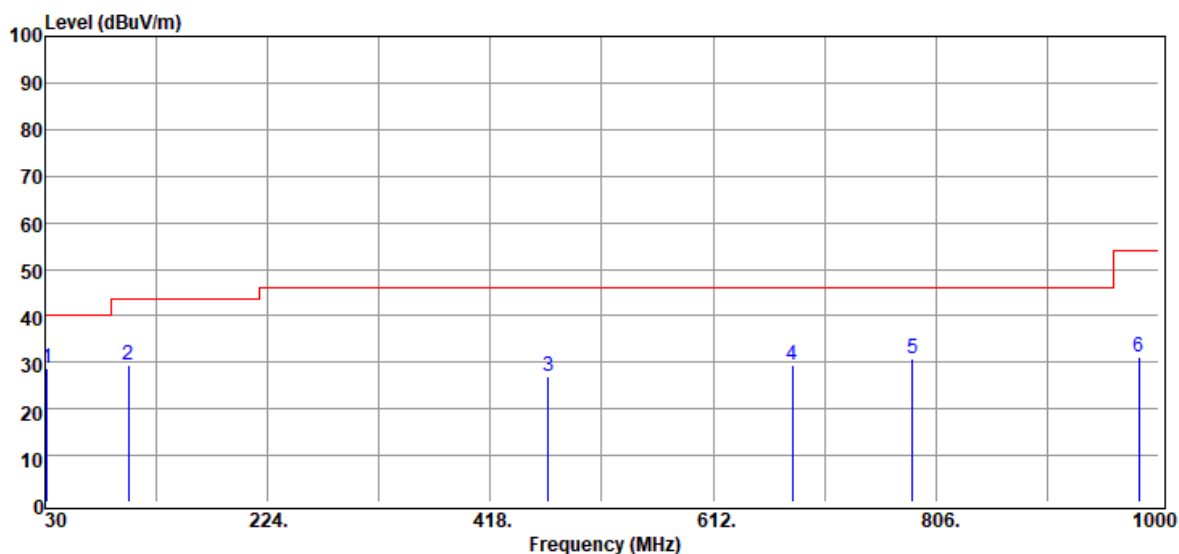
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Report Number :E2/2020/50085
Operation Mode :802.11a / Band 3
Test Frequency :5580 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Date :2020-06-06
Temp./Humi. :23.5/58
Antenna Pol. :VERTICAL
Engineer :Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
31.94	Peak	32.99	-4.26	28.73	40.00	-11.27
102.75	Peak	44.56	-15.14	29.42	43.50	-14.08
468.44	Peak	32.38	-5.53	26.85	46.00	-19.15
680.87	Peak	31.30	-1.96	29.34	46.00	-16.66
785.63	Peak	30.50	0.23	30.73	46.00	-15.27
982.54	Peak	29.45	1.82	31.27	54.00	-22.73

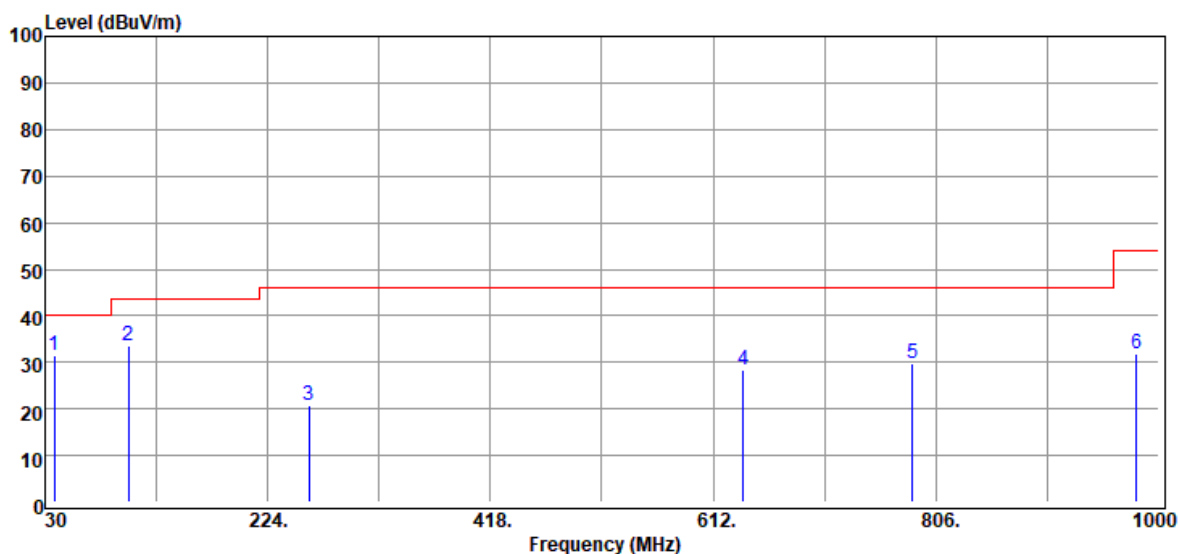
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Report Number :E2/2020/50085
Operation Mode :802.11a / Band 3
Test Frequency :5580 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Date :2020-06-06
Temp./Humi. :23.5/58
Antenna Pol. :HORIZONTAL
Engineer :Ashton



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	38.88	-7.37	31.51	40.00	-8.49
102.75	Peak	48.69	-15.14	33.55	43.50	-9.95
259.89	Peak	31.27	-10.39	20.88	46.00	-25.12
638.19	Peak	30.23	-1.96	28.27	46.00	-17.73
785.63	Peak	29.68	0.23	29.91	46.00	-16.09
980.60	Peak	30.04	1.87	31.91	54.00	-22.09

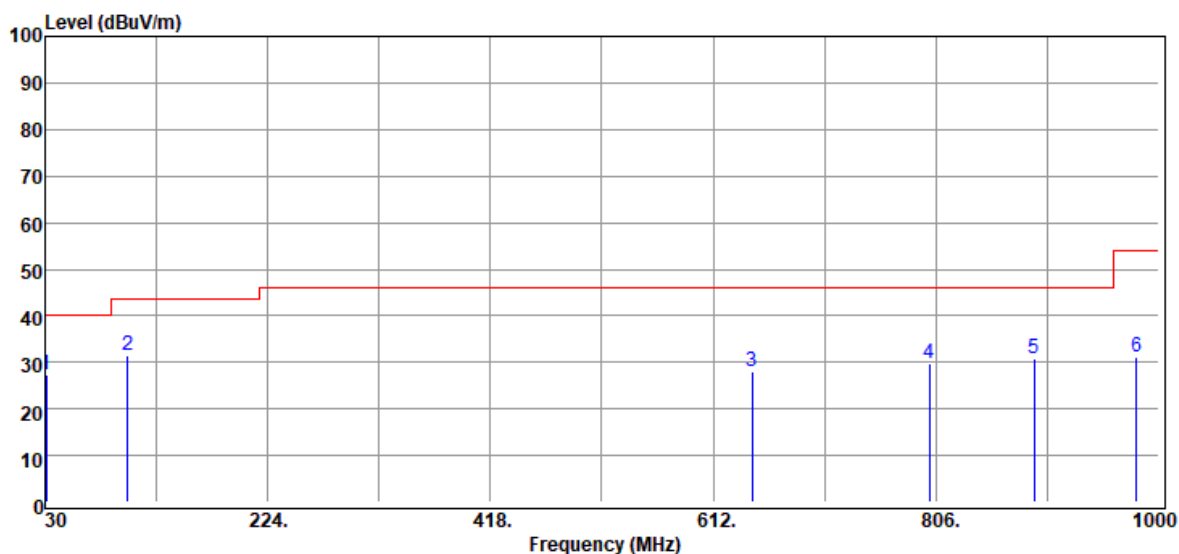
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Report Number :E2/2020/50085
 Operation Mode :802.11a / Band 4
 Test Frequency :5785 MHz
 Test Mode :TX CH MID
 EUT Pol :E2 Plan

Test Date :2020-06-06
 Temp./Humi. :23.4/57
 Antenna Pol. :VERTICAL
 Engineer :Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
30.97	Peak	31.14	-3.89	27.25	40.00	-12.75
101.78	Peak	46.71	-15.21	31.50	43.50	-12.00
645.95	Peak	30.06	-2.09	27.97	46.00	-18.03
800.18	Peak	29.57	0.05	29.62	46.00	-16.38
891.36	Peak	30.41	0.44	30.85	46.00	-15.15
980.60	Peak	29.26	1.87	31.13	54.00	-22.87

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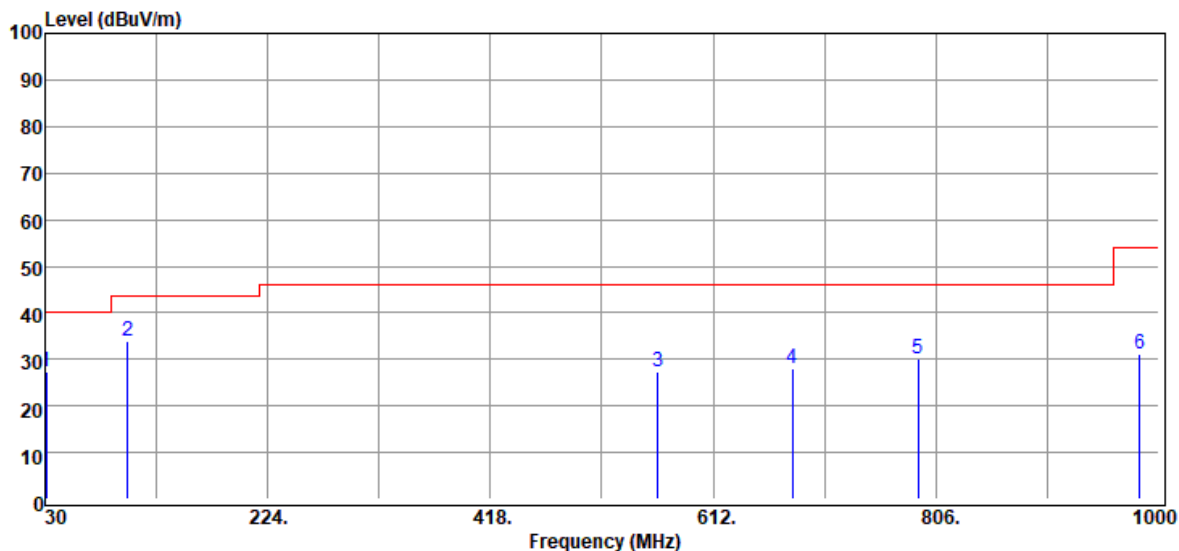
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Report Number :E2/2020/50085
Operation Mode :802.11a / Band 4
Test Frequency :5785 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Date :2020-06-06
Temp./Humi. :23.4/57
Antenna Pol. :HORIZONTAL
Engineer :Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
30.97	Peak	31.28	-3.89	27.39	40.00	-12.61
101.78	Peak	49.13	-15.21	33.92	43.50	-9.58
563.50	Peak	30.81	-3.35	27.46	46.00	-18.54
680.87	Peak	29.96	-1.96	28.00	46.00	-18.00
790.48	Peak	30.00	0.24	30.24	46.00	-15.76
983.51	Peak	29.27	1.80	31.07	54.00	-22.93

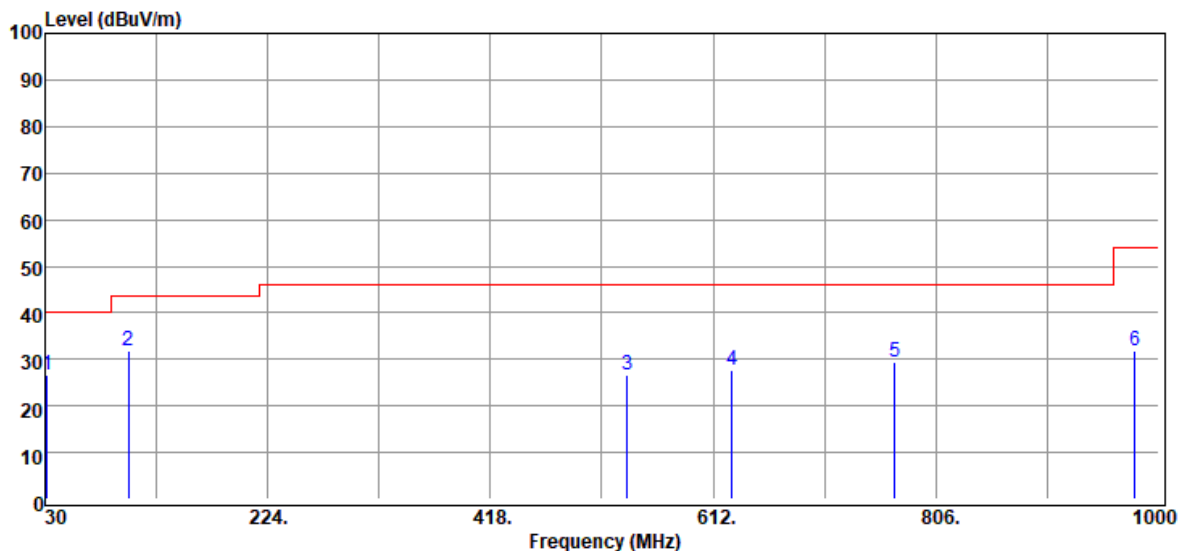
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Report Number :E2/2020/50085
Operation Mode :802.11ac80 / Band 1
Test Frequency :5210 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plan

Test Date :2020-06-06
Temp./Humi. :23.1/60
Antenna Pol. :VERTICAL
Engineer :Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
31.94	Peak	31.05	-4.26	26.79	40.00	-13.21
102.75	Peak	46.99	-15.14	31.85	43.50	-11.65
537.31	Peak	30.73	-4.25	26.48	46.00	-19.52
628.49	Peak	29.56	-1.94	27.62	46.00	-18.38
770.11	Peak	29.66	-0.36	29.30	46.00	-16.70
979.63	Peak	29.88	1.86	31.74	54.00	-22.26

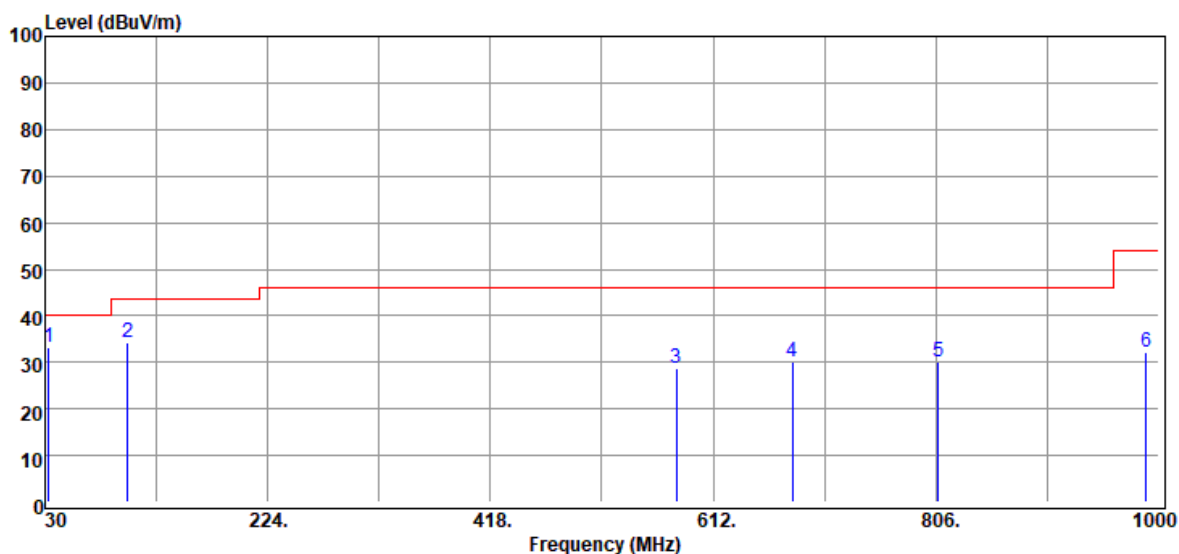
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Report Number :E2/2020/50085
Operation Mode :802.11ac80 / Band 1
Test Frequency :5210 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plan

Test Date :2020-06-06
Temp./Humi. :23.1/60
Antenna Pol. :HORIZONTAL
Engineer :Ashton



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	38.32	-4.98	33.34	40.00	-6.66
101.78	Peak	49.45	-15.21	34.24	43.50	-9.26
579.99	Peak	32.17	-3.40	28.77	46.00	-17.23
680.87	Peak	31.93	-1.96	29.97	46.00	-16.03
807.94	Peak	29.89	0.12	30.01	46.00	-15.99
989.33	Peak	30.46	1.75	32.21	54.00	-21.79

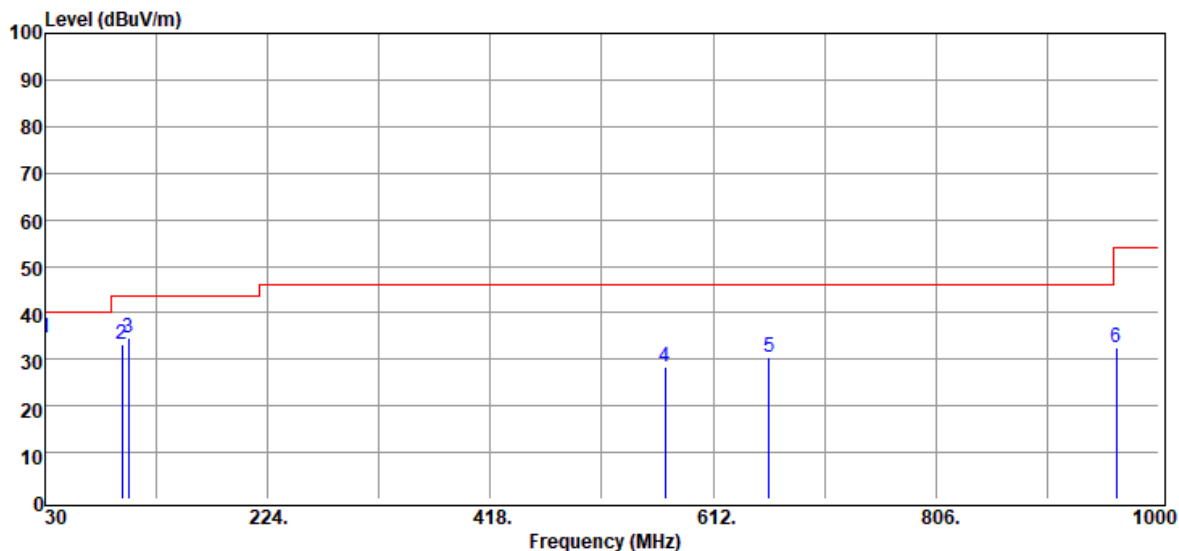
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Report Number :E2/2020/50085
Operation Mode :802.11ac80 / Band 2
Test Frequency :5290 MHz
Test Mode :TX CH HIGH
EUT Pol :E2 Plan

Test Date :2020-06-06
Temp./Humi. :23.4/57
Antenna Pol. :VERTICAL
Engineer :Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
30.00	Peak	38.10	-3.33	34.77	40.00	-5.23
96.93	Peak	49.21	-16.13	33.08	43.50	-10.42
102.75	Peak	49.62	-15.14	34.48	43.50	-9.02
570.29	Peak	31.52	-3.13	28.39	46.00	-17.61
660.50	Peak	32.29	-1.97	30.32	46.00	-15.68
963.14	Peak	31.28	1.35	32.63	54.00	-21.37

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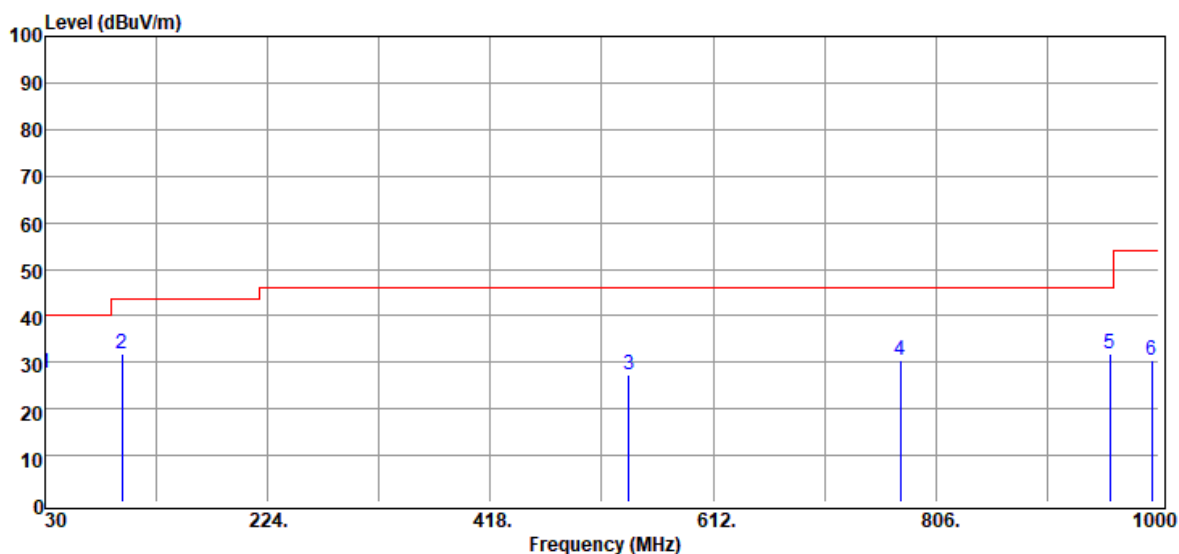
f (886-2) 2298-0488

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Report Number :E2/2020/50085
Operation Mode :802.11ac80 / Band 2
Test Frequency :5290 MHz
Test Mode :TX CH HIGH
EUT Pol :E2 Plan

Test Date :2020-06-06
Temp./Humi. :23.4/57
Antenna Pol. :HORIZONTAL
Engineer :Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
30.00	Peak	30.89	-3.33	27.56	40.00	-12.44
96.93	Peak	47.90	-16.13	31.77	43.50	-11.73
538.28	Peak	31.64	-4.19	27.45	46.00	-18.55
774.96	Peak	30.44	-0.02	30.42	46.00	-15.58
957.32	Peak	30.24	1.48	31.72	46.00	-14.28
994.18	Peak	28.82	1.69	30.51	54.00	-23.49

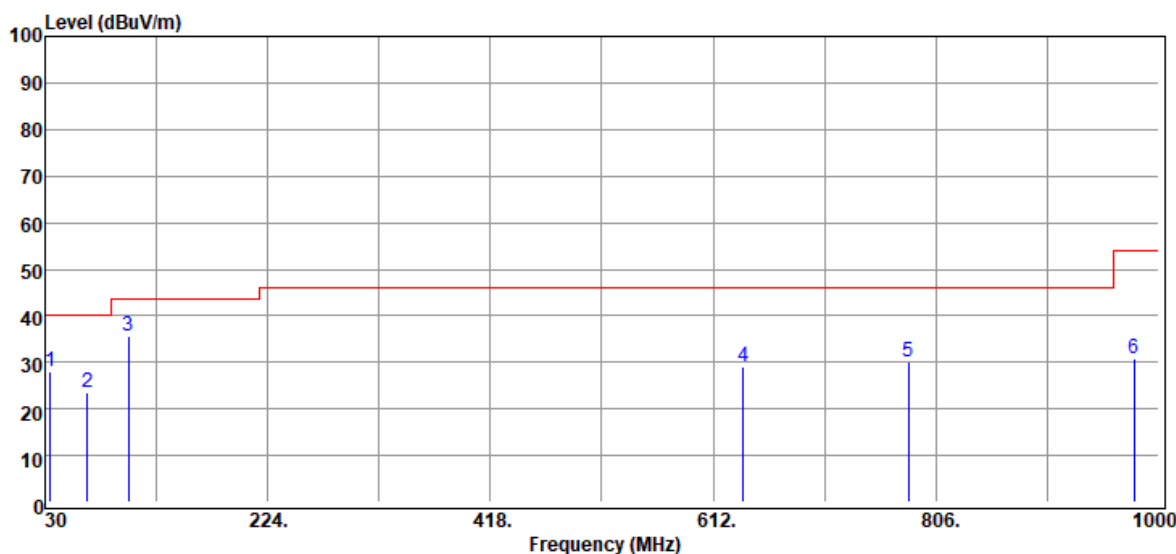
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Report Number :E2/2020/50085
Operation Mode :802.11ac80 / Band 3
Test Frequency :5610 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Date :2020-06-06
Temp./Humi. :23.2/55
Antenna Pol. :VERTICAL
Engineer :Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
34.85	Peak	33.60	-5.52	28.08	40.00	-11.92
66.86	Peak	42.75	-19.31	23.44	40.00	-16.56
102.75	Peak	50.73	-15.14	35.59	43.50	-7.91
638.19	Peak	30.95	-1.96	28.99	46.00	-17.01
781.75	Peak	29.93	0.15	30.08	46.00	-15.92
978.66	Peak	29.02	1.80	30.82	54.00	-23.18

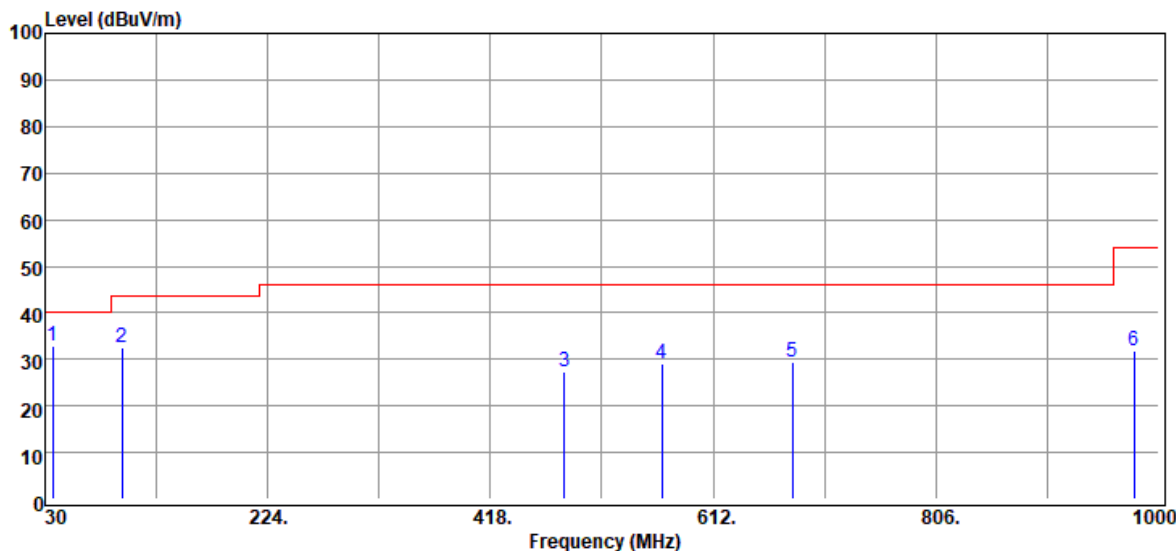
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Report Number :E2/2020/50085
Operation Mode :802.11ac80 / Band 3
Test Frequency :5610 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Date :2020-06-06
Temp./Humi. :23.2/55
Antenna Pol. :HORIZONTAL
Engineer :Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
36.79	Peak	39.62	-6.73	32.89	40.00	-7.11
96.93	Peak	48.81	-16.13	32.68	43.50	-10.82
482.02	Peak	32.55	-5.08	27.47	46.00	-18.53
567.38	Peak	32.17	-3.21	28.96	46.00	-17.04
680.87	Peak	31.36	-1.96	29.40	46.00	-16.60
978.66	Peak	30.14	1.80	31.94	54.00	-22.06

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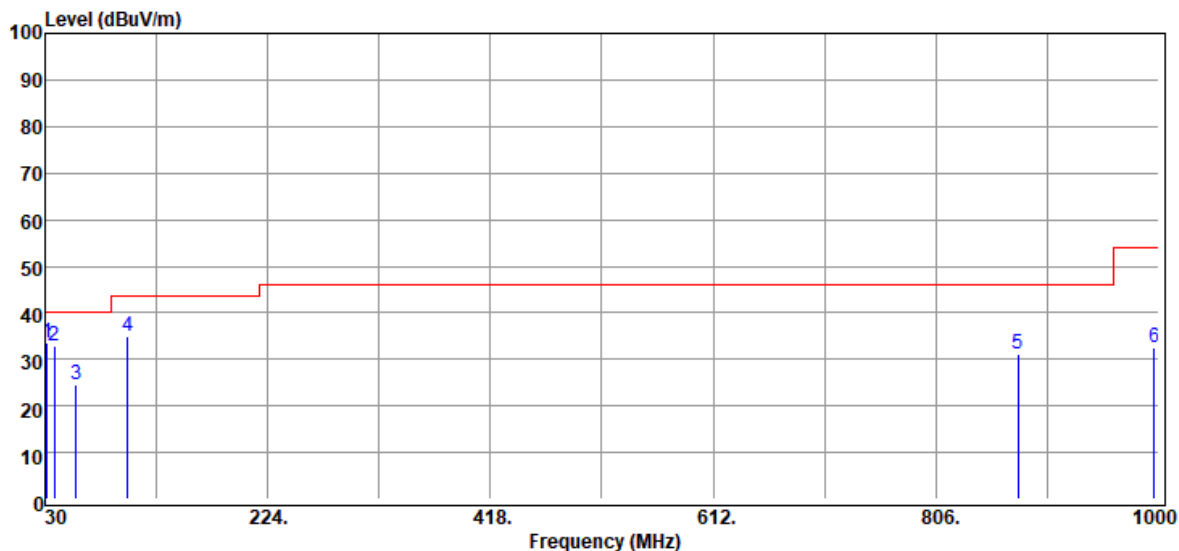
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Member of SGS Group

Report Number :E2/2020/50085
Operation Mode :802.11ac80 / Band 4
Test Frequency :5775 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plan

Test Date :2020-06-06
Temp./Humi. :23.3/56
Antenna Pol. :VERTICAL
Engineer :Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
31.94	Peak	37.97	-4.26	33.71	40.00	-6.29
37.76	Peak	40.11	-7.37	32.74	40.00	-7.26
57.16	Peak	44.81	-20.25	24.56	40.00	-15.44
101.78	Peak	50.16	-15.21	34.95	43.50	-8.55
877.78	Peak	31.06	0.11	31.17	46.00	-14.83
996.12	Peak	30.76	1.72	32.48	54.00	-21.52

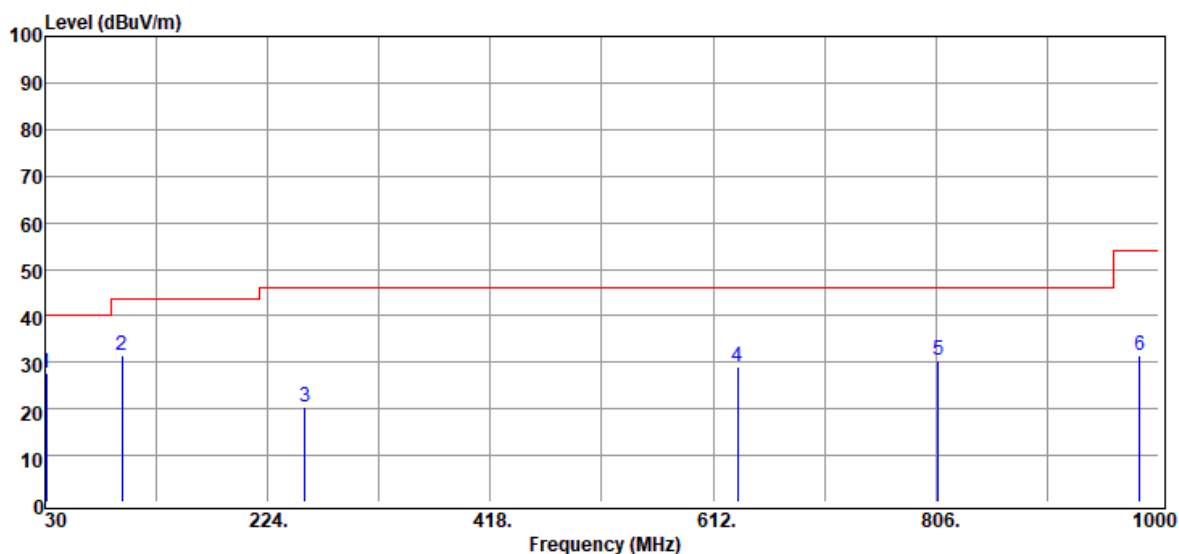
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Report Number :E2/2020/50085
 Operation Mode :802.11ac80 / Band 4
 Test Frequency :5775 MHz
 Test Mode :TX CH LOW
 EUT Pol :E2 Plan

Test Date :2020-06-06
 Temp./Humi. :23.3/56
 Antenna Pol. :HORIZONTAL
 Engineer :Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
30.97	Peak	31.60	-3.89	27.71	40.00	-12.29
96.93	Peak	47.77	-16.13	31.64	43.50	-11.86
256.01	Peak	31.26	-10.80	20.46	46.00	-25.54
633.34	Peak	30.79	-1.85	28.94	46.00	-17.06
807.94	Peak	30.29	0.12	30.41	46.00	-15.59
983.51	Peak	29.65	1.80	31.45	54.00	-22.55

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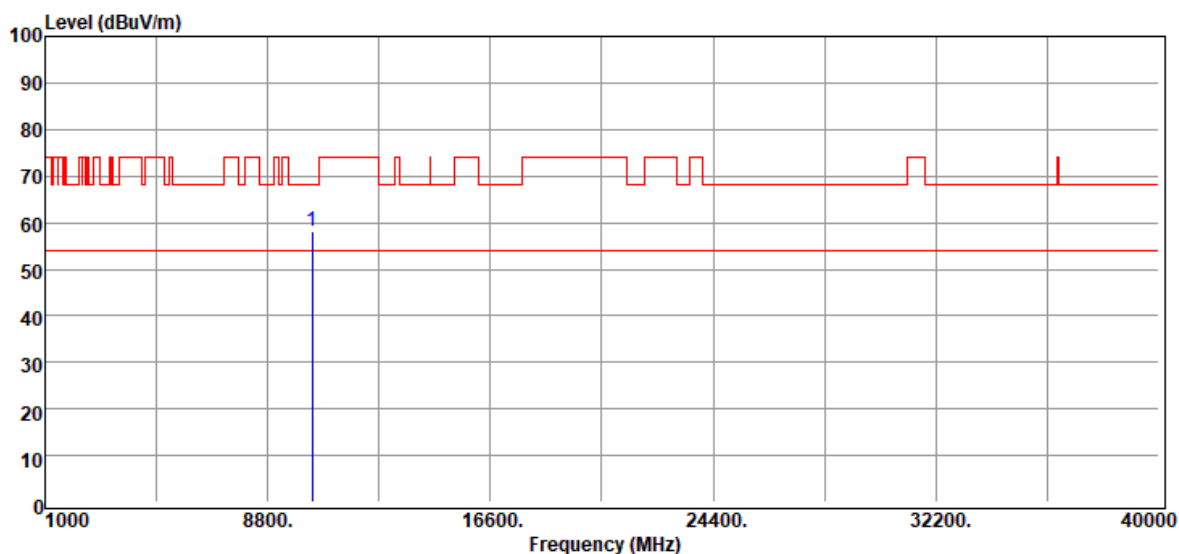
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11.7.2 Above 1GHz Worst-Case Data:

Report Number :E2/2020/50085
Operation Mode :802.11a / Band 1
Test Frequency :5180 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plan

Test Date :2020-06-06
Temp./Humi. :23.1/63
Antenna Pol. :VERTICAL
Engineer :Enzo



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	31.89	26.15	58.04	68.20	-10.16

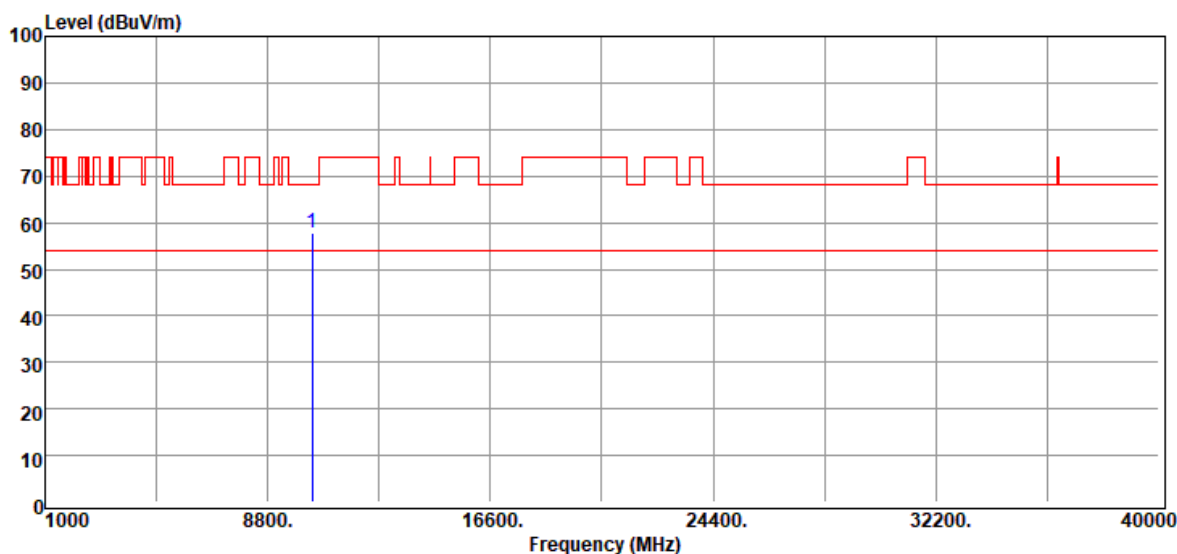
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Report Number :E2/2020/50085
Operation Mode :802.11a / Band 1
Test Frequency :5180 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plan

Test Date :2020-06-06
Temp./Humi. :23.1/63
Antenna Pol. :HORIZONTAL
Engineer :Enzo



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	31.56	26.15	57.71	68.20	-10.49

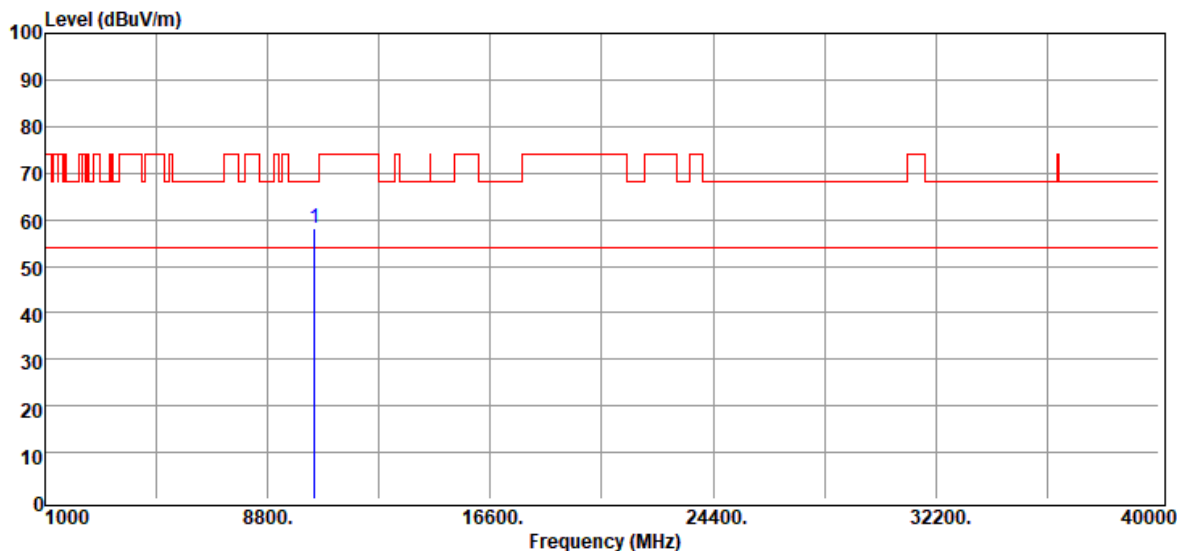
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Report Number :E2/2020/50085
 Operation Mode :802.11a / Band 1
 Test Frequency :5220 MHz
 Test Mode :TX CH MID
 EUT Pol :E2 Plan

Test Date :2020-06-06
 Temp./Humi. :23.1/63
 Antenna Pol. :VERTICAL
 Engineer :Enzo



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	31.82	26.24	58.06	68.20	-10.14

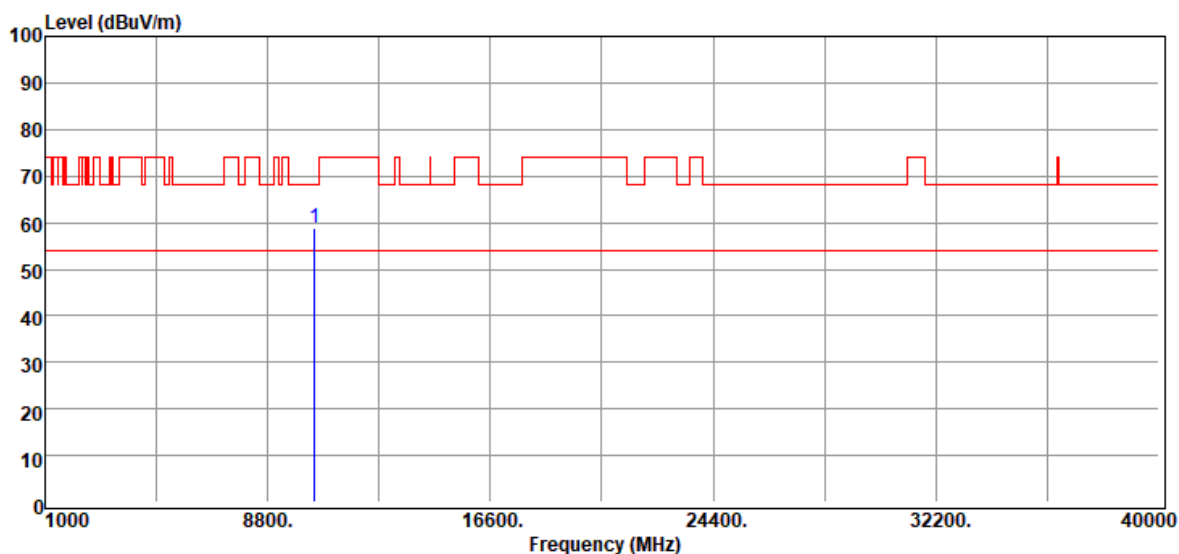
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Report Number :E2/2020/50085
 Operation Mode :802.11a / Band 1
 Test Frequency :5220 MHz
 Test Mode :TX CH MID
 EUT Pol :E2 Plan

Test Date :2020-06-06
 Temp./Humi. :23.1/63
 Antenna Pol. :HORIZONTAL
 Engineer :Enzo



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	32.46	26.24	58.70	68.20	-9.50

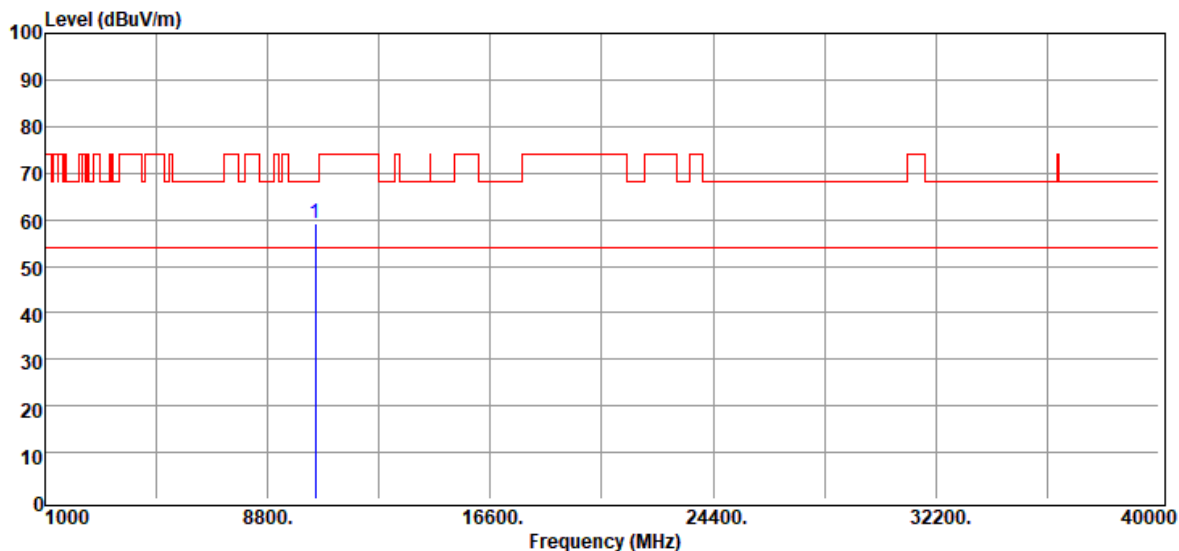
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Report Number :E2/2020/50085
Operation Mode :802.11a / Band 1
Test Frequency :5240 MHz
Test Mode :TX CH HIGH
EUT Pol :E2 Plan

Test Date :2020-06-06
Temp./Humi. :23.1/63
Antenna Pol. :VERTICAL
Engineer :Enzo



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	32.00	27.23	59.23	68.20	-8.97

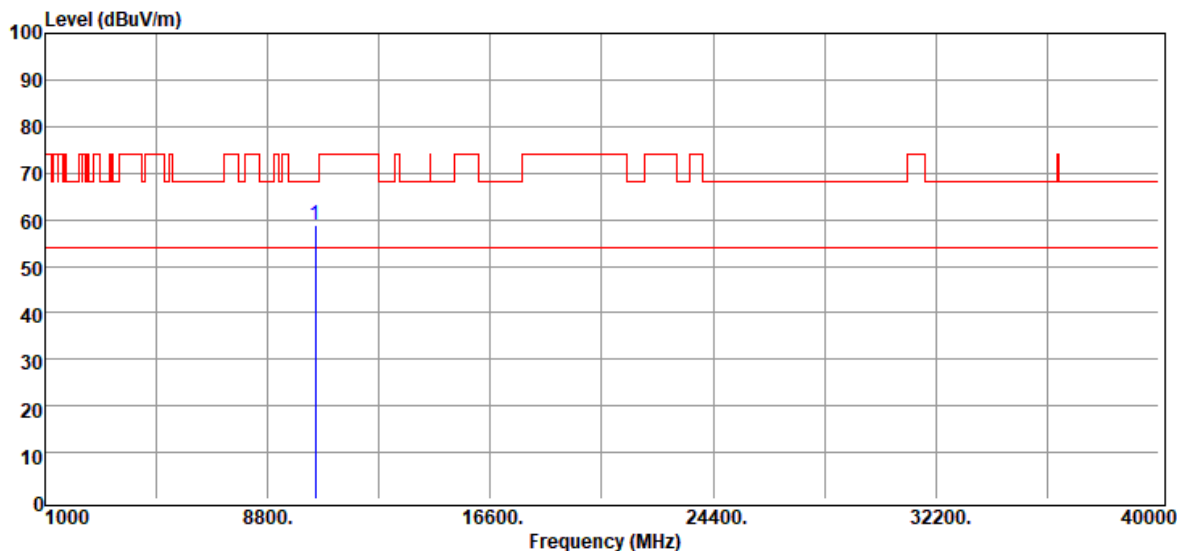
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Report Number :E2/2020/50085
 Operation Mode :802.11a / Band 1
 Test Frequency :5240 MHz
 Test Mode :TX CH HIGH
 EUT Pol :E2 Plan

Test Date :2020-06-06
 Temp./Humi. :23.1/63
 Antenna Pol. :HORIZONTAL
 Engineer :Enzo



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	31.44	27.23	58.67	68.20	-9.53

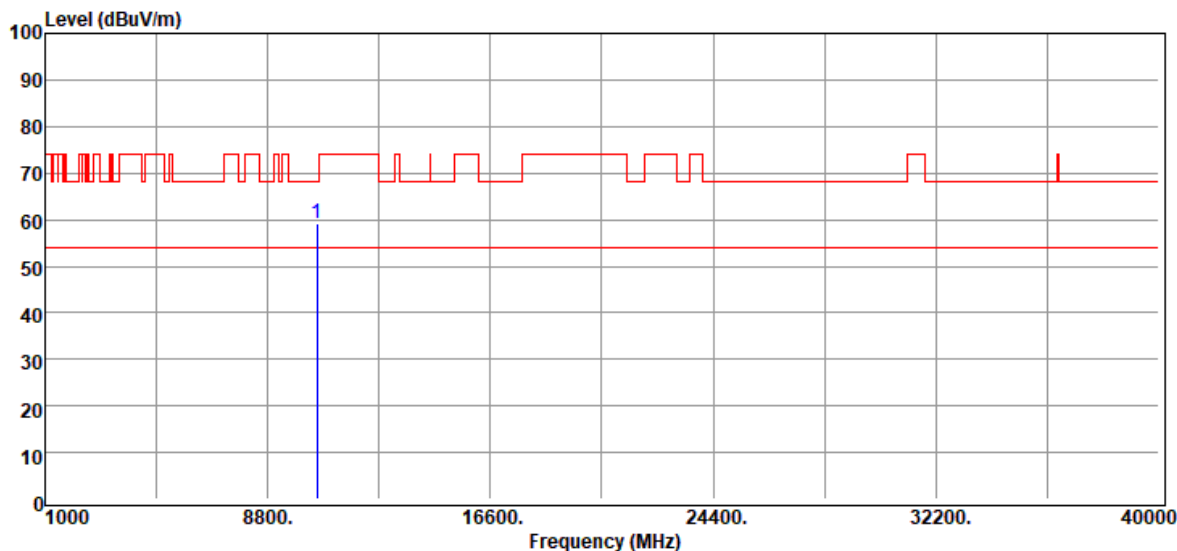
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Report Number :E2/2020/50085
 Operation Mode :802.11a / Band 2
 Test Frequency :5260 MHz
 Test Mode :TX CH LOW
 EUT Pol :E2 Plan

Test Date :2020-06-06
 Temp./Humi. :23.1/63
 Antenna Pol. :VERTICAL
 Engineer :Enzo



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	31.89	27.29	59.18	68.20	-9.02

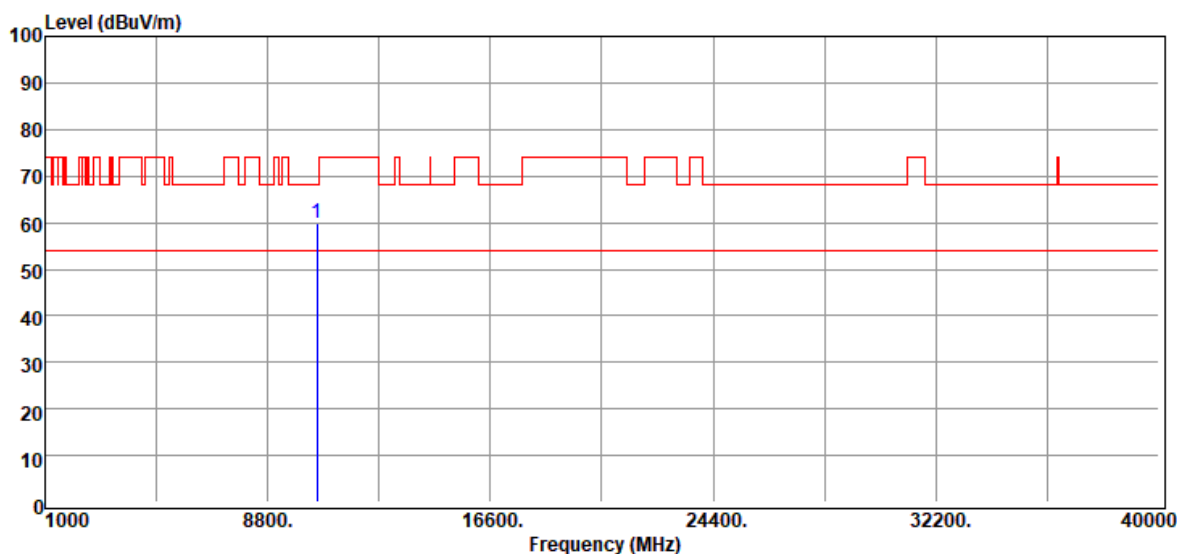
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Report Number :E2/2020/50085
Operation Mode :802.11a / Band 2
Test Frequency :5260 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plan

Test Date :2020-06-06
Temp./Humi. :23.1/63
Antenna Pol. :HORIZONTAL
Engineer :Enzo



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	32.45	27.29	59.74	68.20	-8.46

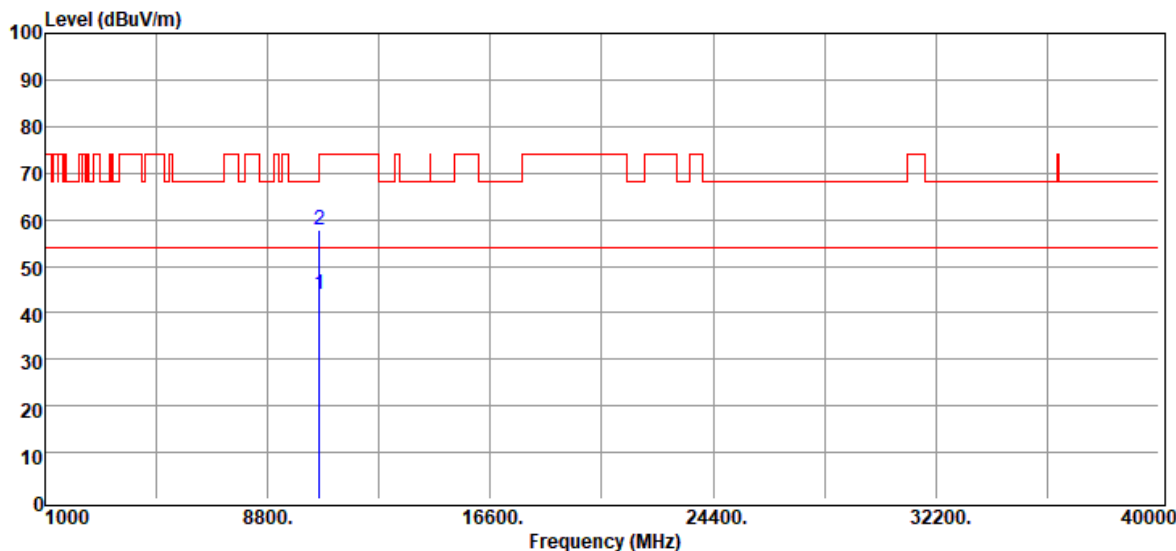
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Report Number :E2/2020/50085
Operation Mode :802.11a / Band 2
Test Frequency :5300 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Date :2020-06-06
Temp./Humi. :23.1/63
Antenna Pol. :VERTICAL
Engineer :Enzo



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	18.31	25.55	43.86	54.00	-10.14
10600.00	Peak	32.27	25.55	57.82	74.00	-16.18

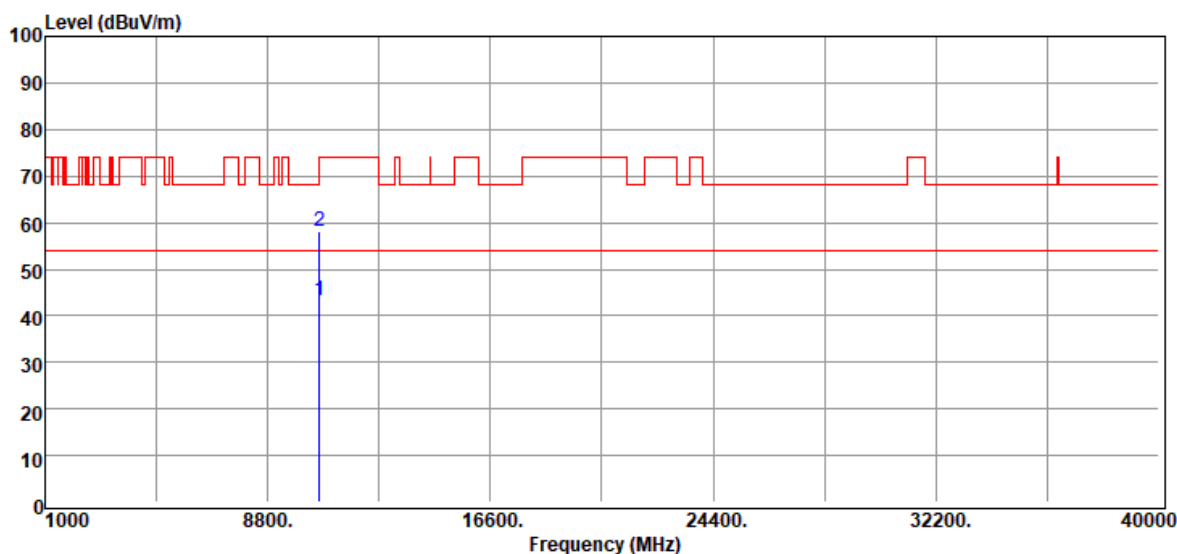
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Report Number :E2/2020/50085
Operation Mode :802.11a / Band 2
Test Frequency :5300 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Date :2020-06-06
Temp./Humi. :23.1/63
Antenna Pol. :HORIZONTAL
Engineer :Enzo



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	17.75	25.55	43.30	54.00	-10.70
10600.00	Peak	32.57	25.55	58.12	74.00	-15.88

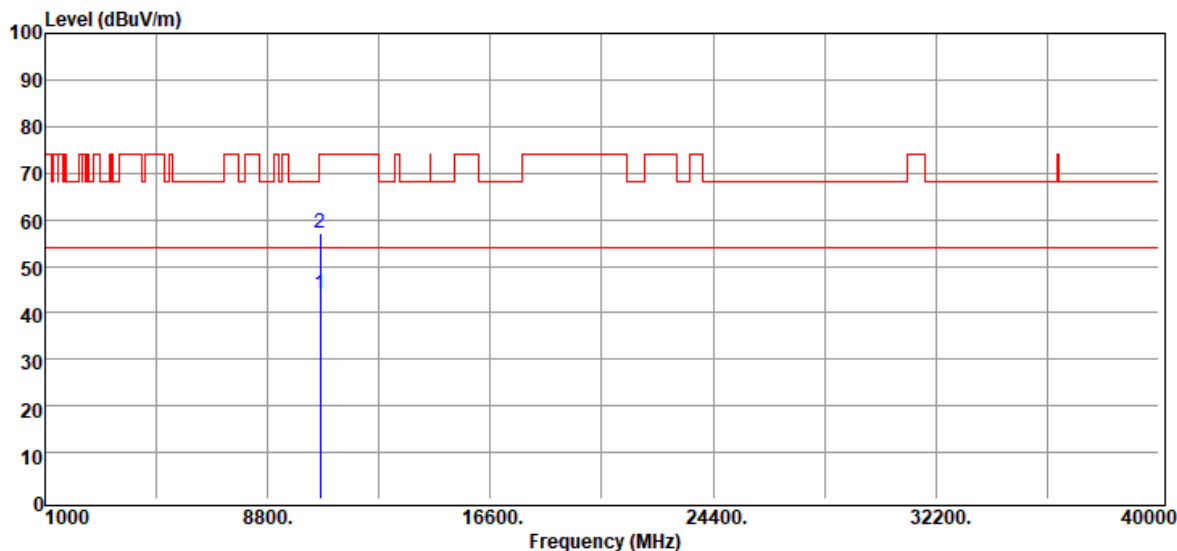
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Report Number :E2/2020/50085
Operation Mode :802.11a / Band 2
Test Frequency :5320 MHz
Test Mode :TX CH HIGH
EUT Pol :E2 Plan

Test Date :2020-06-06
Temp./Humi. :23.1/63
Antenna Pol. :VERTICAL
Engineer :Enzo



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	18.41	25.67	44.08	54.00	-9.92
10640.00	Peak	31.33	25.67	57.00	74.00	-17.00

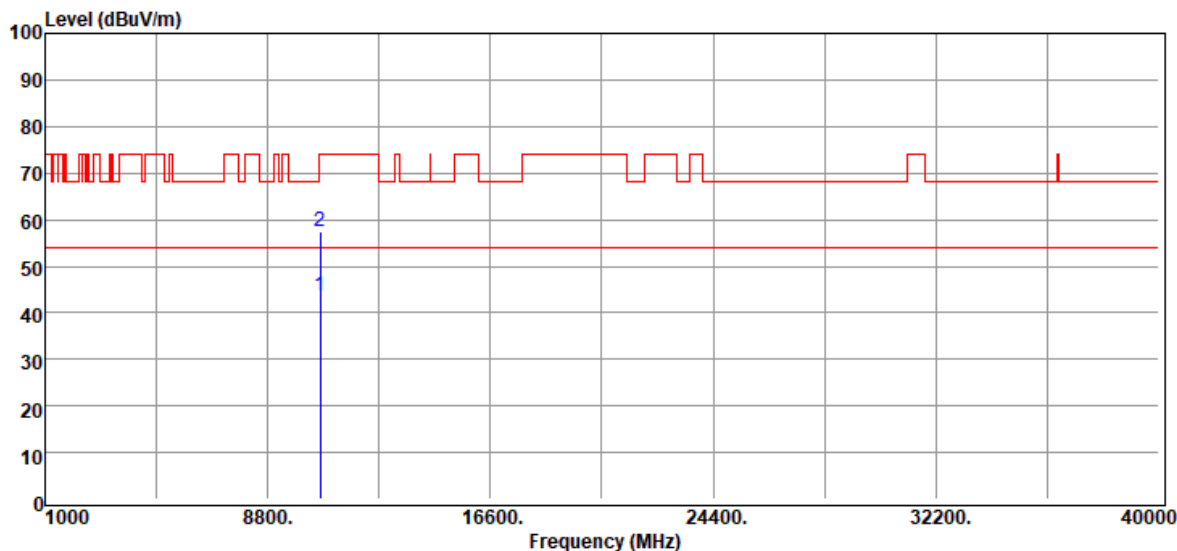
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Report Number :E2/2020/50085
Operation Mode :802.11a / Band 2
Test Frequency :5320 MHz
Test Mode :TX CH HIGH
EUT Pol :E2 Plan

Test Date :2020-06-06
Temp./Humi. :23.1/63
Antenna Pol. :HORIZONTAL
Engineer :Enzo



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	17.99	25.67	43.66	54.00	-10.34
10640.00	Peak	31.62	25.67	57.29	74.00	-16.71

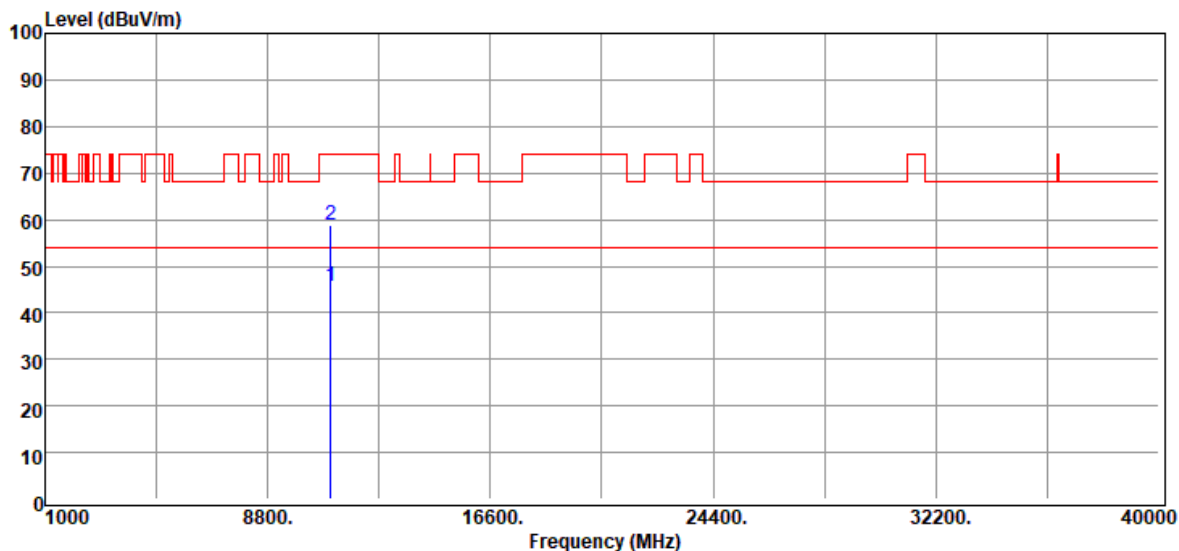
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Report Number :E2/2020/50085
 Operation Mode :802.11a / Band 3
 Test Frequency :5500 MHz
 Test Mode :TX CH LOW
 EUT Pol :E2 Plan

Test Date :2020-06-06
 Temp./Humi. :23.1/63
 Antenna Pol. :VERTICAL
 Engineer :Enzo



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	18.47	27.31	45.78	54.00	-8.22
11000.00	Peak	31.43	27.31	58.74	74.00	-15.26

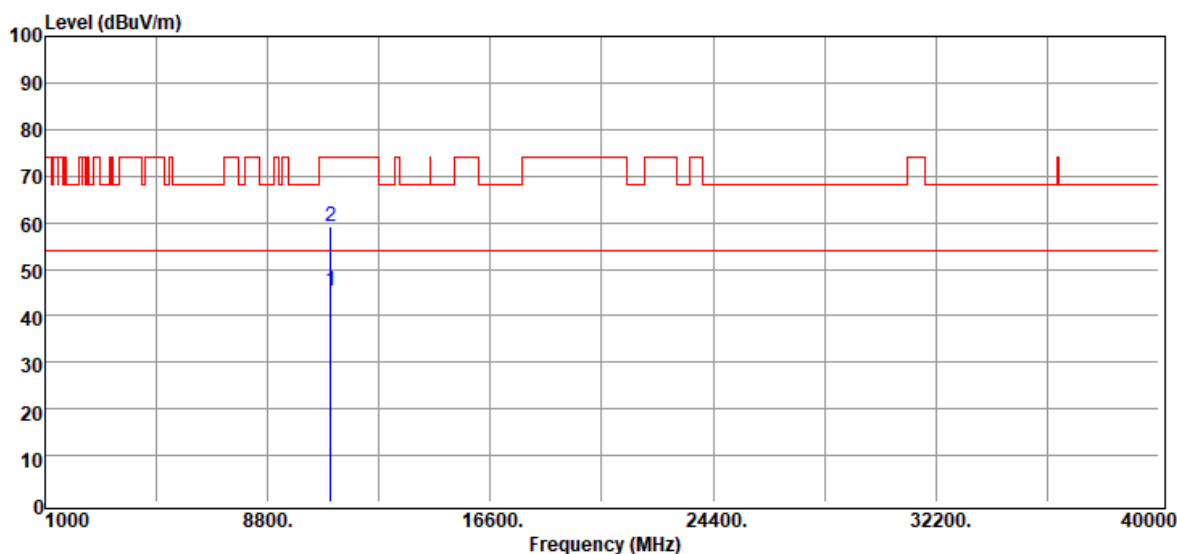
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Report Number :E2/2020/50085
Operation Mode :802.11a / Band 3
Test Frequency :5500 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plan

Test Date :2020-06-06
Temp./Humi. :23.1/63
Antenna Pol. :HORIZONTAL
Engineer :Enzo



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	18.01	27.31	45.32	54.00	-8.68
11000.00	Peak	31.82	27.31	59.13	74.00	-14.87

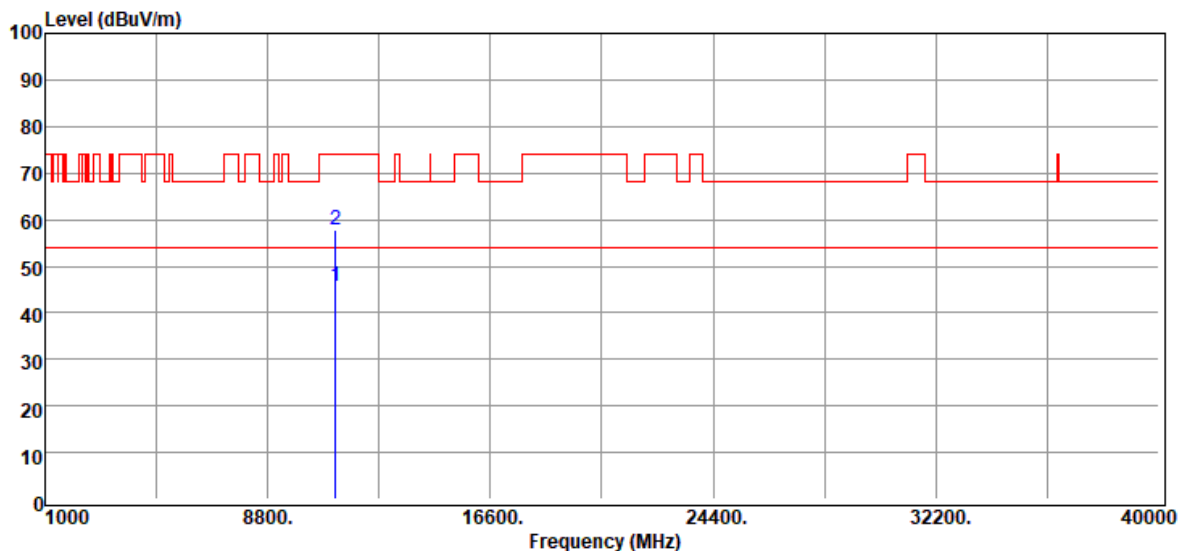
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Report Number :E2/2020/50085
 Operation Mode :802.11a / Band 3
 Test Frequency :5580 MHz
 Test Mode :TX CH MID
 EUT Pol :E2 Plan

Test Date :2020-06-08
 Temp./Humi. :22.7/68
 Antenna Pol. :VERTICAL
 Engineer :Enzo



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	18.31	27.45	45.76	54.00	-8.24
11160.00	Peak	30.17	27.45	57.62	74.00	-16.38

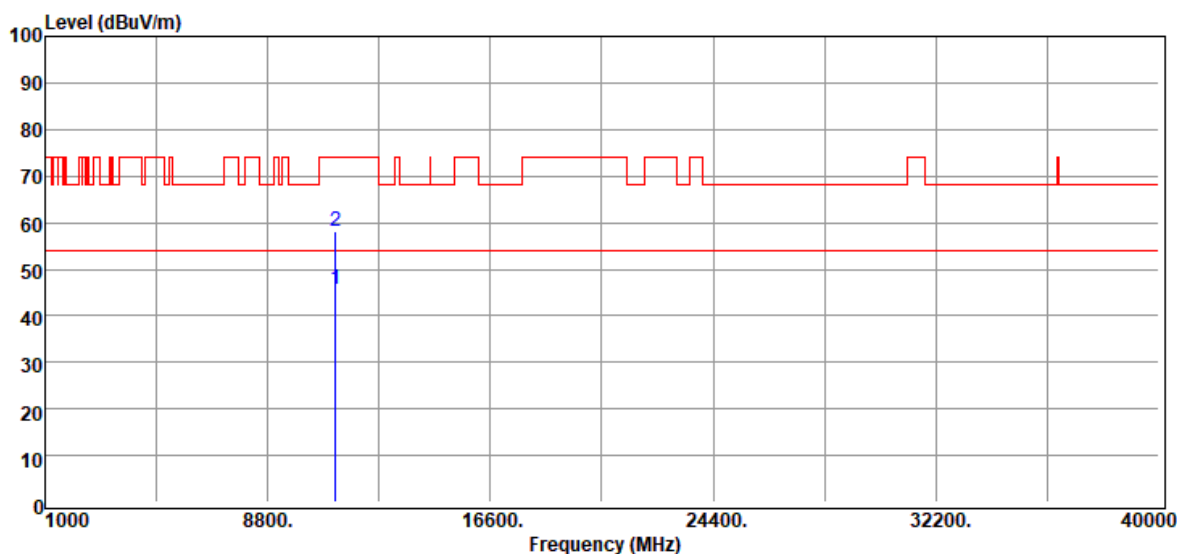
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Report Number :E2/2020/50085
 Operation Mode :802.11a / Band 3
 Test Frequency :5580 MHz
 Test Mode :TX CH MID
 EUT Pol :E2 Plan

Test Date :2020-06-08
 Temp./Humi. :22.7/68
 Antenna Pol. :HORIZONTAL
 Engineer :Enzo



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	18.38	27.45	45.83	54.00	-8.17
11160.00	Peak	30.71	27.45	58.16	74.00	-15.84

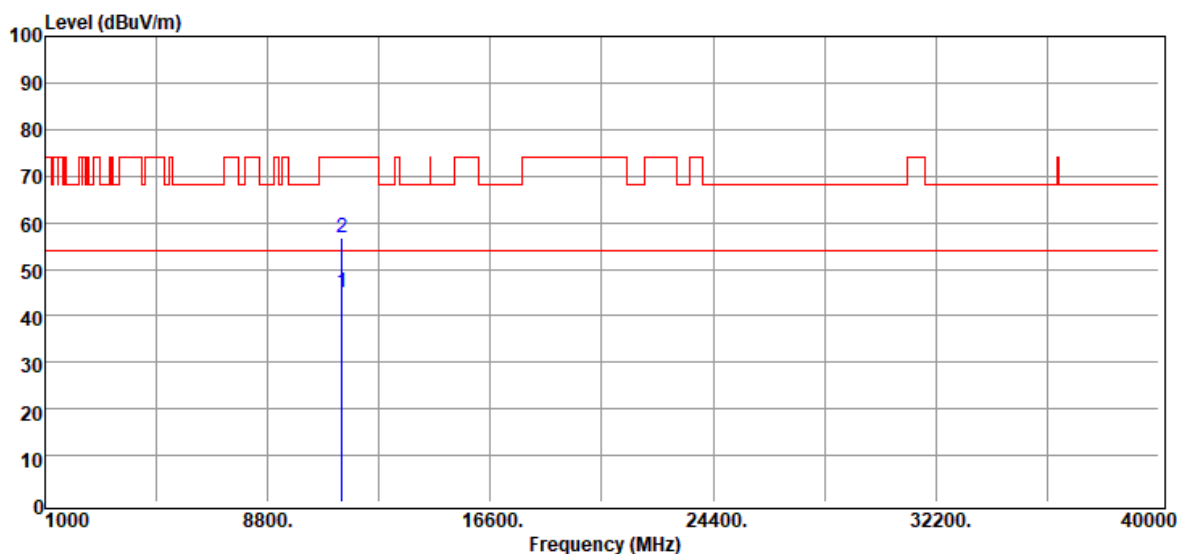
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Report Number :E2/2020/50085
 Operation Mode :802.11a / Band 3
 Test Frequency :5700 MHz
 Test Mode :TX CH HIGH
 EUT Pol :E2 Plan

Test Date :2020-06-08
 Temp./Humi. :22.7/68
 Antenna Pol. :VERTICAL
 Engineer :Enzo



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	18.29	26.54	44.83	54.00	-9.17
11400.00	Peak	30.11	26.54	56.65	74.00	-17.35

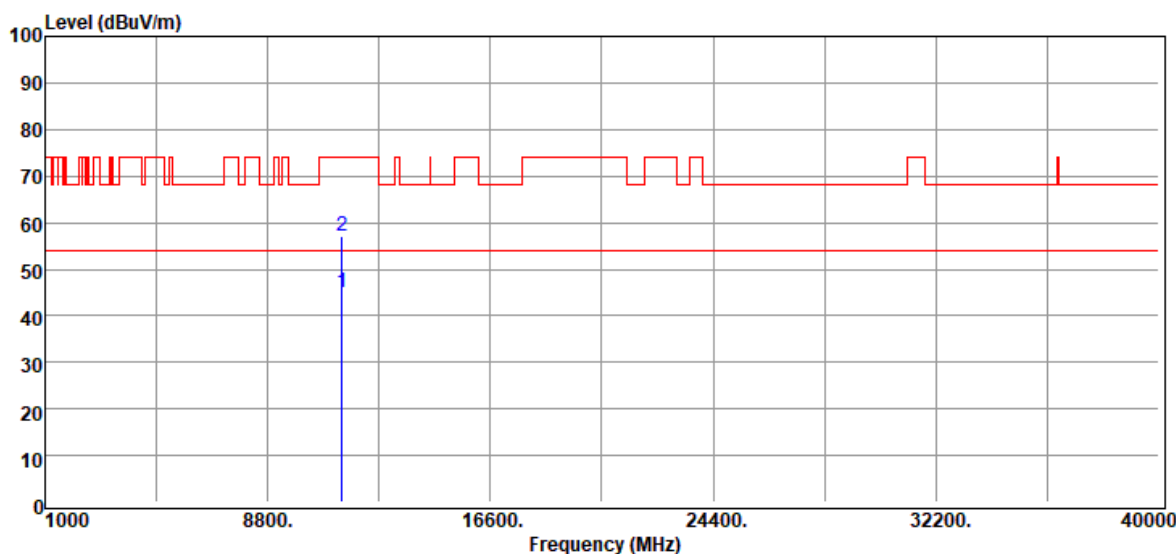
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Report Number :E2/2020/50085
Operation Mode :802.11a / Band 3
Test Frequency :5700 MHz
Test Mode :TX CH HIGH
EUT Pol :E2 Plan

Test Date :2020-06-08
Temp./Humi. :22.7/68
Antenna Pol. :HORIZONTAL
Engineer :Enzo



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	18.36	26.54	44.90	54.00	-9.10
11400.00	Peak	30.59	26.54	57.13	74.00	-16.87

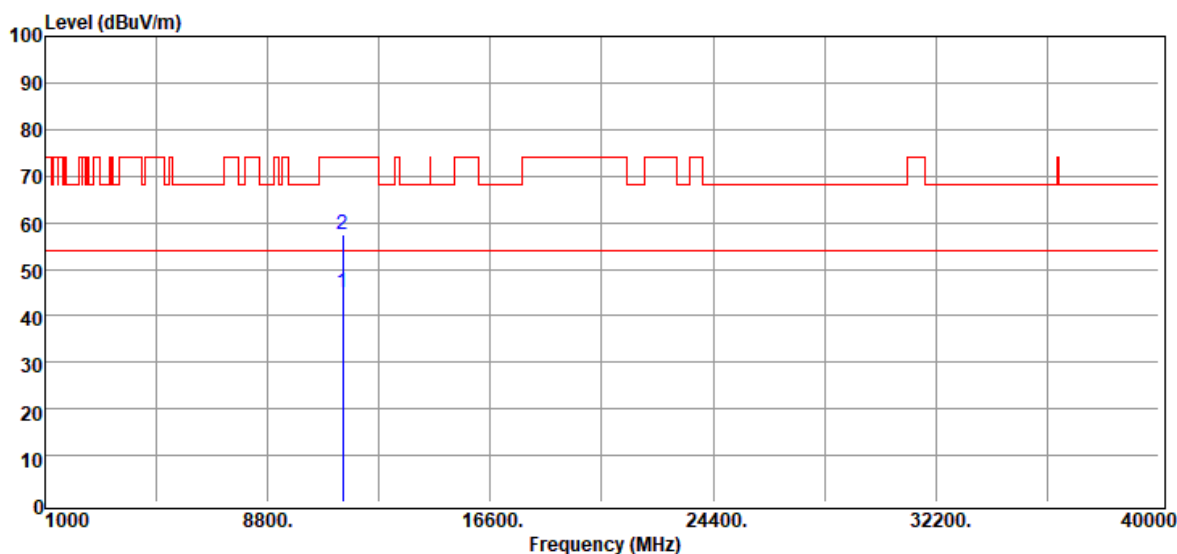
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Report Number :E2/2020/50085
 Operation Mode :802.11a / Band 3-4
 Test Frequency :5720 MHz
 Test Mode :TX CH 144
 EUT Pol :E2 Plan

Test Date :2020-06-08
 Temp./Humi. :22.7/68
 Antenna Pol. :VERTICAL
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11440.00	Average	18.12	26.94	45.06	54.00	-8.94
11440.00	Peak	30.33	26.94	57.27	74.00	-16.73

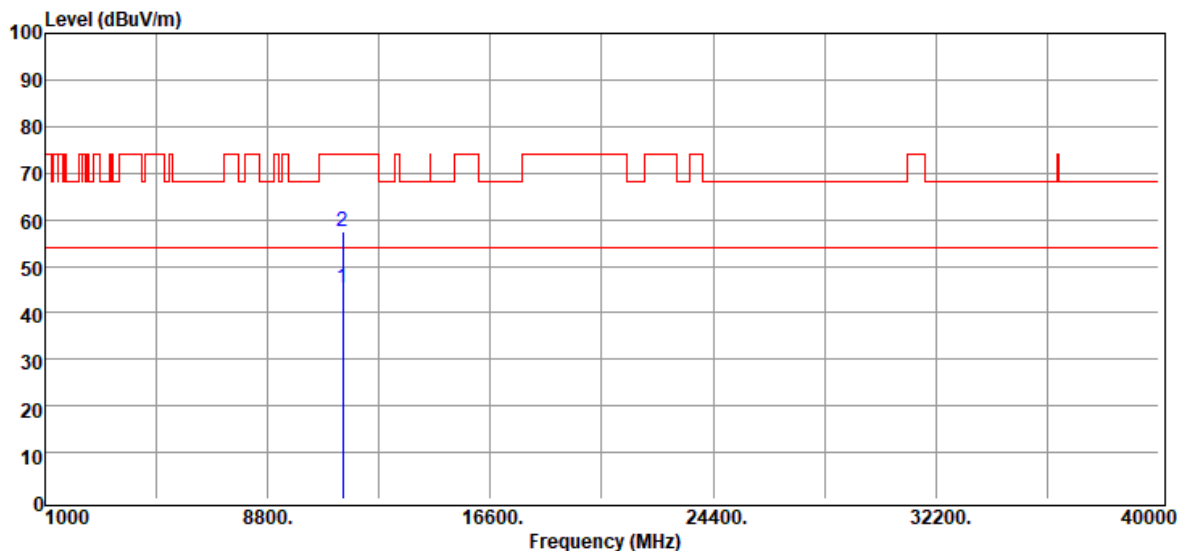
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Report Number :E2/2020/50085
Operation Mode :802.11a / Band 3-4
Test Frequency :5720 MHz
Test Mode :TX CH 144
EUT Pol :E2 Plan

Test Date :2020-06-08
Temp./Humi. :22.7/68
Antenna Pol. :HORIZONTAL
Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11440.00	Average	18.44	26.94	45.38	54.00	-8.62
11440.00	Peak	30.59	26.94	57.53	74.00	-16.47

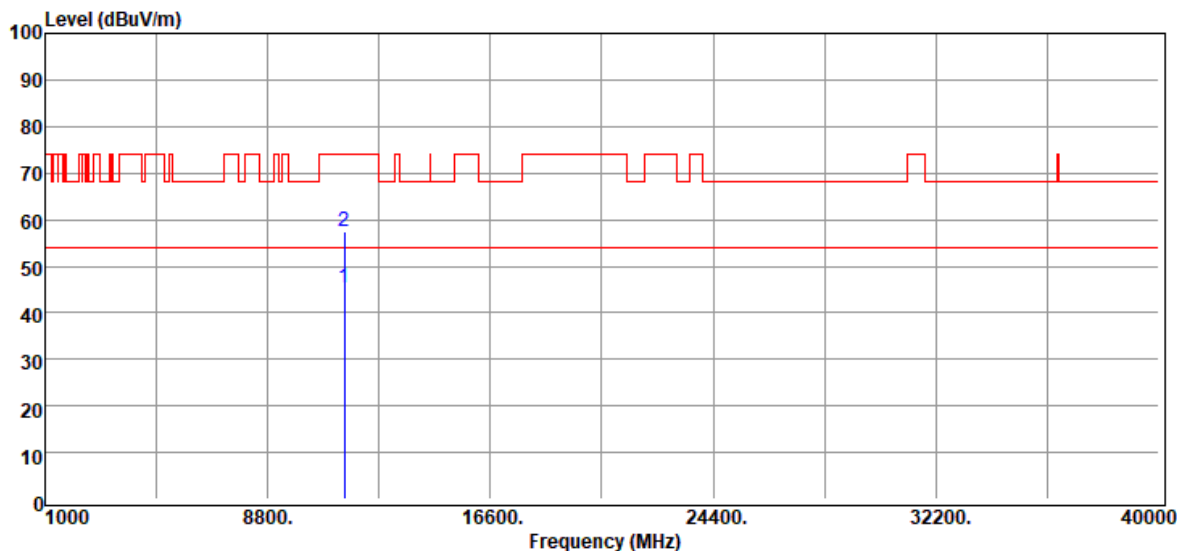
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Report Number :E2/2020/50085
Operation Mode :802.11a / Band 4
Test Frequency :5745 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plan

Test Date :2020-06-08
Temp./Humi. :22.7/68
Antenna Pol. :VERTICAL
Engineer :Enzo



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	17.98	27.44	45.42	54.00	-8.58
11490.00	Peak	29.85	27.44	57.29	74.00	-16.71

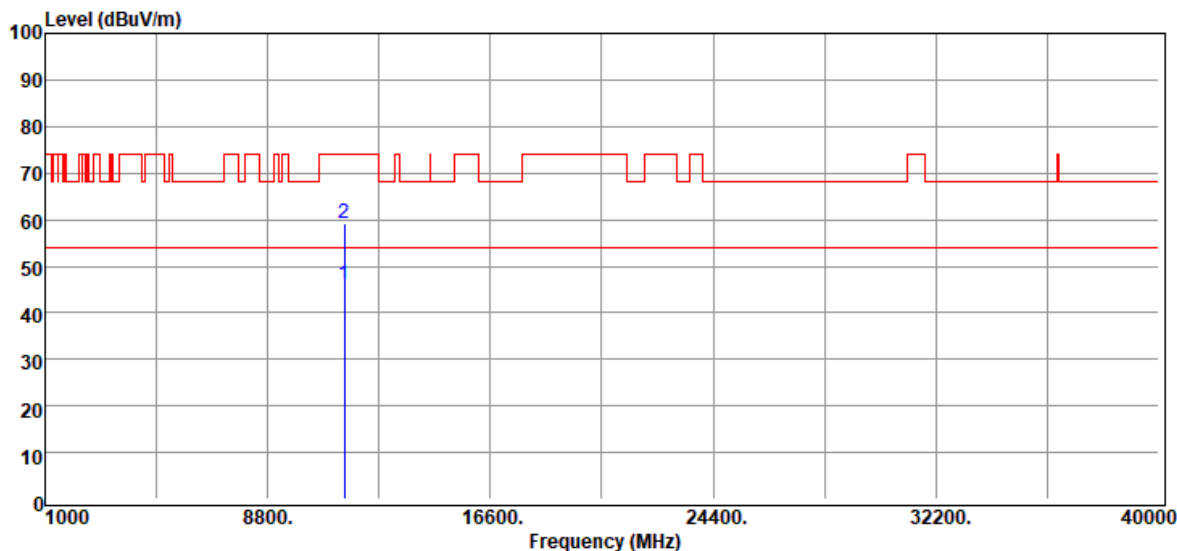
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Report Number :E2/2020/50085
Operation Mode :802.11a / Band 4
Test Frequency :5745 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plan

Test Date :2020-06-08
Temp./Humi. :22.7/68
Antenna Pol. :HORIZONTAL
Engineer :Enzo



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	18.74	27.44	46.18	54.00	-7.82
11490.00	Peak	31.66	27.44	59.10	74.00	-14.90

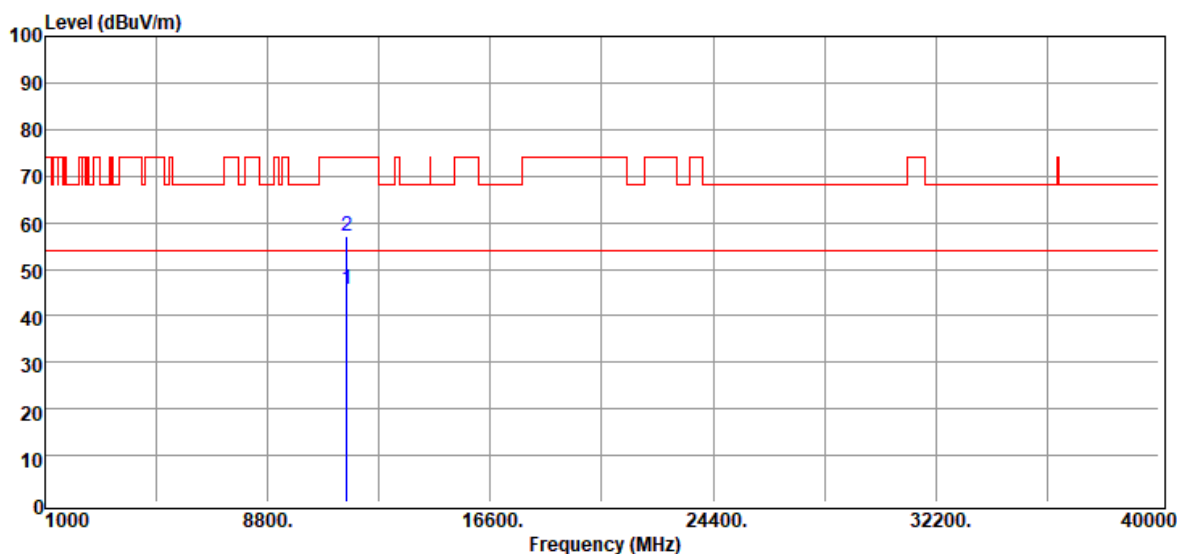
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Report Number :E2/2020/50085
Operation Mode :802.11a / Band 4
Test Frequency :5785 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Date :2020-06-08
Temp./Humi. :22.7/68
Antenna Pol. :VERTICAL
Engineer :Enzo



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	18.65	26.95	45.60	54.00	-8.40
11570.00	Peak	30.16	26.95	57.11	74.00	-16.89

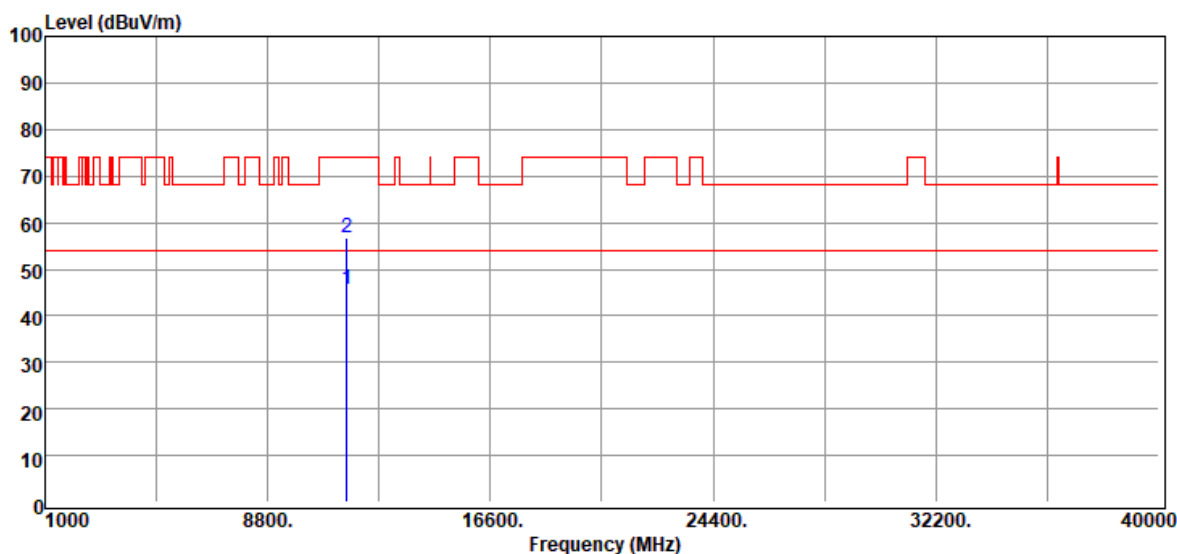
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Report Number :E2/2020/50085
 Operation Mode :802.11a / Band 4
 Test Frequency :5785 MHz
 Test Mode :TX CH MID
 EUT Pol :E2 Plan

Test Date :2020-06-08
 Temp./Humi. :22.7/68
 Antenna Pol. :HORIZONTAL
 Engineer :Enzo



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	18.71	26.95	45.66	54.00	-8.34
11570.00	Peak	29.94	26.95	56.89	74.00	-17.11

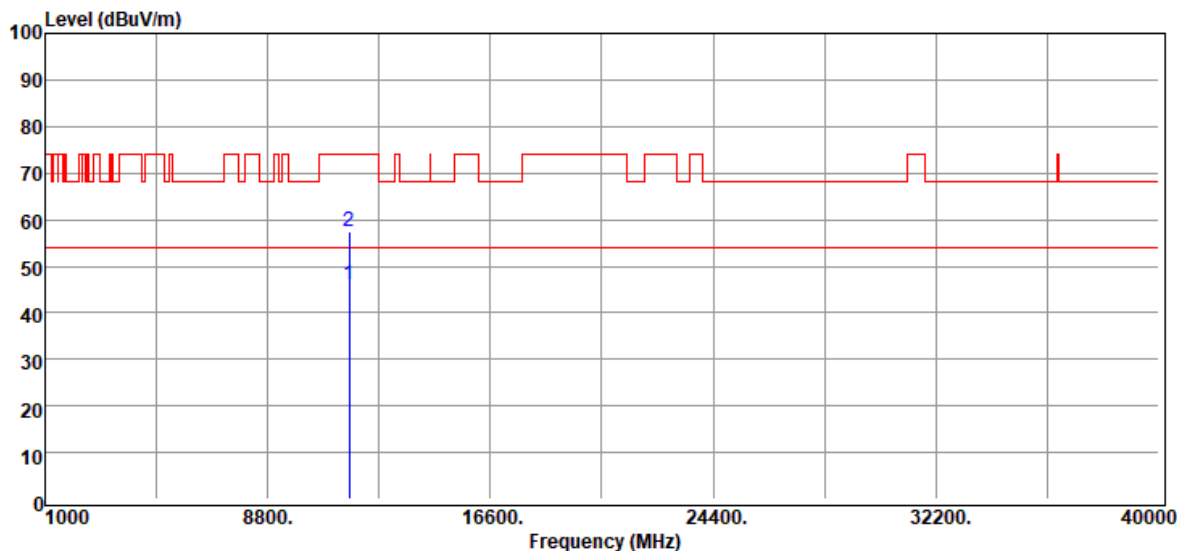
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Report Number :E2/2020/50085
Operation Mode :802.11a / Band 4
Test Frequency :5825 MHz
Test Mode :TX CH HIGH
EUT Pol :E2 Plan

Test Date :2020-06-08
Temp./Humi. :22.7/68
Antenna Pol. :VERTICAL
Engineer :Enzo



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	18.57	27.38	45.95	54.00	-8.05
11650.00	Peak	29.95	27.38	57.33	74.00	-16.67

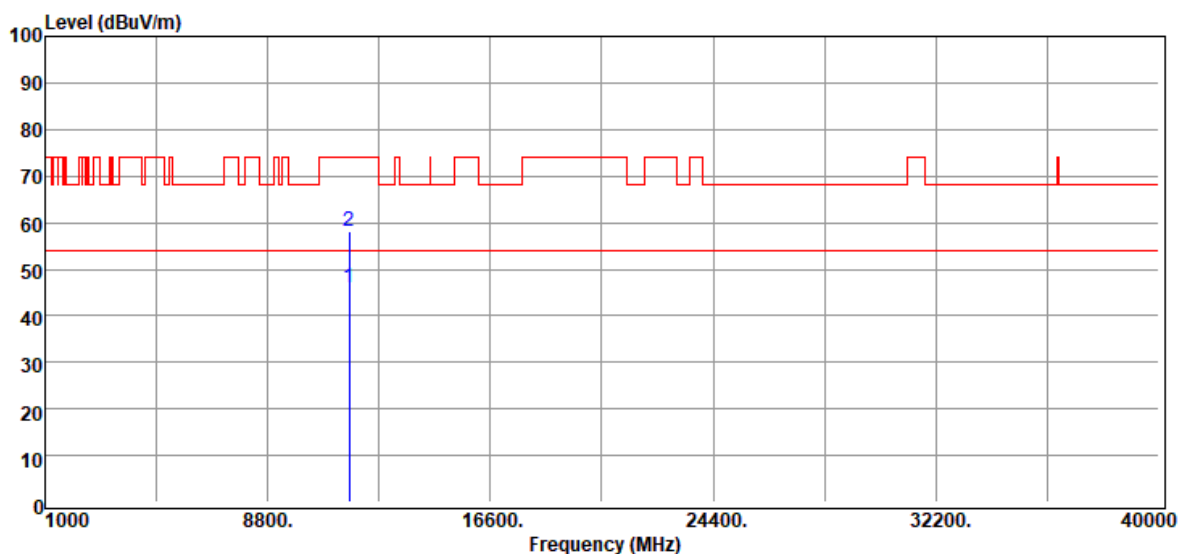
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Report Number :E2/2020/50085
Operation Mode :802.11a / Band 4
Test Frequency :5825 MHz
Test Mode :TX CH HIGH
EUT Pol :E2 Plan

Test Date :2020-06-08
Temp./Humi. :22.7/68
Antenna Pol. :HORIZONTAL
Engineer :Enzo



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	18.66	27.38	46.04	54.00	-7.96
11650.00	Peak	30.80	27.38	58.18	74.00	-15.82

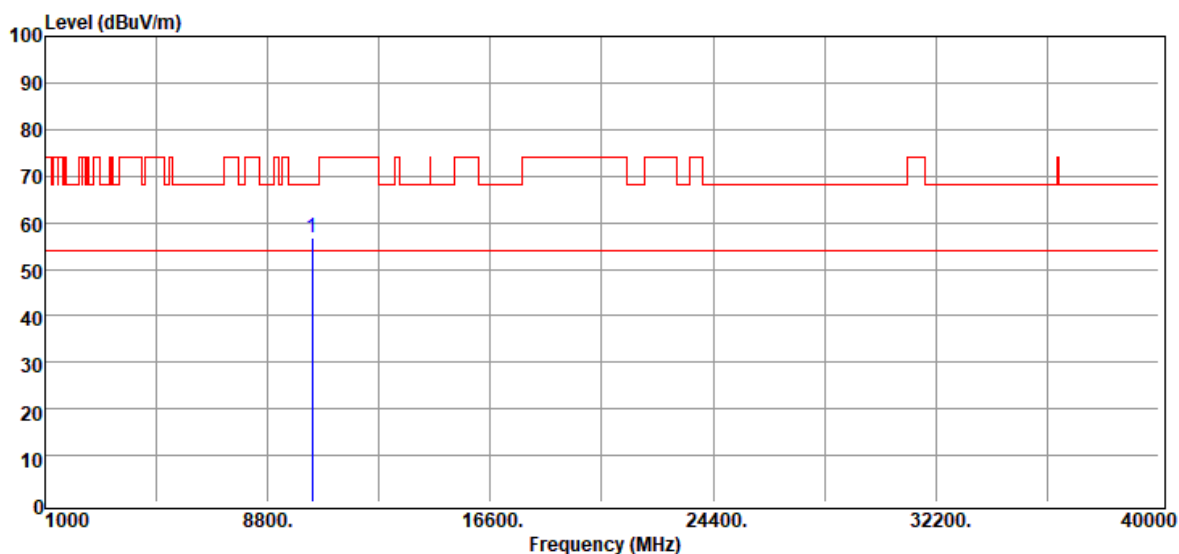
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Report Number :E2/2020/50085
Operation Mode :802.11n20 / Band 1
Test Frequency :5180 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plan

Test Date :2020-06-08
Temp./Humi. :22.7/68
Antenna Pol. :VERTICAL
Engineer :Enzo



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	30.64	26.15	56.79	68.20	-11.41

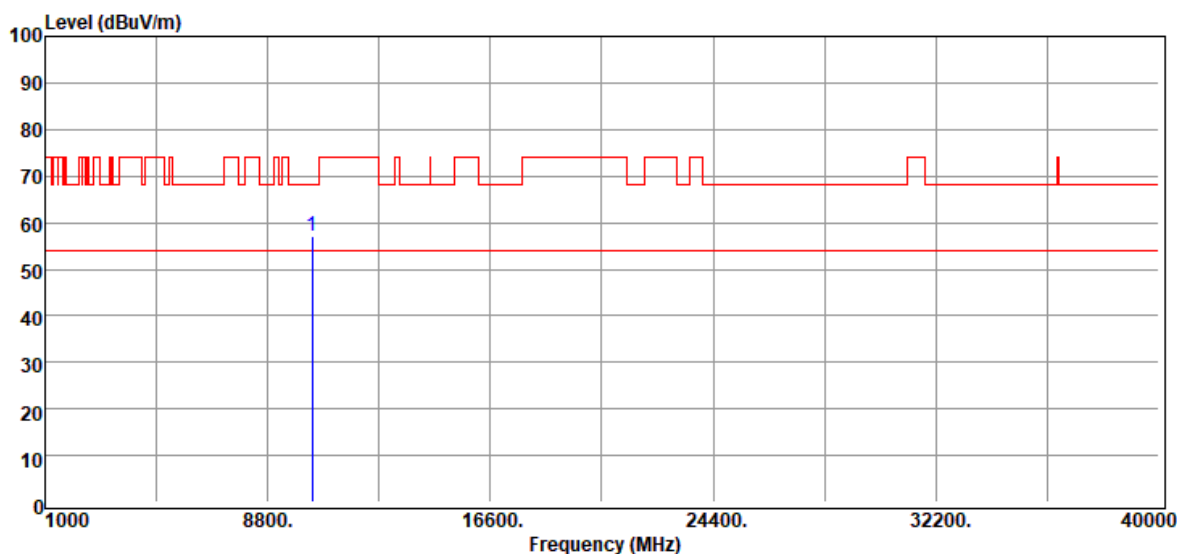
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Report Number :E2/2020/50085
Operation Mode :802.11n20 / Band 1
Test Frequency :5180 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plan

Test Date :2020-06-08
Temp./Humi. :22.7/68
Antenna Pol. :HORIZONTAL
Engineer :Enzo



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	30.80	26.15	56.95	68.20	-11.25

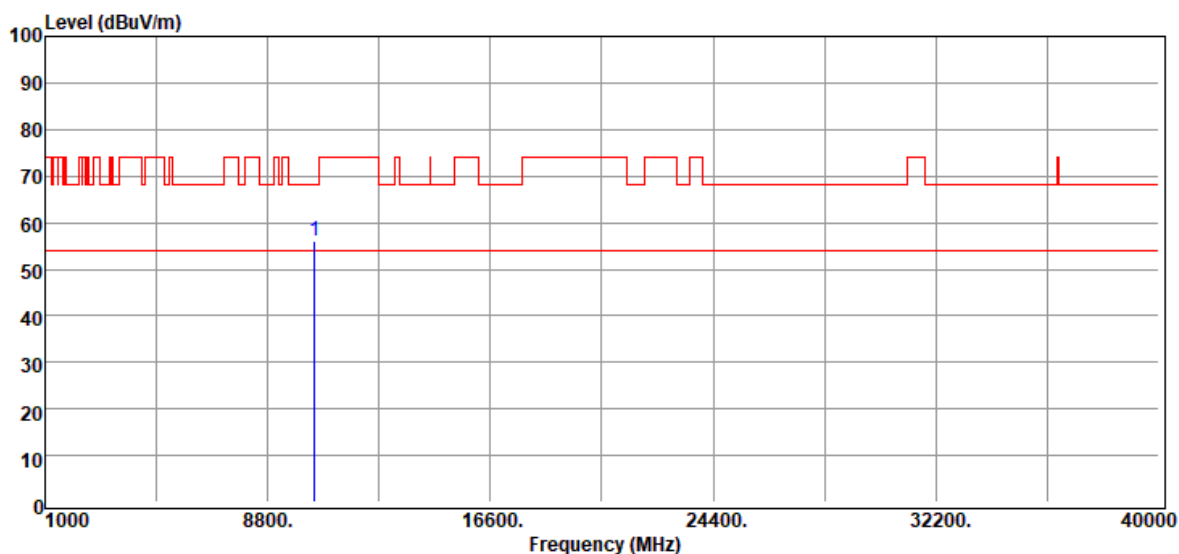
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Report Number :E2/2020/50085
 Operation Mode :802.11n20 / Band 1
 Test Frequency :5220 MHz
 Test Mode :TX CH MID
 EUT Pol :E2 Plan

Test Date :2020-06-08
 Temp./Humi. :22.7/68
 Antenna Pol. :VERTICAL
 Engineer :Enzo



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	29.80	26.24	56.04	68.20	-12.16

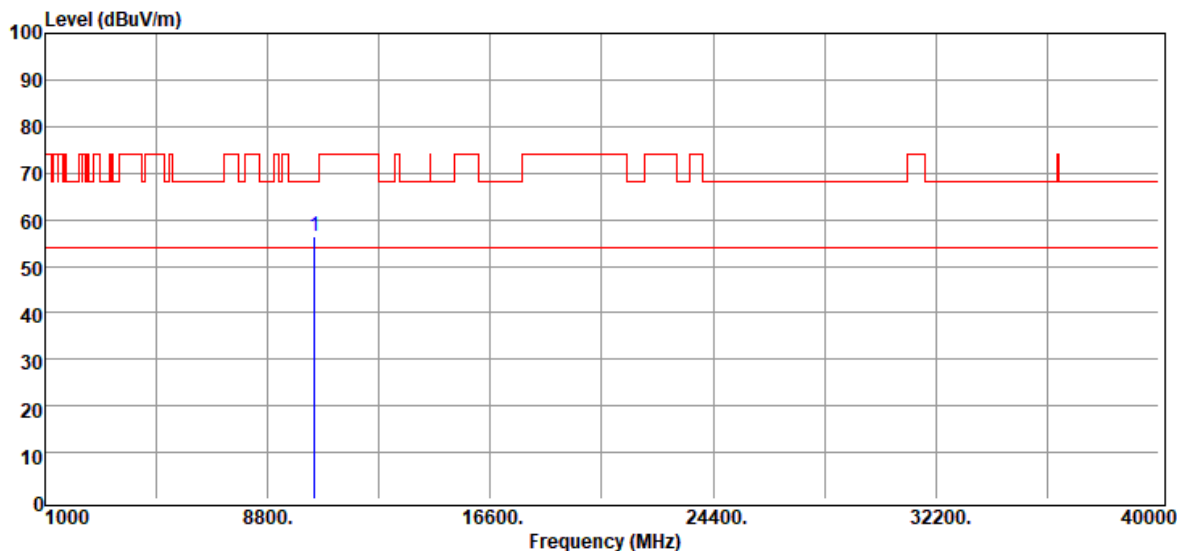
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Report Number :E2/2020/50085
Operation Mode :802.11n20 / Band 1
Test Frequency :5220 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Date :2020-06-08
Temp./Humi. :22.7/68
Antenna Pol. :HORIZONTAL
Engineer :Enzo



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	30.02	26.24	56.26	68.20	-11.94

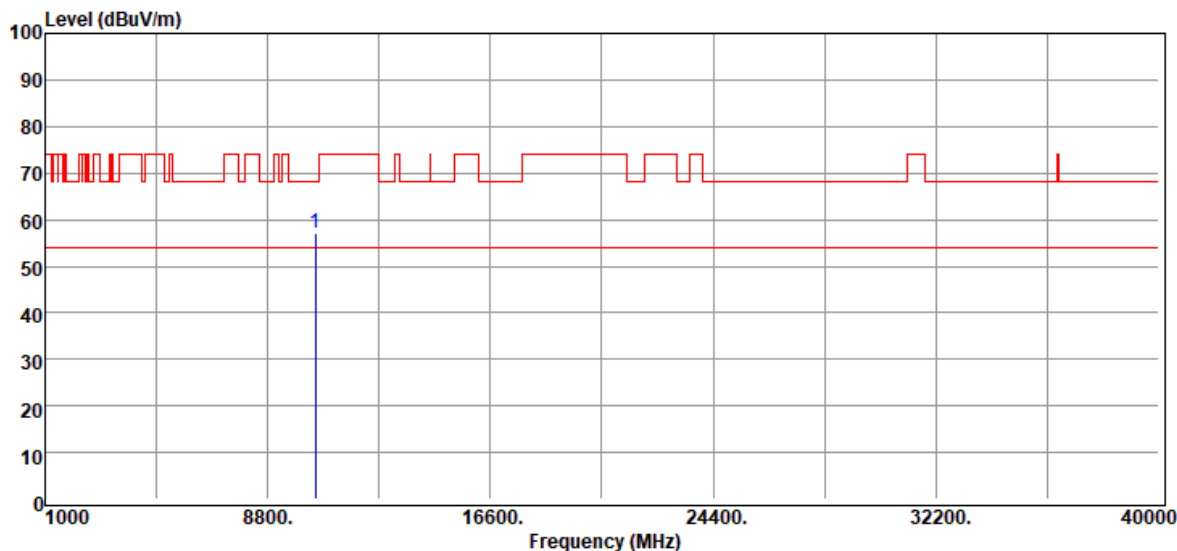
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Report Number :E2/2020/50085
 Operation Mode :802.11n20 / Band 1
 Test Frequency :5240 MHz
 Test Mode :TX CH HIGH
 EUT Pol :E2 Plan

Test Date :2020-06-08
 Temp./Humi. :22.7/68
 Antenna Pol. :VERTICAL
 Engineer :Enzo



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	29.95	27.23	57.18	68.20	-11.02

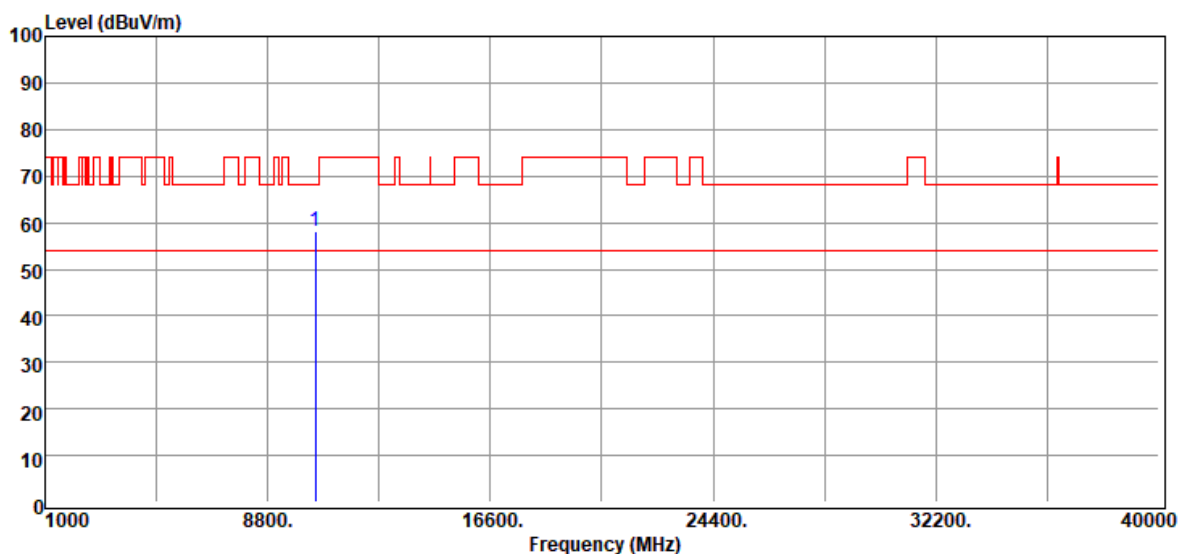
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Report Number :E2/2020/50085
Operation Mode :802.11n20 / Band 1
Test Frequency :5240 MHz
Test Mode :TX CH HIGH
EUT Pol :E2 Plan

Test Date :2020-06-08
Temp./Humi. :22.7/68
Antenna Pol. :HORIZONTAL
Engineer :Enzo



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	30.77	27.23	58.00	68.20	-10.20

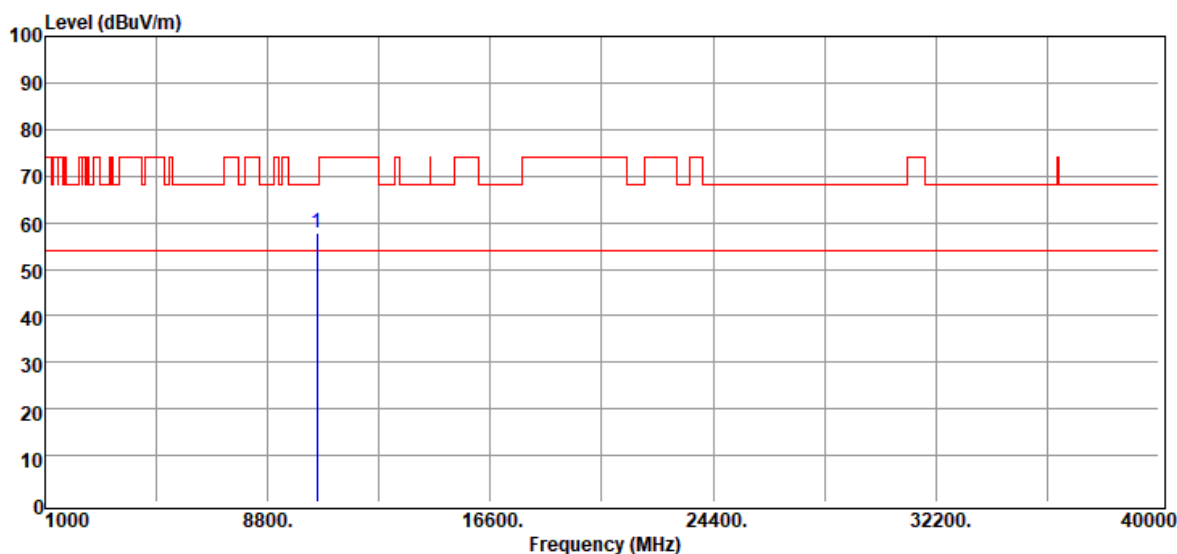
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Report Number :E2/2020/50085
 Operation Mode :802.11n20 / Band 2
 Test Frequency :5260 MHz
 Test Mode :TX CH LOW
 EUT Pol :E2 Plan

Test Date :2020-06-08
 Temp./Humi. :22.7/68
 Antenna Pol. :VERTICAL
 Engineer :Enzo



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	30.56	27.29	57.85	68.20	-10.35

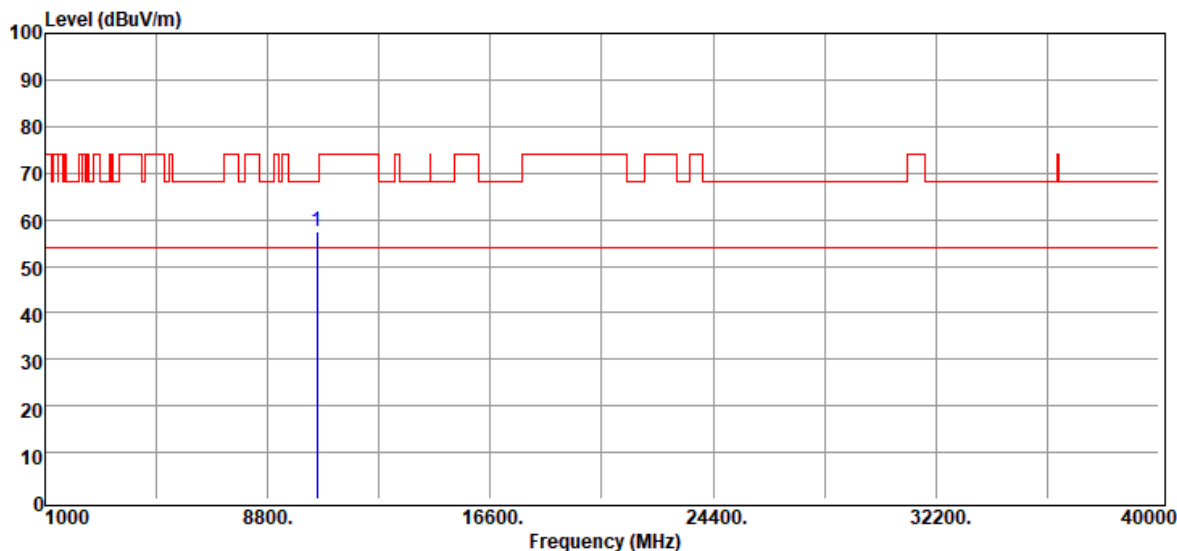
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Report Number :E2/2020/50085
Operation Mode :802.11n20 / Band 2
Test Frequency :5260 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plan

Test Date :2020-06-08
Temp./Humi. :22.7/68
Antenna Pol. :HORIZONTAL
Engineer :Enzo



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	30.17	27.29	57.46	68.20	-10.74

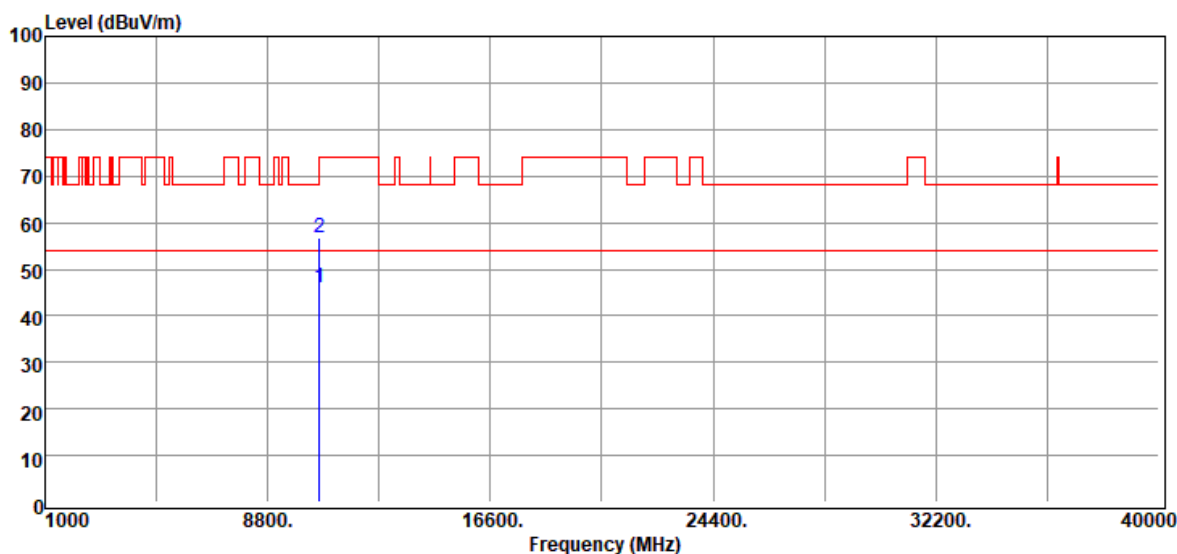
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Report Number :E2/2020/50085
Operation Mode :802.11n20 / Band 2
Test Frequency :5300 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Date :2020-06-08
Temp./Humi. :22.7/68
Antenna Pol. :VERTICAL
Engineer :Enzo



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	20.53	25.55	46.08	54.00	-7.92
10600.00	Peak	31.21	25.55	56.76	74.00	-17.24

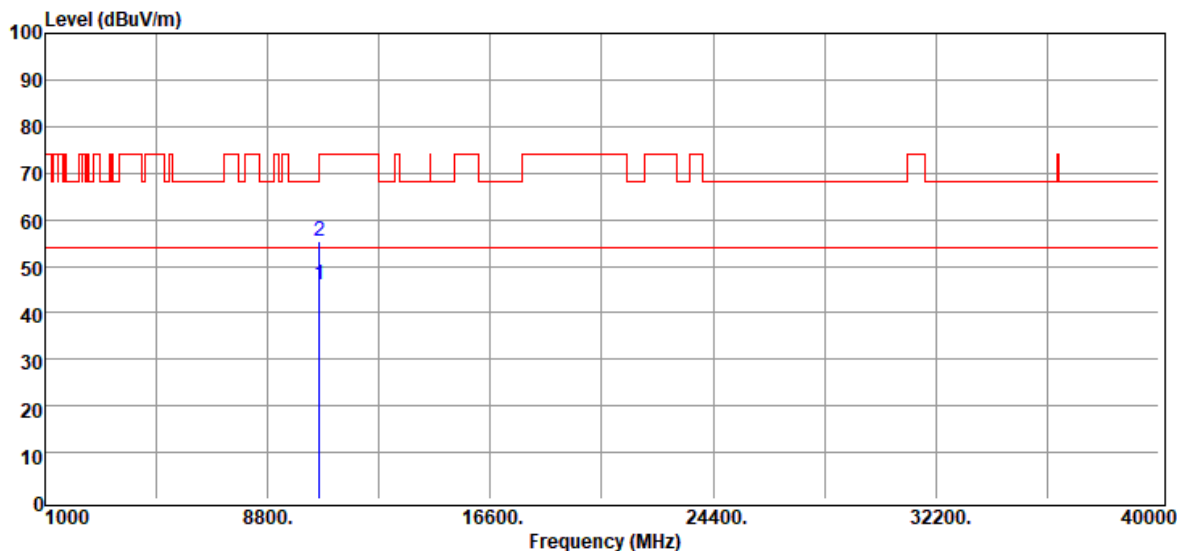
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Report Number :E2/2020/50085
Operation Mode :802.11n20 / Band 2
Test Frequency :5300 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Date :2020-06-08
Temp./Humi. :22.7/68
Antenna Pol. :HORIZONTAL
Engineer :Enzo



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	20.61	25.55	46.16	54.00	-7.84
10600.00	Peak	29.98	25.55	55.53	74.00	-18.47

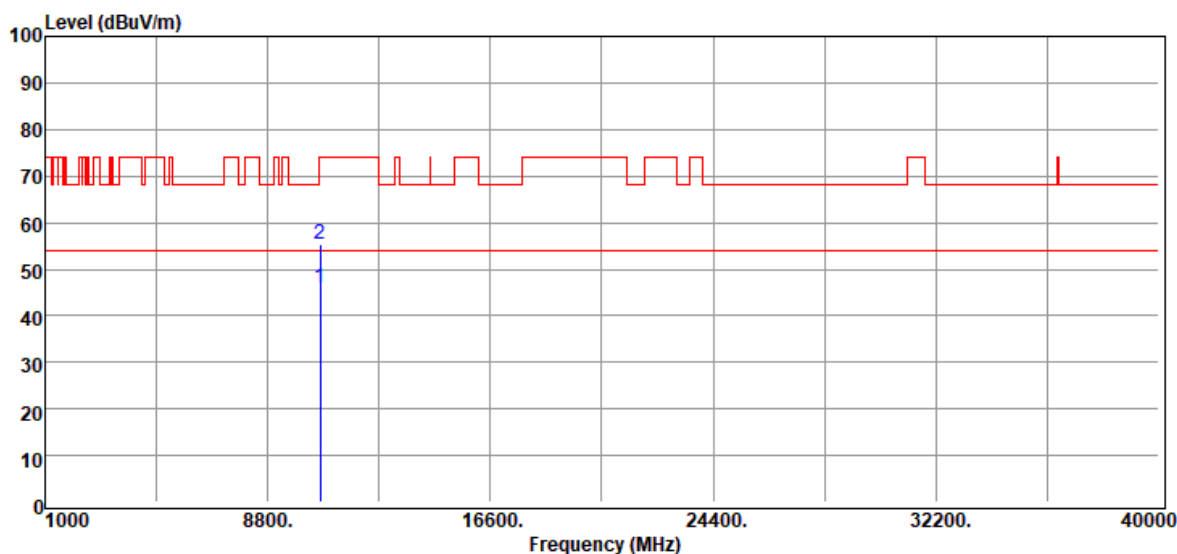
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Report Number :E2/2020/50085
Operation Mode :802.11n20 / Band 2
Test Frequency :5320 MHz
Test Mode :TX CH HIGH
EUT Pol :E2 Plan

Test Date :2020-06-08
Temp./Humi. :22.7/68
Antenna Pol. :VERTICAL
Engineer :Enzo



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	20.41	25.67	46.08	54.00	-7.92
10640.00	Peak	29.76	25.67	55.43	74.00	-18.57

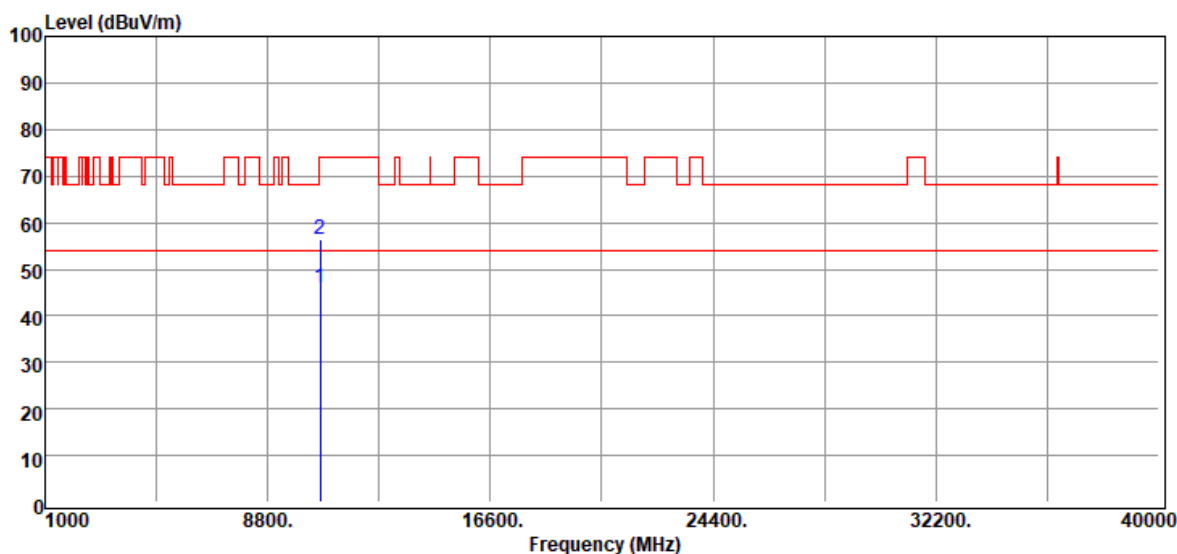
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Report Number :E2/2020/50085
Operation Mode :802.11n20 / Band 2
Test Frequency :5320 MHz
Test Mode :TX CH HIGH
EUT Pol :E2 Plan

Test Date :2020-06-08
Temp./Humi. :22.7/68
Antenna Pol. :HORIZONTAL
Engineer :Enzo



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	20.45	25.67	46.12	54.00	-7.88
10640.00	Peak	30.71	25.67	56.38	74.00	-17.62

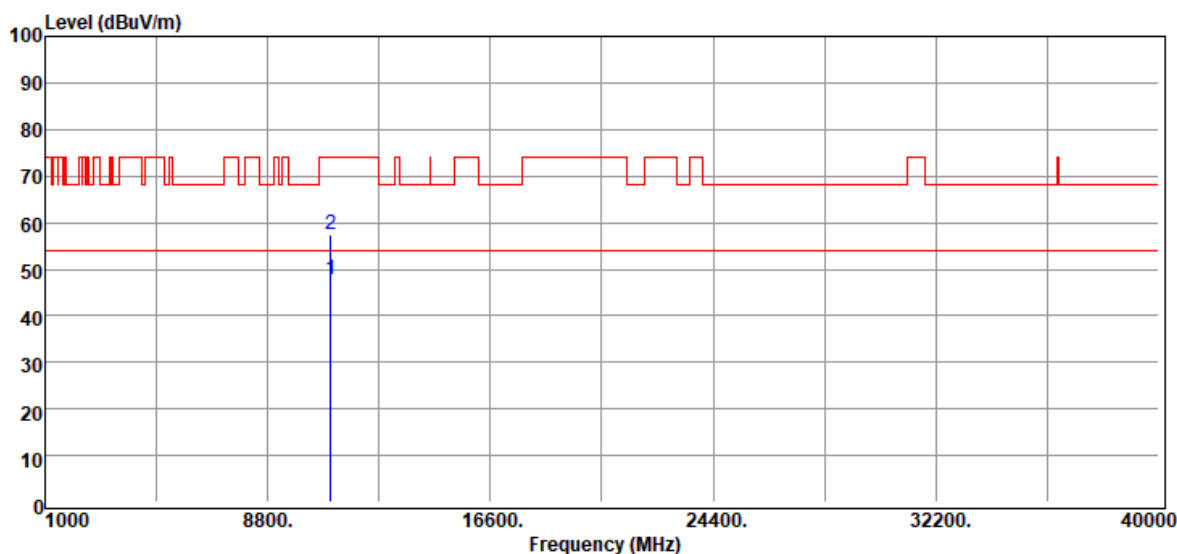
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Report Number :E2/2020/50085
Operation Mode :802.11n20 / Band 3
Test Frequency :5500 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plan

Test Date :2020-06-08
Temp./Humi. :22.7/68
Antenna Pol. :VERTICAL
Engineer :Enzo



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	20.55	27.31	47.86	54.00	-6.14
11000.00	Peak	30.08	27.31	57.39	74.00	-16.61

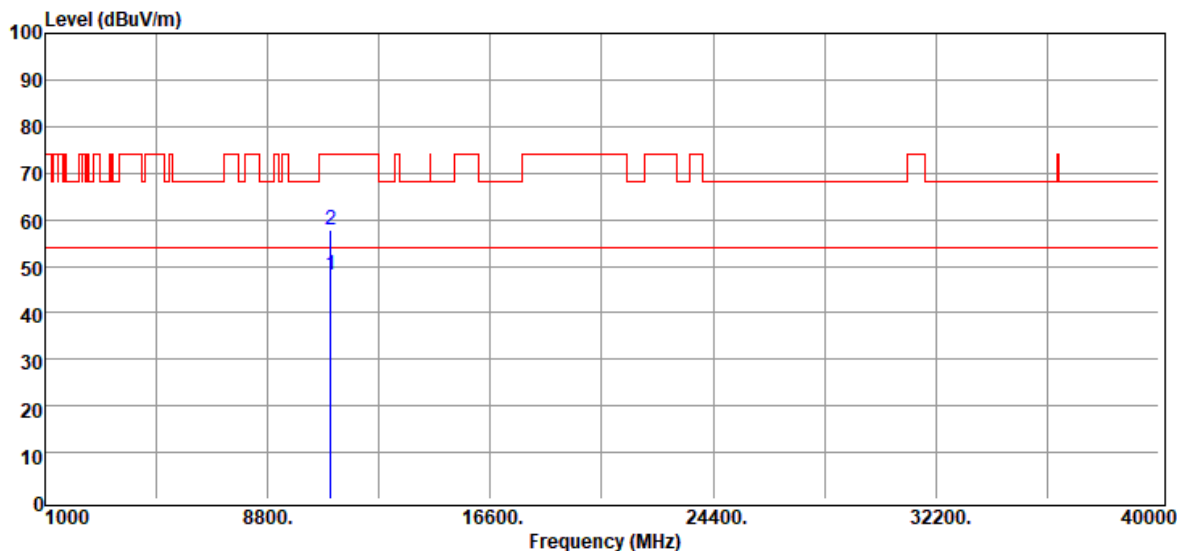
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Report Number :E2/2020/50085
Operation Mode :802.11n20 / Band 3
Test Frequency :5500 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plan

Test Date :2020-06-08
Temp./Humi. :22.7/68
Antenna Pol. :HORIZONTAL
Engineer :Enzo



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	20.68	27.31	47.99	54.00	-6.01
11000.00	Peak	30.64	27.31	57.95	74.00	-16.05

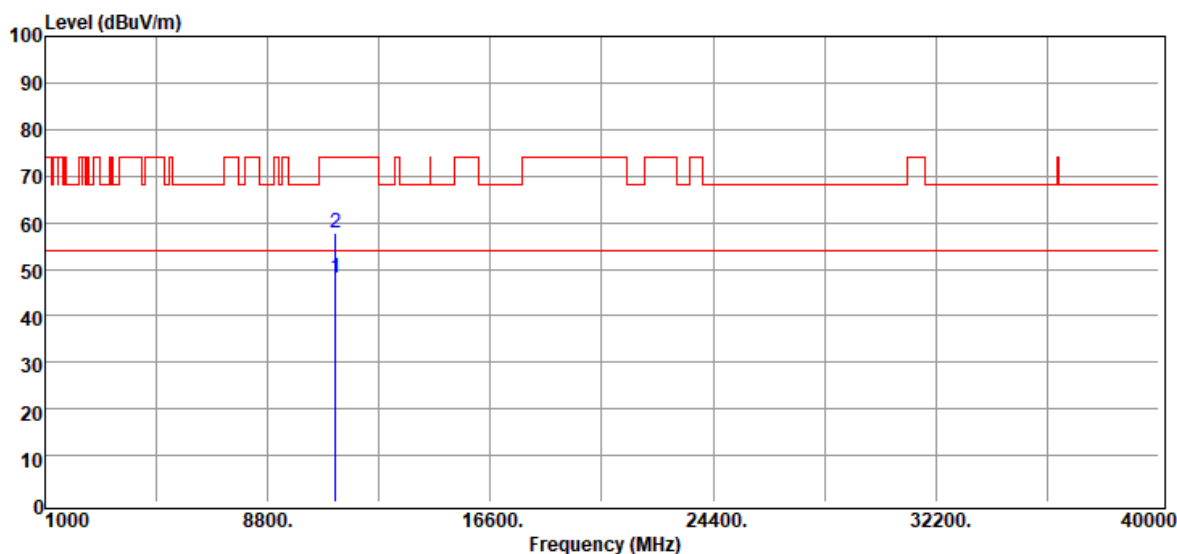
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Report Number :E2/2020/50085
Operation Mode :802.11n20 / Band 3
Test Frequency :5580 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Date :2020-06-09
Temp./Humi. :22.5/64
Antenna Pol. :VERTICAL
Engineer :Enzo



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	20.52	27.45	47.97	54.00	-6.03
11160.00	Peak	30.38	27.45	57.83	74.00	-16.17

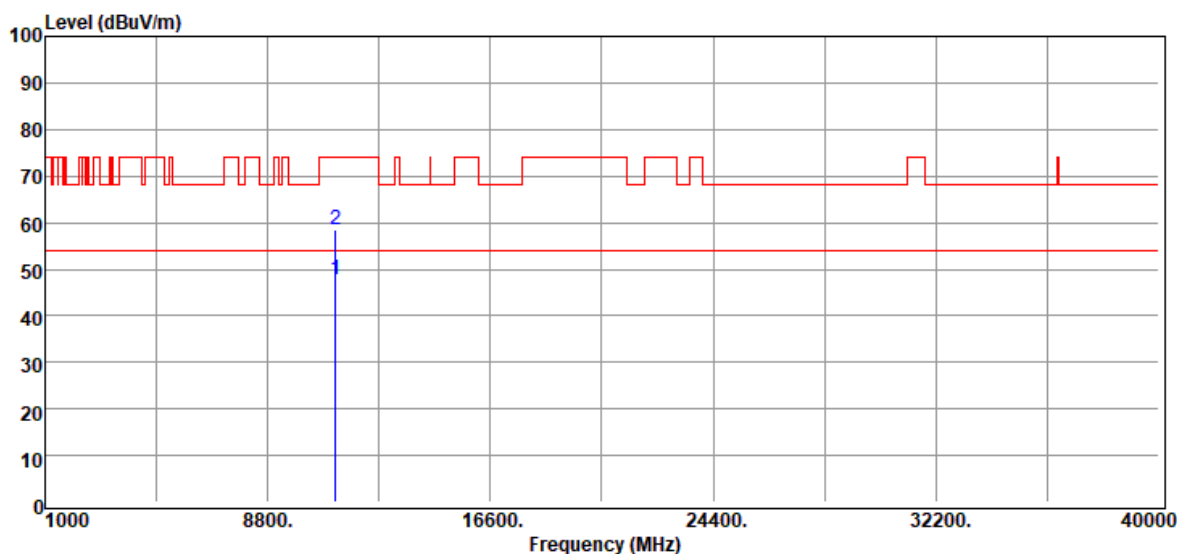
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Report Number :E2/2020/50085
Operation Mode :802.11n20 / Band 3
Test Frequency :5580 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Date :2020-06-09
Temp./Humi. :22.5/64
Antenna Pol. :HORIZONTAL
Engineer :Enzo



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	20.41	27.45	47.86	54.00	-6.14
11160.00	Peak	30.93	27.45	58.38	74.00	-15.62

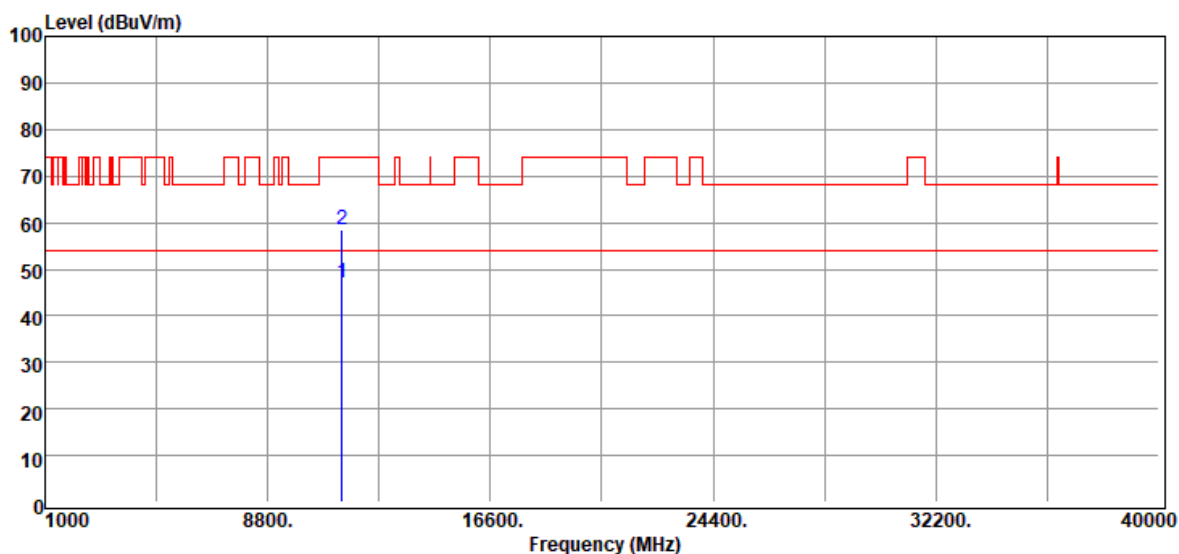
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Report Number :E2/2020/50085
Operation Mode :802.11n20 / Band 3
Test Frequency :5700 MHz
Test Mode :TX CH HIGH
EUT Pol :E2 Plan

Test Date :2020-06-09
Temp./Humi. :22.5/64
Antenna Pol. :VERTICAL
Engineer :Enzo



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	20.35	26.54	46.89	54.00	-7.11
11400.00	Peak	32.06	26.54	58.60	74.00	-15.40

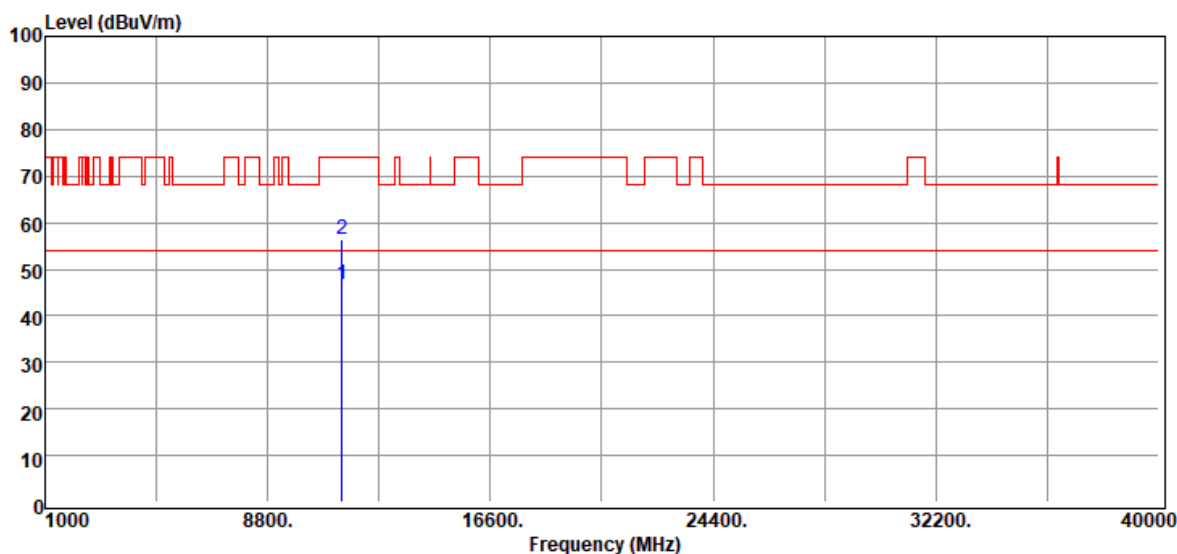
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Report Number :E2/2020/50085
Operation Mode :802.11n20 / Band 3
Test Frequency :5700 MHz
Test Mode :TX CH HIGH
EUT Pol :E2 Plan

Test Date :2020-06-09
Temp./Humi. :22.5/64
Antenna Pol. :HORIZONTAL
Engineer :Enzo



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	20.22	26.54	46.76	54.00	-7.24
11400.00	Peak	30.02	26.54	56.56	74.00	-17.44

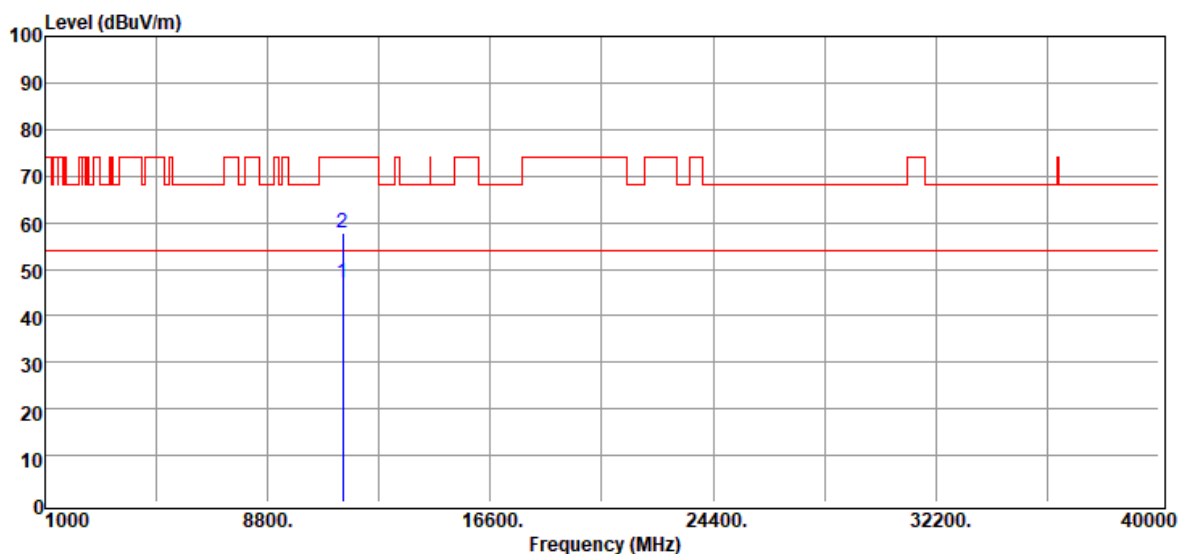
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Report Number :E2/2020/50085
 Operation Mode :802.11n20 / Band 3-4
 Test Frequency :5720 MHz
 Test Mode :TX CH 144
 EUT Pol :E2 Plan

Test Date :2020-06-09
 Temp./Humi. :22.5/64
 Antenna Pol. :VERTICAL
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11440.00	Average	20.27	26.94	47.21	54.00	-6.79
11440.00	Peak	30.80	26.94	57.74	74.00	-16.26

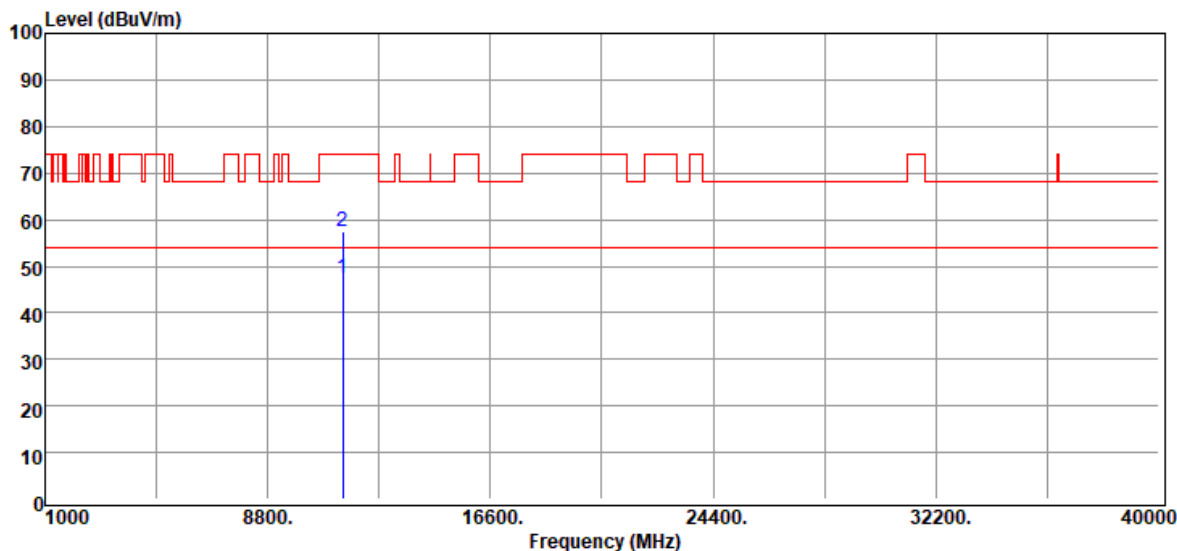
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Report Number :E2/2020/50085
Operation Mode :802.11n20 / Band 3-4
Test Frequency :5720 MHz
Test Mode :TX CH 144
EUT Pol :E2 Plan

Test Date :2020-06-09
Temp./Humi. :22.5/64
Antenna Pol. :HORIZONTAL
Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11440.00	Average	20.34	26.94	47.28	54.00	-6.72
11440.00	Peak	30.33	26.94	57.27	74.00	-16.73

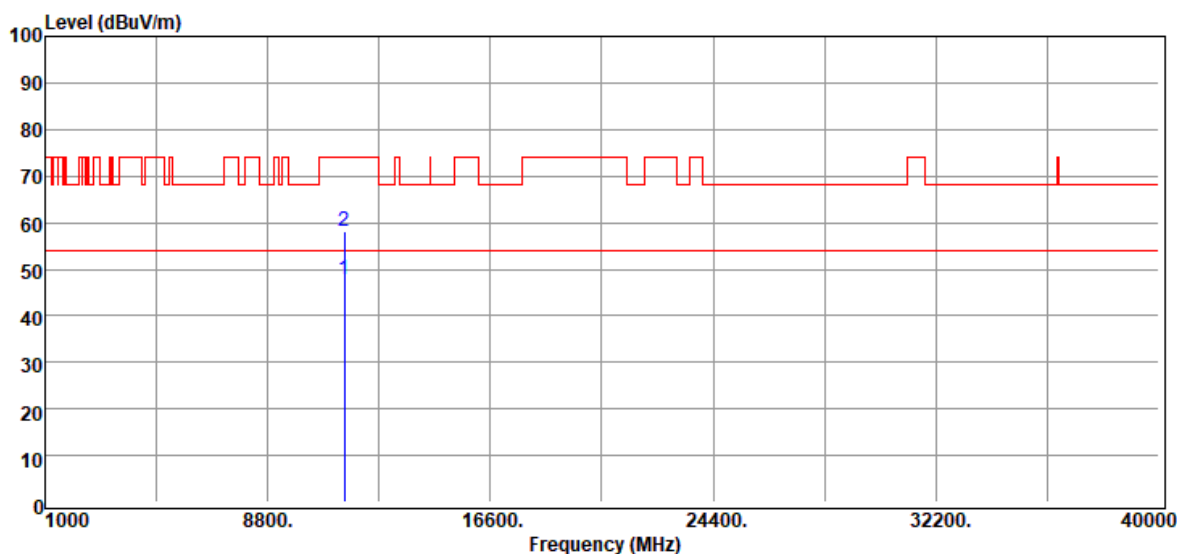
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Report Number :E2/2020/50085
Operation Mode :802.11n20 / Band 4
Test Frequency :5745 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plan

Test Date :2020-06-09
Temp./Humi. :22.5/64
Antenna Pol. :VERTICAL
Engineer :Enzo



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	20.27	27.44	47.71	54.00	-6.29
11490.00	Peak	30.85	27.44	58.29	74.00	-15.71

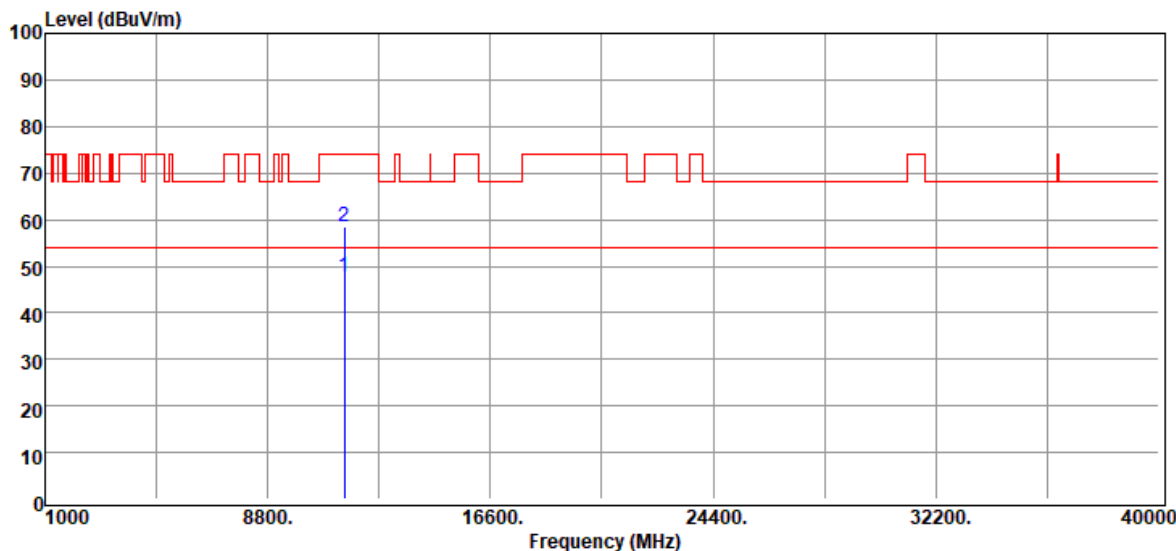
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Report Number :E2/2020/50085
Operation Mode :802.11n20 / Band 4
Test Frequency :5745 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plan

Test Date :2020-06-09
Temp./Humi. :22.5/64
Antenna Pol. :HORIZONTAL
Engineer :Enzo



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	20.15	27.44	47.59	54.00	-6.41
11490.00	Peak	31.13	27.44	58.57	74.00	-15.43

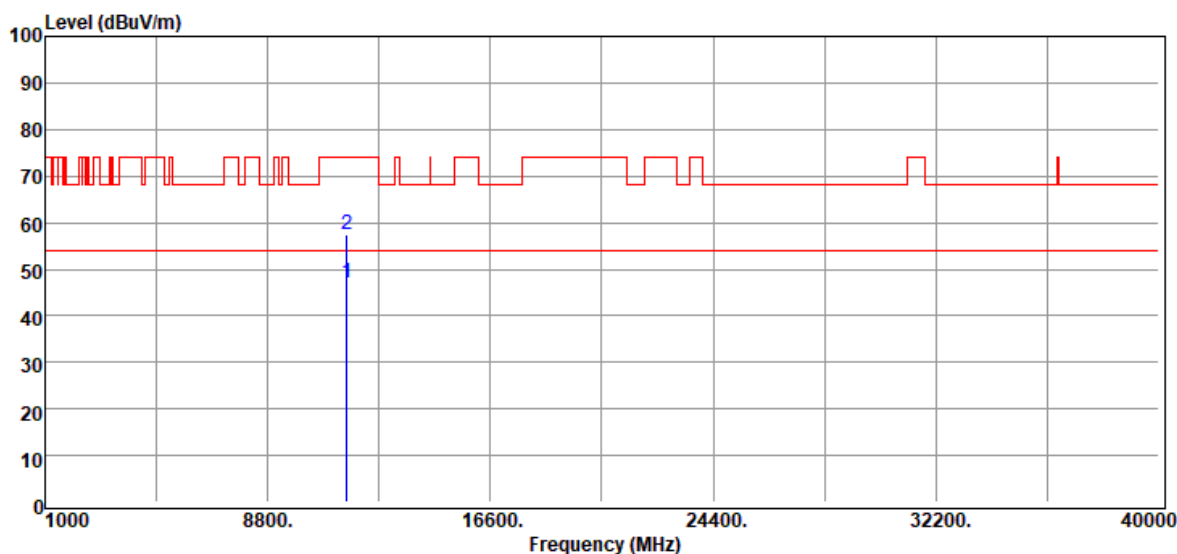
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Report Number :E2/2020/50085
Operation Mode :802.11n20 / Band 4
Test Frequency :5785 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Date :2020-06-09
Temp./Humi. :22.5/64
Antenna Pol. :VERTICAL
Engineer :Enzo



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	20.18	26.95	47.13	54.00	-6.87
11570.00	Peak	30.41	26.95	57.36	74.00	-16.64

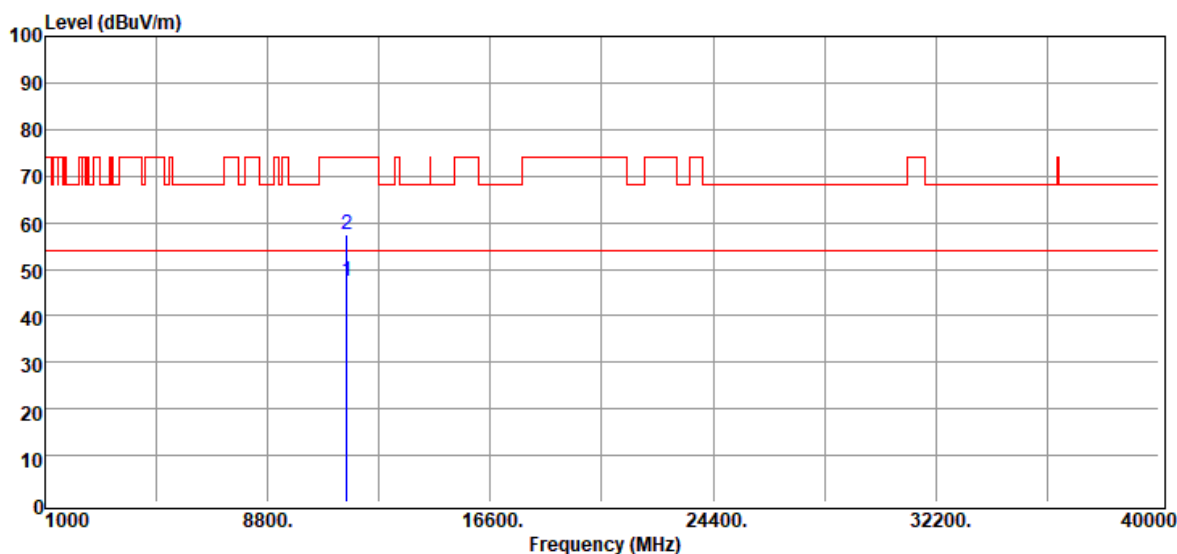
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Report Number :E2/2020/50085
Operation Mode :802.11n20 / Band 4
Test Frequency :5785 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Date :2020-06-09
Temp./Humi. :22.5/64
Antenna Pol. :HORIZONTAL
Engineer :Enzo



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	20.35	26.95	47.30	54.00	-6.70
11570.00	Peak	30.32	26.95	57.27	74.00	-16.73

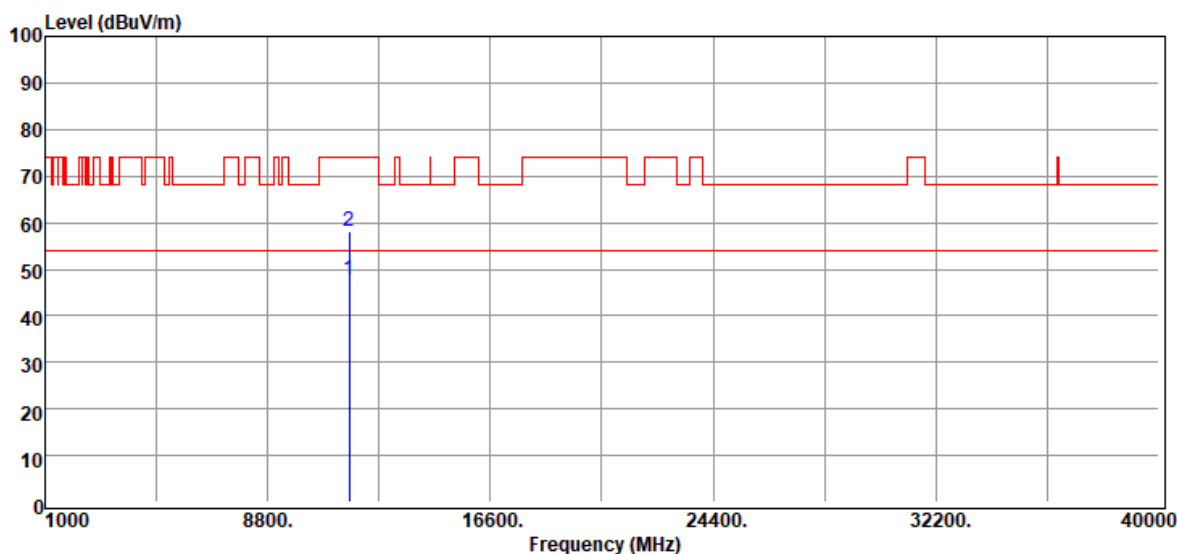
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Report Number :E2/2020/50085
Operation Mode :802.11n20 / Band 4
Test Frequency :5825 MHz
Test Mode :TX CH HIGH
EUT Pol :E2 Plan

Test Date :2020-06-09
Temp./Humi. :22.5/64
Antenna Pol. :VERTICAL
Engineer :Enzo



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	20.25	27.38	47.63	54.00	-6.37
11650.00	Peak	30.72	27.38	58.10	74.00	-15.90

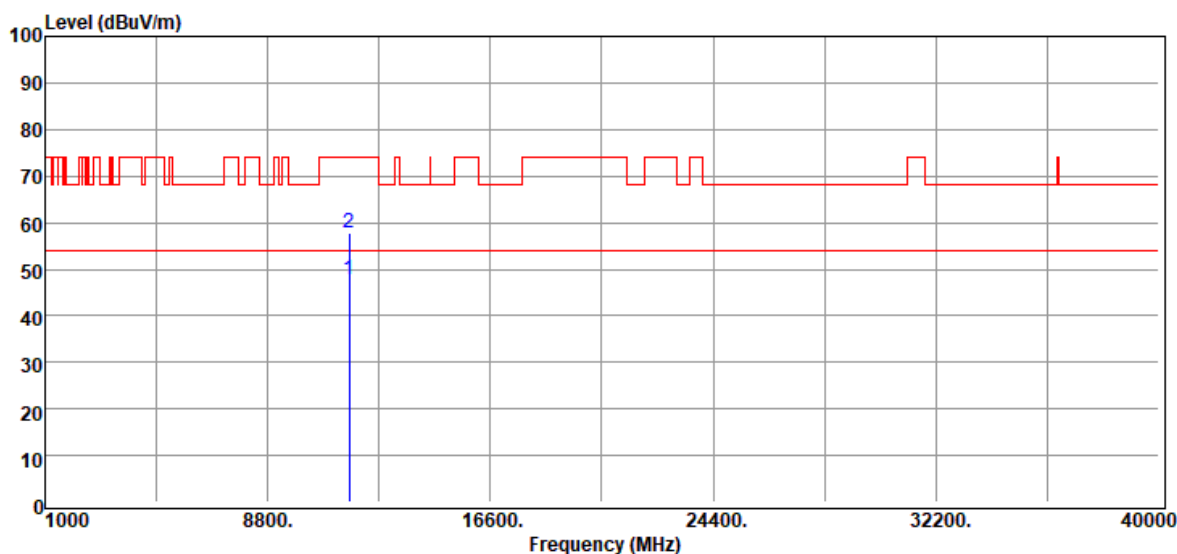
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Report Number :E2/2020/50085
 Operation Mode :802.11n20 / Band 4
 Test Frequency :5825 MHz
 Test Mode :TX CH HIGH
 EUT Pol :E2 Plan

Test Date :2020-06-09
 Temp./Humi. :22.5/64
 Antenna Pol. :HORIZONTAL
 Engineer :Enzo



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	20.32	27.38	47.70	54.00	-6.30
11650.00	Peak	30.33	27.38	57.71	74.00	-16.29

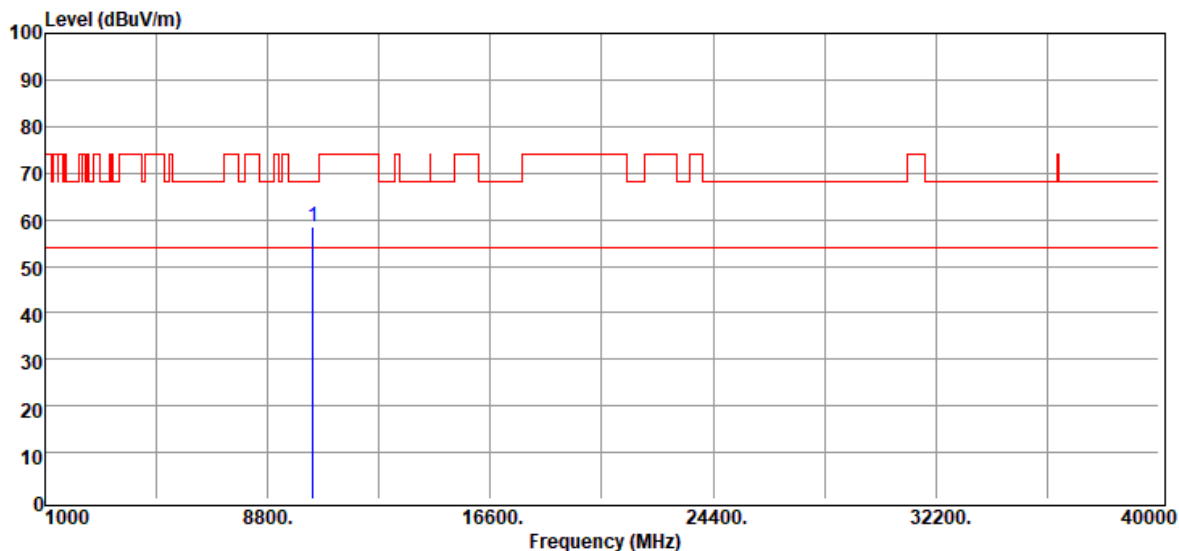
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Report Number :E2/2020/50085
Operation Mode :802.11n40 / Band 1
Test Frequency :5190 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plan

Test Date :2020-06-11
Temp./Humi. :23.8/56
Antenna Pol. :VERTICAL
Engineer :Enzo



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	32.64	25.70	58.34	68.20	-9.86

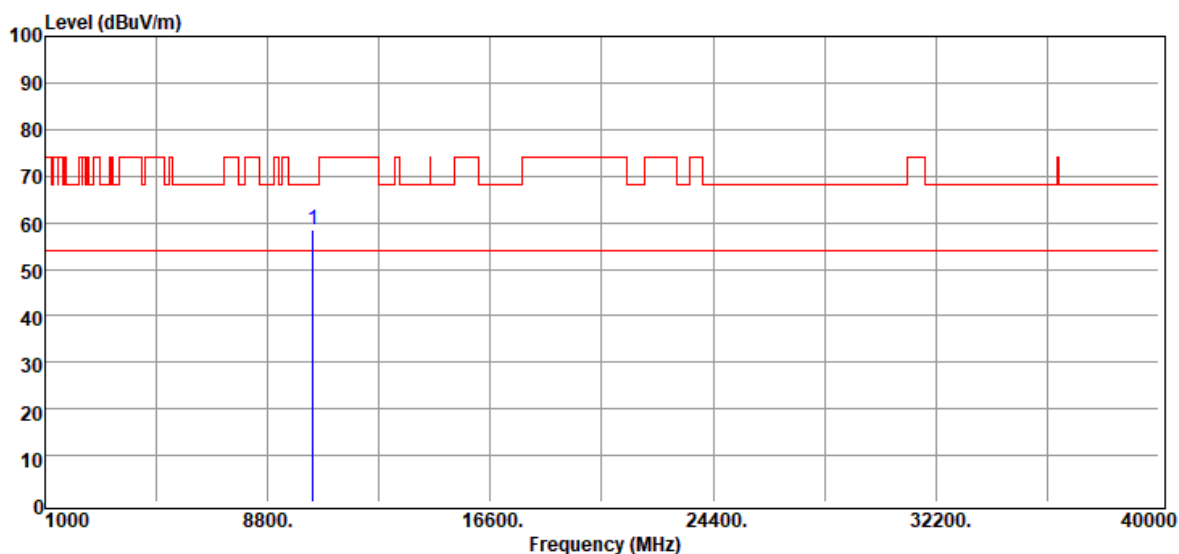
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Report Number :E2/2020/50085
Operation Mode :802.11n40 / Band 1
Test Frequency :5190 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plan

Test Date :2020-06-11
Temp./Humi. :23.8/56
Antenna Pol. :HORIZONTAL
Engineer :Enzo



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	32.71	25.70	58.41	68.20	-9.79

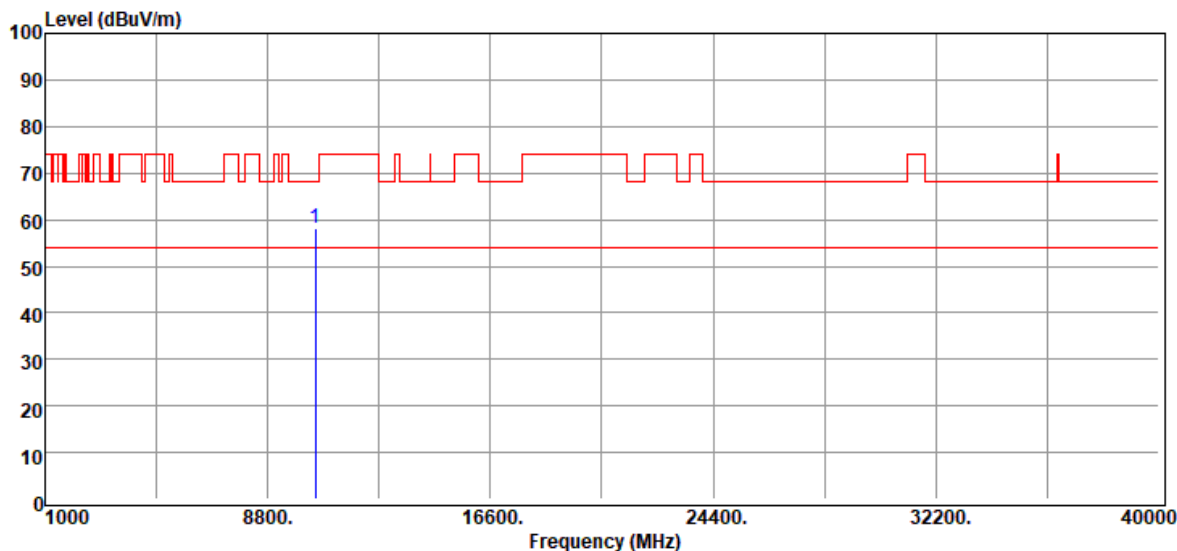
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Report Number :E2/2020/50085
 Operation Mode :802.11n40 / Band 1
 Test Frequency :5230 MHz
 Test Mode :TX CH HIGH
 EUT Pol :E2 Plan

Test Date :2020-06-11
 Temp./Humi. :23.8/56
 Antenna Pol. :VERTICAL
 Engineer :Enzo



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	31.43	26.74	58.17	68.20	-10.03

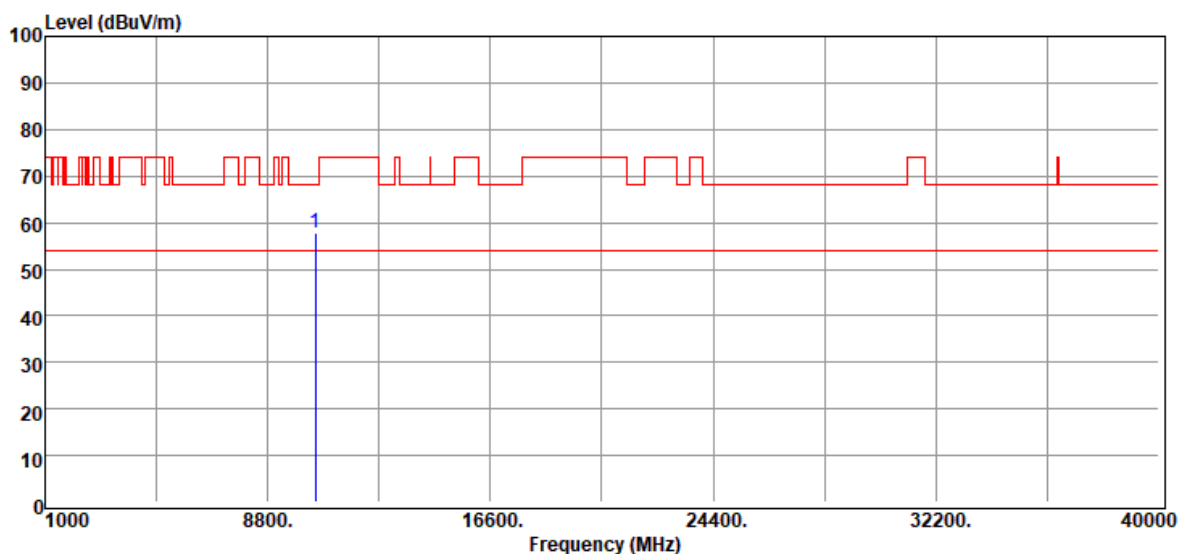
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Report Number :E2/2020/50085
Operation Mode :802.11n40 / Band 1
Test Frequency :5230 MHz
Test Mode :TX CH HIGH
EUT Pol :E2 Plan

Test Date :2020-06-11
Temp./Humi. :23.8/56
Antenna Pol. :HORIZONTAL
Engineer :Enzo



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	30.99	26.74	57.73	68.20	-10.47

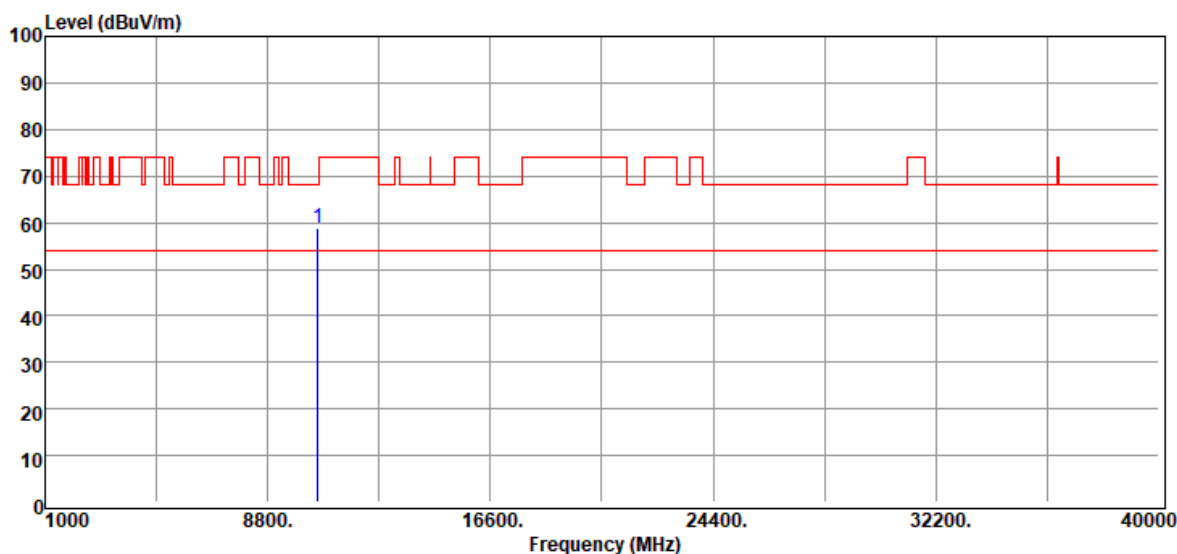
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Report Number :E2/2020/50085
Operation Mode :802.11n40 / Band 2
Test Frequency :5270 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plan

Test Date :2020-06-11
Temp./Humi. :23.8/56
Antenna Pol. :VERTICAL
Engineer :Enzo



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	31.88	26.86	58.74	68.20	-9.46

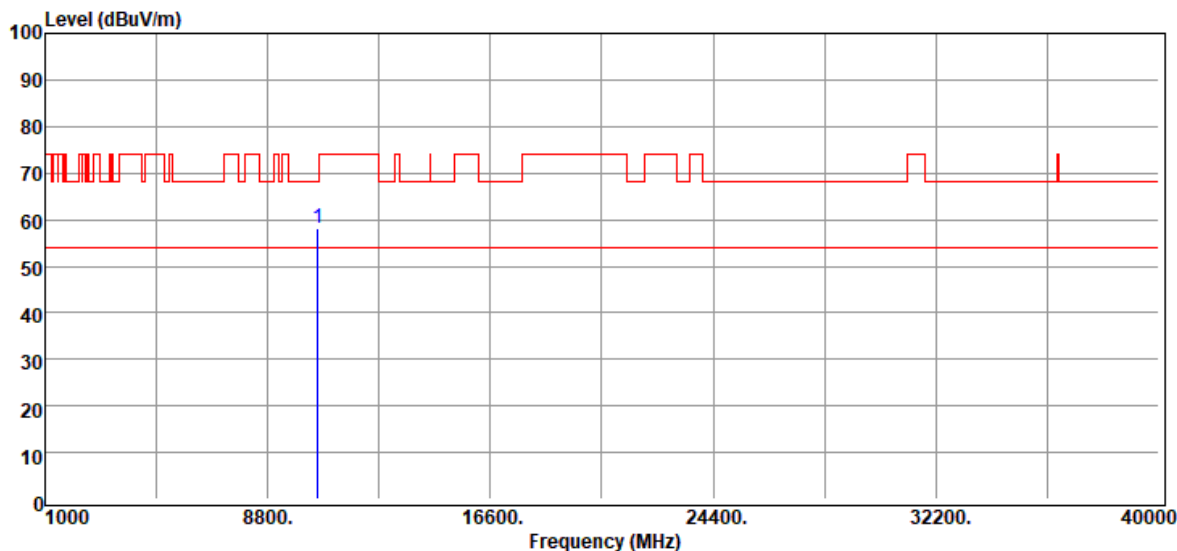
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Report Number :E2/2020/50085
Operation Mode :802.11n40 / Band 2
Test Frequency :5270 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plan

Test Date :2020-06-11
Temp./Humi. :23.8/56
Antenna Pol. :HORIZONTAL
Engineer :Enzo



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	31.12	26.86	57.98	68.20	-10.22

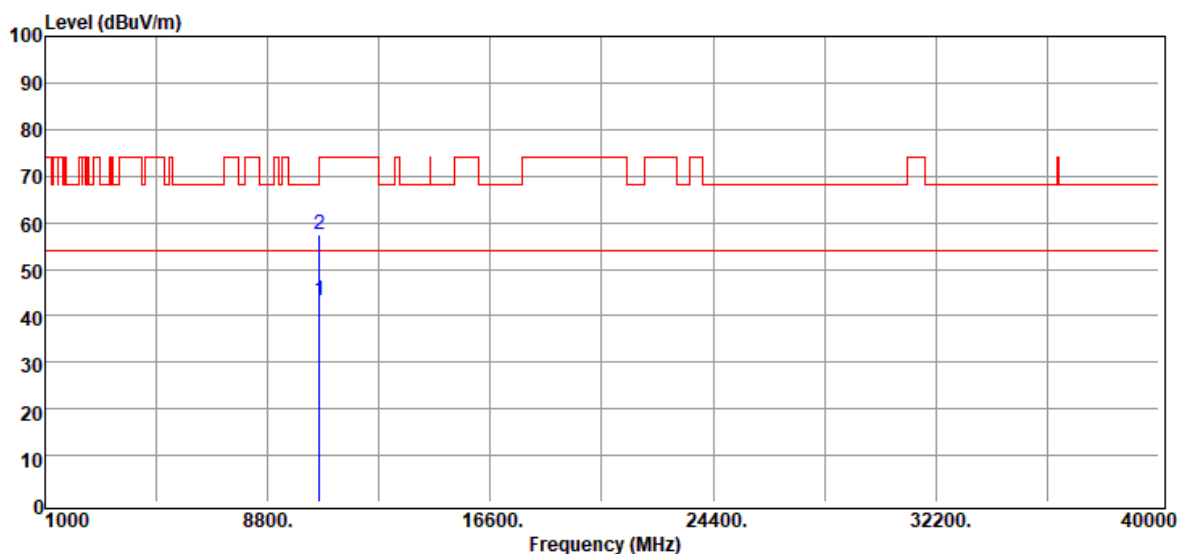
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Report Number :E2/2020/50085
Operation Mode :802.11n40 / Band 2
Test Frequency :5310 MHz
Test Mode :TX CH HIGH
EUT Pol :E2 Plan

Test Date :2020-06-11
Temp./Humi. :23.8/56
Antenna Pol. :VERTICAL
Engineer :Enzo



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	17.72	25.61	43.33	54.00	-10.67
10620.00	Peak	31.95	25.61	57.56	74.00	-16.44

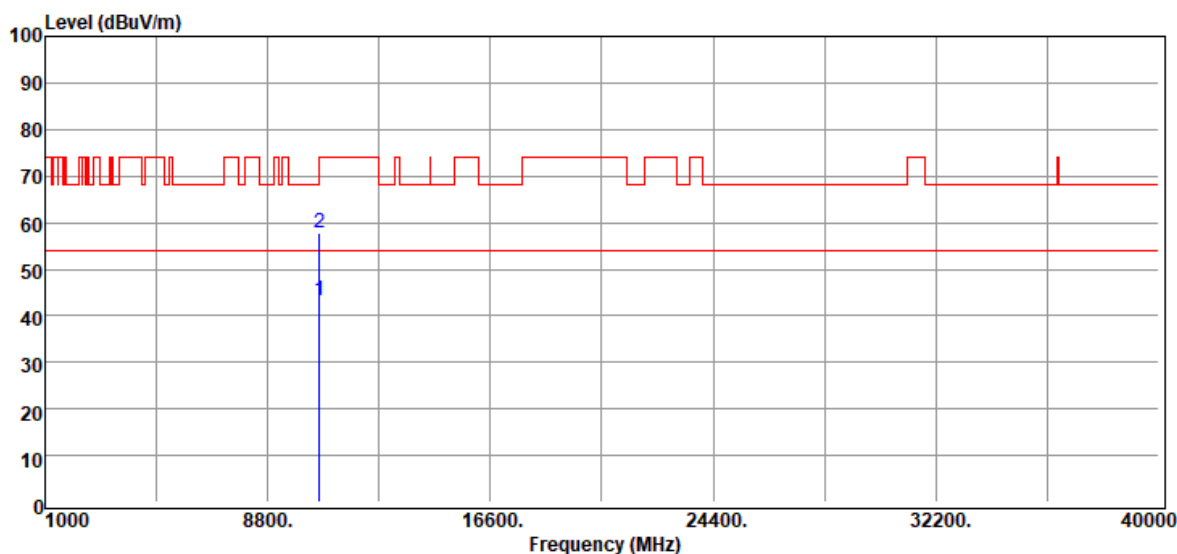
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Report Number :E2/2020/50085
Operation Mode :802.11n40 / Band 2
Test Frequency :5310 MHz
Test Mode :TX CH HIGH
EUT Pol :E2 Plan

Test Date :2020-06-11
Temp./Humi. :23.8/56
Antenna Pol. :HORIZONTAL
Engineer :Enzo



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	17.51	25.61	43.12	54.00	-10.88
10620.00	Peak	32.09	25.61	57.70	74.00	-16.30

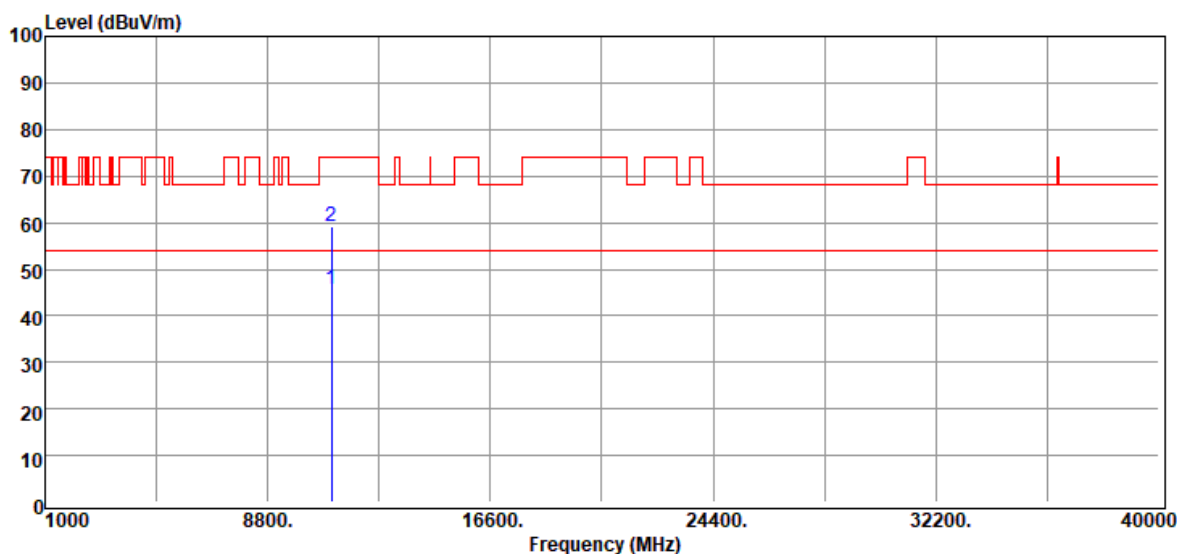
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Report Number :E2/2020/50085
Operation Mode :802.11n40 / Band 3
Test Frequency :5510 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plan

Test Date :2020-06-11
Temp./Humi. :23.8/56
Antenna Pol. :VERTICAL
Engineer :Enzo



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	17.98	27.58	45.56	54.00	-8.44
11020.00	Peak	31.74	27.58	59.32	74.00	-14.68

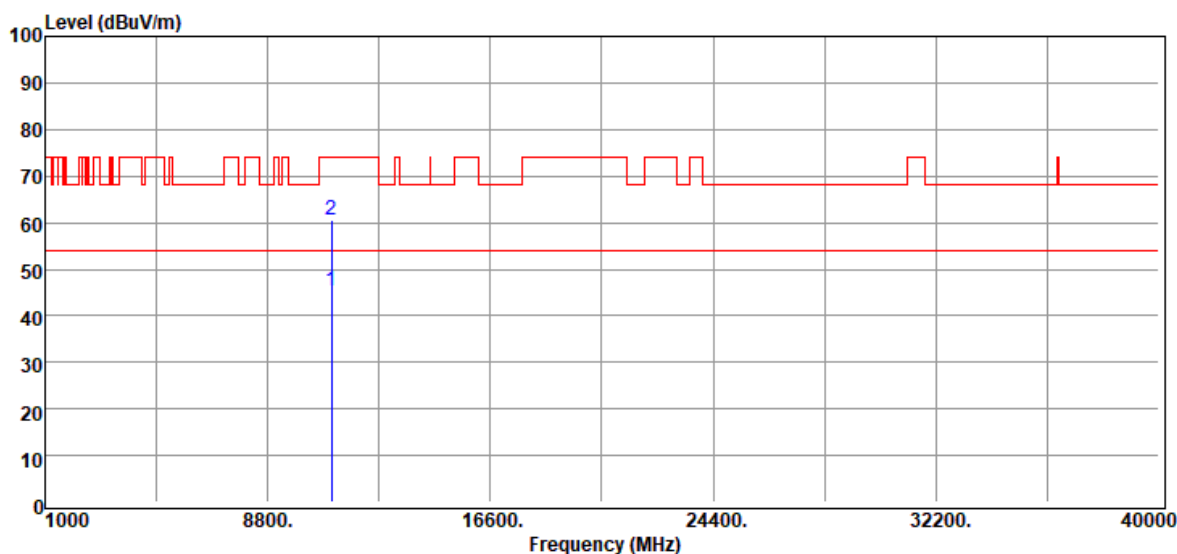
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Report Number :E2/2020/50085
 Operation Mode :802.11n40 / Band 3
 Test Frequency :5510 MHz
 Test Mode :TX CH LOW
 EUT Pol :E2 Plan

Test Date :2020-06-11
 Temp./Humi. :23.8/56
 Antenna Pol. :HORIZONTAL
 Engineer :Enzo



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	17.89	27.58	45.47	54.00	-8.53
11020.00	Peak	33.07	27.58	60.65	74.00	-13.35

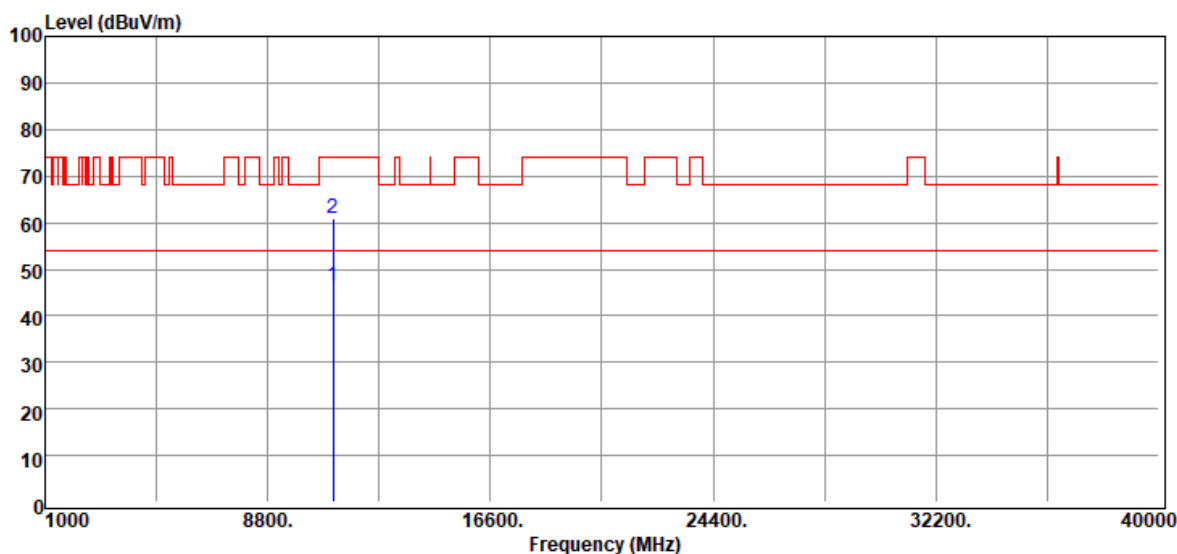
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Report Number :E2/2020/50085
Operation Mode :802.11n40 / Band 3
Test Frequency :5550 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Date :2020-06-11
Temp./Humi. :23.8/56
Antenna Pol. :VERTICAL
Engineer :Enzo



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	17.72	28.68	46.40	54.00	-7.60
11100.00	Peak	32.19	28.68	60.87	74.00	-13.13

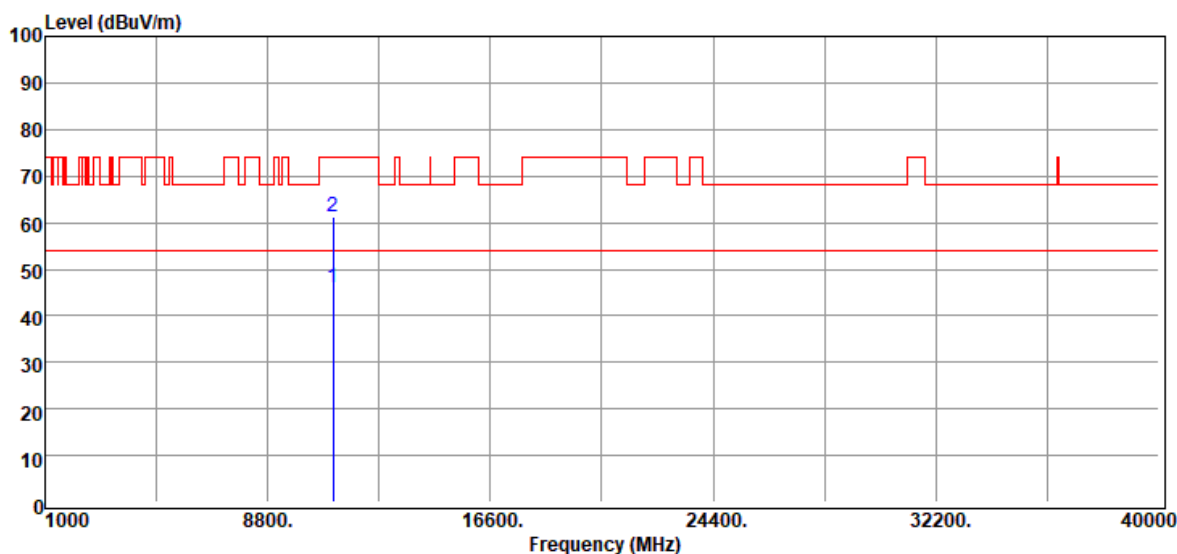
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Report Number :E2/2020/50085
 Operation Mode :802.11n40 / Band 3
 Test Frequency :5550 MHz
 Test Mode :TX CH MID
 EUT Pol :E2 Plan

Test Date :2020-06-11
 Temp./Humi. :23.8/56
 Antenna Pol. :HORIZONTAL
 Engineer :Enzo



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	17.45	28.68	46.13	54.00	-7.87
11100.00	Peak	32.45	28.68	61.13	74.00	-12.87

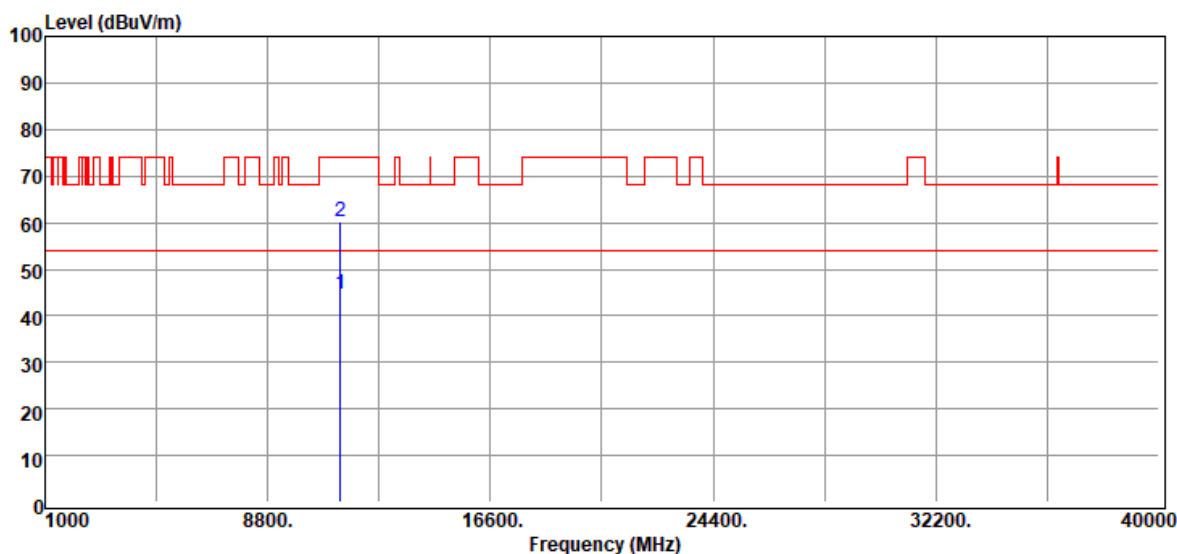
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Report Number :E2/2020/50085
 Operation Mode :802.11n40 / Band 3
 Test Frequency :5670 MHz
 Test Mode :TX CH HIGH
 EUT Pol :E2 Plan

Test Date :2020-06-11
 Temp./Humi. :23.8/56
 Antenna Pol. :VERTICAL
 Engineer :Enzo



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	17.34	27.22	44.56	54.00	-9.44
11340.00	Peak	32.84	27.22	60.06	74.00	-13.94

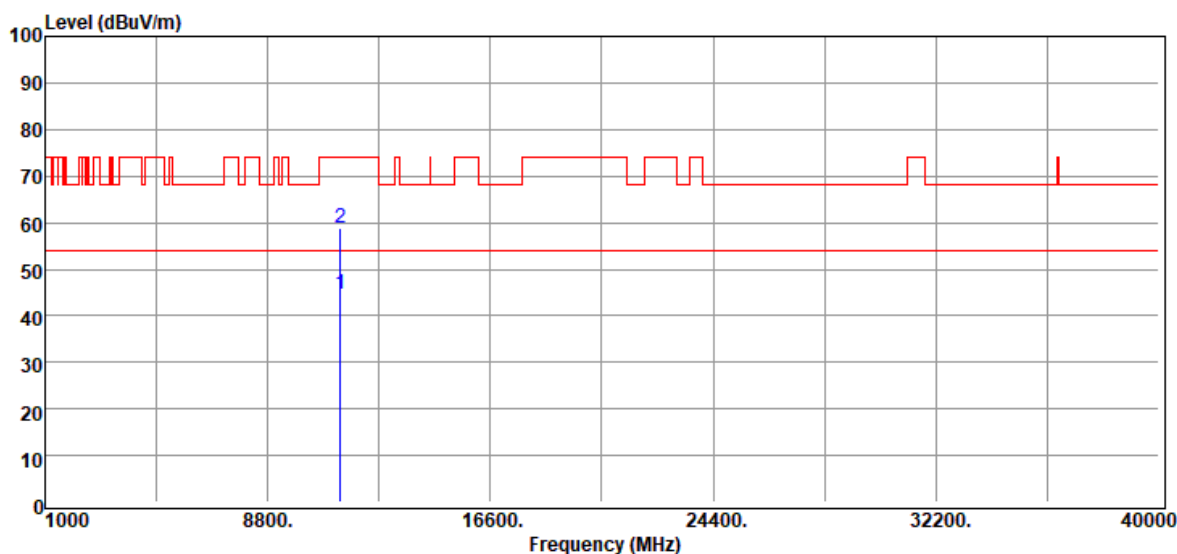
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Report Number :E2/2020/50085
Operation Mode :802.11n40 / Band 3
Test Frequency :5670 MHz
Test Mode :TX CH HIGH
EUT Pol :E2 Plan

Test Date :2020-06-11
Temp./Humi. :23.8/56
Antenna Pol. :HORIZONTAL
Engineer :Enzo



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	17.56	27.22	44.78	54.00	-9.22
11340.00	Peak	31.76	27.22	58.98	74.00	-15.02

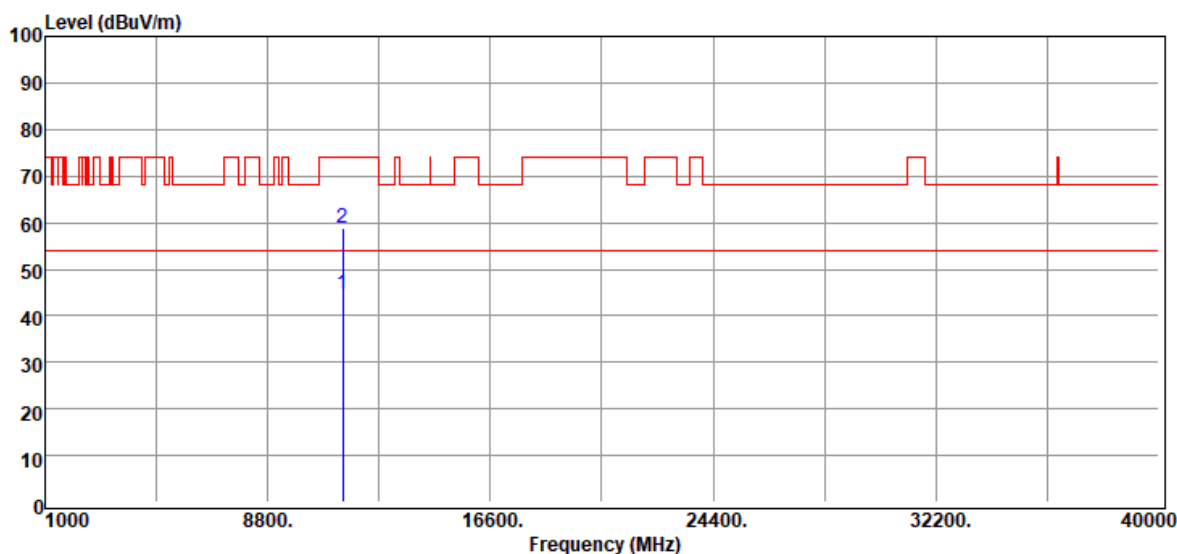
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Report Number :E2/2020/50085
Operation Mode :802.11n40 / Band 3-4
Test Frequency :5710 MHz
Test Mode :TX CH 142
EUT Pol :E2 Plan

Test Date :2020-06-11
Temp./Humi. :23.8/56
Antenna Pol. :VERTICAL
Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11420.00	Average	18.03	26.75	44.78	54.00	-9.22
11420.00	Peak	31.98	26.75	58.73	74.00	-15.27

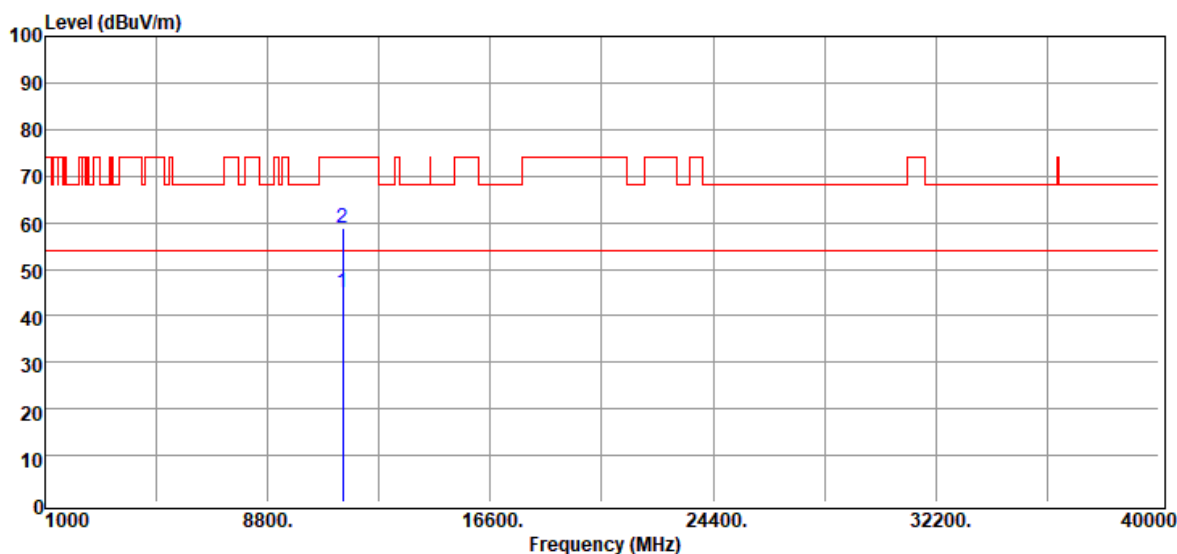
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Report Number :E2/2020/50085
Operation Mode :802.11n40 / Band 3-4
Test Frequency :5710 MHz
Test Mode :TX CH 142
EUT Pol :E2 Plan

Test Date :2020-06-11
Temp./Humi. :23.8/56
Antenna Pol. :HORIZONTAL
Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11420.00	Average	18.15	26.75	44.90	54.00	-9.10
11420.00	Peak	32.05	26.75	58.80	74.00	-15.20

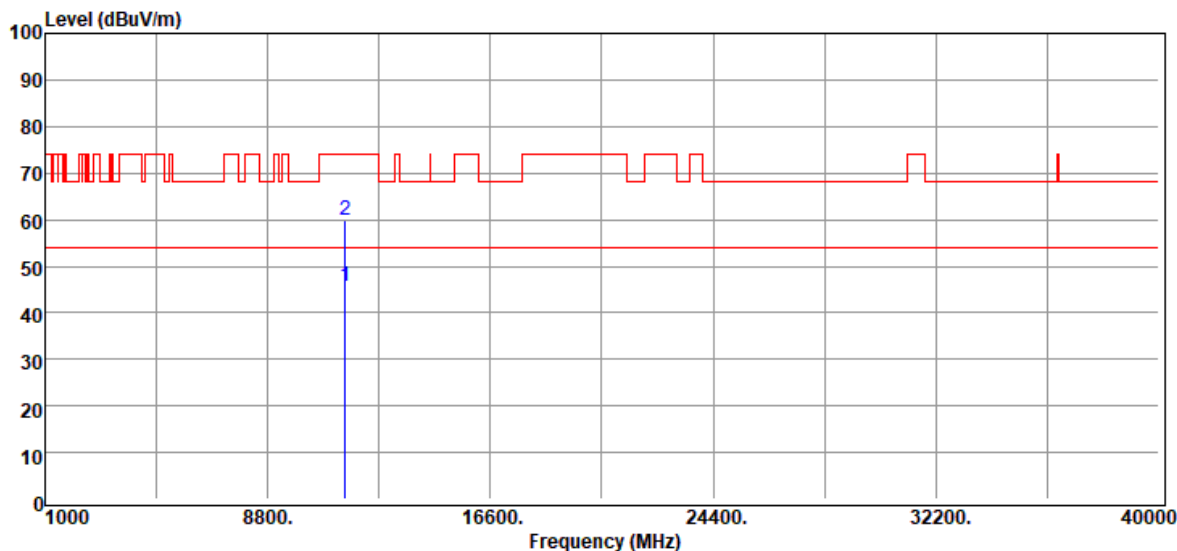
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Report Number :E2/2020/50085
Operation Mode :802.11n40 / Band 4
Test Frequency :5755 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plan

Test Date :2020-06-11
Temp./Humi. :23.8/56
Antenna Pol. :VERTICAL
Engineer :Enzo



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	18.06	27.46	45.52	54.00	-8.48
11510.00	Peak	32.26	27.46	59.72	74.00	-14.28

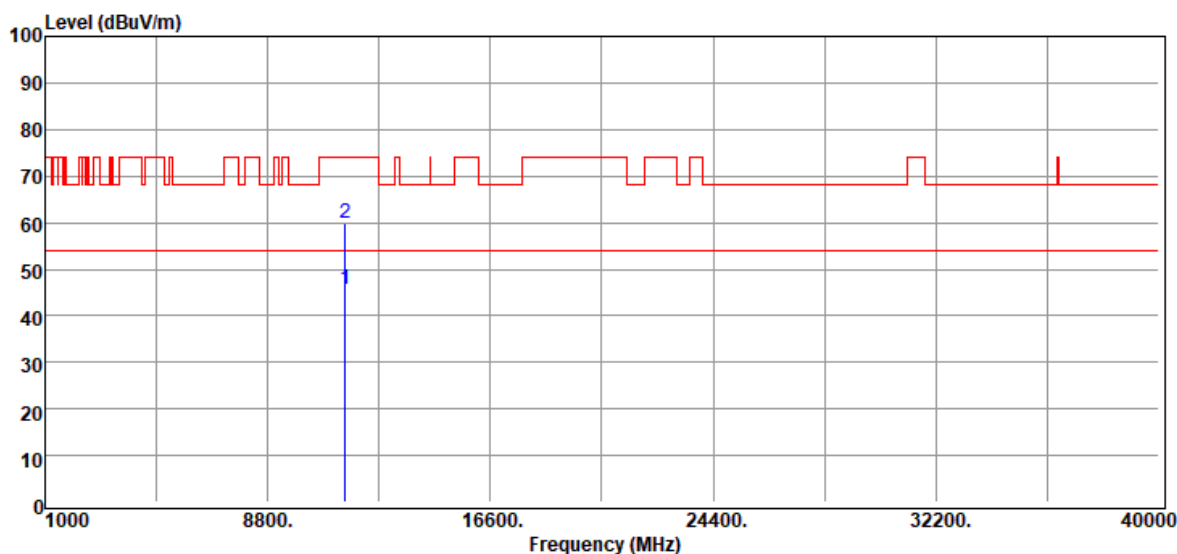
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Report Number :E2/2020/50085
 Operation Mode :802.11n40 / Band 4
 Test Frequency :5755 MHz
 Test Mode :TX CH LOW
 EUT Pol :E2 Plan

Test Date :2020-06-11
 Temp./Humi. :23.8/56
 Antenna Pol. :HORIZONTAL
 Engineer :Enzo



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	18.10	27.46	45.56	54.00	-8.44
11510.00	Peak	32.23	27.46	59.69	74.00	-14.31

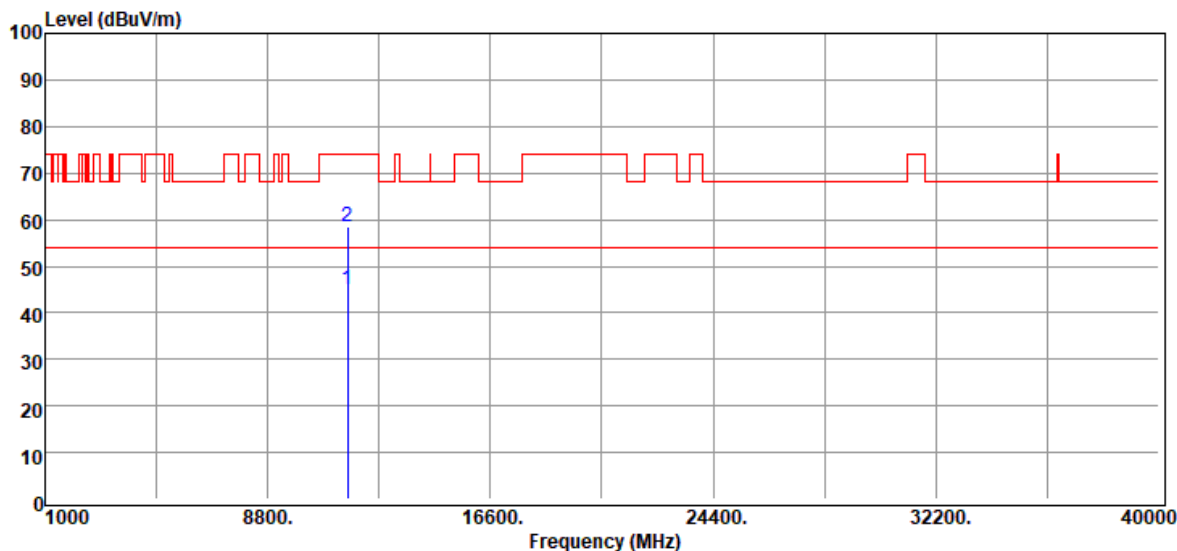
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Report Number :E2/2020/50085
Operation Mode :802.11n40 / Band 4
Test Frequency :5795 MHz
Test Mode :TX CH HIGH
EUT Pol :E2 Plan

Test Date :2020-06-11
Temp./Humi. :23.8/56
Antenna Pol. :VERTICAL
Engineer :Enzo



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	18.04	26.77	44.81	54.00	-9.19
11590.00	Peak	31.56	26.77	58.33	74.00	-15.67

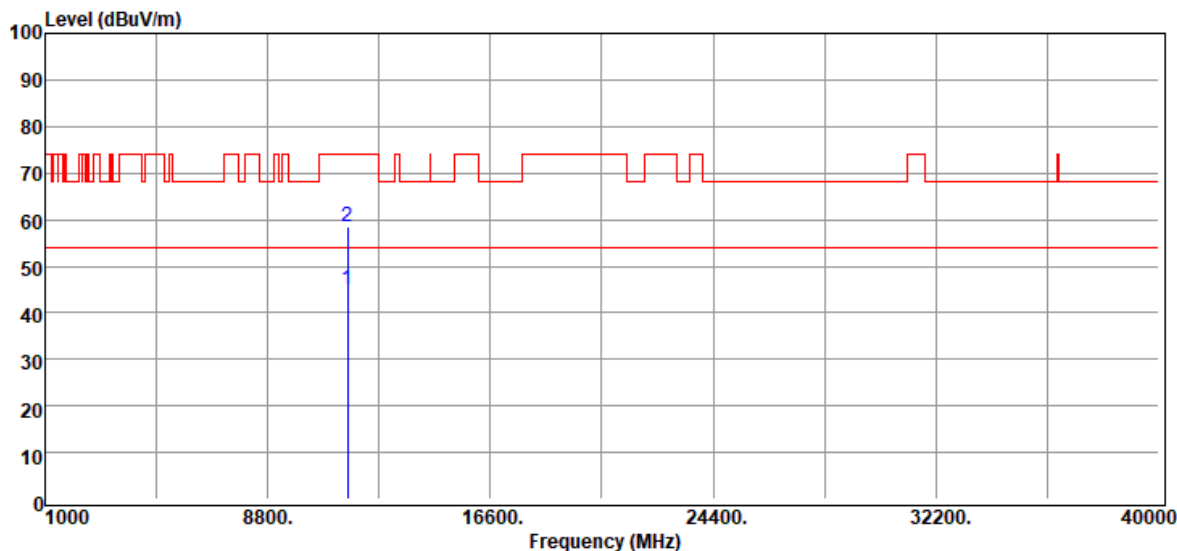
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Report Number :E2/2020/50085
Operation Mode :802.11n40 / Band 4
Test Frequency :5795 MHz
Test Mode :TX CH HIGH
EUT Pol :E2 Plan

Test Date :2020-06-11
Temp./Humi. :23.8/56
Antenna Pol. :HORIZONTAL
Engineer :Enzo



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	18.13	26.77	44.90	54.00	-9.10
11590.00	Peak	31.84	26.77	58.61	74.00	-15.39

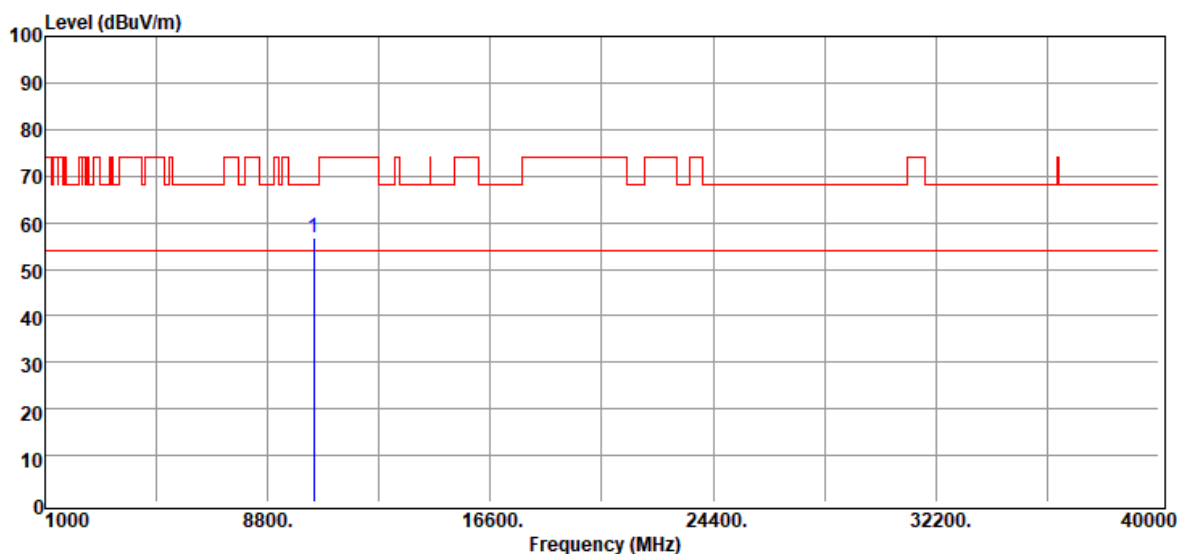
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Report Number :E2/2020/50085
Operation Mode :802.11ac80 / Band 1
Test Frequency :5210 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plan

Test Date :2020-06-11
Temp./Humi. :23.8/56
Antenna Pol. :VERTICAL
Engineer :Enzo



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	30.99	25.75	56.74	68.20	-11.46

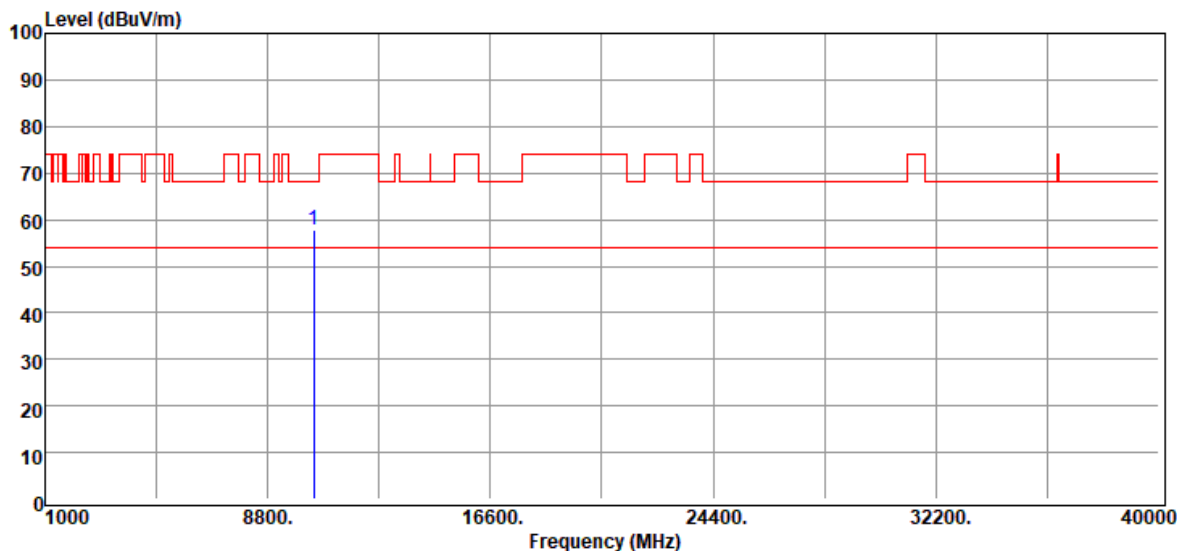
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Report Number :E2/2020/50085
Operation Mode :802.11ac80 / Band 1
Test Frequency :5210 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plan

Test Date :2020-06-11
Temp./Humi. :23.8/56
Antenna Pol. :HORIZONTAL
Engineer :Enzo



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	32.06	25.75	57.81	68.20	-10.39

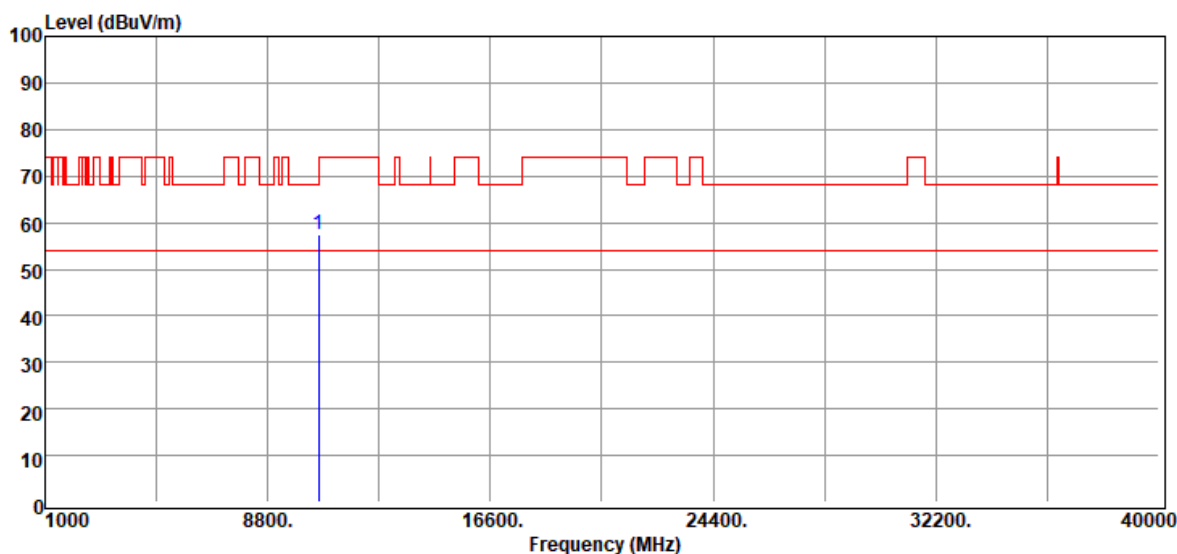
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Report Number :E2/2020/50085
Operation Mode :802.11ac80 / Band 2
Test Frequency :5290 MHz
Test Mode :TX CH HIGH
EUT Pol :E2 Plan

Test Date :2020-06-11
Temp./Humi. :23.8/56
Antenna Pol. :VERTICAL
Engineer :Enzo



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	31.32	25.98	57.30	68.20	-10.90

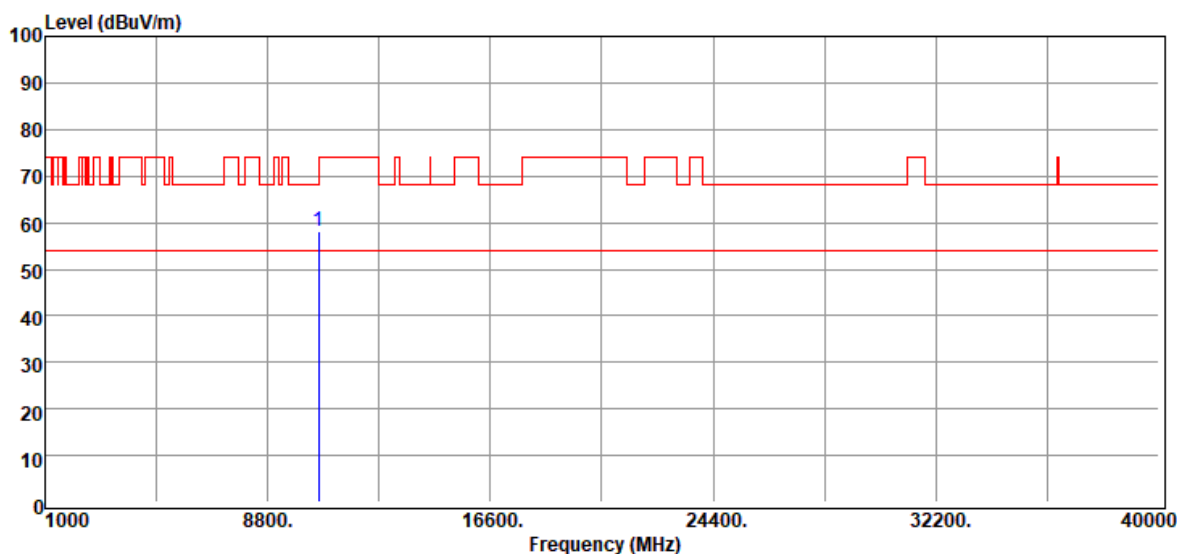
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Report Number :E2/2020/50085
Operation Mode :802.11ac80 / Band 2
Test Frequency :5290 MHz
Test Mode :TX CH HIGH
EUT Pol :E2 Plan

Test Date :2020-06-11
Temp./Humi. :23.8/56
Antenna Pol. :HORIZONTAL
Engineer :Enzo



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	32.02	25.98	58.00	68.20	-10.20

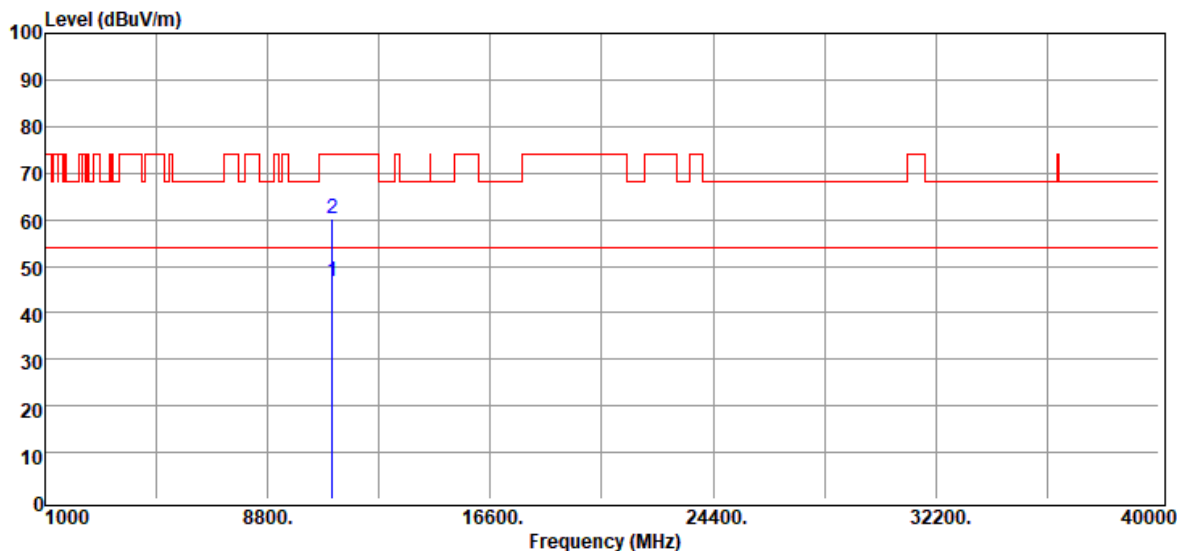
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Report Number :E2/2020/50085
Operation Mode :802.11ac80 / Band 3
Test Frequency :5530 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plan

Test Date :2020-06-11
Temp./Humi. :23.8/56
Antenna Pol. :VERTICAL
Engineer :Enzo



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	18.71	28.13	46.84	54.00	-7.16
11060.00	Peak	32.19	28.13	60.32	74.00	-13.68

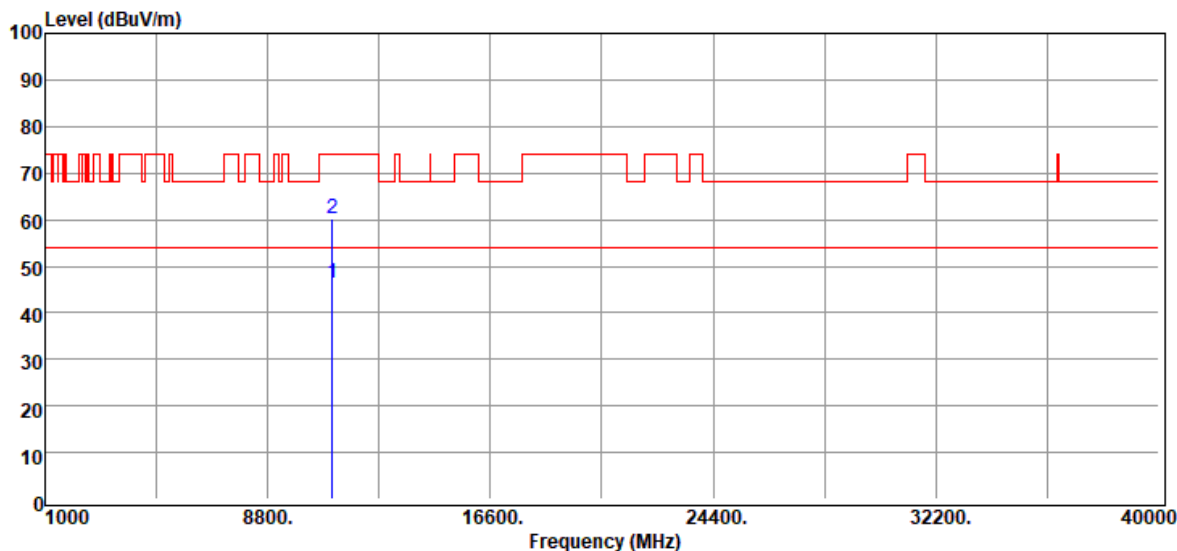
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Report Number :E2/2020/50085
Operation Mode :802.11ac80 / Band 3
Test Frequency :5530 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plan

Test Date :2020-06-11
Temp./Humi. :23.8/56
Antenna Pol. :HORIZONTAL
Engineer :Enzo



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	18.35	28.13	46.48	54.00	-7.52
11060.00	Peak	32.17	28.13	60.30	74.00	-13.70

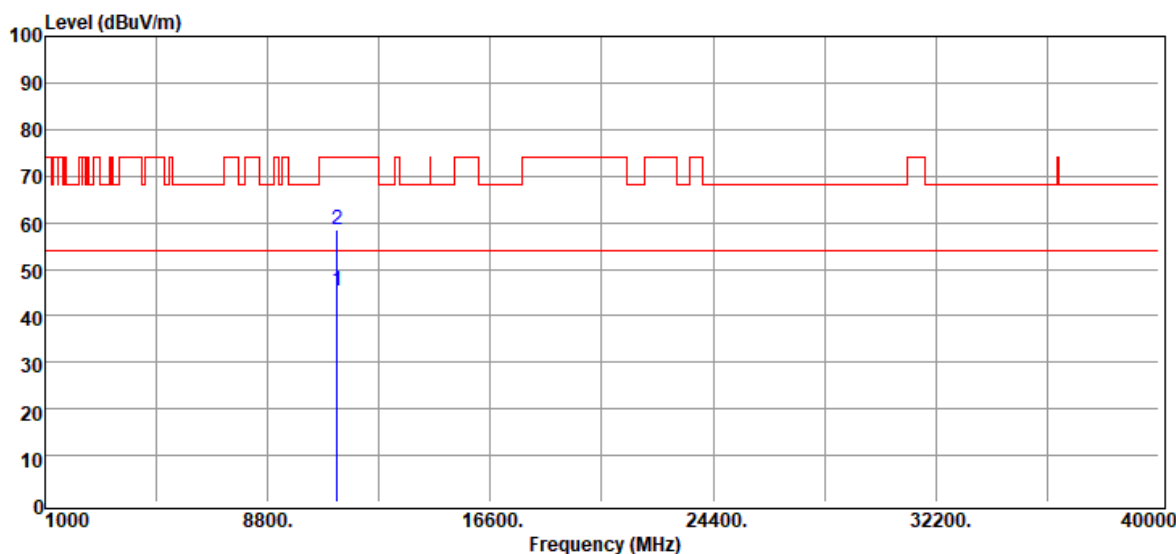
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Report Number :E2/2020/50085
Operation Mode :802.11ac80 / Band 3
Test Frequency :5610 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Date :2020-06-11
Temp./Humi. :23.8/56
Antenna Pol. :VERTICAL
Engineer :Enzo



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	18.62	26.85	45.47	54.00	-8.53
11220.00	Peak	31.58	26.85	58.43	74.00	-15.57

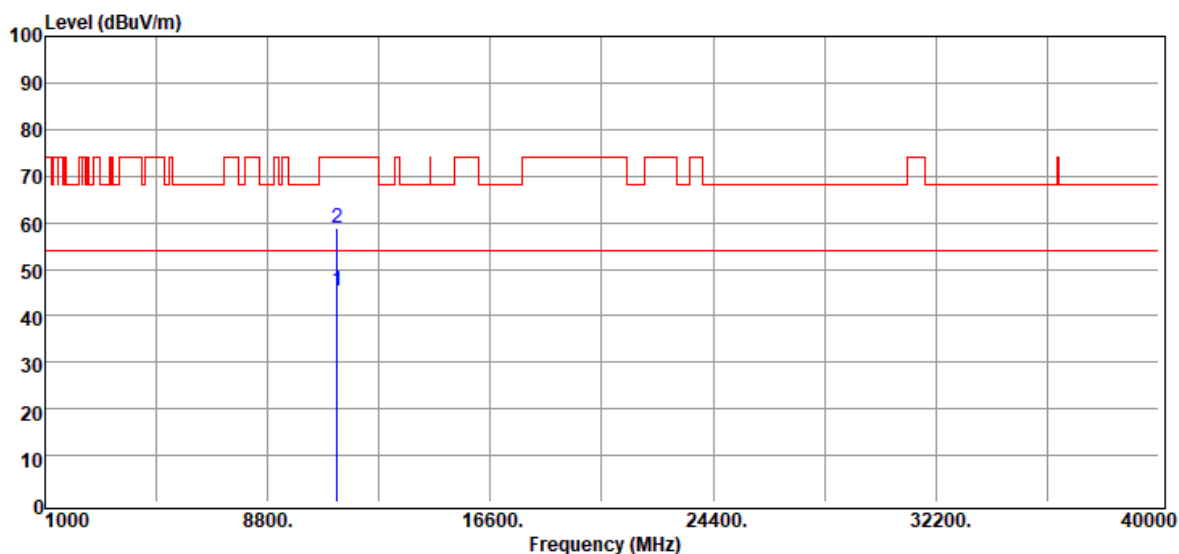
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Report Number :E2/2020/50085
Operation Mode :802.11ac80 / Band 3
Test Frequency :5610 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Date :2020-06-11
Temp./Humi. :23.8/56
Antenna Pol. :HORIZONTAL
Engineer :Enzo



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	18.39	26.85	45.24	54.00	-8.76
11220.00	Peak	31.81	26.85	58.66	74.00	-15.34

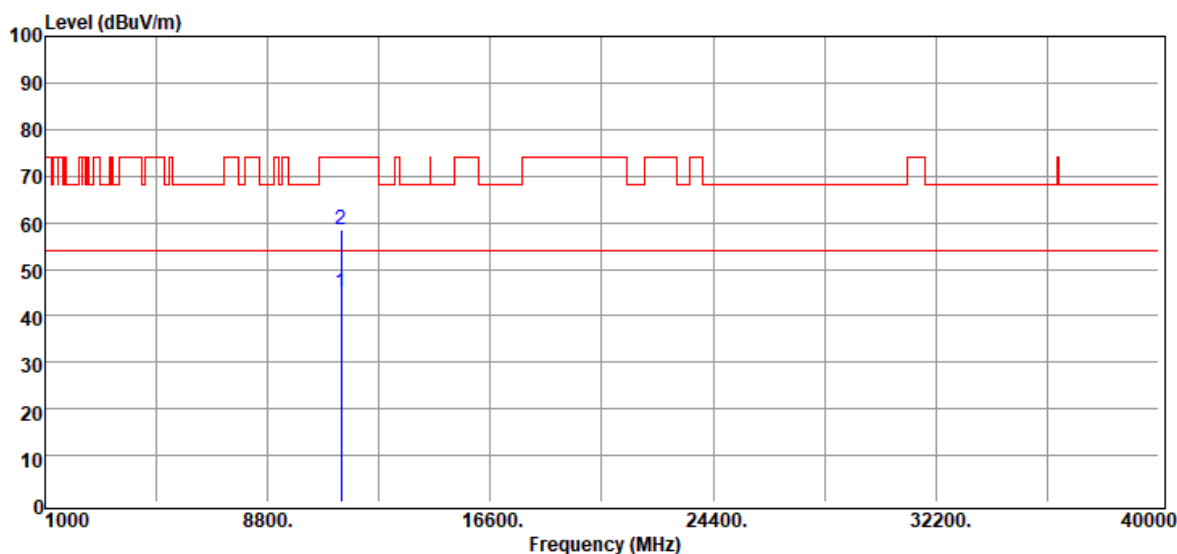
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Report Number :E2/2020/50085
Operation Mode :802.11ac80 / Band 3
Test Frequency :5690 MHz
Test Mode :TX CH HIGH
EUT Pol :E2 Plan

Test Date :2020-06-11
Temp./Humi. :23.8/56
Antenna Pol. :VERTICAL
Engineer :Enzo



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	18.33	26.76	45.09	54.00	-8.91
11380.00	Peak	31.89	26.76	58.65	74.00	-15.35

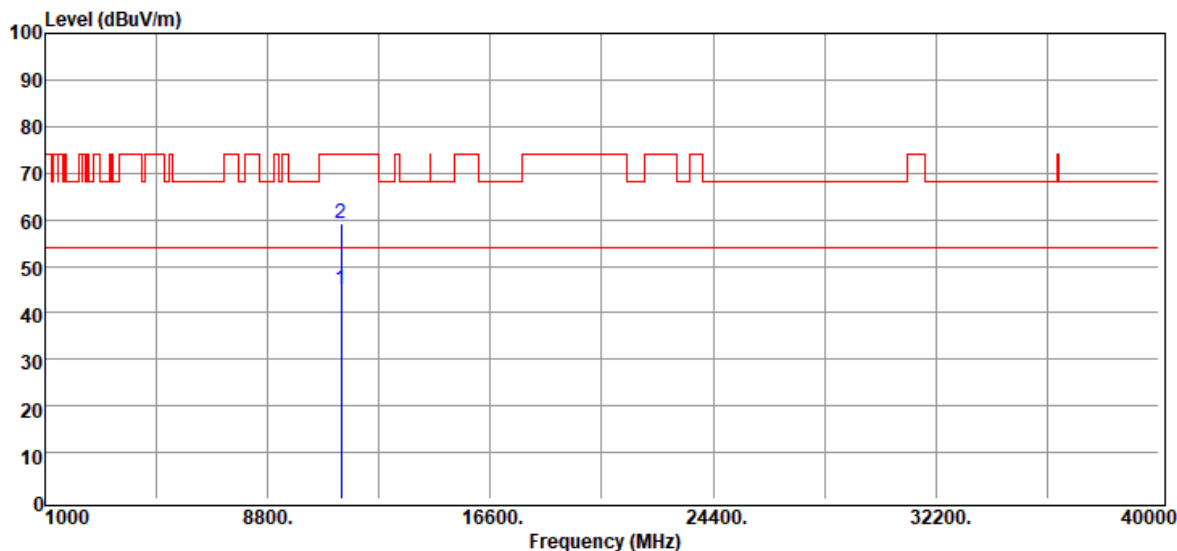
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Report Number :E2/2020/50085
Operation Mode :802.11ac80 / Band 3
Test Frequency :5690 MHz
Test Mode :TX CH HIGH
EUT Pol :E2 Plan

Test Date :2020-06-11
Temp./Humi. :23.8/56
Antenna Pol. :HORIZONTAL
Engineer :Enzo



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	18.28	26.76	45.04	54.00	-8.96
11380.00	Peak	32.27	26.76	59.03	74.00	-14.97

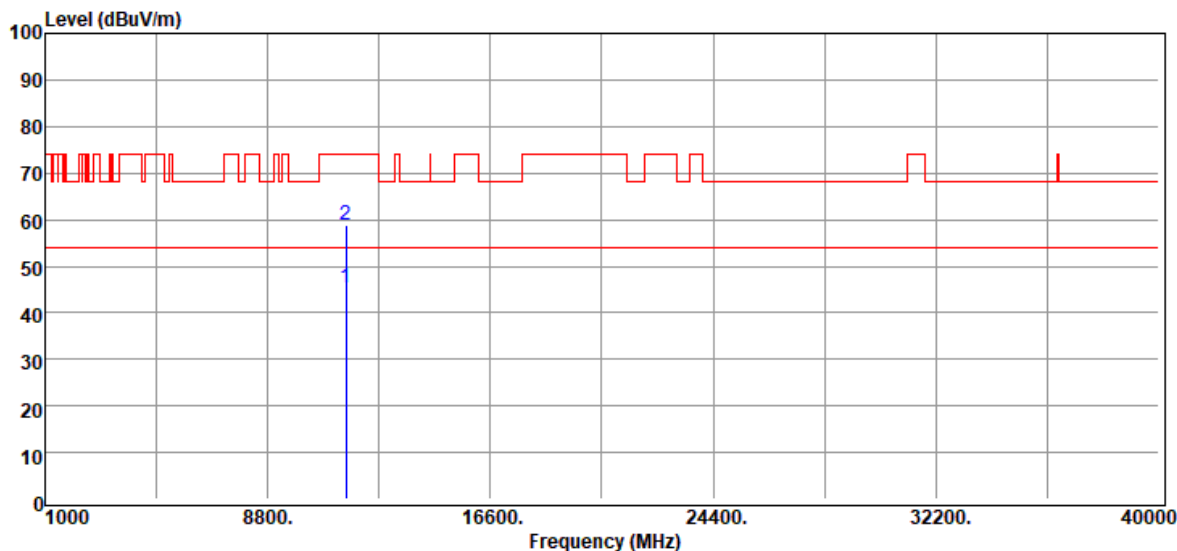
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Report Number :E2/2020/50085
Operation Mode :802.11ac80 / Band 4
Test Frequency :5775 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plan

Test Date :2020-06-11
Temp./Humi. :23.8/56
Antenna Pol. :VERTICAL
Engineer :Enzo



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	18.34	27.11	45.45	54.00	-8.55
11550.00	Peak	31.59	27.11	58.70	74.00	-15.30

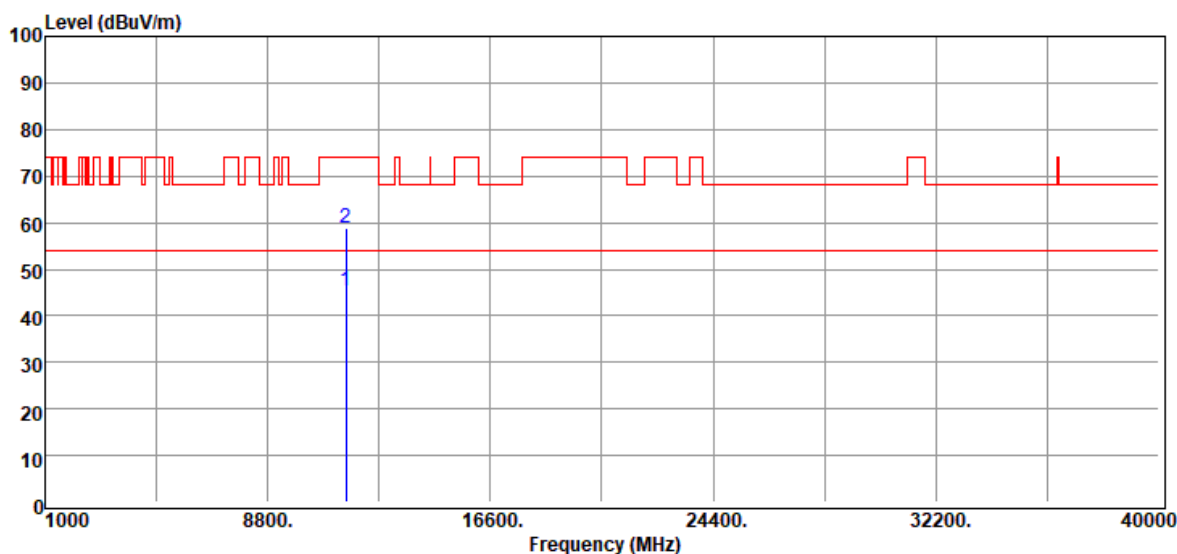
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Report Number :E2/2020/50085
Operation Mode :802.11ac80 / Band 4
Test Frequency :5775 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plan

Test Date :2020-06-11
Temp./Humi. :23.8/56
Antenna Pol. :HORIZONTAL
Engineer :Enzo



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	18.22	27.11	45.33	54.00	-8.67
11550.00	Peak	31.62	27.11	58.73	74.00	-15.27

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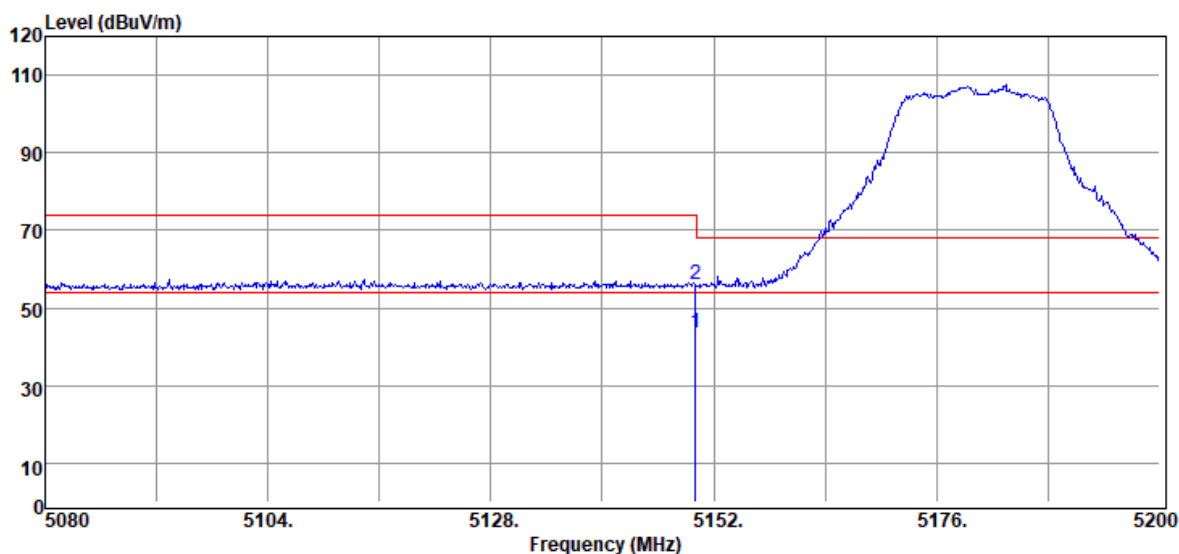
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11.7.3 Band edge falling to restricted band

Report Number :E2/2020/50085
Operation Mode :802.11a / Band 1
Test Frequency :5180 MHz
Test Mode :BE CH LOW
EUT Pol :E2 Plan

Test Date :2020-06-10
Temp./Humi. :22.2/57
Antenna Pol. :VERTICAL
Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5150.00	Average	28.64	15.12	43.76	54.00	-10.24
5150.00	Peak	40.88	15.12	56.00	74.00	-18.00

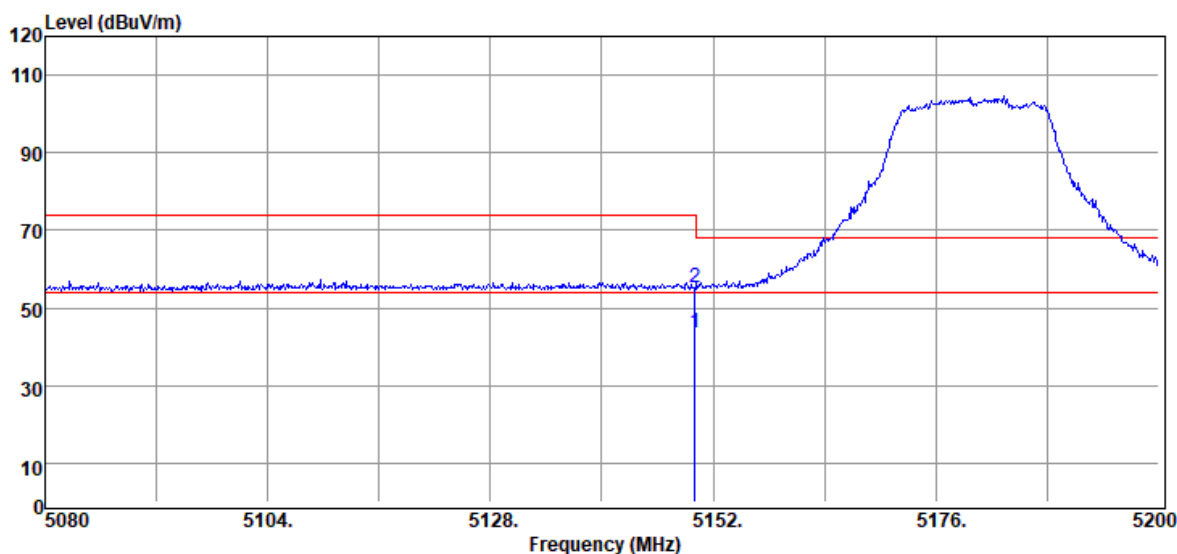
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Report Number :E2/2020/50085
Operation Mode :802.11a / Band 1
Test Frequency :5180 MHz
Test Mode :BE CH LOW
EUT Pol :E2 Plan

Test Date :2020-06-10
Temp./Humi. :22.2/57
Antenna Pol. :HORIZONTAL
Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5150.00	Average	28.39	15.12	43.51	54.00	-10.49
5150.00	Peak	40.25	15.12	55.37	74.00	-18.63

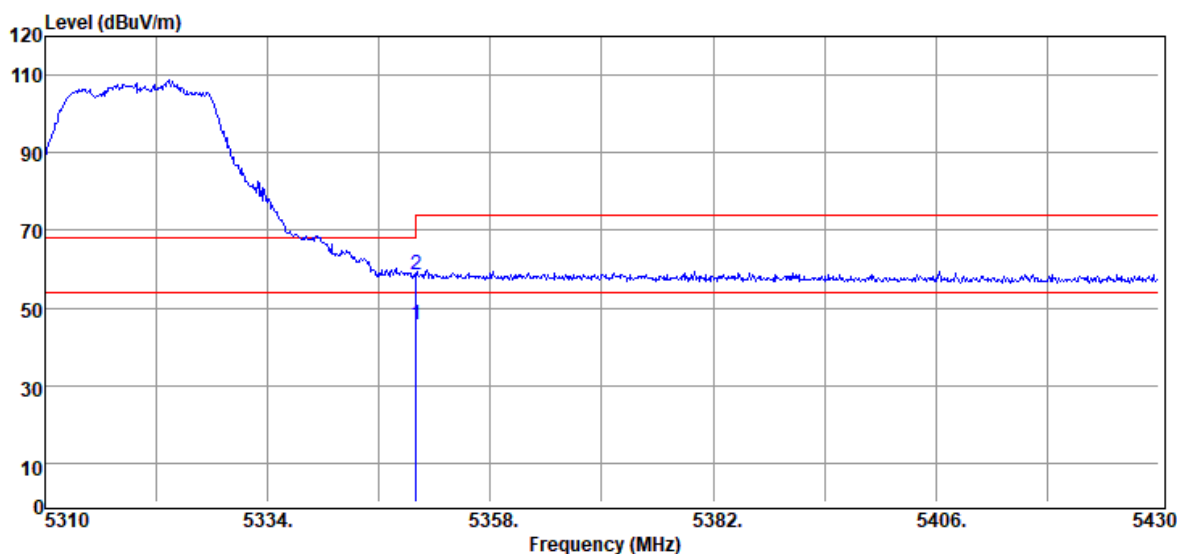
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Report Number :E2/2020/50085
 Operation Mode :802.11a / Band 2
 Test Frequency :5320 MHz
 Test Mode :BE CH HIGH
 EUT Pol :E2 Plan

Test Date :2020-06-10
 Temp./Humi. :22.2/57
 Antenna Pol. :VERTICAL
 Engineer :Enzo



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	29.98	15.60	45.58	54.00	-8.42
5350.00	Peak	42.76	15.60	58.36	74.00	-15.64

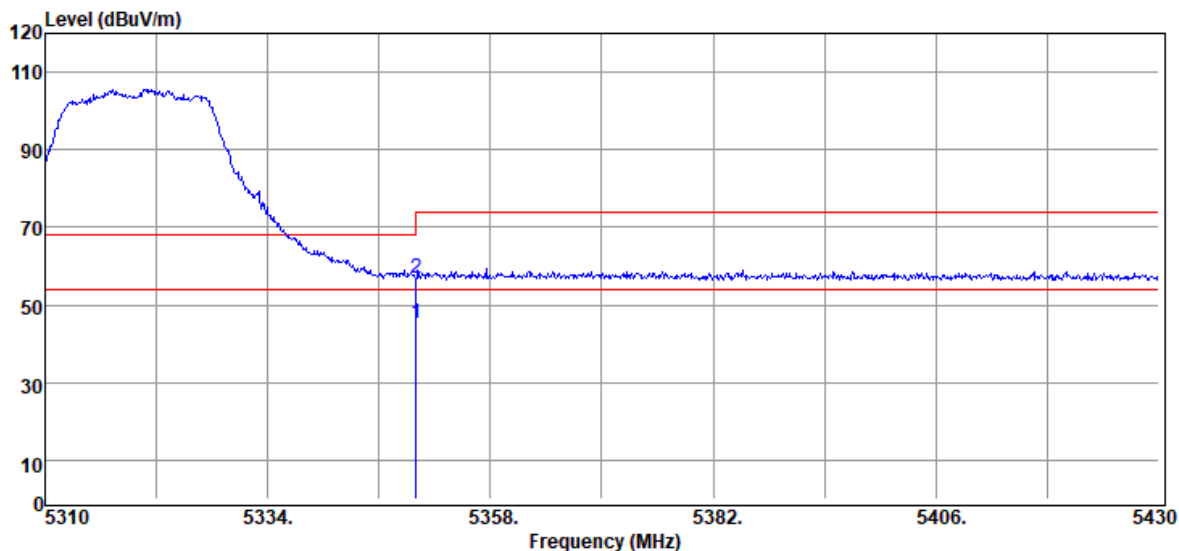
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Report Number :E2/2020/50085
Operation Mode :802.11a / Band 2
Test Frequency :5320 MHz
Test Mode :BE CH HIGH
EUT Pol :E2 Plan

Test Date :2020-06-10
Temp./Humi. :22.2/57
Antenna Pol. :HORIZONTAL
Engineer :Enzo



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	29.81	15.60	45.41	54.00	-8.59
5350.00	Peak	41.32	15.60	56.92	74.00	-17.08

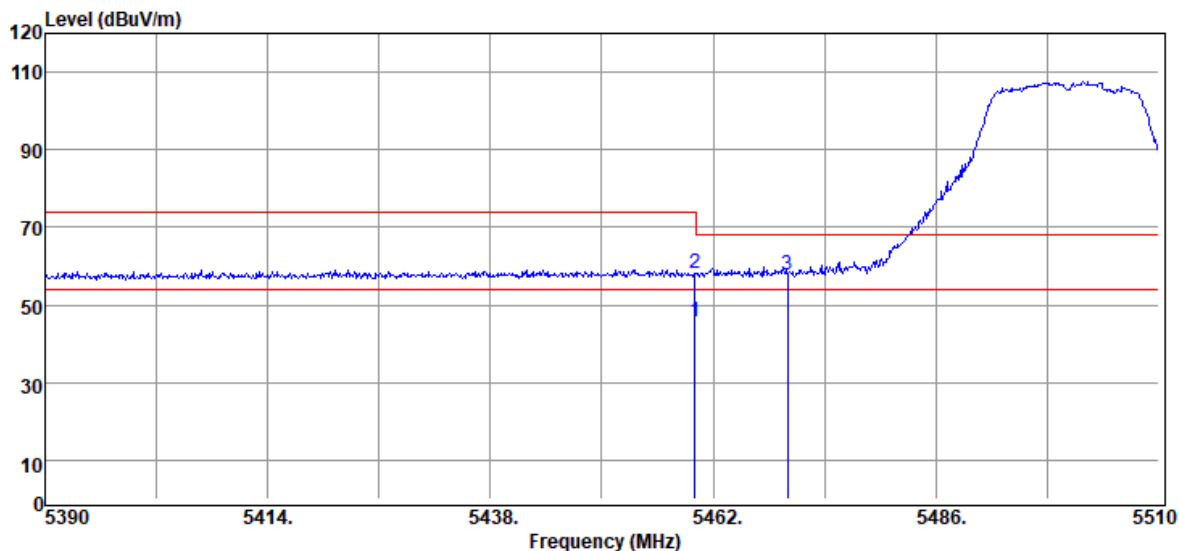
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Report Number :E2/2020/50085
Operation Mode :802.11a / Band 3
Test Frequency :5500 MHz
Test Mode :BE CH LOW
EUT Pol :E2 Plan

Test Date :2020-06-10
Temp./Humi. :22.2/57
Antenna Pol. :VERTICAL
Engineer :Enzo



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	29.84	15.90	45.74	54.00	-8.26
5460.00	Peak	42.37	15.90	58.27	74.00	-15.73
5470.00	Peak	41.97	15.89	57.86	68.20	-10.34

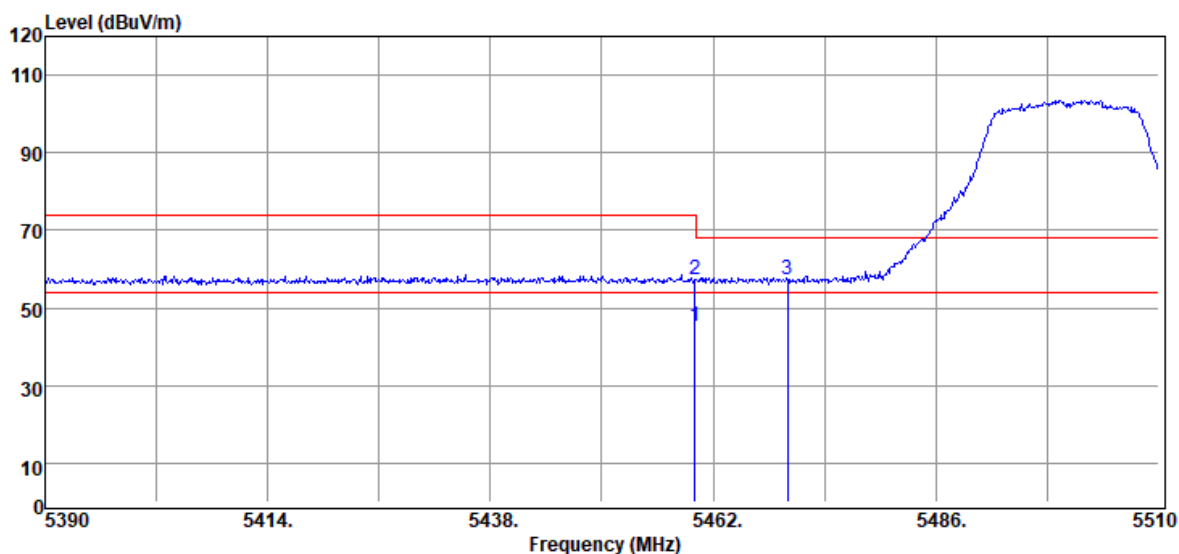
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Report Number :E2/2020/50085
 Operation Mode :802.11a / Band 3
 Test Frequency :5500 MHz
 Test Mode :BE CH LOW
 EUT Pol :E2 Plan

Test Date :2020-06-10
 Temp./Humi. :22.2/57
 Antenna Pol. :HORIZONTAL
 Engineer :Enzo



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	29.19	15.90	45.09	54.00	-8.91
5460.00	Peak	41.35	15.90	57.25	74.00	-16.75
5470.00	Peak	41.28	15.89	57.17	68.20	-11.03

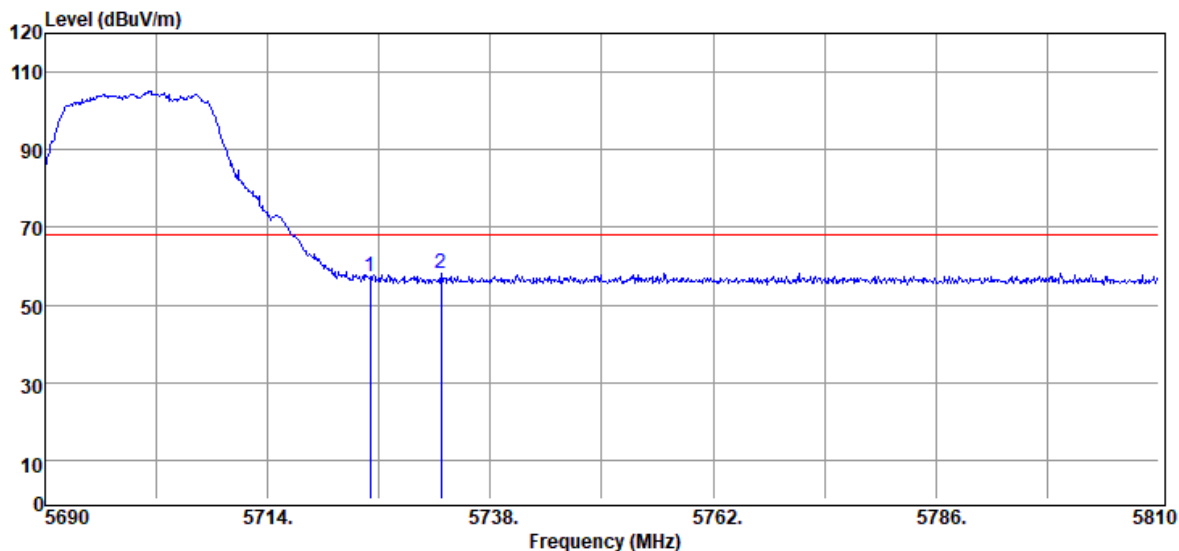
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Report Number :E2/2020/50085
Operation Mode :802.11a / Band 3
Test Frequency :5700 MHz
Test Mode :BE CH HIGH
EUT Pol :E2 Plan

Test Date :2020-06-10
Temp./Humi. :22.2/57
Antenna Pol. :VERTICAL
Engineer :Enzo



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	40.95	16.44	57.39	68.20	-10.81
5732.72	Peak	41.77	16.50	58.27	68.20	-9.93

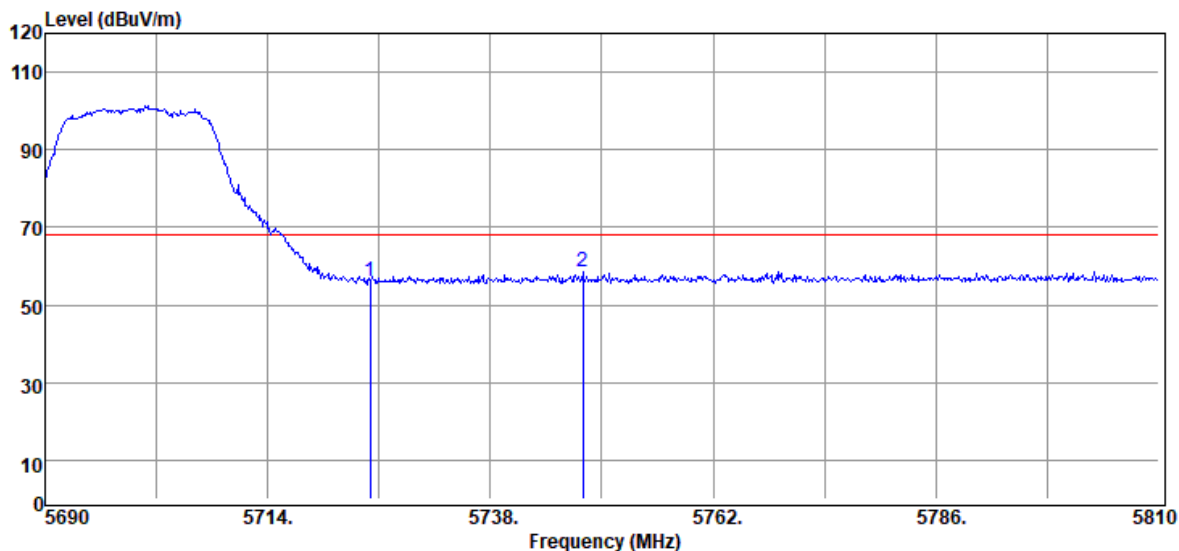
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Report Number :E2/2020/50085
Operation Mode :802.11a / Band 3
Test Frequency :5700 MHz
Test Mode :BE CH HIGH
EUT Pol :E2 Plan

Test Date :2020-06-10
Temp./Humi. :22.2/57
Antenna Pol. :HORIZONTAL
Engineer :Enzo



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	39.53	16.44	55.97	68.20	-12.23
5747.96	Peak	41.94	16.62	58.56	68.20	-9.64

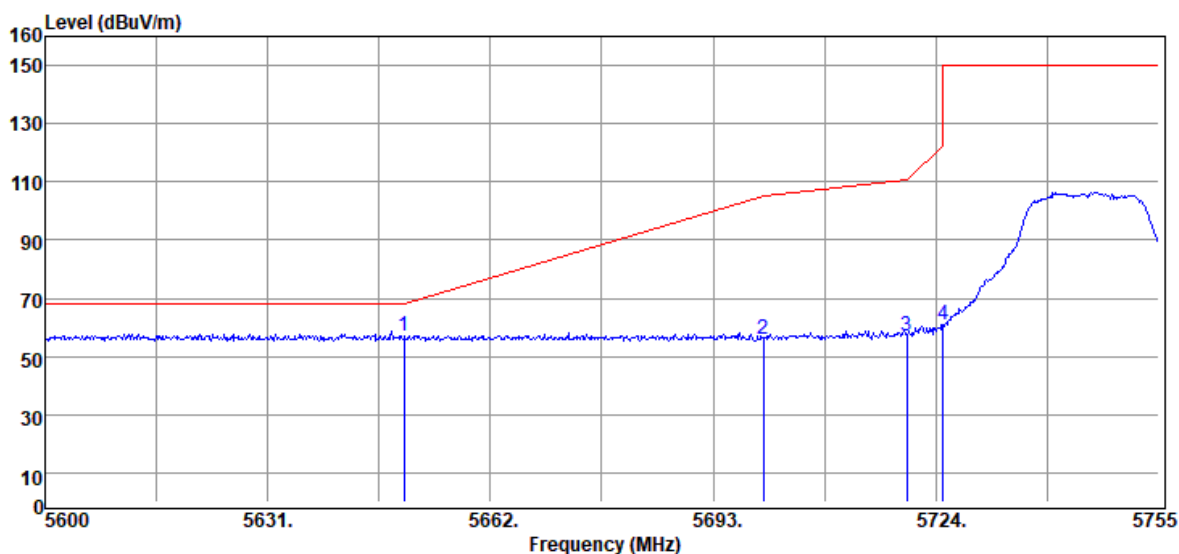
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Report Number :E2/2020/50085
Operation Mode :802.11a / Band 4
Test Frequency :5745 MHz
Test Mode :BE CH LOW
EUT Pol :E2 Plan

Test Date :2020-06-10
Temp./Humi. :22.2/57
Antenna Pol. :VERTICAL
Engineer :Enzo



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	40.67	16.08	56.75	68.20	-11.45
5700.00	Peak	39.70	16.23	55.93	105.20	-49.27
5720.00	Peak	40.58	16.39	56.97	110.80	-53.83
5725.00	Peak	44.51	16.44	60.95	122.20	-61.25

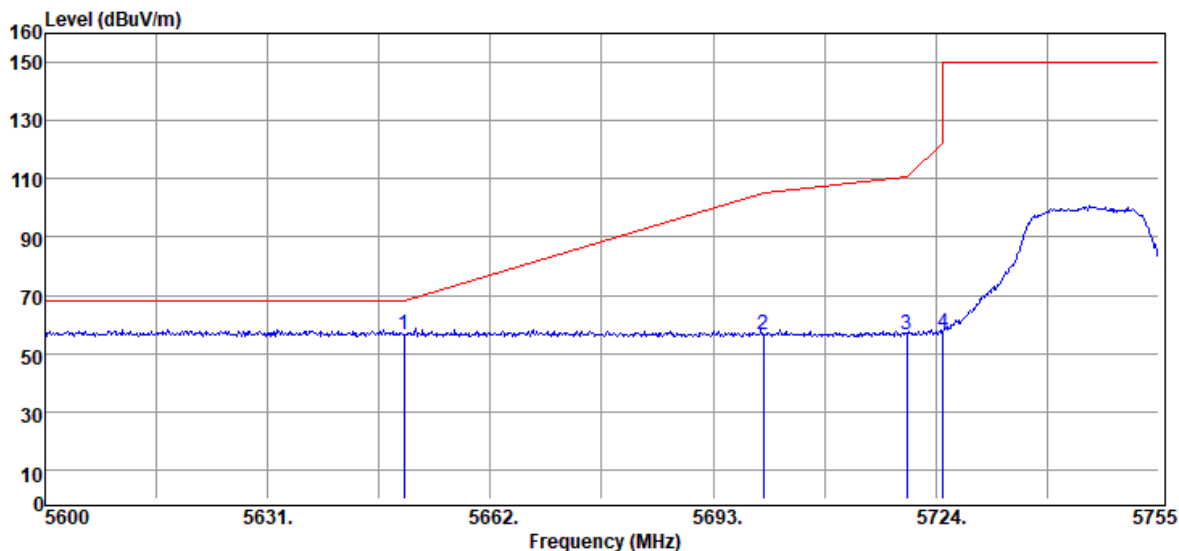
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Report Number :E2/2020/50085
Operation Mode :802.11a / Band 4
Test Frequency :5745 MHz
Test Mode :BE CH LOW
EUT Pol :E2 Plan

Test Date :2020-06-10
Temp./Humi. :22.2/57
Antenna Pol. :HORIZONTAL
Engineer :Enzo



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	40.26	16.08	56.34	68.20	-11.86
5700.00	Peak	40.03	16.23	56.26	105.20	-48.94
5720.00	Peak	39.98	16.39	56.37	110.80	-54.43
5725.00	Peak	40.68	16.44	57.12	122.20	-65.08

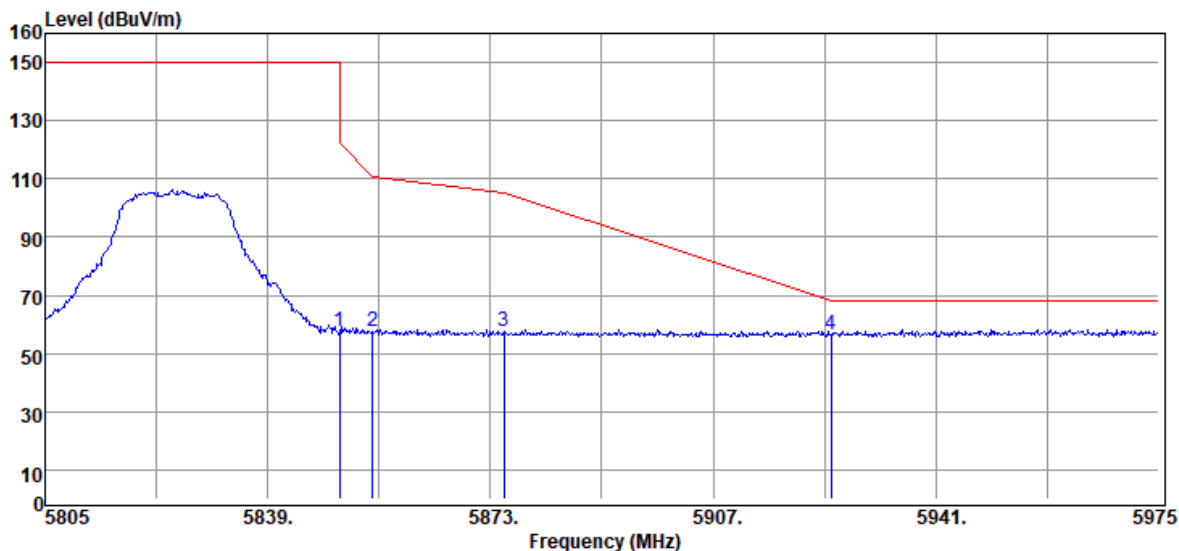
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Report Number :E2/2020/50085
Operation Mode :802.11a / Band 4
Test Frequency :5825 MHz
Test Mode :BE CH HIGH
EUT Pol :E2 Plan

Test Date :2020-06-10
Temp./Humi. :22.2/57
Antenna Pol. :VERTICAL
Engineer :Enzo



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	40.61	16.85	57.46	122.20	-64.74
5855.00	Peak	40.60	16.84	57.44	110.80	-53.36
5875.00	Peak	40.69	16.77	57.46	105.20	-47.74
5925.00	Peak	39.34	16.94	56.28	68.20	-11.92

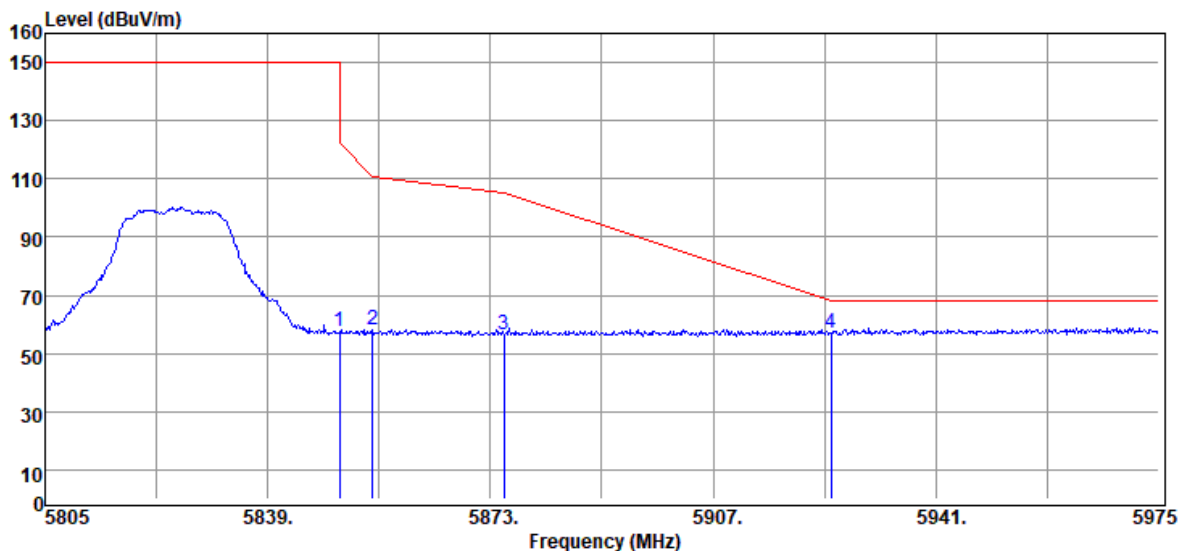
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Report Number :E2/2020/50085
Operation Mode :802.11a / Band 4
Test Frequency :5825 MHz
Test Mode :BE CH HIGH
EUT Pol :E2 Plan

Test Date :2020-06-10
Temp./Humi. :22.2/57
Antenna Pol. :HORIZONTAL
Engineer :Enzo



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	40.61	16.85	57.46	122.20	-64.74
5855.00	Peak	41.35	16.84	58.19	110.80	-52.61
5875.00	Peak	39.93	16.77	56.70	105.20	-48.50
5925.00	Peak	40.00	16.94	56.94	68.20	-11.26

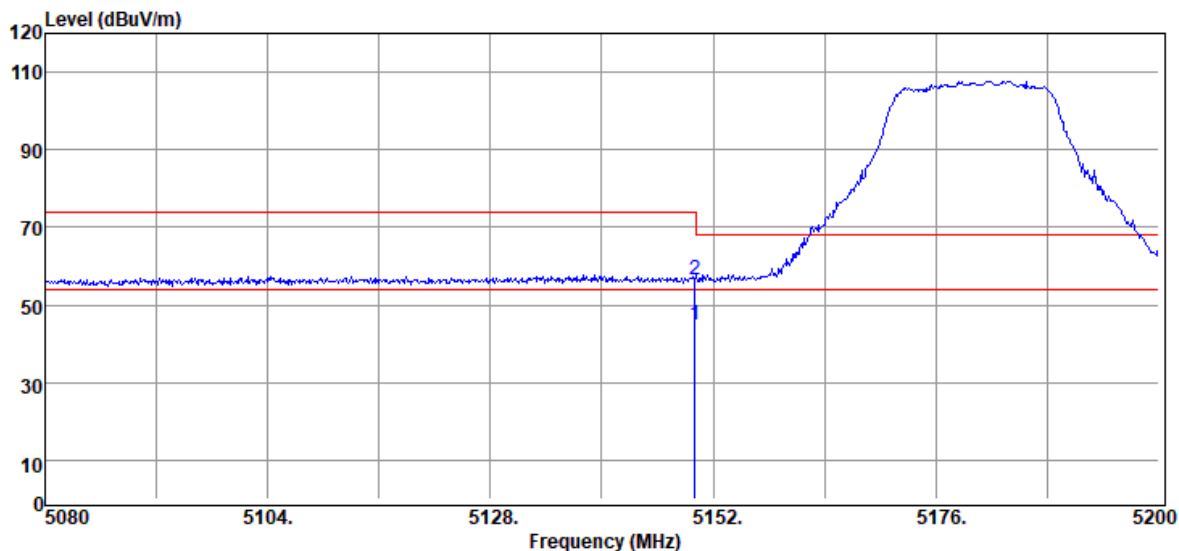
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Report Number :E2/2020/50085
Operation Mode :802.11n20 / Band 1
Test Frequency :5180 MHz
Test Mode :BE CH LOW
EUT Pol :E2 Plan

Test Date :2020-06-10
Temp./Humi. :22.2/57
Antenna Pol. :VERTICAL
Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5150.00	Average	29.52	15.12	44.64	54.00	-9.36
5150.00	Peak	41.54	15.12	56.66	74.00	-17.34

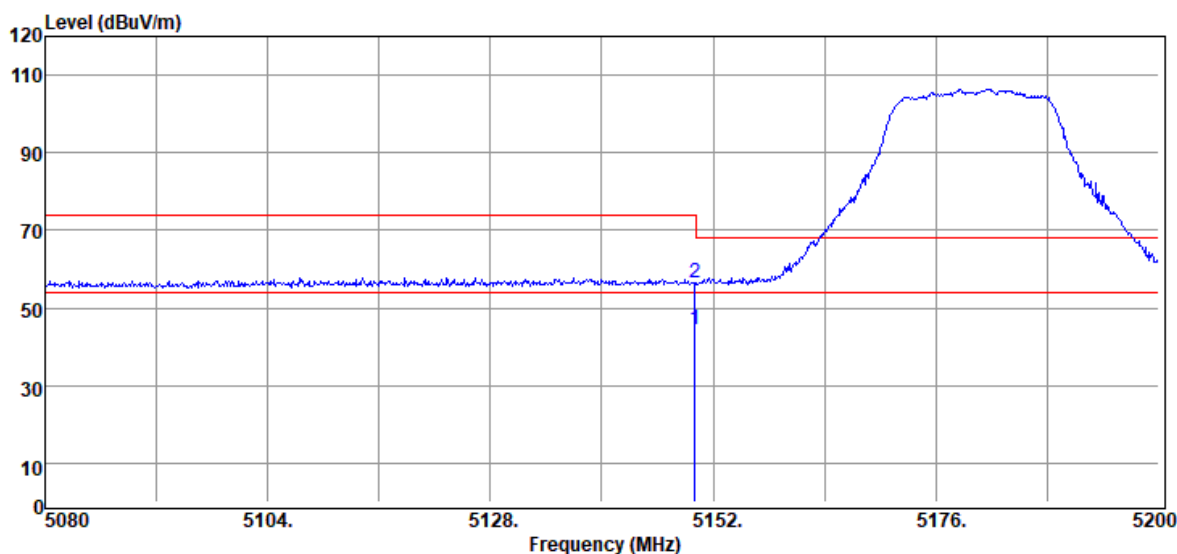
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Report Number :E2/2020/50085
 Operation Mode :802.11n20 / Band 1
 Test Frequency :5180 MHz
 Test Mode :BE CH LOW
 EUT Pol :E2 Plan

Test Date :2020-06-10
 Temp./Humi. :22.2/57
 Antenna Pol. :HORIZONTAL
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5150.00	Average	29.32	15.12	44.44	54.00	-9.56
5150.00	Peak	41.33	15.12	56.45	74.00	-17.55

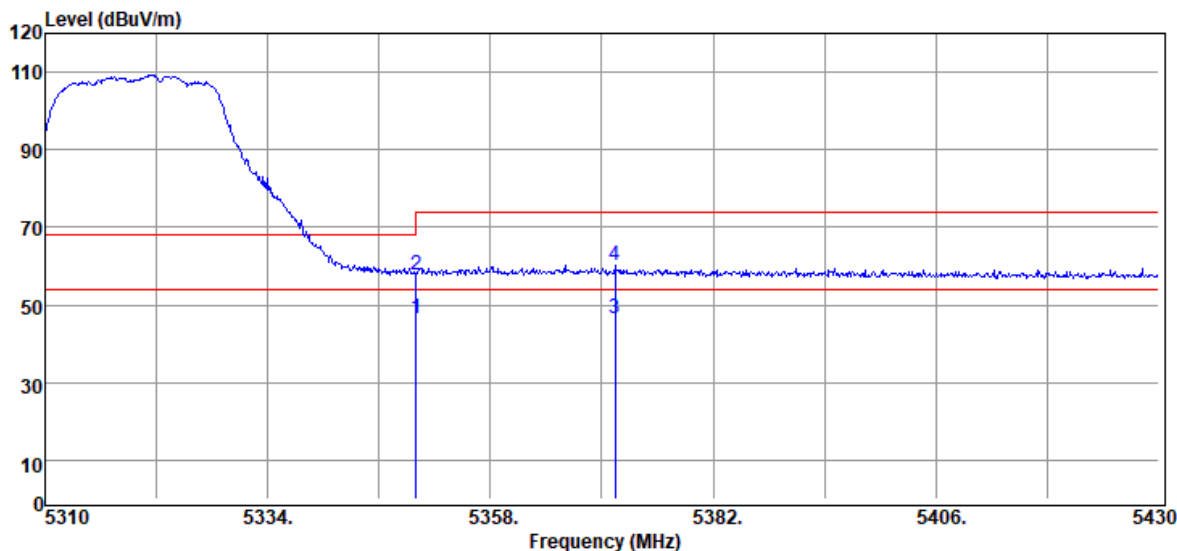
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Report Number :E2/2020/50085
Operation Mode :802.11n20 / Band 2
Test Frequency :5320 MHz
Test Mode :BE CH HIGH
EUT Pol :E2 Plan

Test Date :2020-06-10
Temp./Humi. :22.2/57
Antenna Pol. :VERTICAL
Engineer :Enzo



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	30.88	15.60	46.48	54.00	-7.52
5350.00	Peak	42.24	15.60	57.84	74.00	-16.16
5371.44	Average	30.63	15.76	46.39	54.00	-7.61
5371.44	Peak	44.56	15.76	60.32	74.00	-13.68

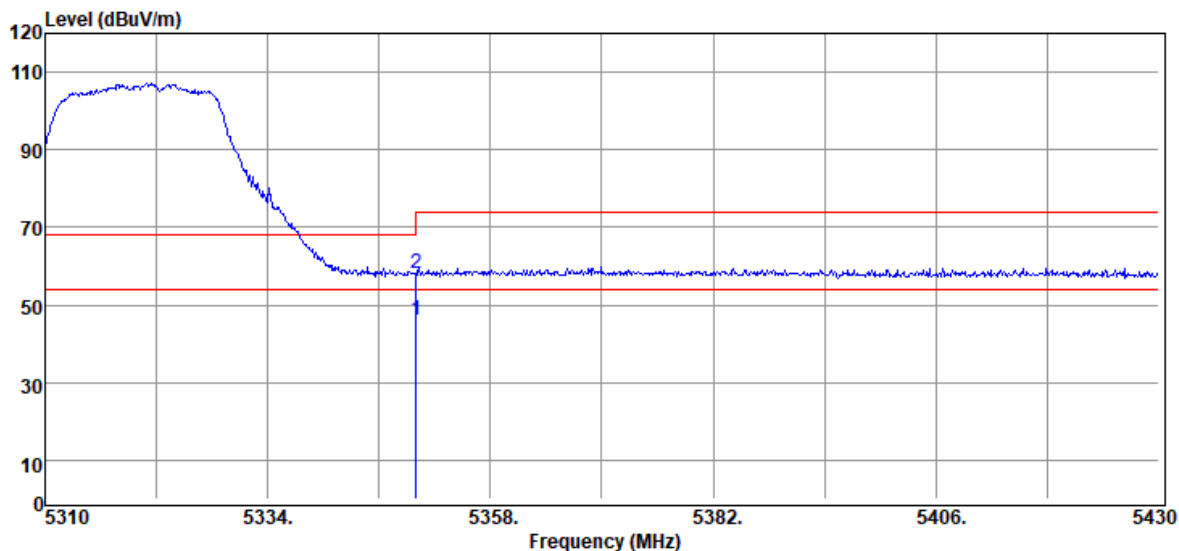
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Report Number :E2/2020/50085
 Operation Mode :802.11n20 / Band 2
 Test Frequency :5320 MHz
 Test Mode :BE CH HIGH
 EUT Pol :E2 Plan

Test Date :2020-06-10
 Temp./Humi. :22.2/57
 Antenna Pol. :HORIZONTAL
 Engineer :Enzo



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	30.29	15.60	45.89	54.00	-8.11
5350.00	Peak	42.67	15.60	58.27	74.00	-15.73

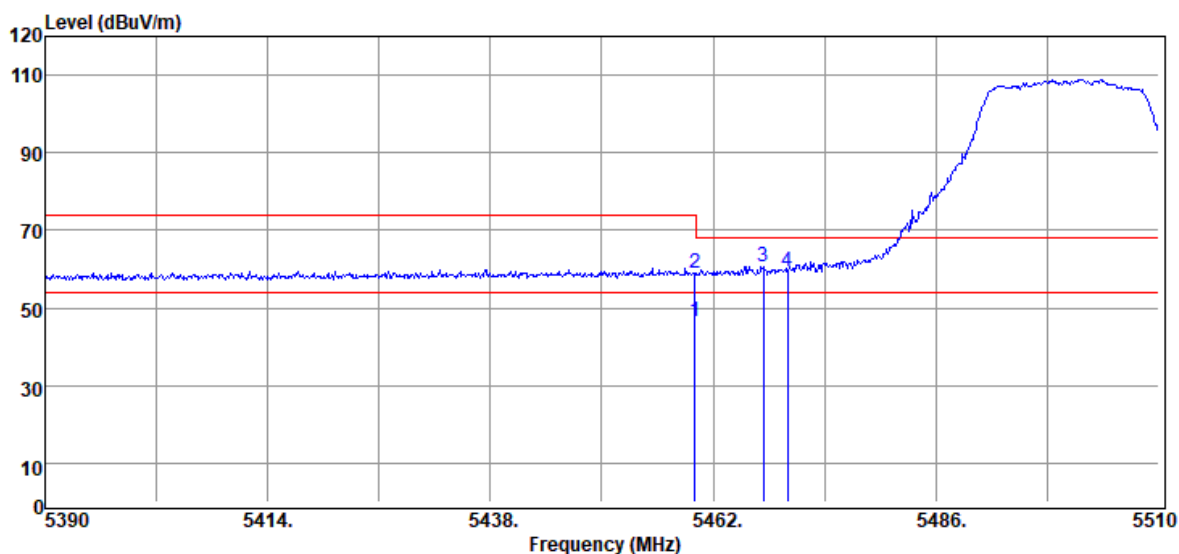
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Report Number :E2/2020/50085
Operation Mode :802.11n20 / Band 3
Test Frequency :5500 MHz
Test Mode :BE CH LOW
EUT Pol :E2 Plan

Test Date :2020-06-10
Temp./Humi. :22.2/57
Antenna Pol. :VERTICAL
Engineer :Enzo



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	30.65	15.90	46.55	54.00	-7.45
5460.00	Peak	43.10	15.90	59.00	74.00	-15.00
5467.40	Peak	44.91	15.89	60.80	68.20	-7.40
5470.00	Peak	43.62	15.89	59.51	68.20	-8.69

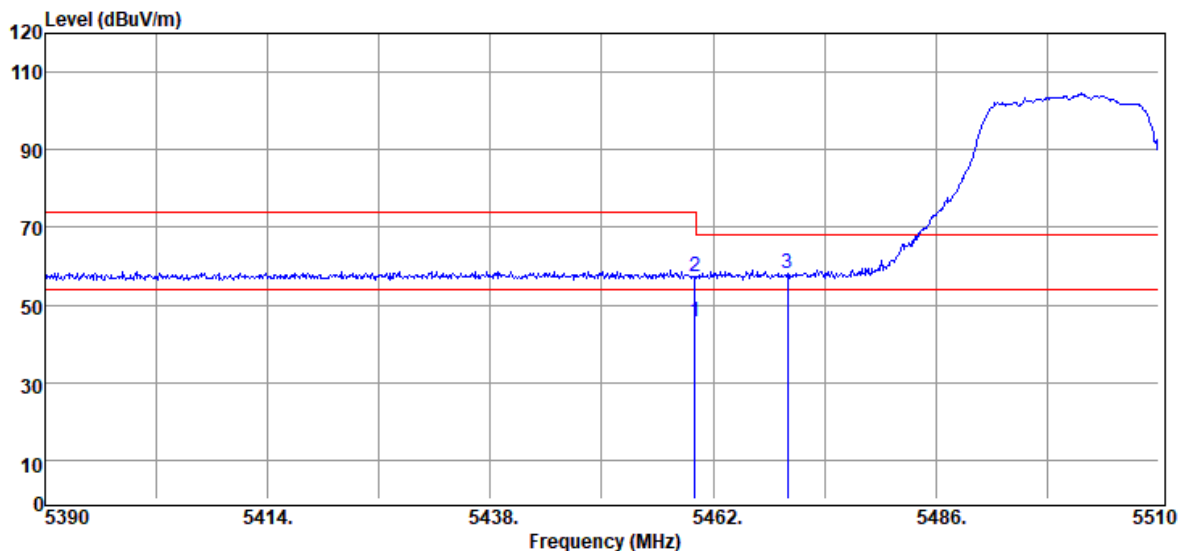
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Report Number :E2/2020/50085
Operation Mode :802.11n20 / Band 3
Test Frequency :5500 MHz
Test Mode :BE CH LOW
EUT Pol :E2 Plan

Test Date :2020-06-10
Temp./Humi. :22.2/57
Antenna Pol. :HORIZONTAL
Engineer :Enzo



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	29.93	15.90	45.83	54.00	-8.17
5460.00	Peak	41.28	15.90	57.18	74.00	-16.82
5470.00	Peak	42.14	15.89	58.03	68.20	-10.17

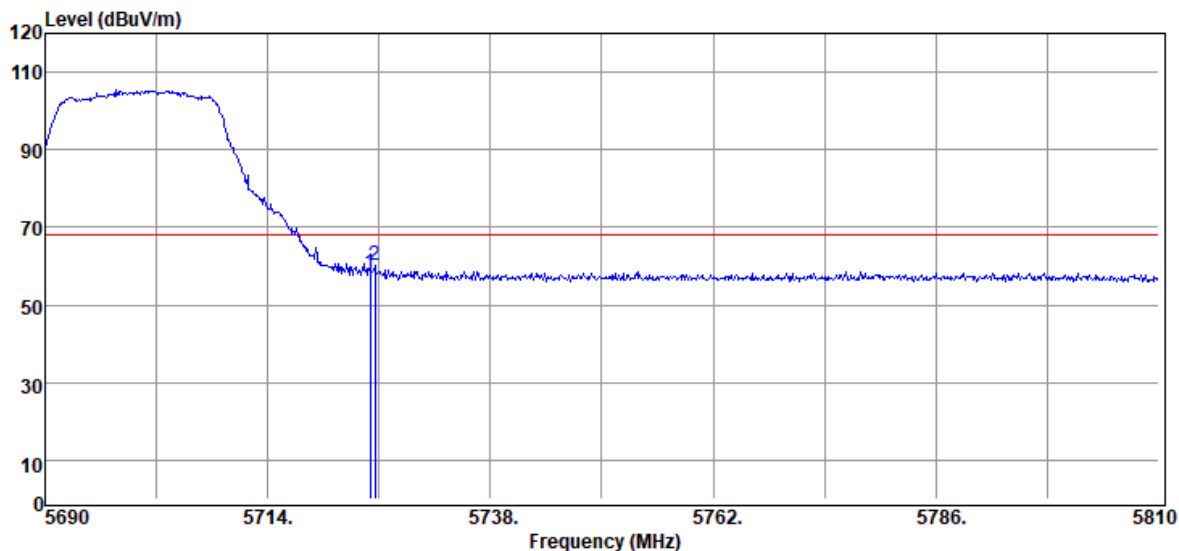
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Report Number :E2/2020/50085
 Operation Mode :802.11n20 / Band 3
 Test Frequency :5700 MHz
 Test Mode :BE CH HIGH
 EUT Pol :E2 Plan

Test Date :2020-06-10
 Temp./Humi. :22.2/57
 Antenna Pol. :VERTICAL
 Engineer :Enzo



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	41.71	16.44	58.15	68.20	-10.05
5725.52	Peak	43.82	16.44	60.26	68.20	-7.94

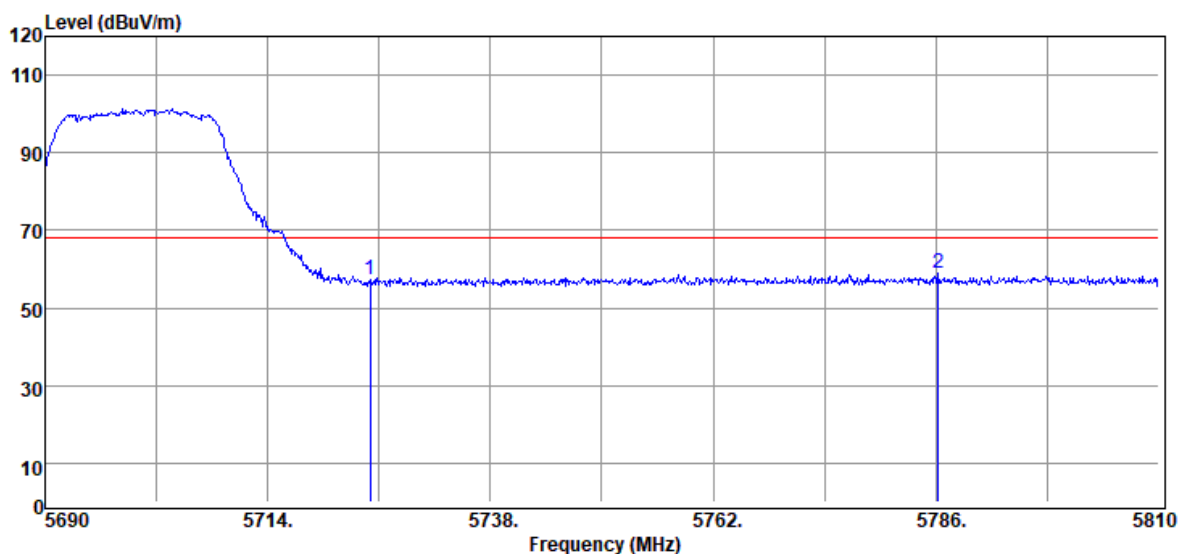
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Report Number :E2/2020/50085
Operation Mode :802.11n20 / Band 3
Test Frequency :5700 MHz
Test Mode :BE CH HIGH
EUT Pol :E2 Plan

Test Date :2020-06-10
Temp./Humi. :22.2/57
Antenna Pol. :HORIZONTAL
Engineer :Enzo



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	40.71	16.44	57.15	68.20	-11.05
5786.24	Peak	41.96	16.92	58.88	68.20	-9.32

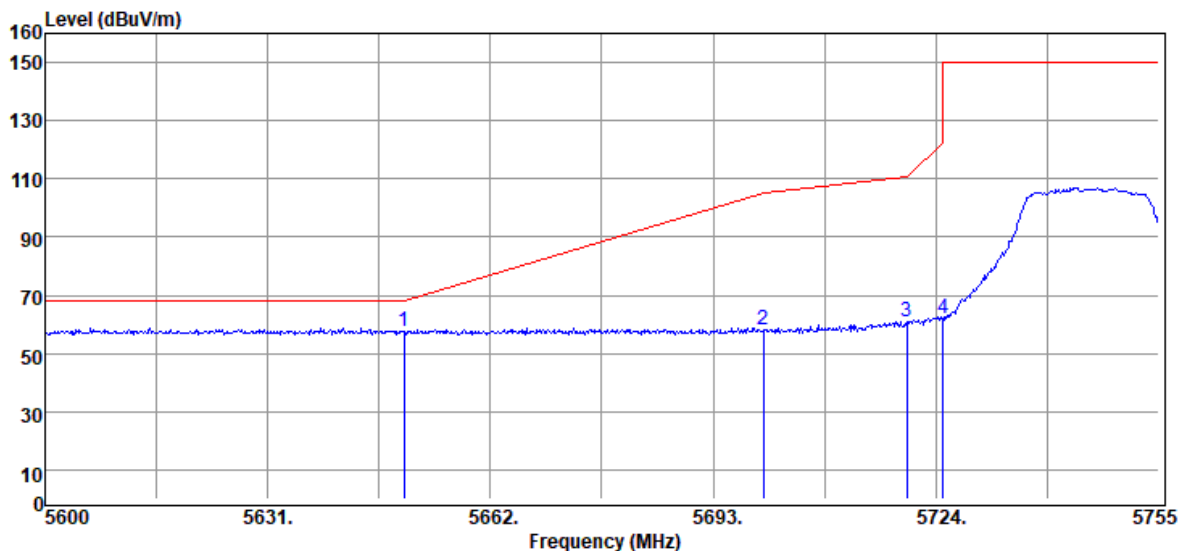
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Report Number :E2/2020/50085
Operation Mode :802.11n20 / Band 4
Test Frequency :5745 MHz
Test Mode :BE CH LOW
EUT Pol :E2 Plan

Test Date :2020-06-10
Temp./Humi. :22.2/57
Antenna Pol. :VERTICAL
Engineer :Enzo



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	41.24	16.08	57.32	68.20	-10.88
5700.00	Peak	41.98	16.23	58.21	105.20	-46.99
5720.00	Peak	44.49	16.39	60.88	110.80	-49.92
5725.00	Peak	45.50	16.44	61.94	122.20	-60.26

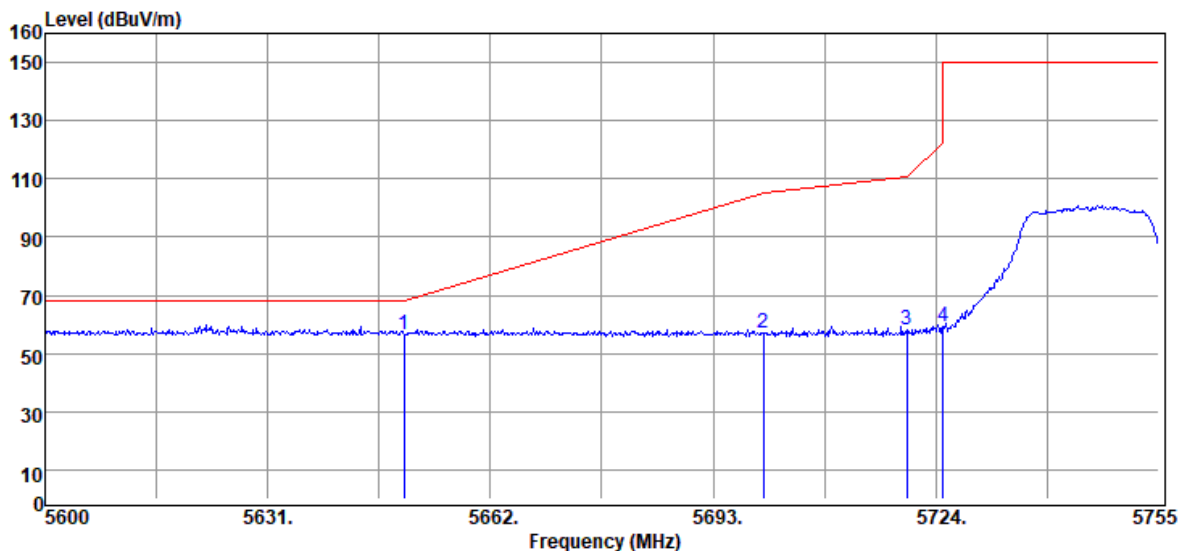
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Report Number :E2/2020/50085
Operation Mode :802.11n20 / Band 4
Test Frequency :5745 MHz
Test Mode :BE CH LOW
EUT Pol :E2 Plan

Test Date :2020-06-10
Temp./Humi. :22.2/57
Antenna Pol. :HORIZONTAL
Engineer :Enzo



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	40.59	16.08	56.67	68.20	-11.53
5700.00	Peak	40.60	16.23	56.83	105.20	-48.37
5720.00	Peak	41.79	16.39	58.18	110.80	-52.62
5725.00	Peak	42.61	16.44	59.05	122.20	-63.15

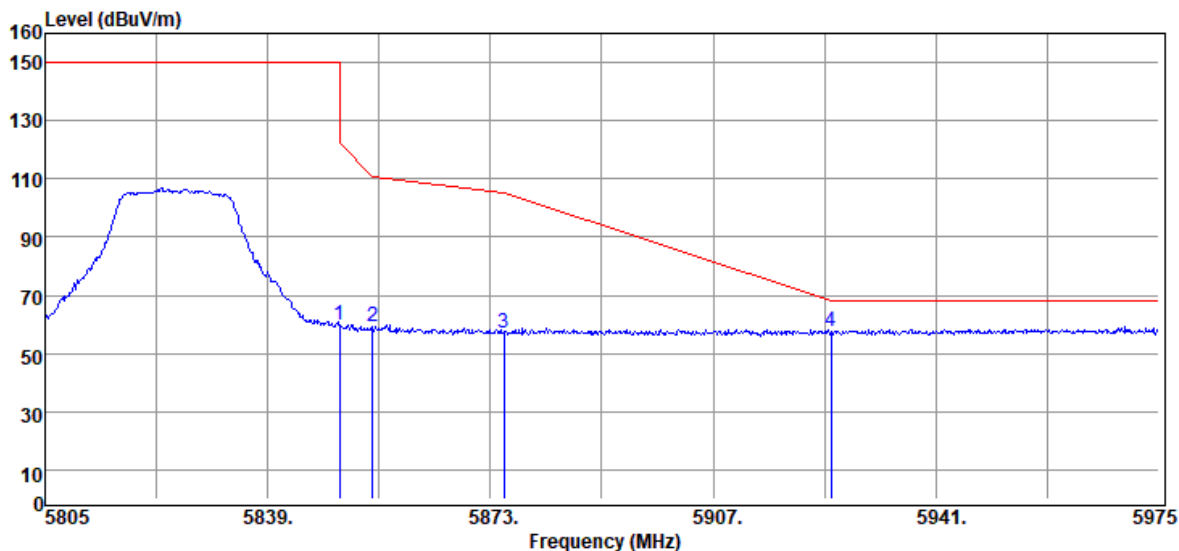
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Report Number :E2/2020/50085
Operation Mode :802.11n20 / Band 4
Test Frequency :5825 MHz
Test Mode :BE CH HIGH
EUT Pol :E2 Plan

Test Date :2020-06-10
Temp./Humi. :22.2/57
Antenna Pol. :VERTICAL
Engineer :Enzo



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	42.94	16.85	59.79	122.20	-62.41
5855.00	Peak	42.34	16.84	59.18	110.80	-51.62
5875.00	Peak	40.24	16.77	57.01	105.20	-48.19
5925.00	Peak	40.64	16.94	57.58	68.20	-10.62

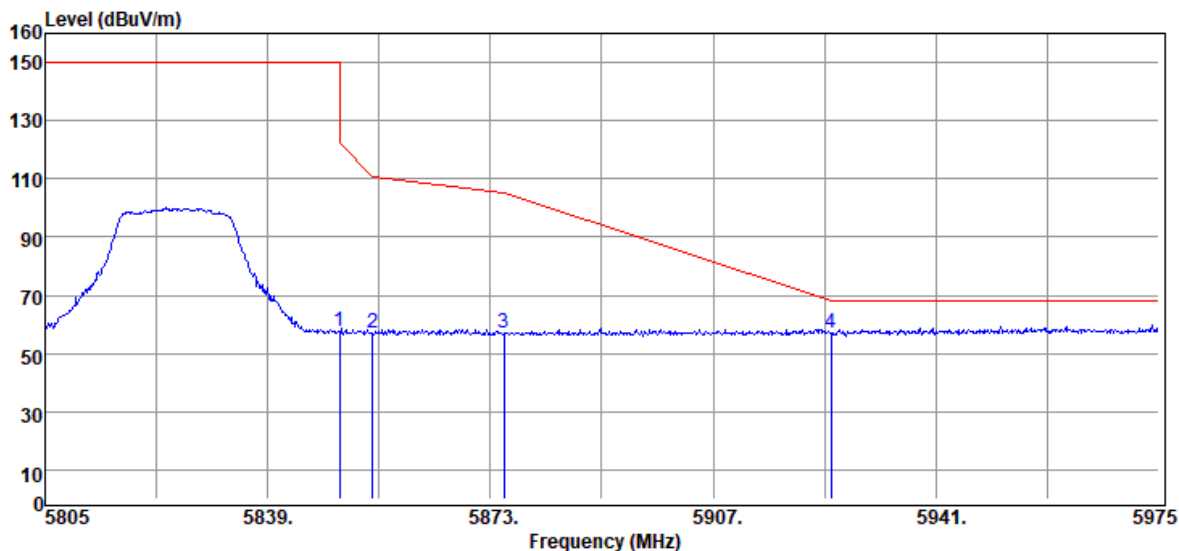
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Report Number :E2/2020/50085
Operation Mode :802.11n20 / Band 4
Test Frequency :5825 MHz
Test Mode :BE CH HIGH
EUT Pol :E2 Plan

Test Date :2020-06-10
Temp./Humi. :22.2/57
Antenna Pol. :HORIZONTAL
Engineer :Enzo



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	40.93	16.85	57.78	122.20	-64.42
5855.00	Peak	40.16	16.84	57.00	110.80	-53.80
5875.00	Peak	40.09	16.77	56.86	105.20	-48.34
5925.00	Peak	40.26	16.94	57.20	68.20	-11.00

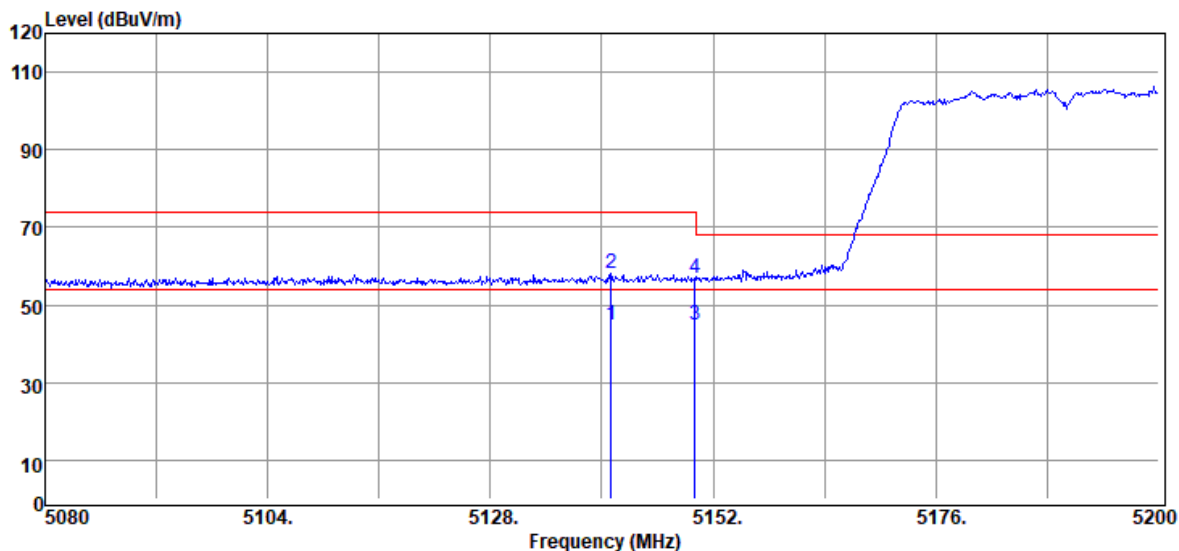
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Report Number :E2/2020/50085
Operation Mode :802.11n40 / Band 1
Test Frequency :5190 MHz
Test Mode :BE CH LOW
EUT Pol :E2 Plan

Test Date :2020-06-10
Temp./Humi. :22.2/57
Antenna Pol. :VERTICAL
Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5140.96	Average	29.61	15.08	44.69	54.00	-9.31
5140.96	Peak	43.11	15.08	58.19	74.00	-15.81
5150.00	Average	29.79	15.12	44.91	54.00	-9.09
5150.00	Peak	41.79	15.12	56.91	74.00	-17.09

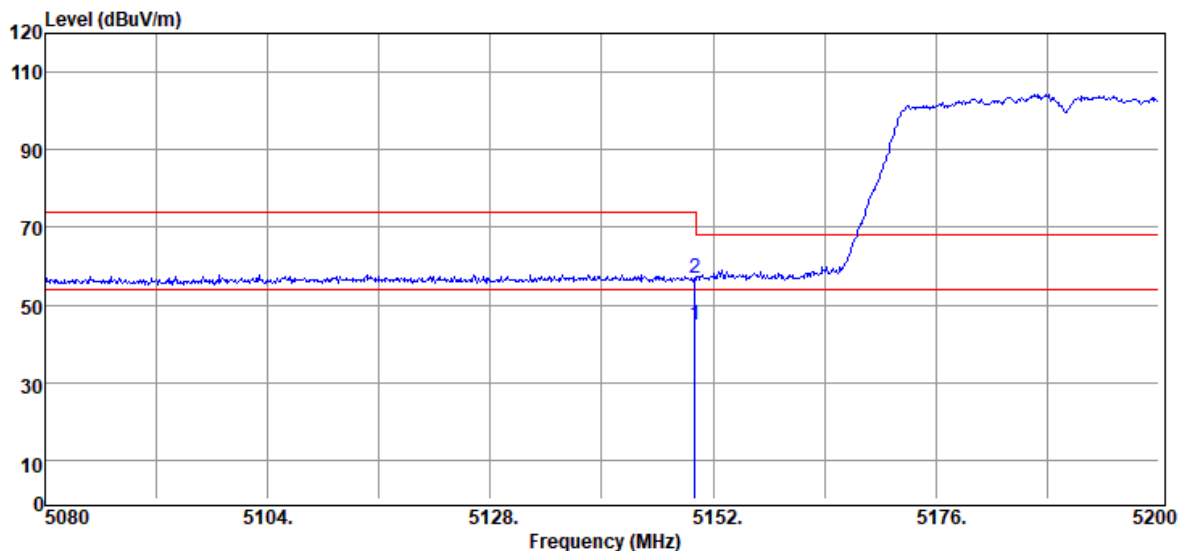
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Report Number :E2/2020/50085
Operation Mode :802.11n40 / Band 1
Test Frequency :5190 MHz
Test Mode :BE CH LOW
EUT Pol :E2 Plan

Test Date :2020-06-10
Temp./Humi. :22.2/57
Antenna Pol. :HORIZONTAL
Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5150.00	Average	29.69	15.12	44.81	54.00	-9.19
5150.00	Peak	41.91	15.12	57.03	74.00	-16.97

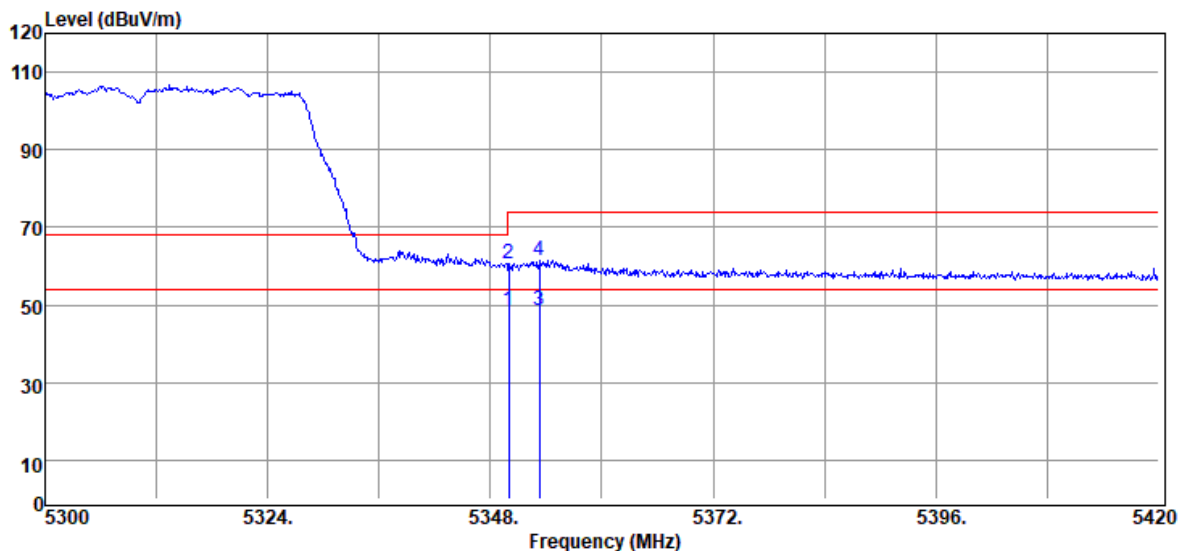
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Report Number :E2/2020/50085
 Operation Mode :802.11n40 / Band 2
 Test Frequency :5310 MHz
 Test Mode :BE CH HIGH
 EUT Pol :E2 Plan

Test Date :2020-06-10
 Temp./Humi. :22.2/57
 Antenna Pol. :VERTICAL
 Engineer :Enzo



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	32.80	15.60	48.40	54.00	-5.60
5350.00	Peak	45.15	15.60	60.75	74.00	-13.25
5353.28	Average	32.77	15.62	48.39	54.00	-5.61
5353.28	Peak	45.72	15.62	61.34	74.00	-12.66

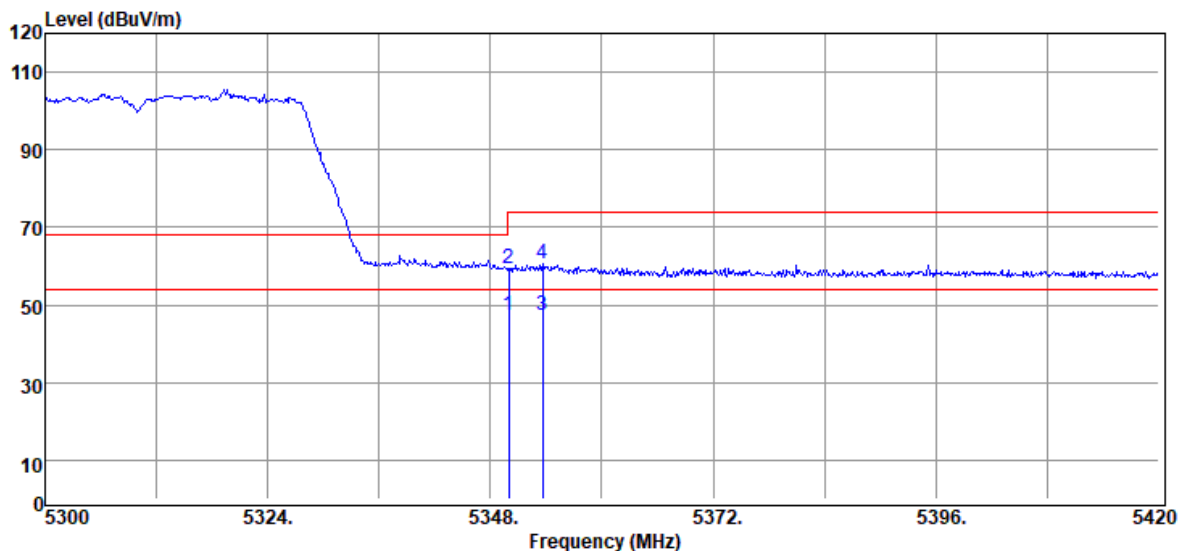
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Report Number :E2/2020/50085
Operation Mode :802.11n40 / Band 2
Test Frequency :5310 MHz
Test Mode :BE CH HIGH
EUT Pol :E2 Plan

Test Date :2020-06-10
Temp./Humi. :22.2/57
Antenna Pol. :HORIZONTAL
Engineer :Enzo



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	31.67	15.60	47.27	54.00	-6.73
5350.00	Peak	43.95	15.60	59.55	74.00	-14.45
5353.64	Average	31.60	15.62	47.22	54.00	-6.78
5353.64	Peak	45.13	15.62	60.75	74.00	-13.25

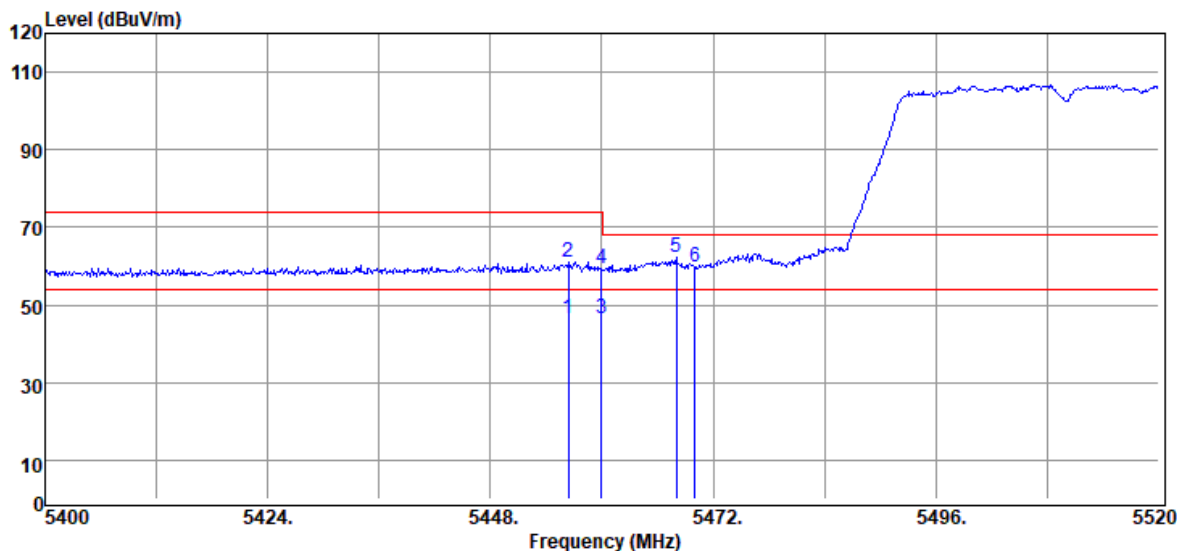
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Report Number :E2/2020/50085
Operation Mode :802.11n40 / Band 3
Test Frequency :5510 MHz
Test Mode :BE CH LOW
EUT Pol :E2 Plan

Test Date :2020-06-10
Temp./Humi. :22.2/57
Antenna Pol. :VERTICAL
Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5456.40	Average	30.75	15.90	46.65	54.00	-7.35
5456.40	Peak	45.14	15.90	61.04	74.00	-12.96
5460.00	Average	30.81	15.90	46.71	54.00	-7.29
5460.00	Peak	43.39	15.90	59.29	74.00	-14.71
5468.04	Peak	46.21	15.89	62.10	68.20	-6.10
5470.00	Peak	44.10	15.89	59.99	68.20	-8.21

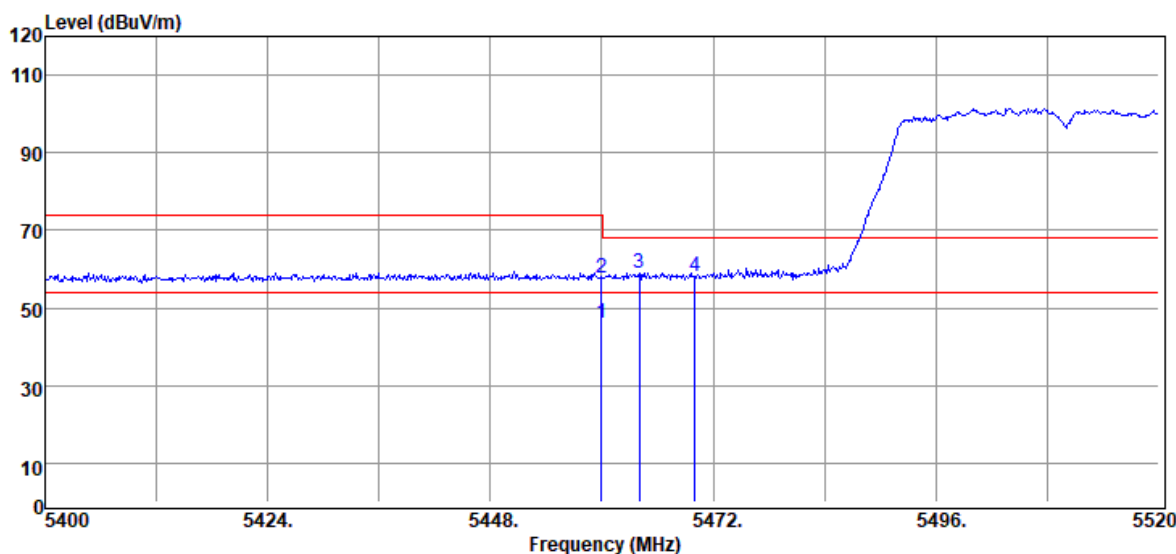
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Report Number :E2/2020/50085
Operation Mode :802.11n40 / Band 3
Test Frequency :5510 MHz
Test Mode :BE CH LOW
EUT Pol :E2 Plan

Test Date :2020-06-10
Temp./Humi. :22.2/57
Antenna Pol. :HORIZONTAL
Engineer :Enzo



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	30.17	15.90	46.07	54.00	-7.93
5460.00	Peak	41.99	15.90	57.89	74.00	-16.11
5464.08	Peak	43.17	15.90	59.07	68.20	-9.13
5470.00	Peak	42.33	15.89	58.22	68.20	-9.98

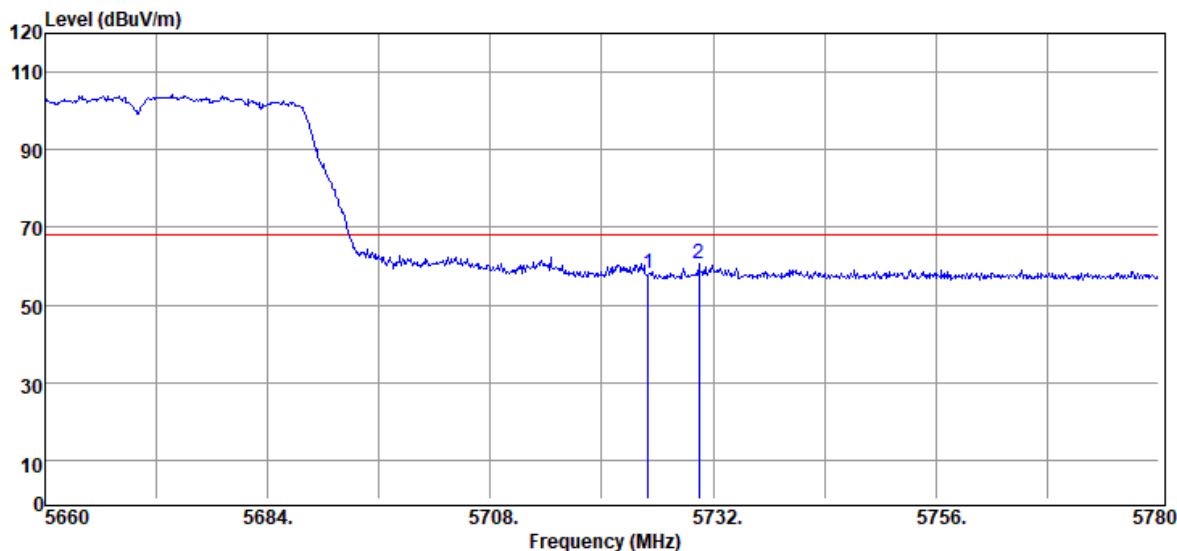
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Report Number :E2/2020/50085
Operation Mode :802.11n40 / Band 3
Test Frequency :5670 MHz
Test Mode :BE CH HIGH
EUT Pol :E2 Plan

Test Date :2020-06-10
Temp./Humi. :22.2/57
Antenna Pol. :VERTICAL
Engineer :Enzo



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	41.85	16.44	58.29	68.20	-9.91
5730.44	Peak	43.98	16.48	60.46	68.20	-7.74

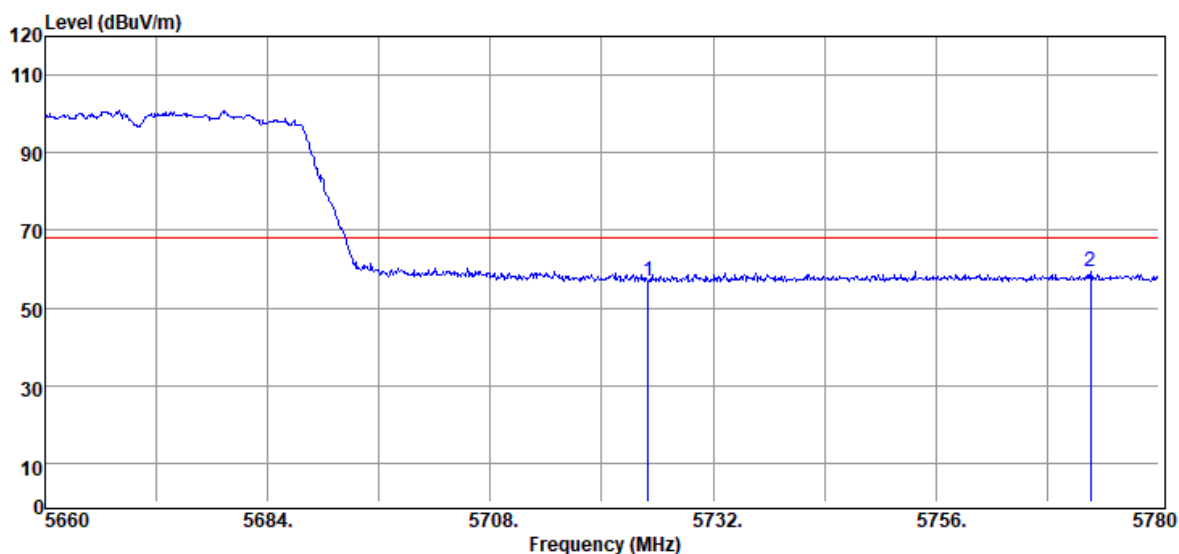
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Report Number :E2/2020/50085
Operation Mode :802.11n40 / Band 3
Test Frequency :5670 MHz
Test Mode :BE CH HIGH
EUT Pol :E2 Plan

Test Date :2020-06-10
Temp./Humi. :22.2/57
Antenna Pol. :HORIZONTAL
Engineer :Enzo



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	40.50	16.44	56.94	68.20	-11.26
5772.68	Peak	42.68	16.82	59.50	68.20	-8.70

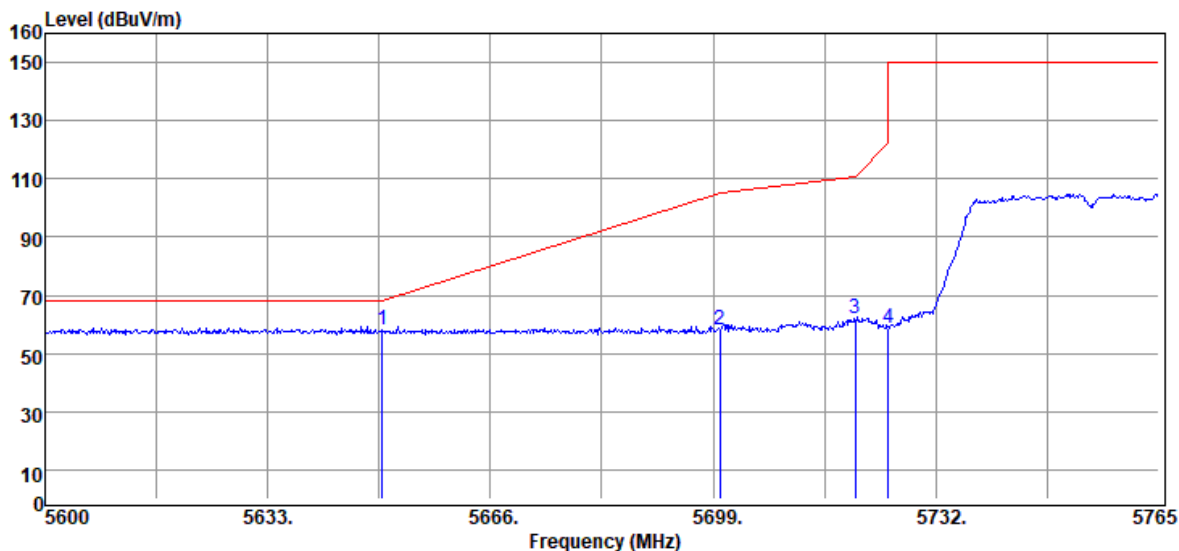
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Report Number :E2/2020/50085
Operation Mode :802.11n40 / Band 4
Test Frequency :5755 MHz
Test Mode :BE CH LOW
EUT Pol :E2 Plan

Test Date :2020-06-10
Temp./Humi. :22.2/57
Antenna Pol. :VERTICAL
Engineer :Enzo



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	42.26	16.08	58.34	68.20	-9.86
5700.00	Peak	42.17	16.23	58.40	105.20	-46.80
5720.00	Peak	45.71	16.39	62.10	110.80	-48.70
5725.00	Peak	42.42	16.44	58.86	122.20	-63.34

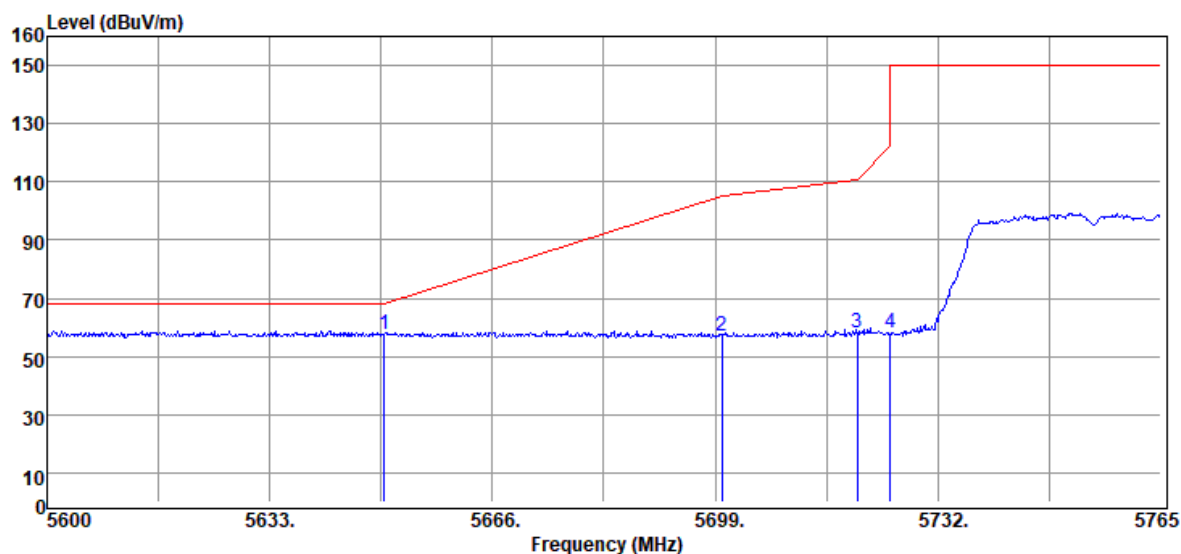
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Report Number :E2/2020/50085
 Operation Mode :802.11n40 / Band 4
 Test Frequency :5755 MHz
 Test Mode :BE CH LOW
 EUT Pol :E2 Plan

Test Date :2020-06-10
 Temp./Humi. :22.2/57
 Antenna Pol. :HORIZONTAL
 Engineer :Enzo



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	41.55	16.08	57.63	68.20	-10.57
5700.00	Peak	40.87	16.23	57.10	105.20	-48.10
5720.00	Peak	41.57	16.39	57.96	110.80	-52.84
5725.00	Peak	41.63	16.44	58.07	122.20	-64.13

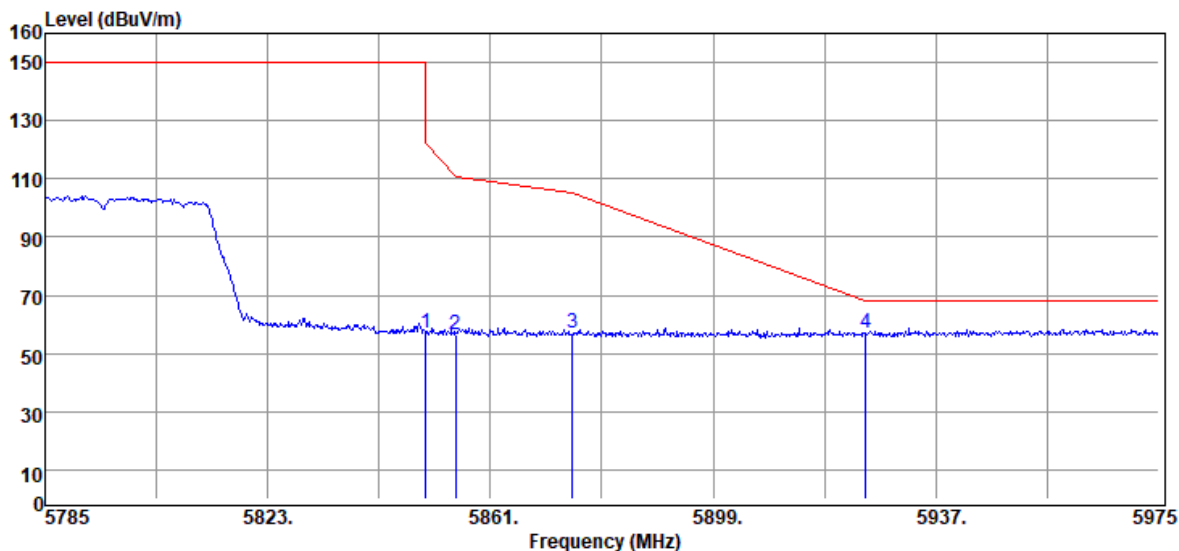
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Report Number :E2/2020/50085
 Operation Mode :802.11n40 / Band 4
 Test Frequency :5795 MHz
 Test Mode :BE CH HIGH
 EUT Pol :E2 Plan

Test Date :2020-06-10
 Temp./Humi. :22.2/57
 Antenna Pol. :VERTICAL
 Engineer :Enzo



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	40.14	16.85	56.99	122.20	-65.21
5855.00	Peak	39.69	16.84	56.53	110.80	-54.27
5875.00	Peak	40.37	16.77	57.14	105.20	-48.06
5925.00	Peak	39.81	16.94	56.75	68.20	-11.45

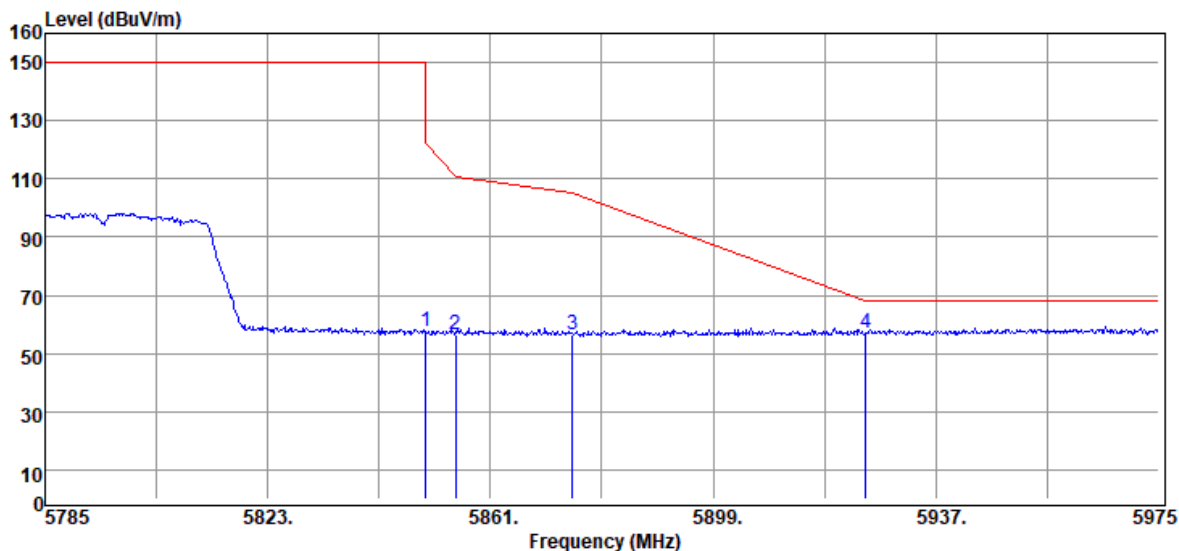
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Report Number :E2/2020/50085
Operation Mode :802.11n40 / Band 4
Test Frequency :5795 MHz
Test Mode :BE CH HIGH
EUT Pol :E2 Plan

Test Date :2020-06-10
Temp./Humi. :22.2/57
Antenna Pol. :HORIZONTAL
Engineer :Enzo



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	40.46	16.85	57.31	122.20	-64.89
5855.00	Peak	39.86	16.84	56.70	110.80	-54.10
5875.00	Peak	39.67	16.77	56.44	105.20	-48.76
5925.00	Peak	40.13	16.94	57.07	68.20	-11.13

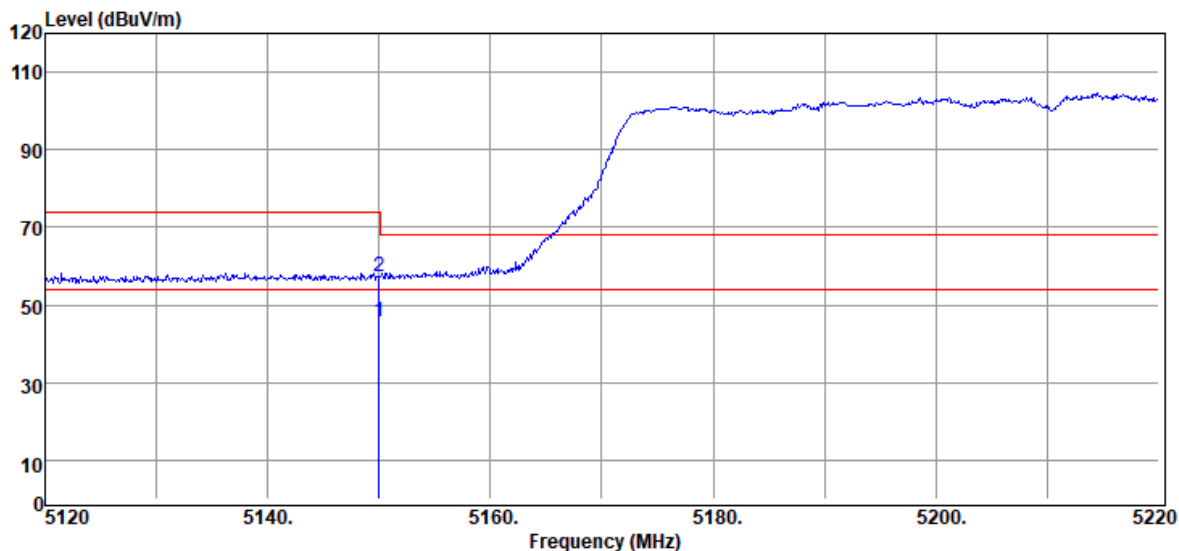
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Report Number :E2/2020/50085
Operation Mode :802.11ac80 / Band 1
Test Frequency :5210 MHz
Test Mode :BE CH LOW
EUT Pol :E2 Plan

Test Date :2020-06-11
Temp./Humi. :22.9/58
Antenna Pol. :VERTICAL
Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5150.00	Average	30.67	15.12	45.79	54.00	-8.21
5150.00	Peak	42.39	15.12	57.51	74.00	-16.49

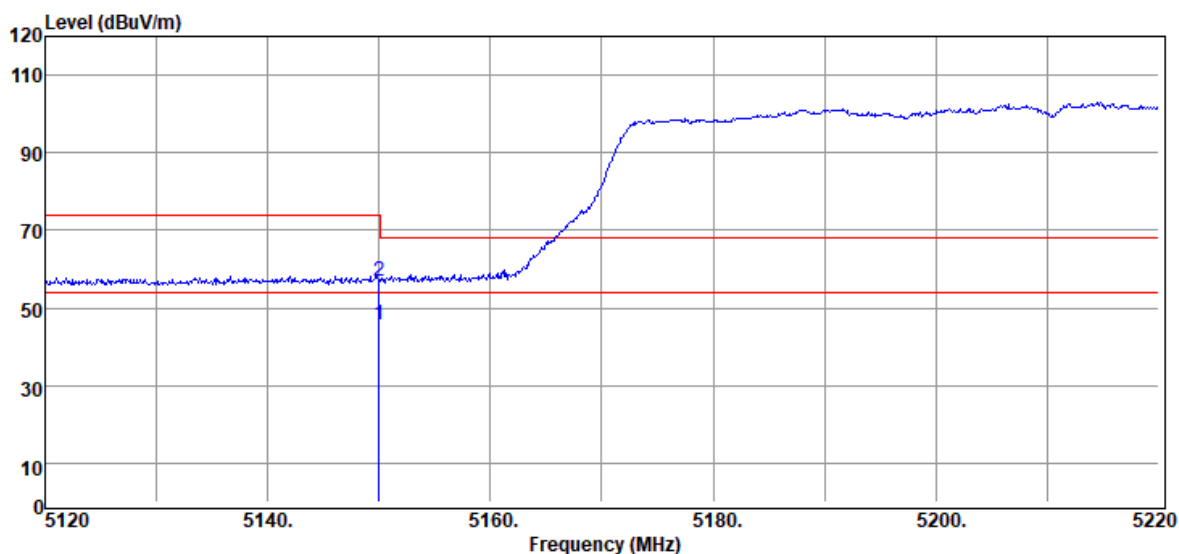
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Report Number :E2/2020/50085
 Operation Mode :802.11ac80 / Band 1
 Test Frequency :5210 MHz
 Test Mode :BE CH LOW
 EUT Pol :E2 Plan

Test Date :2020-06-11
 Temp./Humi. :22.9/58
 Antenna Pol. :HORIZONTAL
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5150.00	Average	30.50	15.12	45.62	54.00	-8.38
5150.00	Peak	41.96	15.12	57.08	74.00	-16.92

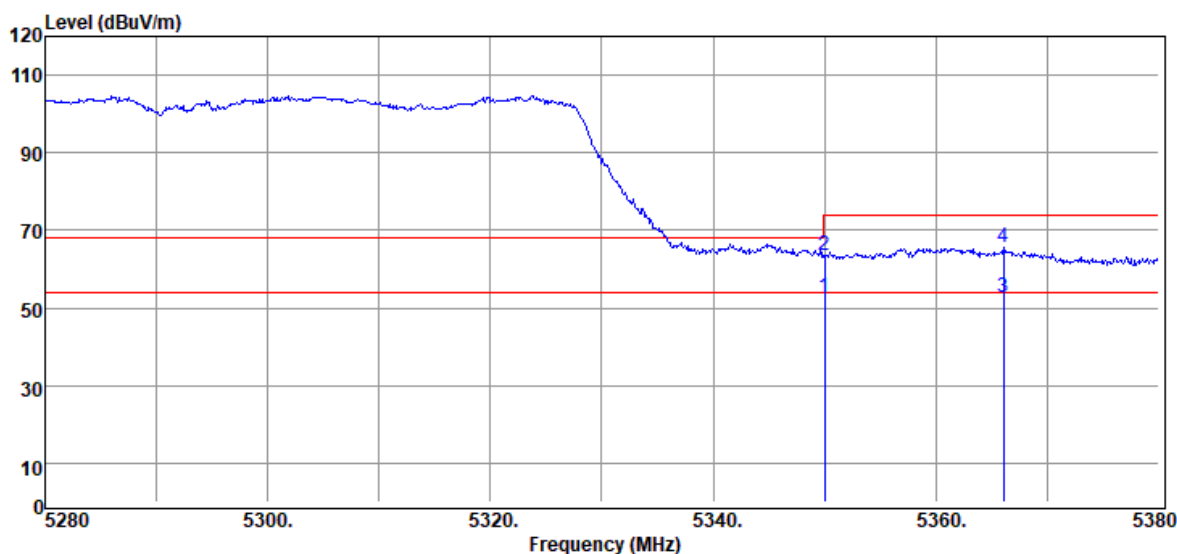
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Report Number :E2/2020/50085
Operation Mode :802.11ac80 / Band 2
Test Frequency :5290 MHz
Test Mode :BE CH HIGH
EUT Pol :E2 Plan

Test Date :2020-06-11
Temp./Humi. :22.9/58
Antenna Pol. :VERTICAL
Engineer :Enzo



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	37.15	15.60	52.75	54.00	-1.25
5350.00	Peak	47.88	15.60	63.48	74.00	-10.52
5366.10	Average	36.81	15.72	52.53	54.00	-1.47
5366.10	Peak	49.81	15.72	65.53	74.00	-8.47

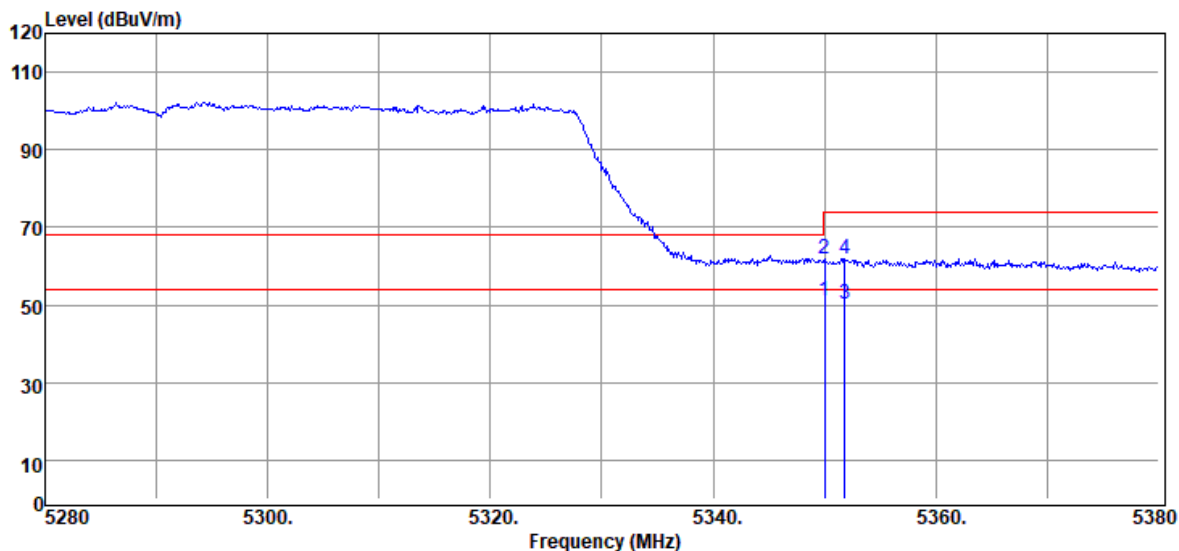
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Report Number :E2/2020/50085
Operation Mode :802.11ac80 / Band 2
Test Frequency :5290 MHz
Test Mode :BE CH HIGH
EUT Pol :E2 Plan

Test Date :2020-06-11
Temp./Humi. :22.9/58
Antenna Pol. :HORIZONTAL
Engineer :Enzo



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	35.55	15.60	51.15	54.00	-2.85
5350.00	Peak	46.14	15.60	61.74	74.00	-12.26
5351.80	Average	34.73	15.61	50.34	54.00	-3.66
5351.80	Peak	46.40	15.61	62.01	74.00	-11.99

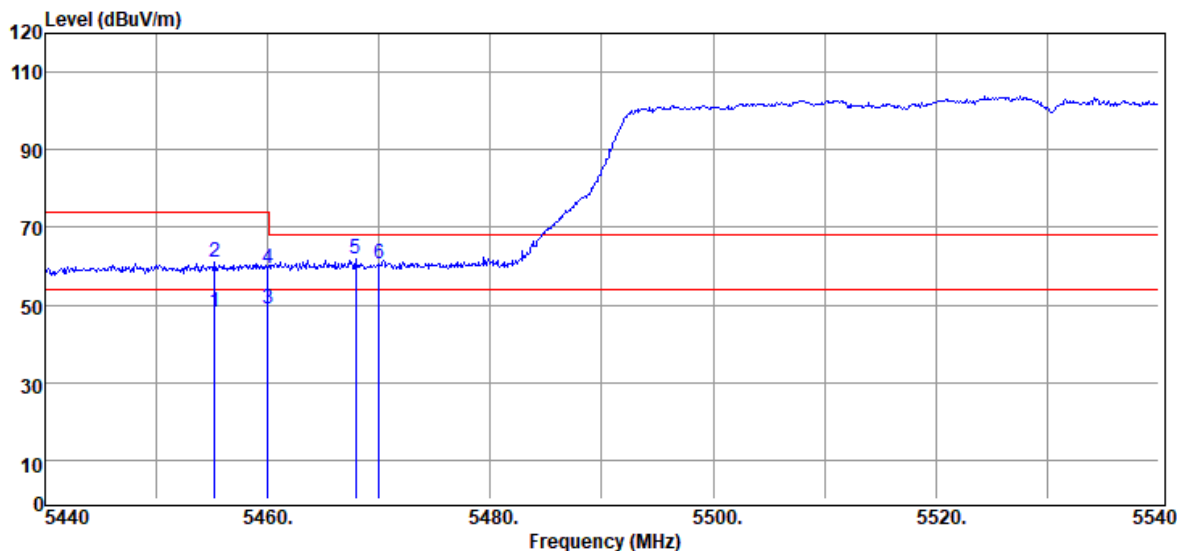
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Report Number :E2/2020/50085
Operation Mode :802.11ac80 / Band 3
Test Frequency :5530 MHz
Test Mode :BE CH LOW
EUT Pol :E2 Plan

Test Date :2020-06-11
Temp./Humi. :22.9/58
Antenna Pol. :VERTICAL
Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5455.20	Average	32.26	15.91	48.17	54.00	-5.83
5455.20	Peak	44.98	15.91	60.89	74.00	-13.11
5460.00	Average	33.15	15.90	49.05	54.00	-4.95
5460.00	Peak	43.54	15.90	59.44	74.00	-14.56
5467.90	Peak	45.82	15.89	61.71	68.20	-6.49
5470.00	Peak	44.76	15.89	60.65	68.20	-7.55

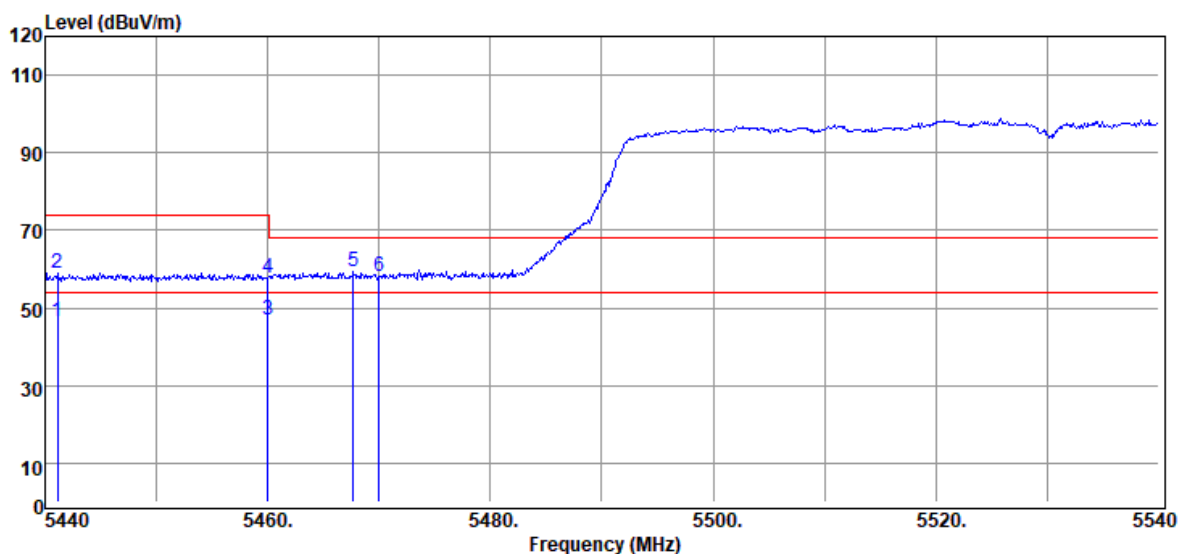
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Report Number :E2/2020/50085
Operation Mode :802.11ac80 / Band 3
Test Frequency :5530 MHz
Test Mode :BE CH LOW
EUT Pol :E2 Plan

Test Date :2020-06-11
Temp./Humi. :22.9/58
Antenna Pol. :HORIZONTAL
Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5441.10	Average	30.66	15.92	46.58	54.00	-7.42
5441.10	Peak	43.09	15.92	59.01	74.00	-14.99
5460.00	Average	30.88	15.90	46.78	54.00	-7.22
5460.00	Peak	41.96	15.90	57.86	74.00	-16.14
5467.70	Peak	43.61	15.89	59.50	68.20	-8.70
5470.00	Peak	42.10	15.89	57.99	68.20	-10.21

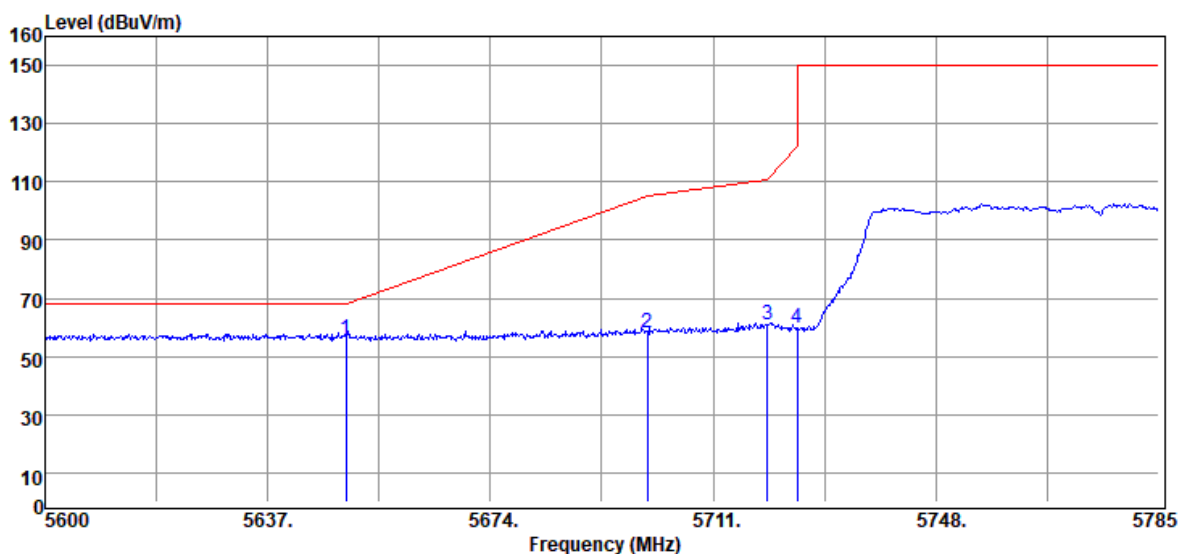
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Report Number :E2/2020/50085
 Operation Mode :802.11ac80 / Band 4
 Test Frequency :5775 MHz
 Test Mode :BE CH LOW
 EUT Pol :E2 Plan

Test Date :2020-06-11
 Temp./Humi. :22.9/58
 Antenna Pol. :VERTICAL
 Engineer :Enzo



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	40.09	16.08	56.17	68.20	-12.03
5700.00	Peak	42.06	16.23	58.29	105.20	-46.91
5720.00	Peak	44.35	16.39	60.74	110.80	-50.06
5725.00	Peak	43.53	16.44	59.97	122.20	-62.23

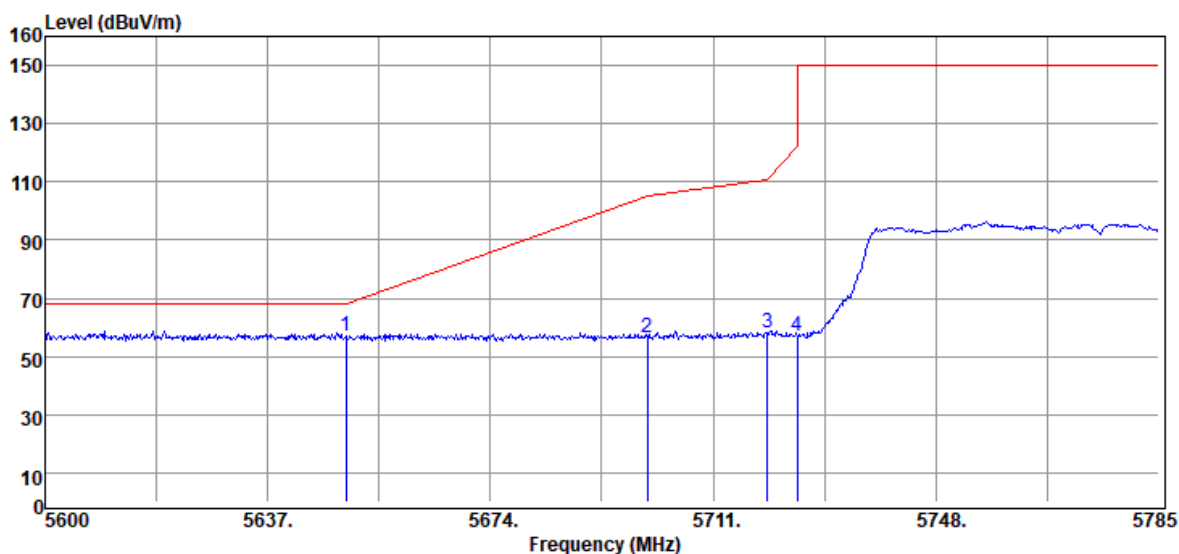
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Operation Mode :802.11ac80 / Band 4
Test Frequency :5775 MHz
Test Mode :BE CH LOW
EUT Pol :E2 Plan

Test Date :2020-06-11
Temp./Humi. :22.9/58
Antenna Pol. :HORIZONTAL
Engineer :Enzo



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	41.18	16.08	57.26	68.20	-10.94
5700.00	Peak	40.37	16.23	56.60	105.20	-48.60
5720.00	Peak	41.57	16.39	57.96	110.80	-52.84
5725.00	Peak	40.69	16.44	57.13	122.20	-65.07

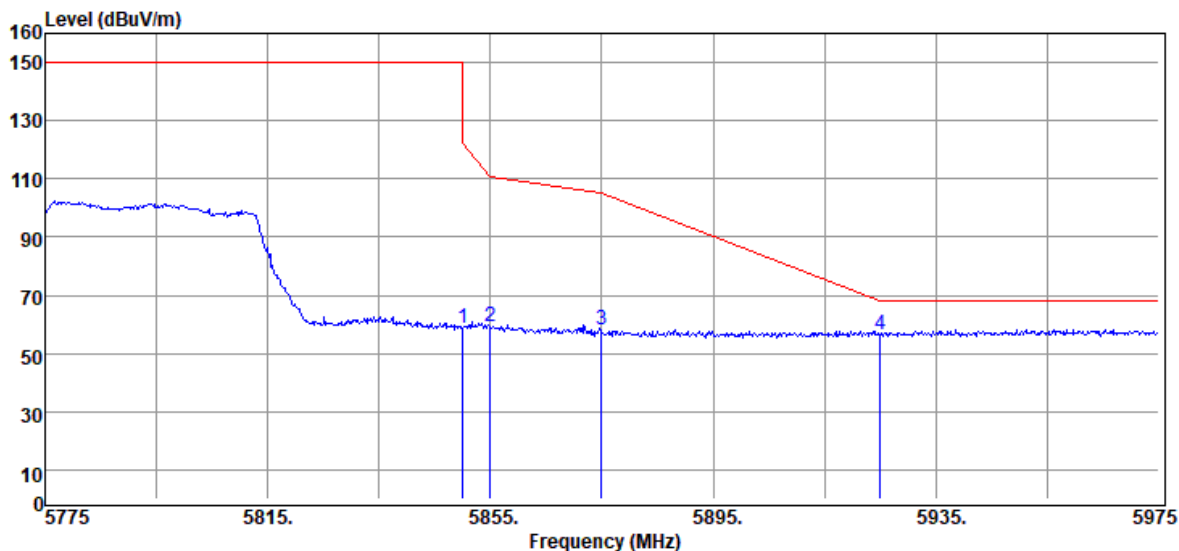
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Report Number :E2/2020/50085
 Operation Mode :802.11ac80 / Band 4
 Test Frequency :5775 MHz
 Test Mode :BE CH HIGH
 EUT Pol :E2 Plan

Test Date :2020-06-11
 Temp./Humi. :22.9/58
 Antenna Pol. :VERTICAL
 Engineer :Enzo



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	41.70	16.85	58.55	122.20	-63.65
5855.00	Peak	42.39	16.84	59.23	110.80	-51.57
5875.00	Peak	41.12	16.77	57.89	105.20	-47.31
5925.00	Peak	39.70	16.94	56.64	68.20	-11.56

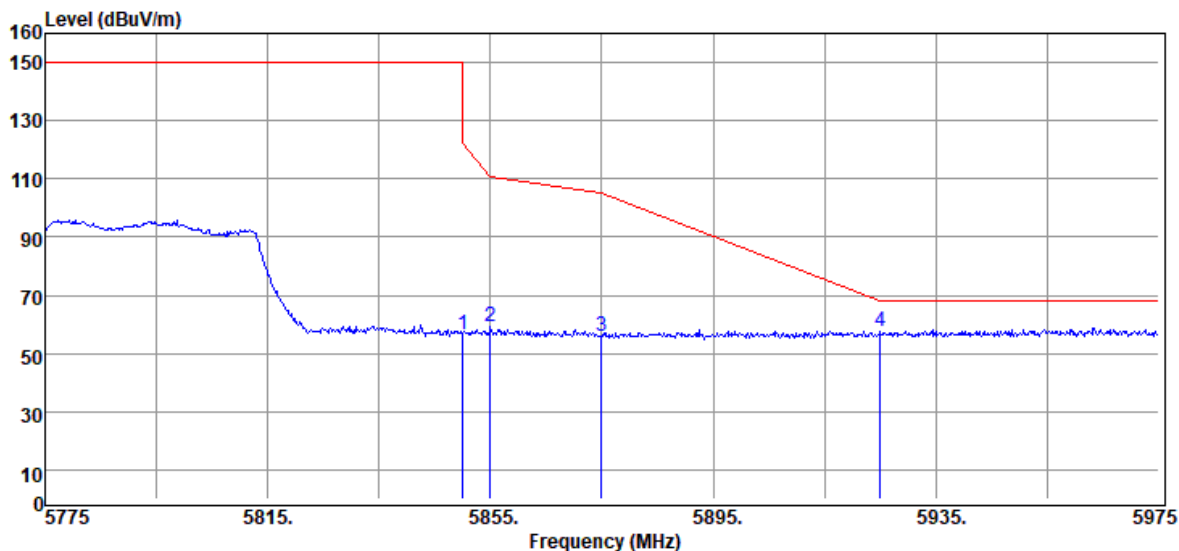
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Test Frequency :5775 MHz
Test Mode :BE CH HIGH
EUT Pol :E2 Plan

Test Date :2020-06-11
Temp./Humi. :22.9/58
Antenna Pol. :HORIZONTAL
Engineer :Enzo



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	39.70	16.85	56.55	122.20	-65.65
5855.00	Peak	42.18	16.84	59.02	110.80	-51.78
5875.00	Peak	38.97	16.77	55.74	105.20	-49.46
5925.00	Peak	40.60	16.94	57.54	68.20	-10.66

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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

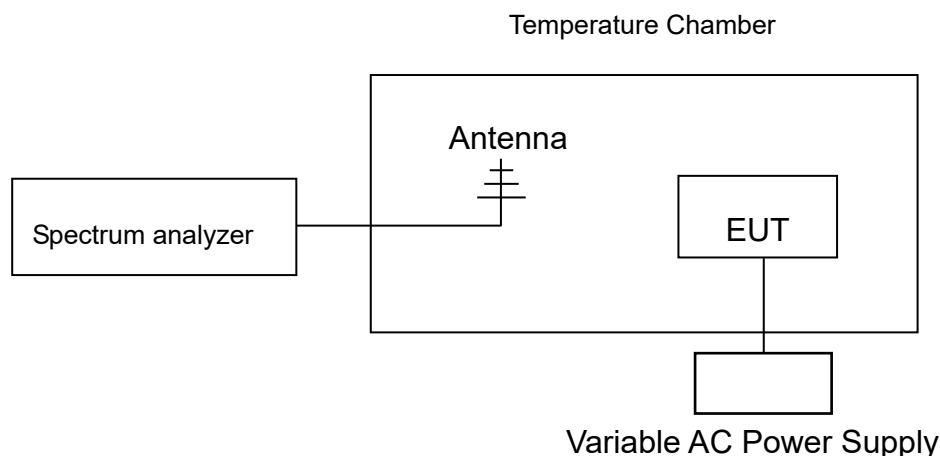
13.1 Standard Applicable

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:

SGS Conducted Room					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum Analyzer	KEYSIGHT	N9010B	MY59070196	03/22/2020	03/21/2021
DC Block	PASTERNAK	PE8210	RF256	11/20/2019	11/19/2020
Attenuator	Marvelous	WATT-218FS-10	RF245	11/20/2019	11/19/2020

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13.5 Measurement Result

Start up

Operation Mode	802.11 a	Test Date	2020.06.06
Temperature	: 21.4°C	Test By	Home , Peter
Humidity	: 70%		

Test Temp.(°C)	Test Voltage(V)	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-5	4.45	36	5180	5,179.98566	0.00000277
	3.15	36	5180	5,179.98386	0.00000312
25	3.85	36	5180	5,179.98636	0.00000263
45	4.45	36	5180	5,179.98996	0.00000194
	3.15	36	5180	5,179.98296	0.00000329

2 minutes

Operation Mode	802.11 a	Test Date	2020.06.06
Temperature	: 21.4°C	Test By	Home , Peter
Humidity	: 70%		

Test Temp.(°C)	Test Voltage(V)	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-5	4.45	36	5180	5,179.98386	0.00000312
	3.15	36	5180	5,179.98926	0.00000207
25	3.85	36	5180	5,179.99016	0.00000190
45	4.45	36	5180	5,179.98746	0.00000242
	3.15	36	5180	5,179.99166	0.00000161

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5 minutes

Operation Mode	802.11 a	Test Date	2020.06.06
Temperature	: 21.4°C	Test By	Home , Peter
Humidity	: 70%		

Test Temp.(°C)	Test Voltage(V)	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-5	4.45	36	5180	5,179.98876	0.00000217
	3.15	36	5180	5,179.98866	0.00000219
25	3.85	36	5180	5,179.98556	0.00000279
45	4.45	36	5180	5,179.99136	0.00000167
	3.15	36	5180	5,179.98946	0.00000203

10 minutes

Operation Mode	802.11 a	Test Date	2020.06.06
Temperature	: 21.4°C	Test By	Home , Peter
Humidity	: 70%		

Test Temp.(°C)	Test Voltage(V)	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-5	4.45	36	5180	5,179.98746	0.00000242
	3.15	36	5180	5,179.99016	0.00000190
25	3.85	36	5180	5,179.98266	0.00000335
45	4.45	36	5180	5,179.98596	0.00000271
	3.15	36	5180	5,179.98236	0.00000341

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14 ANTENNA REQUIREMENT

14.1 Standard Applicable

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

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

14.2 Antenna Connected Construction

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

~ End of Report ~

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