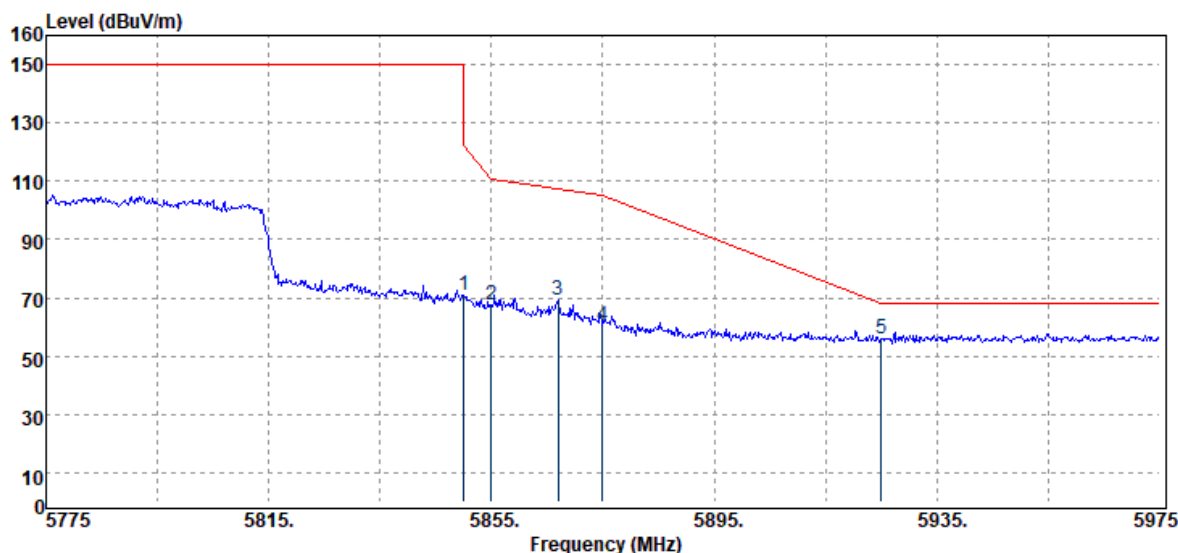


Report Number :ER/2020/30080
Operation Mode :802.11ax80B4
Test Frequency :5775 MHz
Test Mode :Bandedge CH High
EUT Pol :H Plane

Test Date :2020-06-01
Temp./Humi. :25.3/75
Antenna Pol. :HORIZONTAL
Engineer :Thomas



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	55.05	15.75	70.80	122.20	-51.40
5855.00	Peak	51.92	15.75	67.67	110.80	-43.13
5867.00	Peak	53.38	15.75	69.13	107.44	-38.31
5875.00	Peak	44.77	15.75	60.52	105.20	-44.68
5925.00	Peak	40.03	16.06	56.09	68.20	-12.11

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11.7.4 Spot Check of Calling Mode

Report Number :ER/2020/30080

Test Date :2020-06-08

Operation Mode :802.11n40B3

Temp./Humi. :26.6/75

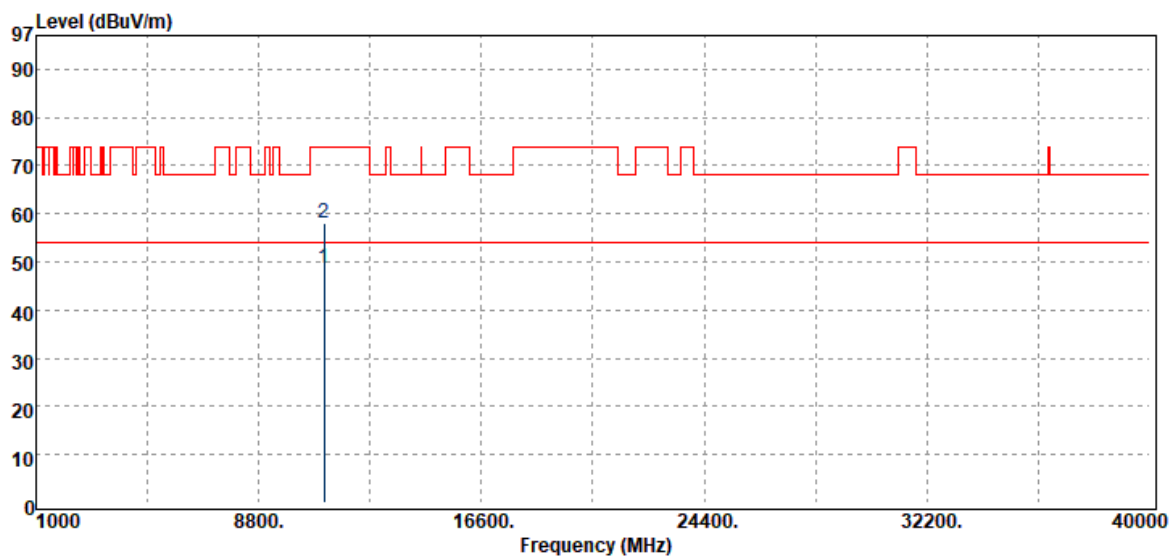
Test Frequency :5550 MHz

Antenna Pol. :VERTICAL

Test Mode :Tx CH Mid

Engineer :Neo

EUT Pol :H Plane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11100.00	Average	21.56	27.23	48.79	54.00	-5.21
11100.00	Peak	30.71	27.23	57.94	74.00	-16.06

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t (886-2) 2299-3279

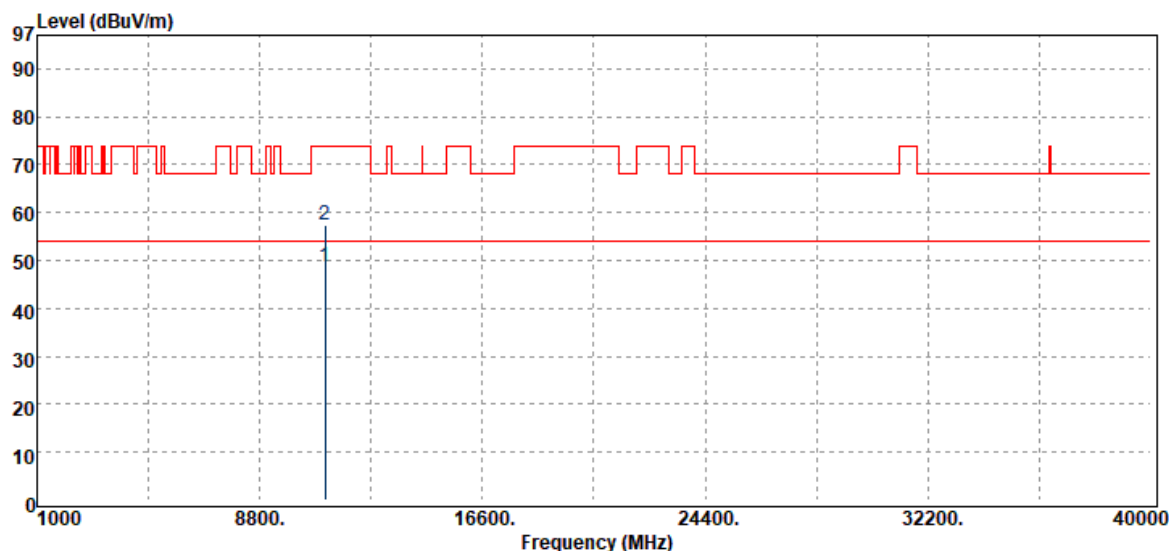
f (886-2) 2298-0488

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Report Number :ER/2020/30080
 Operation Mode :802.11n40B3
 Test Frequency :5550 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Date :2020-06-08
 Temp./Humi. :26.6/75
 Antenna Pol. :HORIZONTAL
 Engineer :Neo



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	21.60	27.23	48.83	54.00	-5.17
11100.00	Peak	30.31	27.23	57.54	74.00	-16.46

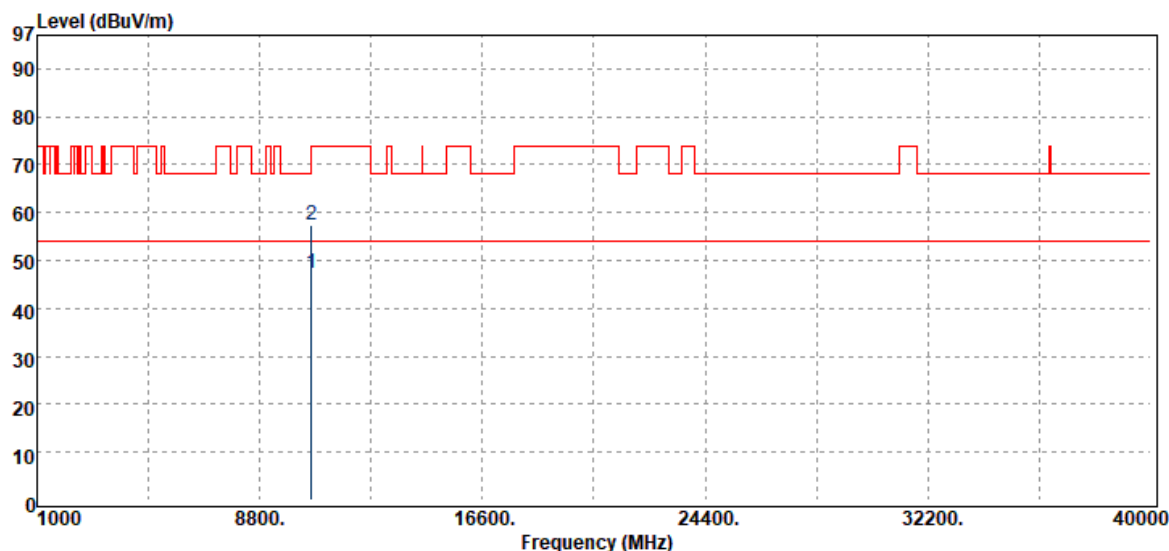
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Report Number :ER/2020/30080
Operation Mode :802.11ax20B2
Test Frequency :5300 MHz
Test Mode :Tx CH Mid
EUT Pol :H Plane

Test Date :2020-06-08
Temp./Humi. :26.6/75
Antenna Pol. :VERTICAL
Engineer :Neo



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	20.57	26.78	47.35	54.00	-6.65
10600.00	Peak	30.54	26.78	57.32	74.00	-16.68

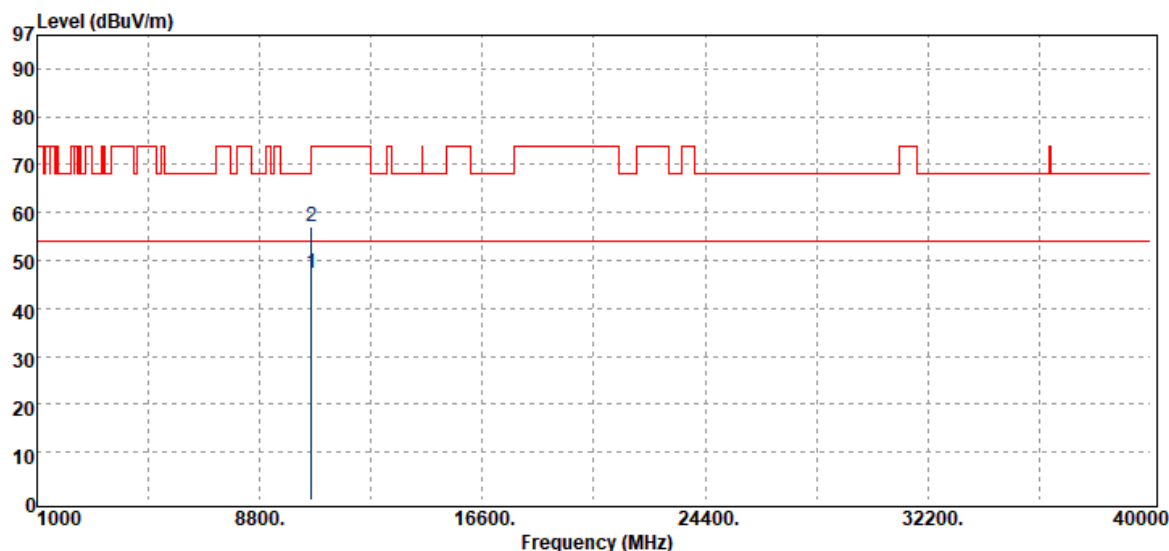
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Report Number :ER/2020/30080
Operation Mode :802.11ax20B2
Test Frequency :5300 MHz
Test Mode :Tx CH Mid
EUT Pol :H Plane

Test Date :2020-06-08
Temp./Humi. :26.6/75
Antenna Pol. :HORIZONTAL
Engineer :Neo



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	20.51	26.78	47.29	54.00	-6.71
10600.00	Peak	30.42	26.78	57.20	74.00	-16.80

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11.7.5 Spot Check of Gaming Mode

Report Number :ER/2020/30080

Test Date :2020-06-08

Operation Mode :802.11n40B3

Temp./Humi. :26.6/75

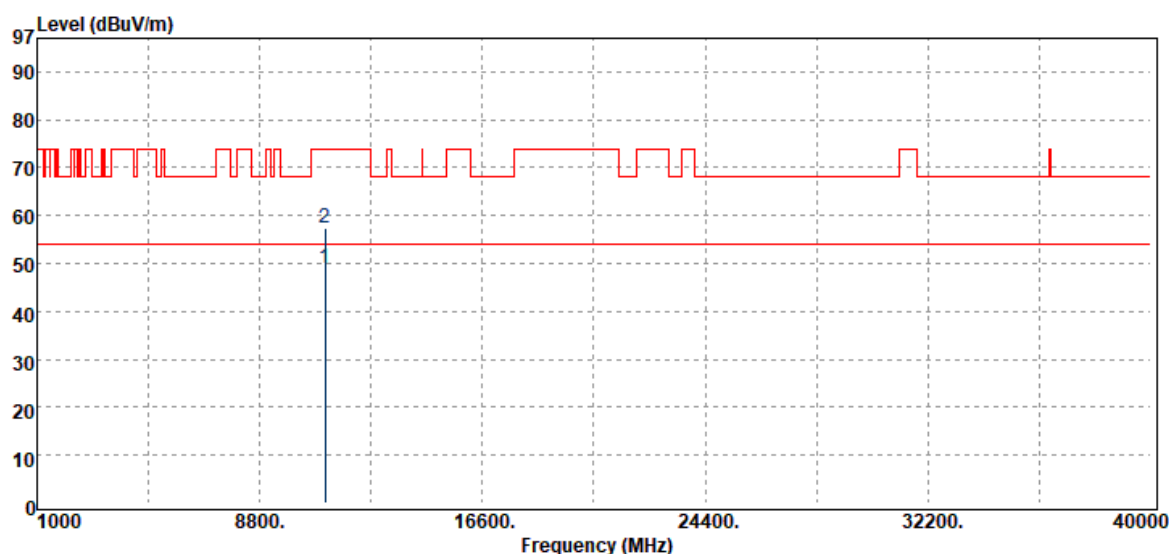
Test Frequency :5550 MHz

Antenna Pol. :VERTICAL

Test Mode :Tx CH Mid

Engineer :Neo

EUT Pol :H Plane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11100.00	Average	21.61	27.23	48.84	54.00	-5.16
11100.00	Peak	30.32	27.23	57.55	74.00	-16.45

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t (886-2) 2299-3279

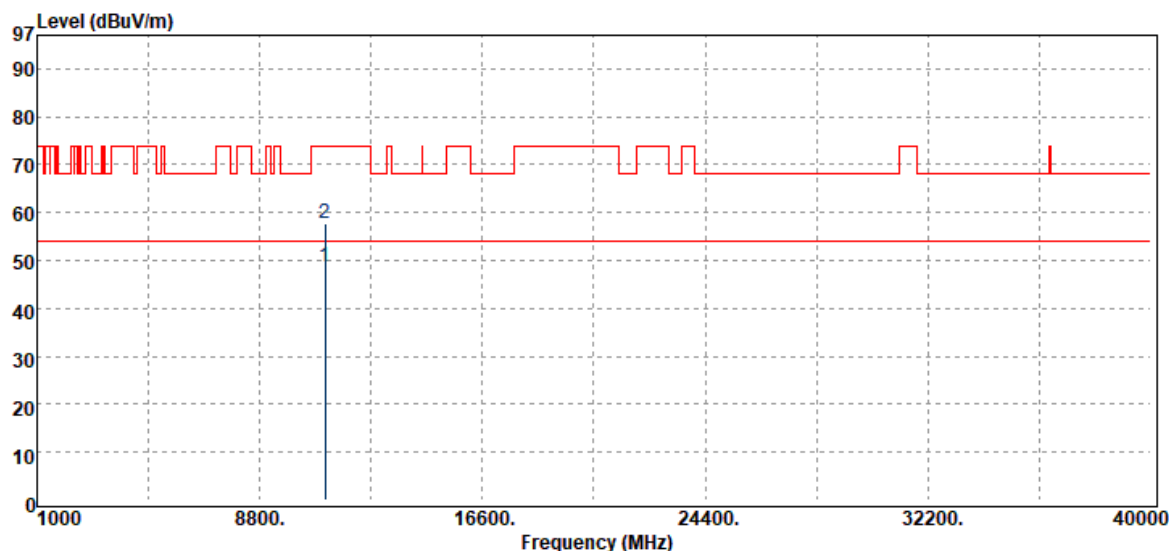
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Report Number :ER/2020/30080
Operation Mode :802.11n40B3
Test Frequency :5550 MHz
Test Mode :Tx CH Mid
EUT Pol :H Plane

Test Date :2020-06-08
Temp./Humi. :26.6/75
Antenna Pol. :HORIZONTAL
Engineer :Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11100.00	Average	21.51	27.23	48.74	54.00	-5.26
11100.00	Peak	30.54	27.23	57.77	74.00	-16.23

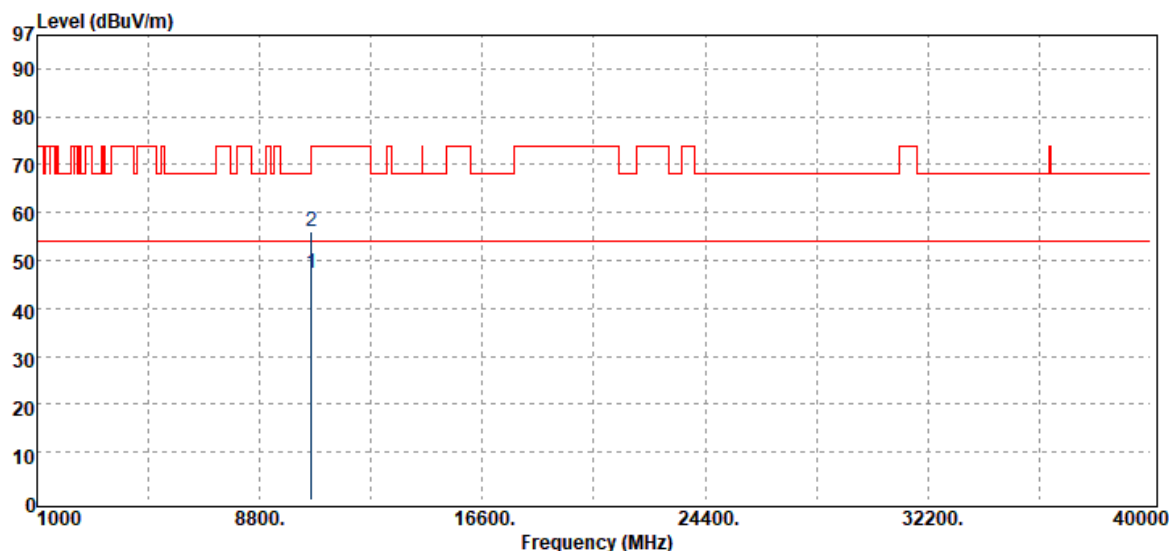
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Report Number :ER/2020/30080
Operation Mode :802.11ax20B2
Test Frequency :5300 MHz
Test Mode :Tx CH Mid
EUT Pol :H Plane

Test Date :2020-06-08
Temp./Humi. :26.6/75
Antenna Pol. :VERTICAL
Engineer :Neo



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	20.54	26.78	47.32	54.00	-6.68
10600.00	Peak	29.25	26.78	56.03	74.00	-17.97

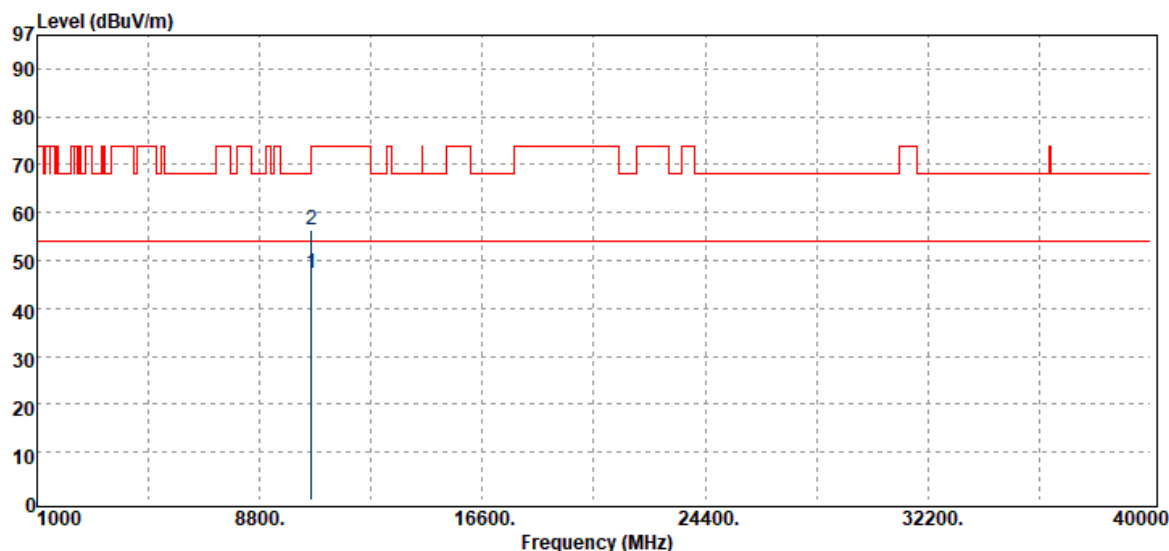
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Report Number :ER/2020/30080
Operation Mode :802.11ax20B2
Test Frequency :5300 MHz
Test Mode :Tx CH Mid
EUT Pol :H Plane

Test Date :2020-06-08
Temp./Humi. :26.6/75
Antenna Pol. :HORIZONTAL
Engineer :Neo



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	26.78	47.39	54.00	-6.61
10600.00	Peak	29.77	26.78	56.55	74.00	-17.45

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

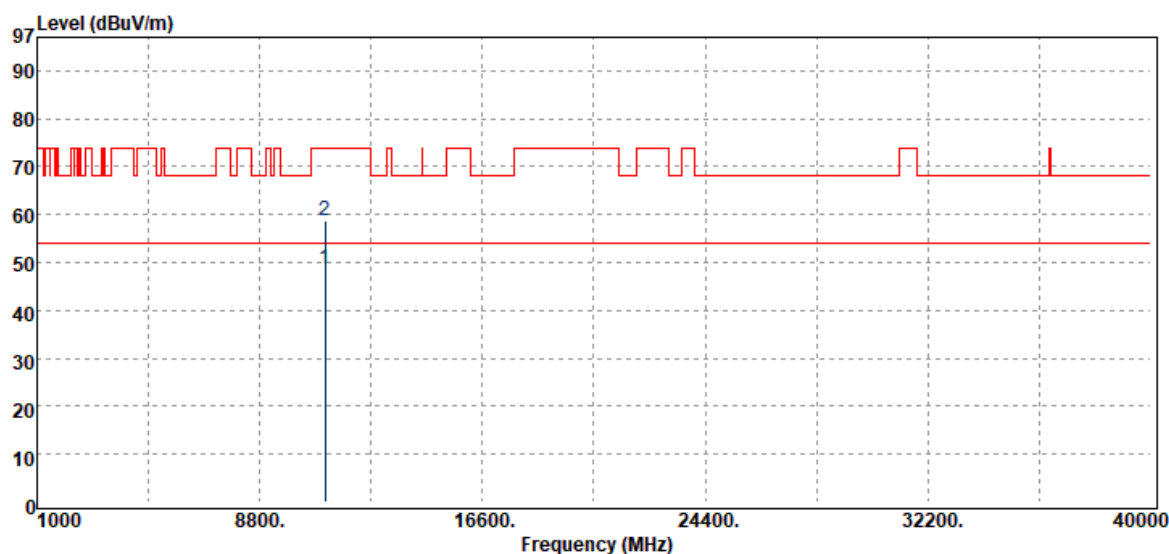
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11.7.6 Spot Check of Normal Mode

Report Number :ER/2020/30080
Operation Mode :802.11n40B3
Test Frequency :5550 MHz
Test Mode :Tx CH Mid
EUT Pol :H Plane

Test Date :2020-06-08
Temp./Humi. :26.6/75
Antenna Pol. :VERTICAL
Engineer :Neo



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	21.57	27.23	48.80	54.00	-5.20
11100.00	Peak	31.54	27.23	58.77	74.00	-15.23

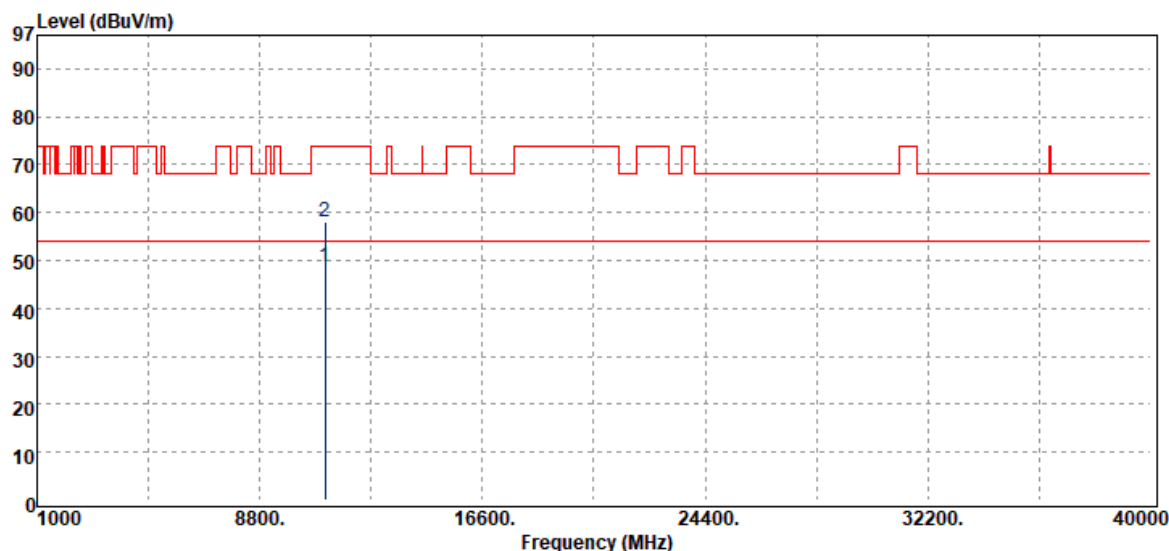
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Report Number :ER/2020/30080
 Operation Mode :802.11n40B3
 Test Frequency :5550 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Date :2020-06-08
 Temp./Humi. :26.6/75
 Antenna Pol. :HORIZONTAL
 Engineer :Neo



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	21.38	27.23	48.61	54.00	-5.39
11100.00	Peak	30.94	27.23	58.17	74.00	-15.83

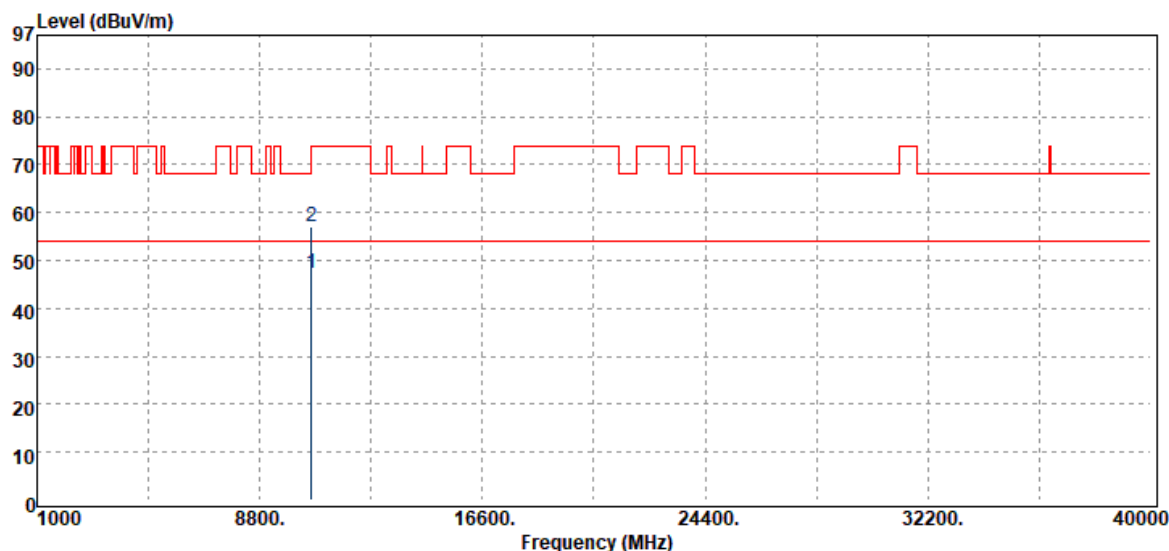
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Report Number :ER/2020/30080
Operation Mode :802.11ax20B2
Test Frequency :5300 MHz
Test Mode :Tx CH Mid
EUT Pol :H Plane

Test Date :2020-06-08
Temp./Humi. :26.6/75
Antenna Pol. :VERTICAL
Engineer :Neo



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	20.66	26.78	47.44	54.00	-6.56
10600.00	Peak	30.35	26.78	57.13	74.00	-16.87

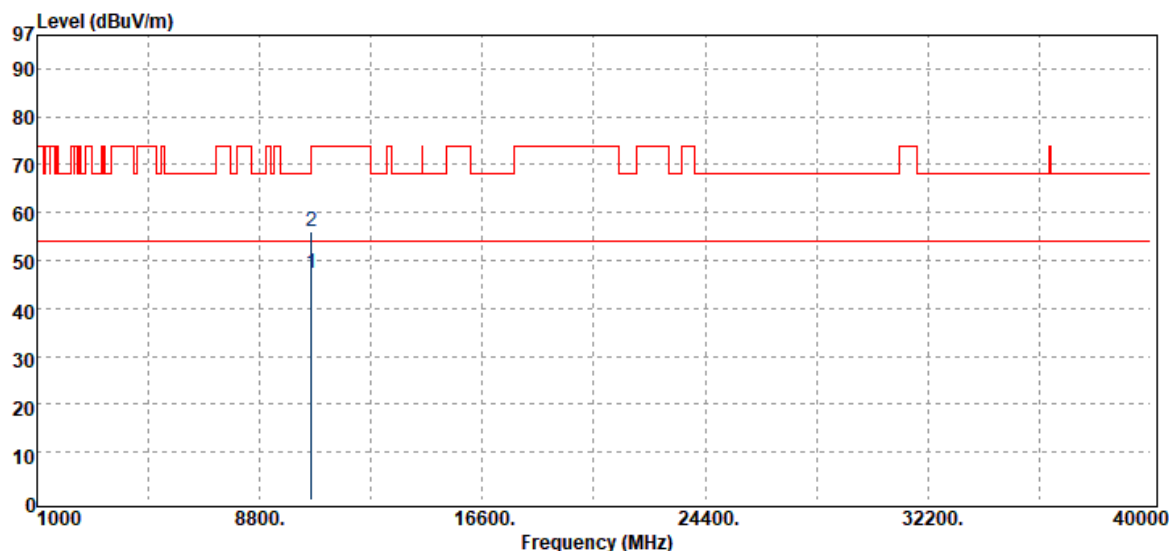
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Report Number :ER/2020/30080
Operation Mode :802.11ax20B2
Test Frequency :5300 MHz
Test Mode :Tx CH Mid
EUT Pol :H Plane

Test Date :2020-06-08
Temp./Humi. :26.6/75
Antenna Pol. :HORIZONTAL
Engineer :Neo



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	20.57	26.78	47.35	54.00	-6.65
10600.00	Peak	29.22	26.78	56.00	74.00	-18.00

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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

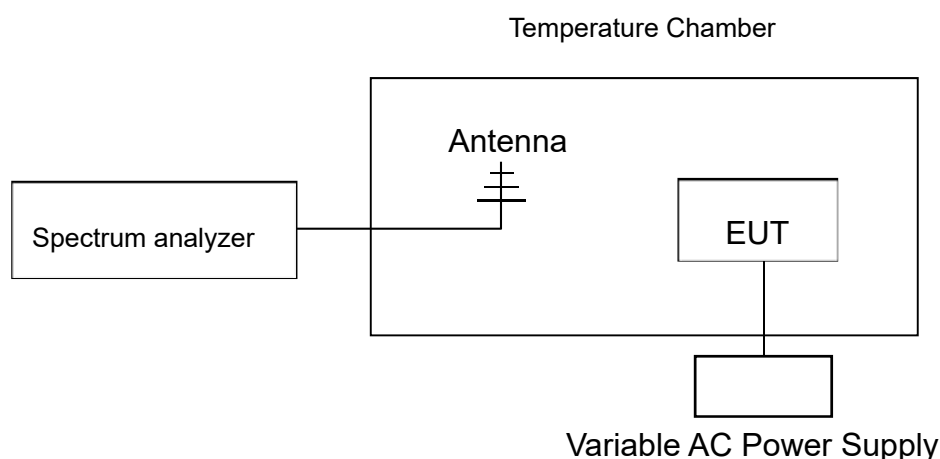
13.1 Standard Applicable

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					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	Agilent	N9010A	MY50420195	05/06/2020	05/05/2021
DC Power Supply	Agilent	E3640A	MY40005907	10/22/2019	10/21/2020
Temperature Chamber	TERCHY	MHG-120LF	911009	05/20/2020	05/19/2021
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2020	01/01/2021
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2020	01/01/2021

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13.5 Measurement Result

Start up

Operation Mode	802.11 a	Test Date	2020.06.17
Temperature	: 25.6°C	Test By	Kevin
Humidity	:64 %		

Test Temp.(°C)	Test Voltage(V)	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0	4.35	36	5180	5,180.04800	-0.00000927
	3.65	36	5180	5,180.01400	-0.00000270
25	3.85	36	5180	5,180.05500	-0.00001062
35	4.35	36	5180	5,179.95900	0.00000792
	3.65	36	5180	5,179.94600	0.00001042

2 minutes

Operation Mode	802.11 a	Test Date	2020.06.17
Temperature	: 25.6°C	Test By	Kevin
Humidity	:64 %		

Test Temp.(°C)	Test Voltage(V)	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0	4.35	36	5180	5,180.03300	-0.00000637
	3.65	36	5180	5,180.01500	-0.00000290
25	3.85	36	5180	5,180.00800	-0.00000154
35	4.35	36	5180	5,180.09400	-0.00001815
	3.65	36	5180	5,179.98400	0.00000309

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5 minutes

Operation Mode	802.11 a	Test Date	2020.06.17
Temperature	: 25.6°C	Test By	Kevin
Humidity	:64 %		

Test Temp.(°C)	Test Voltage(V)	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0	4.35	36	5180	5,180.00200	-0.00000039
	3.65	36	5180	5,179.94300	0.00001100
25	3.85	36	5180	5,179.92200	0.00001506
35	4.35	36	5180	5,179.91900	0.00001564
	3.65	36	5180	5,179.93400	0.00001274

10 minutes

Operation Mode	802.11 a	Test Date	2020.06.17
Temperature	: 25.6°C	Test By	Kevin
Humidity	:64 %		

Test Temp.(°C)	Test Voltage(V)	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0	4.35	36	5180	5,180.00100	-0.00000019
	3.65	36	5180	5,180.00800	-0.00000154
25	3.85	36	5180	5,180.03400	-0.00000656
35	4.35	36	5180	5,180.05900	-0.00001139
	3.65	36	5180	5,179.96500	0.00000676

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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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