RADIO TEST REPORT

INDUSTRY CANADA RSS-247

Test Standard	**FCC Part 15.407 IC RSS-247 issue 2 and IC RSS-GEN issue 5**
Product name	**PRO 8475**
Trade Name	**MiTAC, Webfleet Solutions**
Model	**N653**
Test Result	**Pass**
Statements of Conformity	**Determination of compliance is based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.**

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

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

Approved by:

Kevin Tsai
Deputy Manager

Revision History

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	May 21, 2020	Initial Issue	ALL	Allison Chen
01	June 9, 2020	See the following note Rev.(01)	ALL	Allison Chen
02	June 22, 2020	See the following note Rev.(02)	P.18-21	Allison Chen

Rev.(01)

1. Added test data for conduction, power table and radiated emission.

2. Revised product name: PRO 8475, and model name: N653.

Rev.(02)

1. Revised output power table in section 4.2.

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1. GENERAL INFORMATION

1.1 EUT INFORMATION

FCC Applicant	Mitac Digital Technology Corporation No.200, Wen Hwa 2nd Rd.,Kuei Shan Dist. Taoyuan, 33383 Taiwan
IC Applicant	MiTAC Digital Technology Corporation No.200, Wenhua 2nd Rd., Guishan Dist. Taoyuan City 333 Taiwan
Manufacturer	MITAC COMPUTER (KUNSHAN) CO., LTD. No. 269, 2nd Avenue, District A, Comprehensive Free Trade Zone, Kunshan, Jiangsu, P.R. China
Equipment	PRO 8475
Model	N653
Model Discrepancy	N/A
Trade Name	MiTAC, Webfleet Solutions
Received Date	April 7, 2020
Date of Test	June 1 ~ 6, 2020
Power Supply	1. Powered from Rechargeable Li-ion Polymer Battery. Rating: 3.7VDC, 4000mAh, 14.8Wh 2. Powered from Cradle Fleet cable 12/24V (Pogo power pin) USB Type-C 5V
H/W Version	R04
S/W Version	R01

1.2 EUT CHANNEL INFORMATION

Frequency Range	UNII-1	
	IEEE 802.11a	5180 ~ 5240 MHz
	IEEE 802.11n HT 20 MHz	5180 ~ 5240 MHz
	IEEE 802.11n HT 40 MHz	5190 ~ 5230 MHz
	IEEE 802.11ac VHT 80 MHz	5210 MHz
	UNII-2a	
	IEEE 802.11a	5260 ~ 5320 MHz
	IEEE 802.11n HT 20 MHz	5260 ~ 5320 MHz
	IEEE 802.11n HT 40 MHz	5270 ~ 5310 MHz
	IEEE 802.11ac VHT 80 MHz	5290 MHz
	UNII-2c	
	IEEE 802.11a	5500 ~ 5700 MHz
	IEEE 802.11n HT 20 MHz	5500 ~ 5700 MHz
	IEEE 802.11n HT 40 MHz	5510 ~ 5670 MHz
	IEEE 802.11ac VHT 80 MHz	5530 MHz
	UNII-3	
	IEEE 802.11a	5745 ~ 5825 MHz
	IEEE 802.11n HT 20 MHz	5745 ~ 5825 MHz
	IEEE 802.11n HT 40 MHz	5755 ~ 5795 MHz
	IEEE 802.11ac VHT 80 MHz	5775 MHz
Modulation Type	1. IEEE 802.11a mode: OFDM 2. IEEE 802.11n HT 20 MHz mode: OFDM 3. IEEE 802.11n HT 40 MHz mode: OFDM 4. IEEE 802.11ac VHT 80 MHz mode: OFDM	

Remark:
Refer as ANSI C63.10: 2013 clause 5.6.1 Table 4 for test channels

Number of frequencies to be tested		
Frequency range in which device operates	**Number of frequencies**	**Location in frequency range of operation**
☐ 1 MHz or less	1	Middle
☐ 1 MHz to 10 MHz	2	1 near top and 1 near bottom
☒ More than 10 MHz	3	1 near top, 1 near middle, and 1 near bottom

1.3 ANTENNA INFORMATION

Antenna Type	☐ PIFA ☐ PCB ☐ Dipole ☐ Coils ☒ Integral
Antenna Gain	Gain: 1.25 dBi
Antenna Connector	i-pex

1.4 MEASUREMENT UNCERTAINTY

PARAMETER	UNCERTAINTY
AC Powerline Conducted Emission	+/- 1.2575
Emission bandwidth, 20dB bandwidth	+/- 0.0014
RF output power, conducted	+/- 1.14
Power density, conducted	+/- 1.40
3M Semi Anechoic Chamber / 30M~200M	+/- 4.12
3M Semi Anechoic Chamber / 200M~1000M	+/- 4.68
3M Semi Anechoic Chamber / 1G~8G	+/- 5.18
3M Semi Anechoic Chamber / 8G~18G	+/- 5.47
3M Semi Anechoic Chamber / 18G~26G	+/- 3.81
3M Semi Anechoic Chamber / 26G~40G	+/- 3.87

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

1.5 FACILITIES AND TEST LOCATION

All measurement facilities used to collect the measurement data are located at

No.11, Wugong 6th Rd., Wugu Dist., New Taipei City, Taiwan. (R.O.C.)

Test site	Test Engineer	Remark
AC Conduction Room	Dally Hong	-
Radiation	Jerry Chang	-
RF Conducted	Jane Wang	-

Remark: *The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 22.*

1.6 INSTRUMENT CALIBRATION

RF Conducted Test Site					
Equipment	**Manufacturer**	**Model**	**S/N**	**Cal Date**	**Cal Due**
Coaxial Cable	Woken	WC12	CC001	06/28/2019	06/27/2020
EXA Signal Analyzer	KEYSIGHT	N9010B	MY55460167	07/31/2019	07/30/2020
Power Meter	Anritsu	ML2487A	6K00003260	05/21/2020	05/20/2021
Power Seneor	Anritsu	MA2490A	032910	05/21/2020	05/20/2021
Software	N/A				

3M 966 Chamber Test Site					
Equipment	**Manufacturer**	**Model**	**S/N**	**Cal Date**	**Cal Due**
Bilog Antenna	Sunol Sciences	JB3	A030105	07/26/2019	07/25/2020
Coaxial Cable	HUBER SUHNER	SUCOFLEX 104PEA	20995	02/25/2020	02/24/2021
Coaxial Cable	EMCI	EMC105	190914+25111	09/20/2019	09/19/2020
Digital Thermo-Hygro Meter	WISEWIND	1206	D07	01/15/2020	01/14/2021
double Ridged Guide Horn Antenna	ETC	MCTD 1209	DRH13M02003	10/04/2019	10/03/2020
High Pass Filters	MICRO TRONICS	HPM13195	003	02/25/2020	02/24/2021
Horn Antenna	ETS LINDGREN	3116	00026370	12/18/2019	12/17/2020
Loop Ant	COM-POWER	AL-130	121051	03/27/2020	03/26/2021
Pre-Amplifier	EMEC	EM330	060609	02/25/2020	02/24/2021
Pre-Amplifier	HP	8449B	3008A00965	02/25/2020	02/24/2021
Pre-Amplifier	MITEQ	AMF-6F-180040 00-37-8P	985646	06/18/2019	06/17/2020
PSA Series Spectrum Analyzer	Agilent	E4446A	MY46180323	05/29/2019	05/28/2020
Antenna Tower	CCS	CC-A-1F	N/A	N.C.R	N.C.R
Controller	CCS	CC-C-1F	N/A	N.C.R	N.C.R
Turn Table	CCS	CC-T-1F	N/A	N.C.R	N.C.R
Software	e3 6.11-20180413				

AC line Conduction Test Room					
Equipment	**Manufacturer**	**Model**	**S/N**	**Cal Date**	**Cal Due**
CABLE	EMCI	CFD300-NL	CERF	06/27/2019	06/26/2020
EMI Test Receiver	R&S	ESCI	100064	07/26/2019	07/25/2020
LISN	SCHAFFNER	NNB 41	03/10013	02/13/2020	02/12/2021
Software	EZ-EMC(CCS-3A1-CE-wugu)				

Remark:

1. Each piece of equipment is scheduled for calibration once a year.

2. N.C.R. = No Calibration Request.

1.7 SUPPORT AND EUT ACCESSORIES EQUIPMENT

EUT Accessories Equipment						
No.	**Equipment**	**Brand**	**Model**	**Series No.**	**FCC ID**	**IC ID**
	N/A					

Support Equipment						
No.	**Equipment**	**Brand**	**Model**	**Series No.**	**FCC ID**	**IC ID**
1	NB(L)	Toshiba	PORTEGE R30-A	N/A	PD97260H	N/A
2	DC Power Source	Agilent	E3640A	N/A	N/A	N/A

1.8 TEST METHODOLOGY AND APPLIED STANDARDS

The test methodology, setups and results comply with all requirements in accordance with ANSI C63.10:2013, FCC Part 2, FCC Part 15.407, KDB 789033 D02, KDB 905462 D02, RSS-247 Issue 2 and RSS-GEN Issue 5, KDB Publication 484596 D01.

2. TEST SUMMARY

FCC Standard Sec.	IC Standard Sec.	Chapter	Test Item	Result
15.203	-	1.3	Antenna Requirement	Pass
15.207	RSS-Gen(8.8)	4.1	AC Conducted Emission	Pass
15.407(a)	RSS-247(6.2.1.1) RSS-247(6.2.2.1) RSS-247(6.2.3.1) RSS-247(6.2.4.1)	4.3	Output Power Measurement	Pass
15.407(b)	RSS-247(6.2.1.2) RSS-247(6.2.2.2) RSS-247(6.2.3.2) RSS-247(6.2.4.2)	4.5	Radiation Band Edge	Pass
15.407(b)	RSS-247(6.2.1.2) RSS-247(6.2.2.2) RSS-247(6.2.3.2) RSS-247(6.2.4.2)	4.5	Radiation Spurious Emission	Pass

3. DESCRIPTION OF TEST MODES

3.1 THE WORST MODE OF OPERATING CONDITION

Operation mode	1. IEEE 802.11a mode: 6Mbps 2. IEEE 802.11n HT 20 MHz mode: MCS0 3. IEEE 802.11n HT 40 MHz mode: MCS0 4. IEEE 802.11ac VHT 80 MHz mode: MCS0
Operating Frequency Range & Number of Channels	

	Mode	Frequency Range (MHz)	Number of Channels
U-NII-1	IEEE 802.11a	5180 ~ 5240	4 Channels
	IEEE 802.11n HT 20 MHz	5180 ~ 5240	4 Channels
	IEEE 802.11n HT 40 MHz	5190 ~ 5230	2 Channels
	IEEE 802.11ac VHT 80 MHz	5210	1 Channels
U-NII-2a	IEEE 802.11a	5260 ~ 5320	4 Channels
	IEEE 802.11n HT 20 MHz	5260 ~ 5320	4 Channels
	IEEE 802.11n HT 40 MHz	5270 ~ 5310	2 Channels
	IEEE 802.11ac VHT 80 MHz	5290	1 Channels
U-NII-2c	IEEE 802.11a	5500 ~ 5700	8 Channels
	IEEE 802.11n HT 20 MHz	5500 ~ 5700	8 Channels
	IEEE 802.11n HT 40 MHz	5510 ~ 5670	3 Channels
	IEEE 802.11ac VHT 80 MHz	5530	1 Channels
U-NII-3	IEEE 802.11a	5745 ~ 5825	5 Channels
	IEEE 802.11n HT 20 MHz	5745 ~ 5825	5 Channels
	IEEE 802.11n HT 40 MHz	5755 ~ 5795	2 Channels
	IEEE 802.11ac VHT 80 MHz	5775	1 Channels

Remark:
1. EUT pre-scanned data rate of output power for each mode, the worst data rate were recorded in this report.
2. Covered modes are test reduction modes. The output powers on the covered modes are equal to or less than the mode referenced and use the same module
3. For Canada the EUT Frequency Range 5600~5650MHz will be disabled.

3.2 THE WORST MODE OF MEASUREMENT

AC Power Line Conducted Emission	
Test Condition	**AC Power line conducted emission for line and neutral**
Power supply Mode	**Mode 1: EUT power by Battery Mode 2: EUT+Cradle**
Worst Mode	**☒ Mode 1 ☐ Mode 2 ☐ Mode 3 ☐ Mode 4**

Radiated Emission Measurement Above 1G	
Test Condition	**Radiated Emission Above 1G**
Power supply Mode	**Mode 1: EUT power by Battery Mode 2: EUT+Cradle**
Worst Mode	**☒ Mode 1 ☐ Mode 2 ☐ Mode 3 ☐ Mode 4**
Worst Position	**☐ Placed in fixed position. ☐ Placed in fixed position at X-Plane (E2-Plane) ☐ Placed in fixed position at Y-Plane (E1-Plane) ☒ Placed in fixed position at Z-Plane (H-Plane)**

Radiated Emission Measurement Below 1G	
Test Condition	**Radiated Emission Below 1G**
Power supply Mode	**Mode 1: EUT power by Battery Mode 2: EUT+Cradle**
Worst Mode	**☒ Mode 1 ☐ Mode 2 ☐ Mode 3 ☐ Mode 4**

Remark:

1. The worst mode was record in this test report.

2. EUT pre-scanned in three axis ,X,Y, Z and two polarity, for radiated measurement. The worst case(Z-Plane) were recorded in this report

3. AC power line conducted emission and for below 1G radiation emission were performed the EUT transmit at the highest output power channel as worse case.

4. TEST RESULT

4.1 AC POWER LINE CONDUCTED EMISSION

4.1.1 Test Limit

According to §15.207(a) and RSS-GEN section 8.8,

Frequency Range (MHz)	Limits(dBμV)	
	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

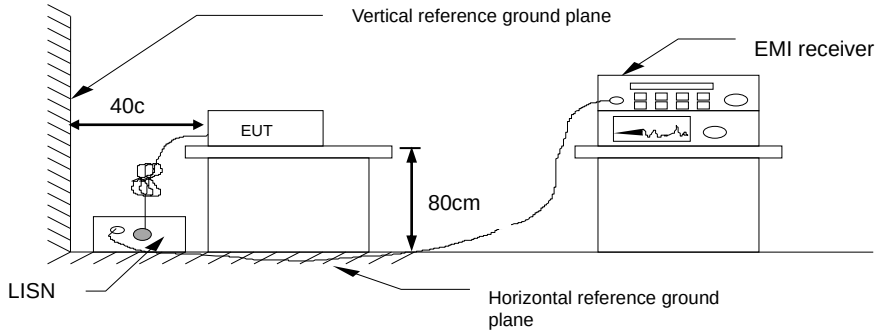
* Decreases with the logarithm of the frequency.

4.1.2 Test Procedure

Test method Refer as ANSI C63.10: 2013 clause 6.2,

1. The EUT was placed on a non-conducted table, which is 0.8m above horizontal ground plane and 0.4m above vertical ground plane.
2. EUT connected to the line impedance stabilization network (LISN)
3. Receiver set RBW of 9kHz and Detector Peak, and note as quasi-peak and average.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. Recorded Line for Neutral and Line.

4.1.3 Test Setup

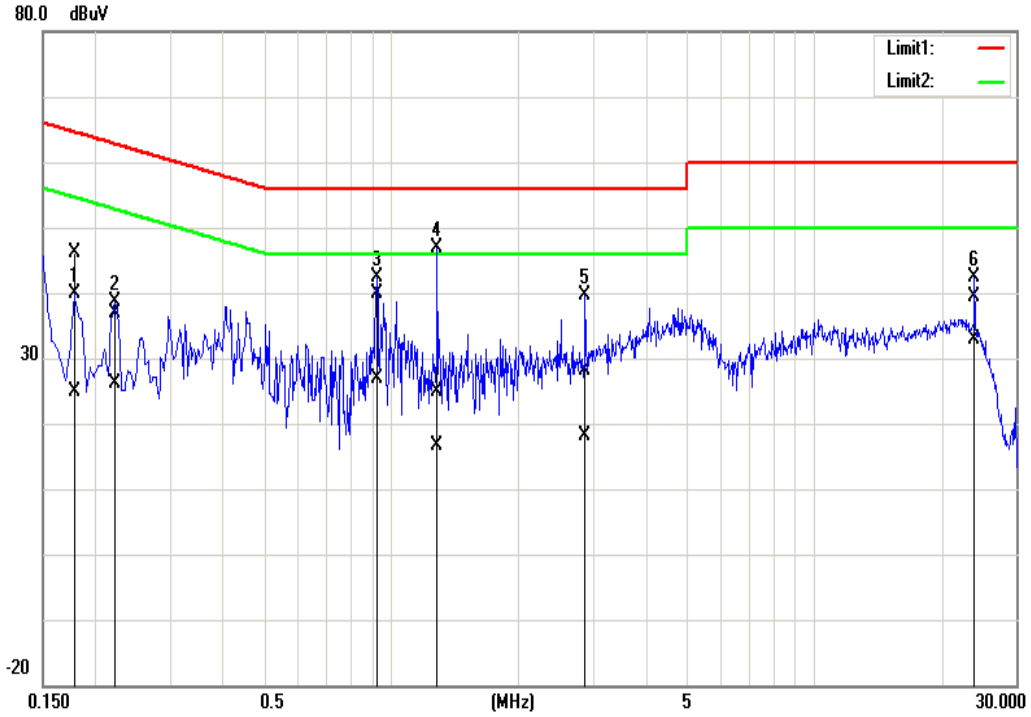


4.1.4 Test Result

Pass.

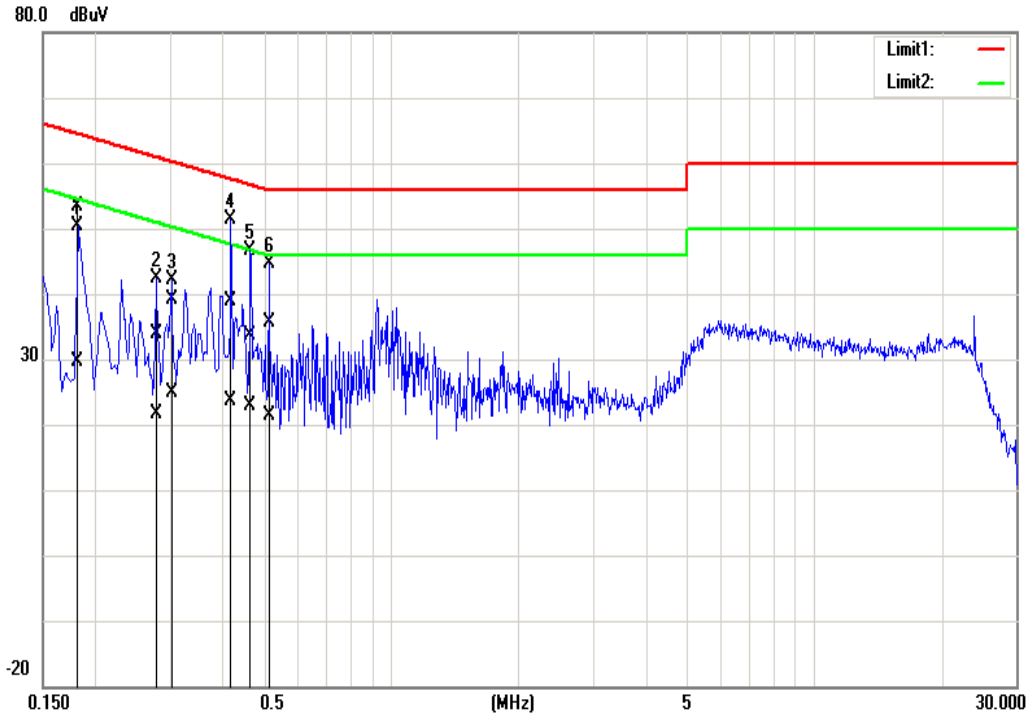
Test Data

Test Mode:	Mode 1	Temp/Hum	24(℃)/ 50%RH
Phase:	Line	Test Date	June 1, 2020
		Test Engineer	Dally Hong



Frequency (MHz)	Quasi Peak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	Quasi Peak result (dBuV)	Average result (dBuV)	Quasi Peak limit (dBuV)	Average limit (dBuV)	Quasi Peak margin (dB)	Average margin (dB)	Remark
0.1780	35.97	14.56	10.21	41.18	24.77	64.57	54.58	-18.39	-29.81	Pass
0.2220	26.65	15.97	10.21	35.86	26.18	62.74	52.74	-25.88	-26.56	Pass
0.9260	29.70	16.58	10.24	35.94	26.82	56.00	46.00	-16.06	-19.18	Pass
1.2860	14.61	6.43	10.25	35.86	16.68	56.00	46.00	-31.14	-29.32	Pass
2.8820	17.74	7.77	10.28	31.02	18.05	56.00	46.00	-27.98	-27.95	Pass
23.9220	29.06	22.66	10.33	32.39	32.99	60.00	50.00	-20.61	-17.01	Pass

Test Mode:	Mode 1	Temp/Hum	24(℃)/ 50%RH
Phase:	Neutral	Test Date	June 1, 2020
		Test Engineer	Dally Hong



Frequency (MHz)	Quasi Peak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	Quasi Peak result (dBuV)	Average result (dBuV)	Quasi Peak limit (dBuV)	Average limit (dBuV)	Quasi Peak margin (dB)	Average margin (dB)	Remark
0.1820	43.12	19.38	10.19	38.31	29.57	64.39	54.39	-11.08	-24.82	Pass
0.2780	23.70	11.52	10.19	35.89	21.71	60.88	50.88	-26.99	-29.17	Pass
0.3020	28.93	14.62	10.19	42.12	24.81	60.19	50.19	-21.07	-25.38	Pass
0.4180	28.78	13.33	10.19	46.97	23.52	57.49	47.49	-18.52	-23.97	Pass
0.4660	23.50	12.59	10.19	38.69	22.78	56.58	46.58	-22.89	-23.80	Pass
0.5140	25.52	11.20	10.19	37.71	21.39	56.00	46.00	-20.29	-24.61	Pass

4.2 OUTPUT POWER MEASUREMENT

4.2.1 Test Limit

According to §15.407 (a)(1), 15.407(a)(2) and 15.407(a)(3), and RSS-247 section 6.2.1.1, section 6.2.2.1, section 6.2.3.1 and section 6.2.4.1

FCC:

UNII-1 :

For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW(24 dBm), whichever power is less. B is the 99% emission bandwidth in megahertz, provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. 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.

UNII-2a and 2c:

the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. and The maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 Log10 B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz. 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.

UNII-3:

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. 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.

IC:

UNII-1 :

For OEM devices installed in vehicles, the maximum e.i.r.p. shall not exceed 30 mW or 1.76 + 10 log10B, dBm, whichever is less. Devices shall implement transmitter power control (TPC) in order to have the capability to operate at least 3 dB below the maximum permitted e.i.r.p. of 30 mW.

For other devices, the maximum e.i.r.p. shall not exceed 200 mW or 10 + 10 log10B, dBm, whichever power is less. B is the 99% emission bandwidth in megahertz. The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.

UNII-2a and 2c:

For OEM devices installed in vehicles, the maximum e.i.r.p. shall not exceed 30 mW or 1.76 + 10 log10B, dBm, whichever is less. Devices shall implement TPC in order to have the capability to operate at least 3 dB below the maximum permitted e.i.r.p. of 30 mW.

Devices, other than devices installed in vehicles, shall comply with the following:

The maximum conducted output power shall not exceed 250 mW or 11 + 10 log10B, dBm, whichever is less. The power spectral density shall not exceed 11 dBm in any 1.0 MHz band;

The maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log10B, dBm, whichever is less. B is the 99% emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

UNII-2c (5470-5600 MHz and 5650-5725 MHz)

The maximum conducted output power shall not exceed 250 mW or 11 + 10 log10B, dBm, whichever is less. The power spectral density shall not exceed 11 dBm in any 1.0 MHz band.

The maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log10B, dBm, whichever is less. B is the 99% emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

UNII-3:

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. 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.

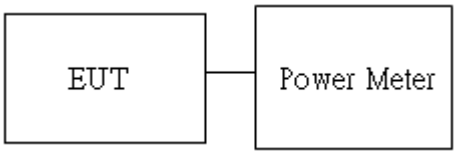
UNII-1 Limit	☒ Antenna not exceed 6 dBi：24dBm (EIRP: 23dBm) ☐ Antenna with DG greater than 6 dBi： [Limit = 30 – (DG – 6)]
UNII-2a/2c Limit	☒ Antenna not exceed 6 dBi：24dBm (EIRP: 30dBm) ☐ Antenna with DG greater than 6 dBi： [Limit = 30 – (DG – 6)]
UNII-3 Limit	☒ Antenna not exceed 6 dBi：30dBm ☐ Antenna with DG greater than 6 dBi： [Limit = 30 – (DG – 6)]

4.2.2 Test Procedure

Test method Refer as KDB 789033 D02,

1. The EUT RF output connected to the power meter by RF cable.
2. Setting maximum power transmit of EUT.
3. The path loss was compensated to the results for each measurement.
4. Measure and record the result of Average output power. in the test report.

4.2.3 Test Setup



4.2.4 Test Result

Conducted output power：

UNII-1											
Config	CH	Freq. (MHz)	Power Set	AV Power (dBm)	AV Total Power (dBm)	EIRP AV Total Power (dBm)	AV Total Power (W)	EIRP AV Total Power (W)	DG (dBi)	Limit (dBm)	EIRP Limit (dBm)
IEEE 802.11a	36	5180	15.5	11.78	11.78	13.03	0.0151	0.0201	1.25	24	23
	44	5220	15.0	11.64	11.64	12.89	0.0146	0.0195			
	48	5240	15.5	11.91	**11.91**	13.16	0.0155	0.0207			
IEEE 802.11n HT20	36	5180	15.5	11.73	11.73	12.98	0.0149	0.0199			
	44	5220	15.5	11.62	11.62	12.87	0.0145	0.0194			
	48	5240	17	11.86	**11.86**	13.11	0.0153	0.0205			
IEEE 802.11n HT40	38	5190	15.0	11.80	**11.80**	13.05	0.0151	0.0202			
	46	5230	15.5	11.74	11.74	12.99	0.0149	0.0199			
IEEE 802.11ac VHT80	42	5210	14.0	10.91	**10.91**	12.16	0.0123	0.0164			

UNII-2a											
Config	**CH**	**Freq. (MHz)**	**Power Set**	**AV Power (dBm)**	**AV Total Power (dBm)**	**EIRP AV Total Power (dBm)**	**AV Total Power (W)**	**EIRP AV Total Power (W)**	**DG (dBi)**	**Limit (dBm)**	**EIRP Limit (dBm)**
IEEE 802.11a	52	5260	14.0	11.63	11.63	12.88	0.0146	0.0194	1.25	24	30
	56	5280	14.5	11.54	11.54	12.79	0.0143	0.0190			
	64	5320	14.5	11.68	**11.68**	12.93	0.0147	0.0196			
IEEE 802.11n HT20	52	5260	14.0	11.74	11.74	12.99	0.0149	0.0199			
	56	5280	14.5	11.91	**11.91**	13.16	0.0155	0.0207			
	64	5320	14.5	11.57	11.57	12.82	0.0144	0.0191			
IEEE 802.11n HT40	54	5270	14.5	11.90	**11.90**	13.15	0.0155	0.0207			
	62	5310	17.0	11.61	11.61	12.86	0.0145	0.0193			
IEEE 802.11ac VHT80	58	5290	15.0	10.66	**10.66**	11.91	0.0116	0.0155			

UNII-2c											
Config	**CH**	**Freq. (MHz)**	**Power Set**	**AV Power (dBm)**	**AV Total Power (dBm)**	**EIRP AV Total Power (dBm)**	**AV Total Power (W)**	**EIRP AV Total Power (W)**	**DG (dBi)**	**Limit (dBm)**	**EIRP Limit (dBm)**
IEEE 802.11a	100	5500	15.0	11.34	**11.34**	12.59	0.0136	0.0181	1.25	24	30
	116	5580	14.0	11.21	11.21	12.46	0.0132	0.0176			
	140	5700	12.5	11.32	11.32	12.57	0.0135	0.0181			
IEEE 802.11n HT20	100	5500	15.0	11.38	**11.38**	12.63	0.0137	0.0183			
	116	5580	14.0	11.27	11.27	12.52	0.0134	0.0179			
	140	5700	12.5	11.29	11.29	12.54	0.0135	0.0179			
IEEE 802.11n HT40	102	5510	15.0	11.25	11.25	12.50	0.0133	0.0178			
	110	5550	14.5	11.15	11.15	12.40	0.0130	0.0174			
	134	5670	13.0	11.30	**11.30**	12.55	0.0135	0.0180			
IEEE 802.11ac VHT80	106	5530	12.0	10.82	**10.82**	12.07	0.0121	0.0161			

UNII-3										
Config	**CH**	**Freq. (MHz)**	**Power Set**	**AV Power (dBm)**	**AV Total Power (dBm)**	**EIRP AV Total Power (dBm)**	**AV Total Power (W)**	**EIRP AV Total Power (W)**	**DG (dBi)**	**Limit (dBm)**
IEEE 802.11a	149	5745	12.5	11.29	11.29	12.54	0.0135	0.0179	1.25	30
	157	5785	13.0	11.42	11.42	12.67	0.0139	0.0185		
	165	5825	13.0	11.49	**11.49**	12.74	0.0141	0.0188		
IEEE 802.11n HT20	149	5475	12.5	11.32	11.32	12.57	0.0136	0.0181		
	157	5785	12.5	11.28	11.28	12.53	0.0134	0.0179		
	165	5825	13.0	11.34	**11.34**	12.59	0.0136	0.0182		
IEEE 802.11n HT40	151	5755	13.0	11.15	11.15	12.40	0.0130	0.0174		
	159	5795	13.5	11.28	**11.28**	12.53	0.0134	0.0179		
IEEE 802.11ac VHT80	155	5775	11.5	10.72	**10.72**	11.97	0.0118	0.0157		

4.3 RADIATION BANDEDGE AND SPURIOUS EMISSION

4.3.1 Test Limit

According to §15.407, §15.209 and §15.205,
According to RSS-247 section 6.2.1.2 and section 6.2.4.2

Below 30 MHz

Frequency	Field Strength (microvolts/m)	Magnetic H-Field (microamperes/m)	Measurement Distance (metres)
9-490 kHz	2,400/F (F in kHz)	2,400/F (F in kHz)	300
490-1,705 kHz	24,000/F (F in kHz)	24,000/F (F in kHz)	30
1.705-30 MHz	30	N/A	30

Above 30 MHz

Frequency (MHz)	Field Strength microvolts/m at 3 metres (watts, e.i.r.p.)	
	Transmitters	Receivers
30-88	100 (3 nW)	100 (3 nW)
88-216	150 (6.8 nW)	150 (6.8 nW)
216-960	200 (12 nW)	200 (12 nW)
Above 960	500 (75 nW)	500 (75 nW)

RSS-Gen Table 3 and Table 5 – General Field Strength Limits for Transmitters and Receivers at Frequencies Above 30 MHz (Note)

Frequency (MHz)	Field Strength microvolts/m at 3 metres (watts, e.i.r.p.)	
	Transmitters	Receivers
30-88	100 (3 nW)	100 (3 nW)
88-216	150 (6.8 nW)	150 (6.8 nW)
216-960	200 (12 nW)	200 (12 nW)
Above 960	500 (75 nW)	500 (75 nW)

Note: Measurements for compliance with the limits in table 3 may be performed at distances other than 3 metres, in accordance with Section 6.6.

RSS-Gen Table 6: General Field Strength Limits for Transmitters at Frequencies Below 30 MHz (Transmit)

Frequency	Magnetic field strength (H-Field) (μA/m)	Measurement Distance (m)
9-490 kHz Note	6.37/F (F in kHz)	300
490-1,705 kHz	63.7/F (F in kHz)	30
1.705-30 MHz	0.08	30

Note: The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector..

UNII-1 :

For transmitters operating in the band 5150-5250 MHz, all emissions outside the band 5150-5350 MHz shall not exceed -27 dBm/MHz e.i.r.p. However, any unwanted emissions that fall into the band 5250-5350 MHz must be 26 dBc, when measured using a resolution bandwidth between 1 and 5% of the occupied bandwidth, above 5.25 GHz. Otherwise, the transmission is considered as intentional and the devices shall implement dynamic frequency selection (DFS) and transmitter power control (TPC) as per the requirements for the band 5250-5350 MHz

UNII-2a and 2c :

For devices with operating frequencies in the band 5250-5350 MHz but having a channel bandwidth that overlaps the band 5150-5250 MHz, the devices' unwanted emission shall not exceed -27 dBm/MHz e.i.r.p. outside the band 5150-5350 MHz and its power shall comply with the spectral power density for operation within the band 5150-5250 MHz. The device shall be labelled "for indoor use only." Emissions outside the band 5470-5725 MHz shall not exceed -27 dBm/MHz e.i.r.p.

UNII-3:

For the band 5725-5850 MHz, emissions at frequencies from the band edges to 10 MHz above or below the band edges shall not exceed -17 dBm/MHz e.i.r.p.
For emissions at frequencies more than 10 MHz above or below the band edges, the emissions power shall not exceed -27 dBm/MHz

4.3.2 Test Procedure

Test method Refer as KDB 789033 D02.

1. The EUT is placed on a turntable, Above 1 GHz is 1.5m and below 1 GHz is 0.8m above ground plane. The EUT Configured un accordance with ANSI C63.10: 2013, and the EUT set in a continuous mode.

2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level. And EUT is set 3m away from the receiving antenna, which is scanned from 1m to 4m above the ground plane to find out the highest emissions. Measurement are made polarized in both the vertical and the horizontal positions with antenna.

3. Span shall wide enough to full capture the emission measured. The SA from 9kHz to 26.5GHz set to the low, Mid and High channels with the EUT transmit.

4. No emission found between lowest internal used/generated frequency to 30MHz (9KHz~30MHz)

5. The SA setting following：

(1) Below 1G：RBW = 100kHz, VBW ≥ 3*RBW, Sweep = Auto, Detector = Peak, Trace = Max hold.

(2) Above 1G：

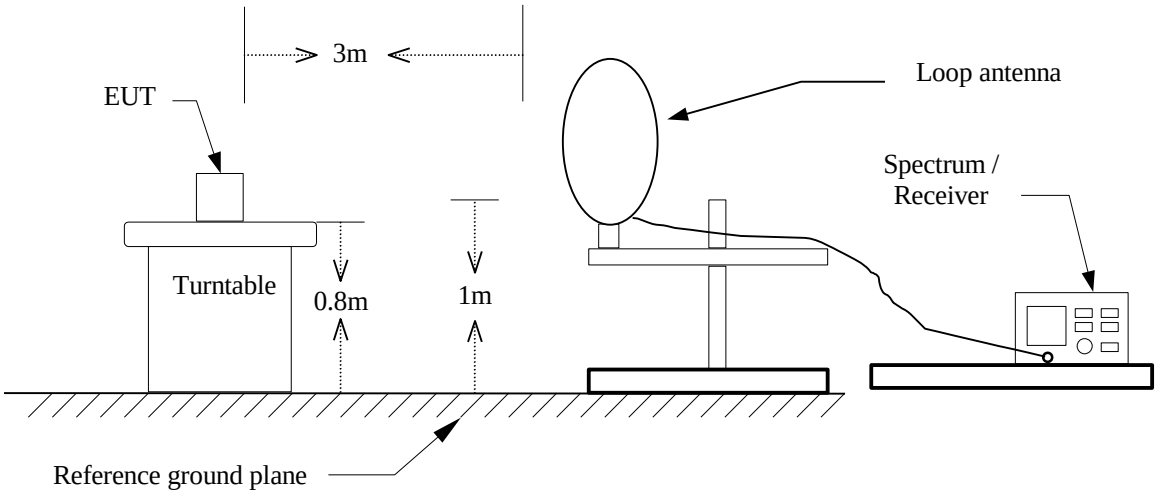
(2.1) For Peak measurement：RBW = 1MHz, VBW ≥ 3 RBW, Sweep = Auto, Detector = Peak, Trace = Max hold.

(2.2) For Average measurement：RBW = 1MHz, VBW

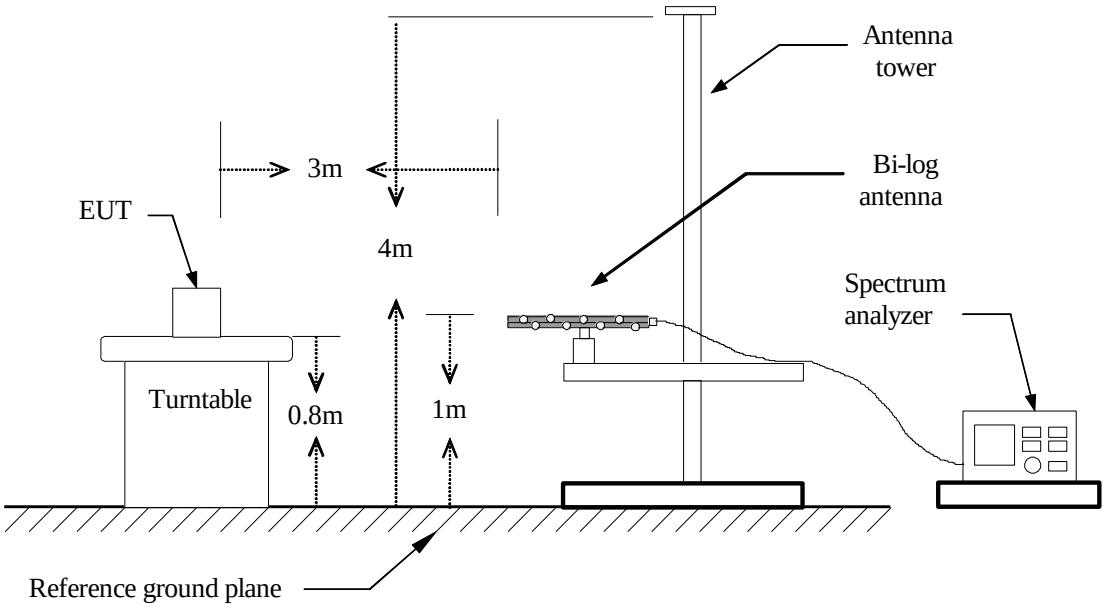
- If Duty Cycle ≥ 98%, VBW=10Hz.
- If Duty Cycle < 98%, VBW=1/T.

4.3.3 Test Setup

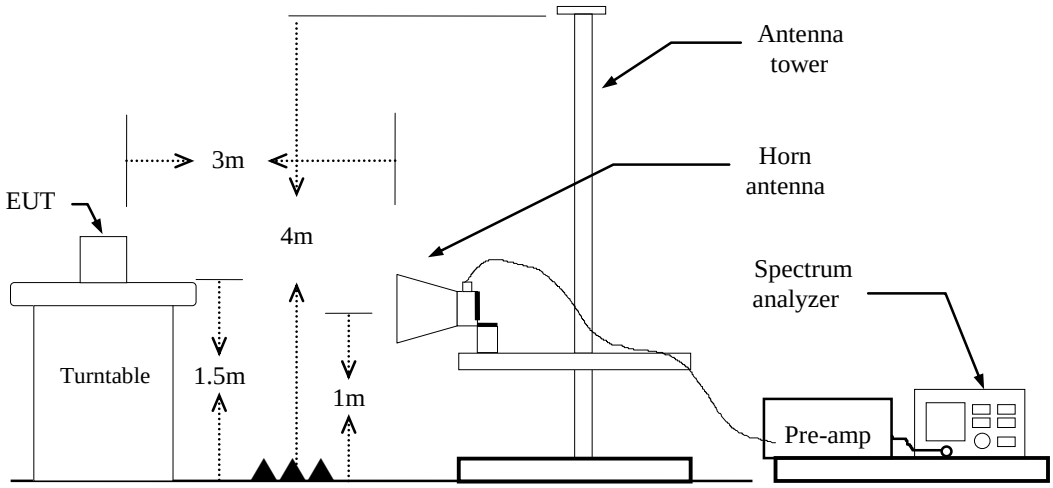
9kHz ~ 30MHz



30MHz ~ 1GHz



Above 1 GHz

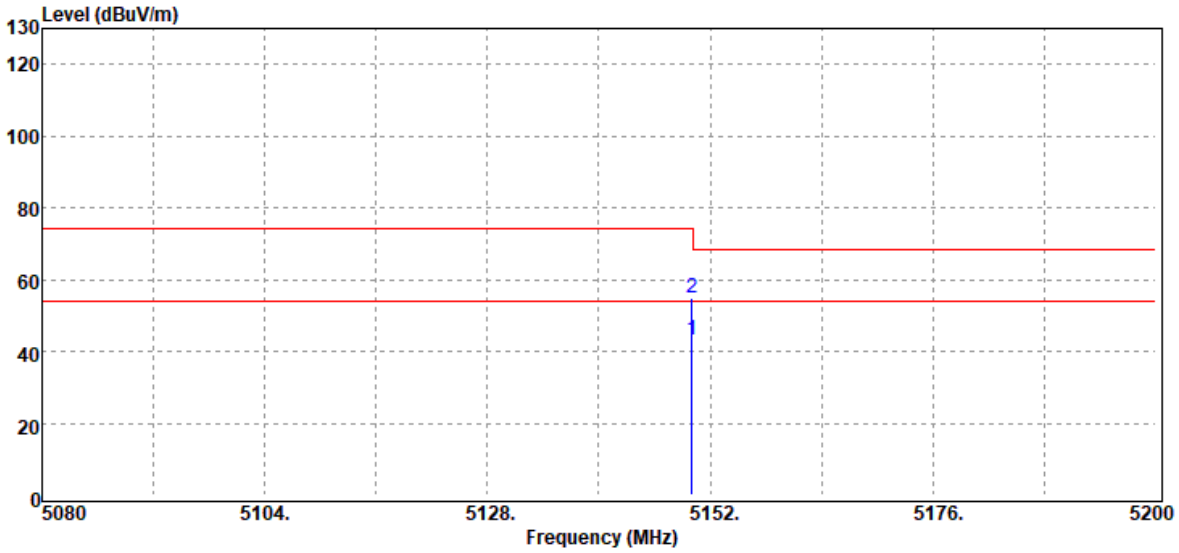


4.3.4 Test Result

Band Edge Test Data

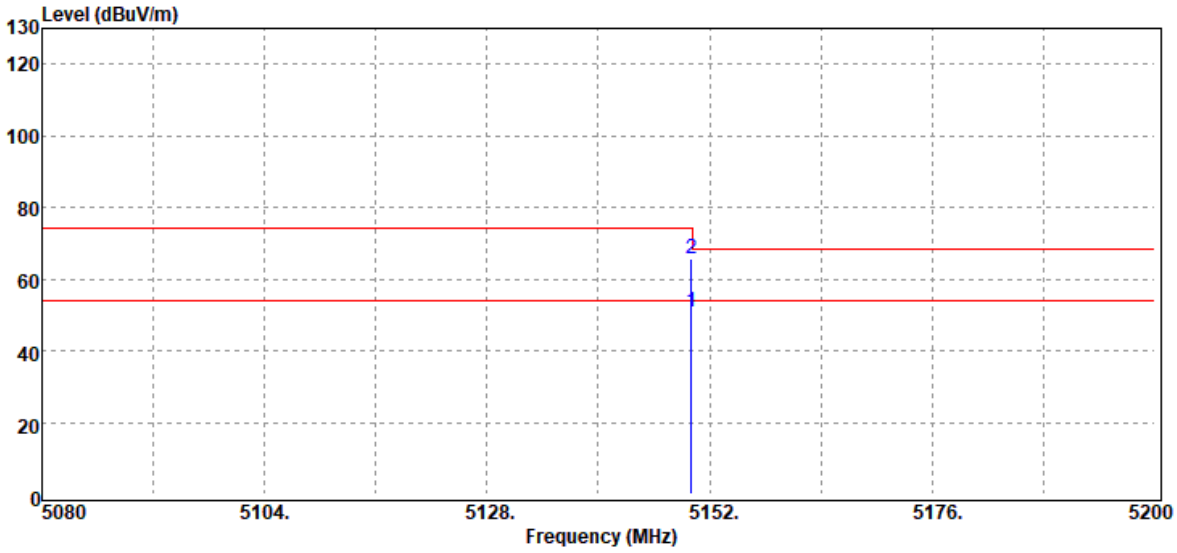
Test Data for UNII-1

Test Mode	IEEE 802.11a / 5180MHZ	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Band Edge	Test Date	June 4, 2020
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak and Average		



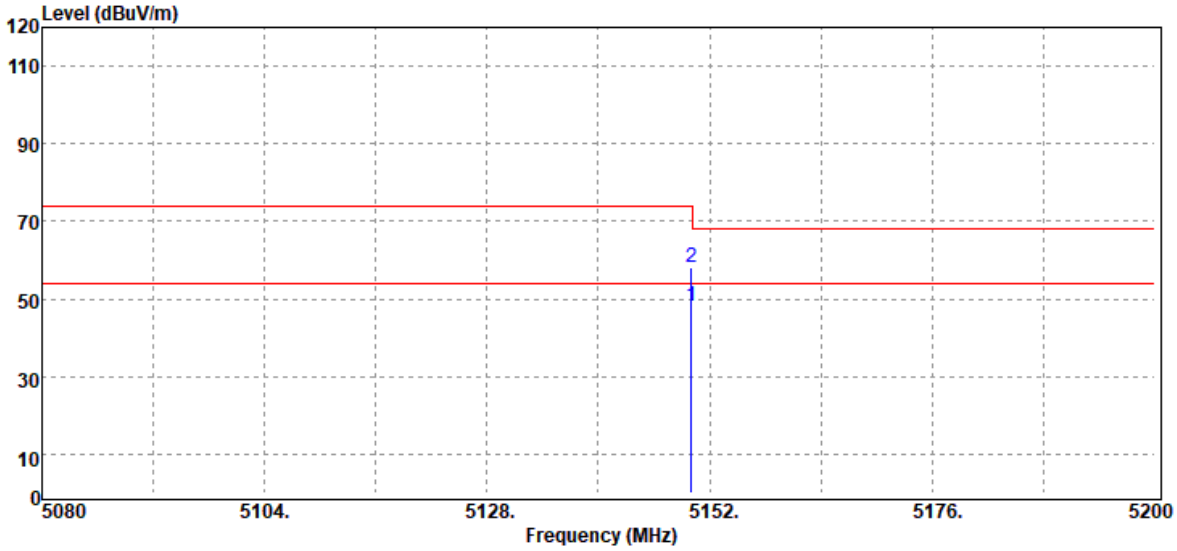
Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5150.00	Average	37.45	5.58	43.03	54.00	-10.97
5150.00	Peak	49.33	5.58	54.91	74.00	-19.09

Test Mode	IEEE 802.11a / 5180MHZ	Temp/Hum	24(℃)/ 50%RH
Test Item	Band Edge	Test Date	June 4, 2020
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak / Average		



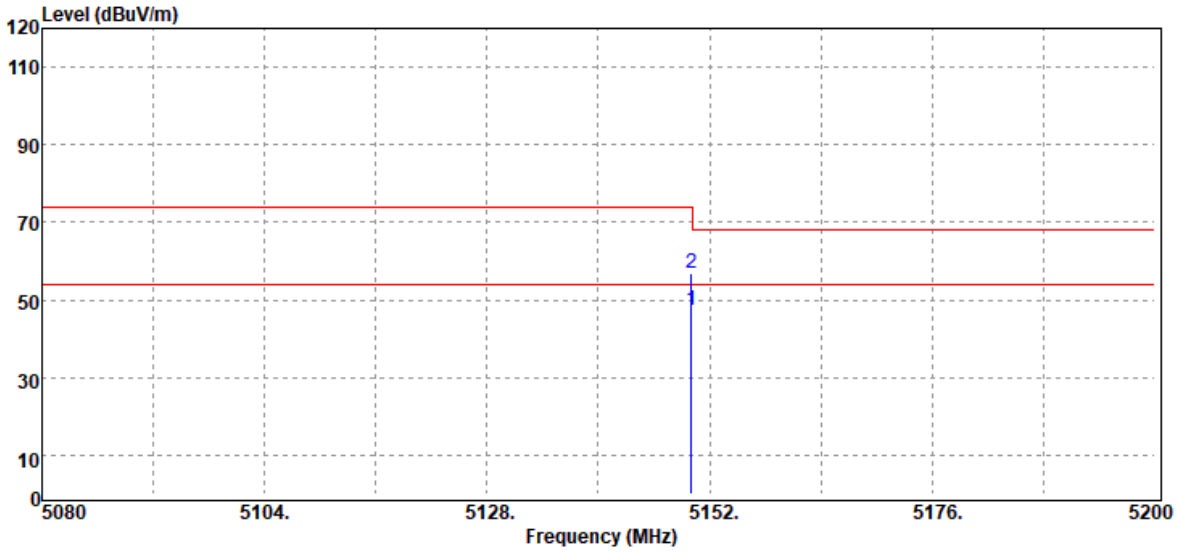
Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5150.00	Average	45.18	5.58	50.76	54.00	-3.24
5150.00	Peak	59.93	5.58	65.51	74.00	-8.49

Test Mode	IEEE 802.11n 20 MHz / 5180MHZ	Temp/Hum	24(℃)/ 50%RH
Test Item	Band Edge	Test Date	June 5, 2020
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak and Average		



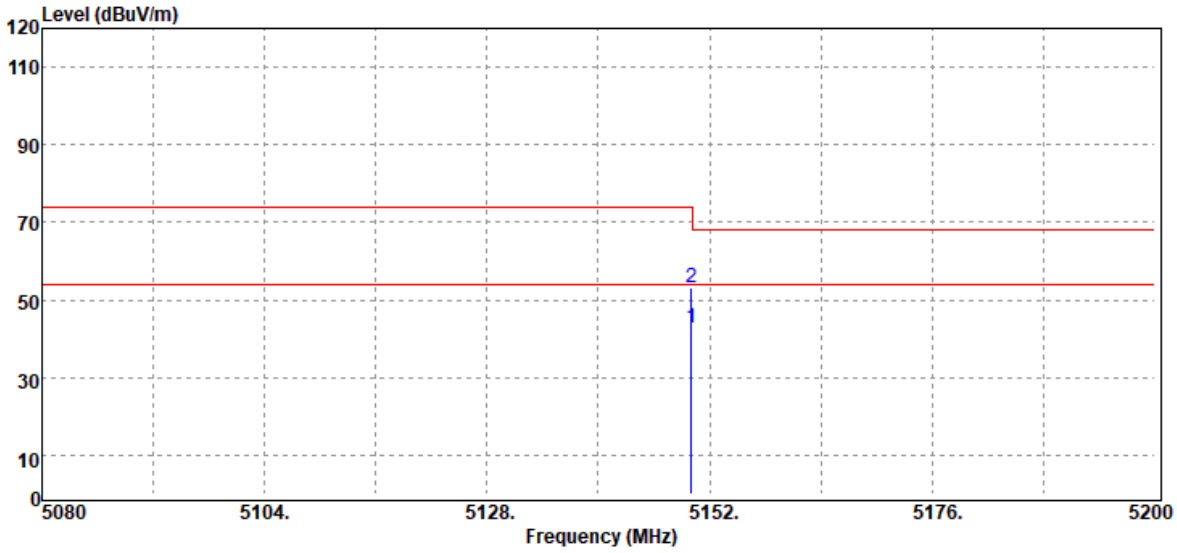
Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5150.00	Average	42.64	5.58	48.22	54.00	-5.78
5150.00	Peak	52.58	5.58	58.16	74.00	-15.84

Test Mode	IEEE 802.11n 20 MHz / 5180MHZ	Temp/Hum	24(℃)/ 50%RH
Test Item	Band Edge	Test Date	June 5, 2020
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak and Average		



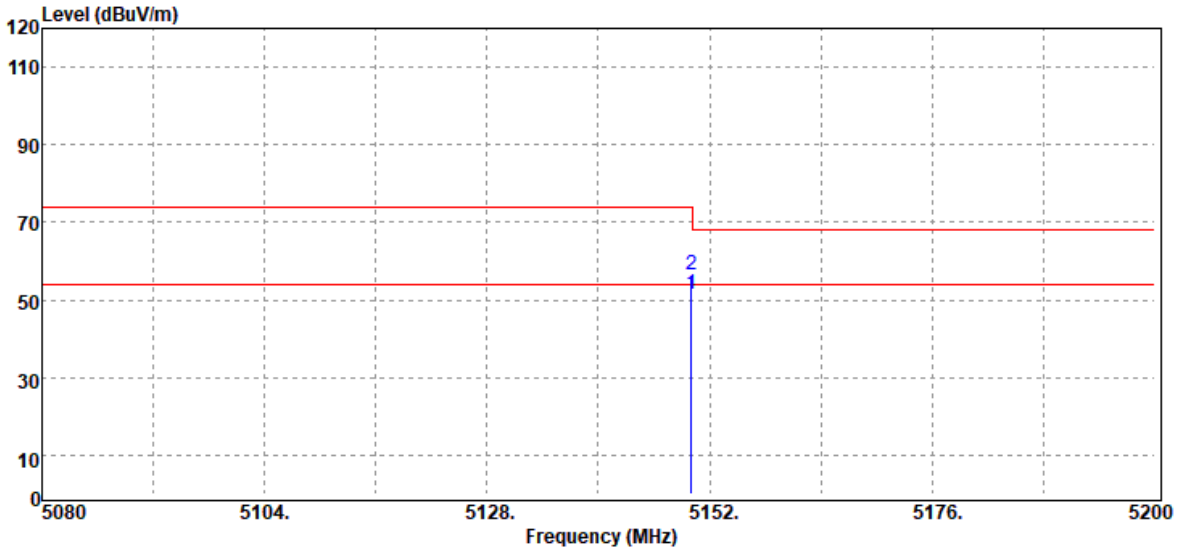
Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5150.00	Average	41.91	5.58	47.49	54.00	-6.51
5150.00	Peak	51.50	5.58	57.08	74.00	-16.92

Test Mode	IEEE 802.11n 40 MHz / 5190MHZ	Temp/Hum	24(℃)/ 50%RH
Test Item	Band Edge	Test Date	June 4, 2020
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak and Average		



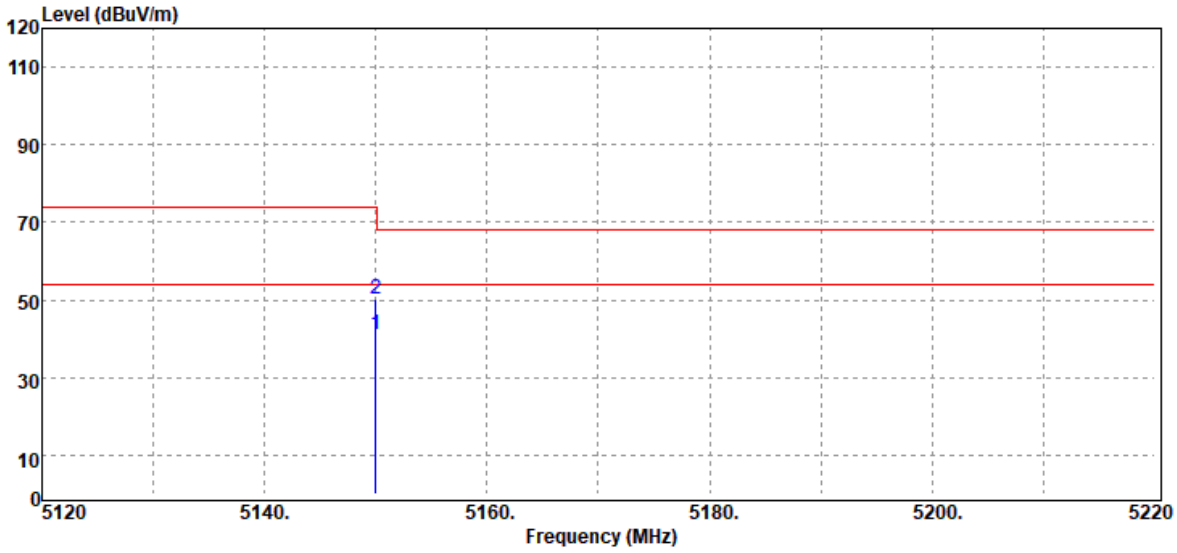
Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5150.00	Average	37.18	5.58	42.76	54.00	-11.24
5150.00	Peak	47.63	5.58	53.21	74.00	-20.79

Test Mode	IEEE 802.11n 40 MHz / 5190MHZ	Temp/Hum	24(℃)/ 50%RH
Test Item	Band Edge	Test Date	June 4, 2020
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak and Average		



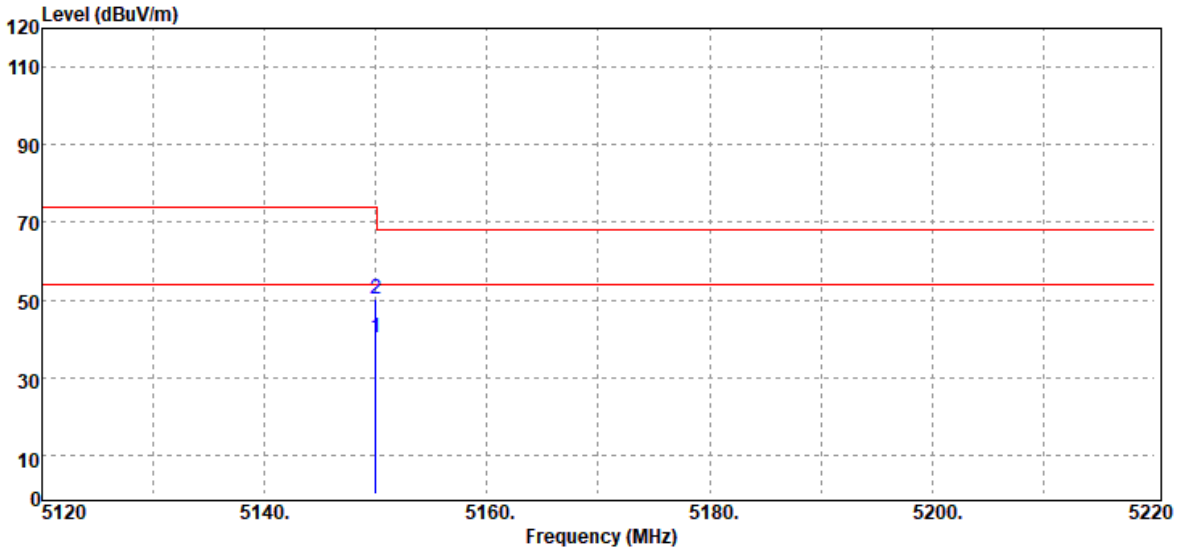
Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5150.00	Average	45.96	5.58	51.54	54.00	-2.46
5150.00	Peak	50.98	5.58	56.56	74.00	-17.44

Test Mode	IEEE 802.11ac VHT80 / 5210MHZ	Temp/Hum	24(℃)/ 50%RH
Test Item	Band Edge	Test Date	June 5, 2020
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak and Average		



Frequency (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	35.49	5.58	41.07	54.00	-12.93
5150.00	Peak	44.68	5.58	50.26	74.00	-23.74

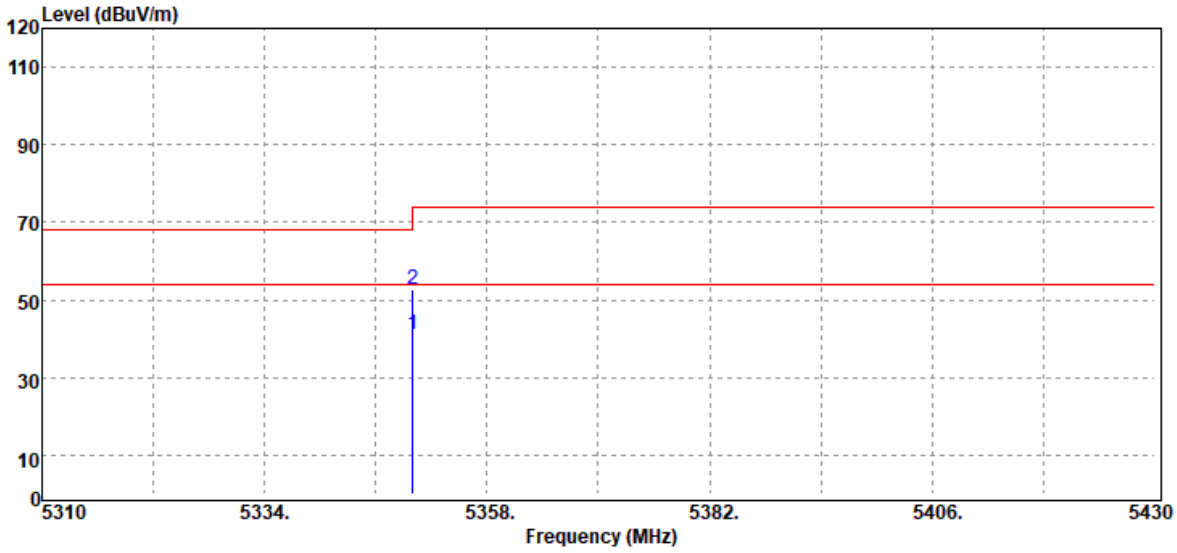
Test Mode	IEEE 802.11ac VHT80 / 5210MHZ	Temp/Hum	24(℃)/ 50%RH
Test Item	Band Edge	Test Date	June 5, 2020
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak and Average		



Frequency (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	34.68	5.58	40.26	54.00	-13.74
5150.00	Peak	44.86	5.58	50.44	74.00	-23.56

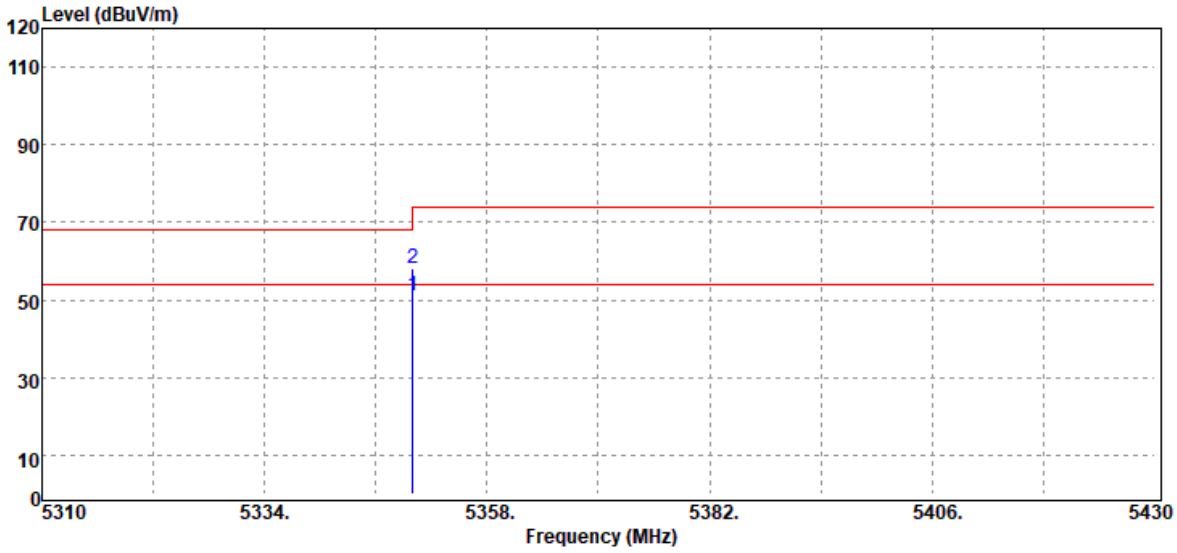
Test Data for UNII-2a

Test Mode	IEEE 802.11a / 5320 MHz	Temp/Hum	24(℃)/ 50%RH
Test Item	Band Edge	Test Date	June 4, 2020
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak and Average		



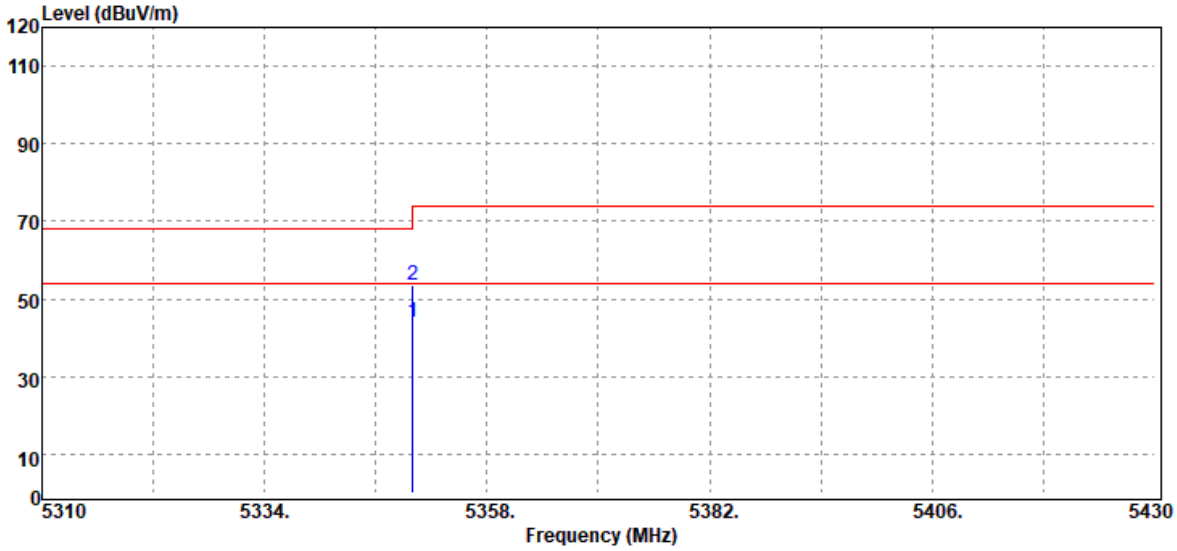
Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5350.00	Average	35.28	5.82	41.10	54.00	-12.90
5350.00	Peak	46.77	5.82	52.59	74.00	-21.41

Test Mode	IEEE 802.11a / 5320 MHz	Temp/Hum	24(℃)/ 50%RH
Test Item	Band Edge	Test Date	June 4, 2020
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak and Average		



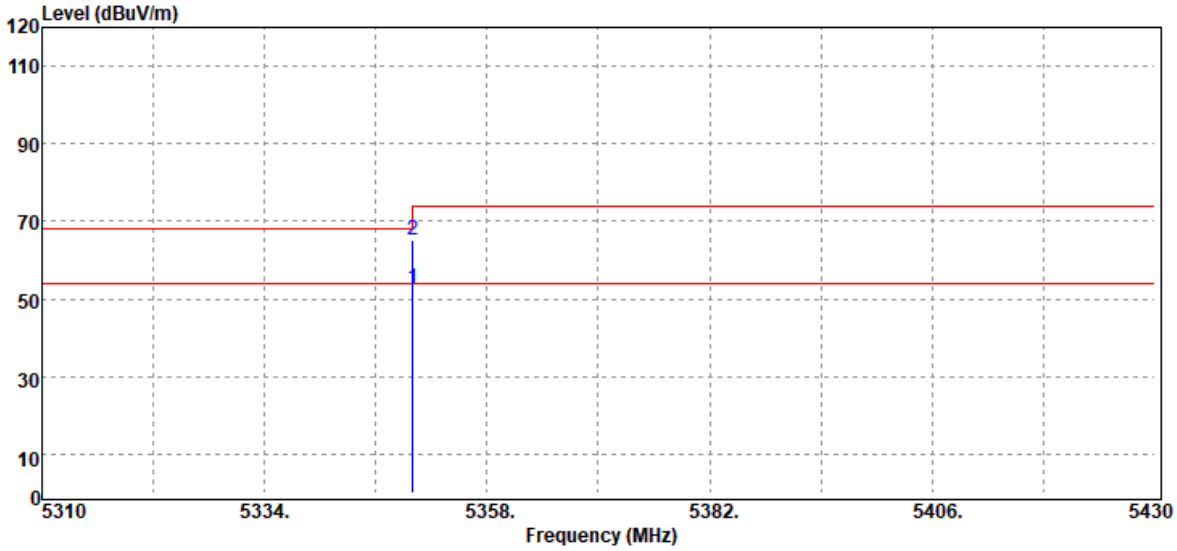
Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5350.00	Average	45.13	5.82	50.95	54.00	-3.05
5350.00	Peak	52.47	5.82	58.29	74.00	-15.71

Test Mode	IEEE 802.11n 20 MHz / 5320MHz	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Band Edge	Test Date	June 4, 2020
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak and Average		



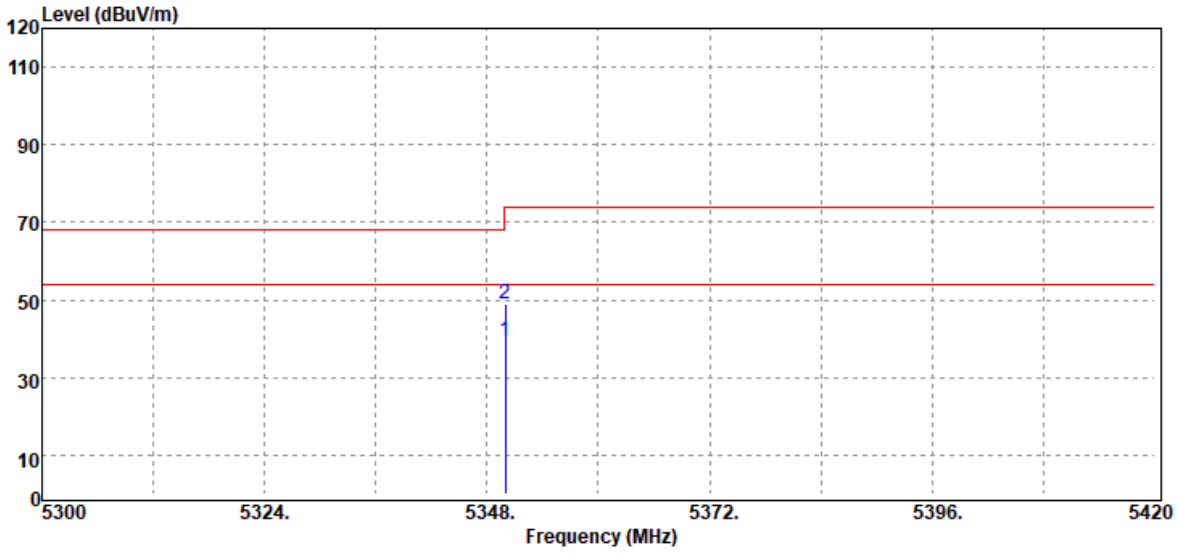
Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5350.00	Average	38.35	5.82	44.17	54.00	-9.83
5350.00	Peak	47.65	5.82	53.47	74.00	-20.53

Test Mode	IEEE 802.11n 20 MHz / 5320MHz	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Band Edge	Test Date	June 4, 2020
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak and Average		



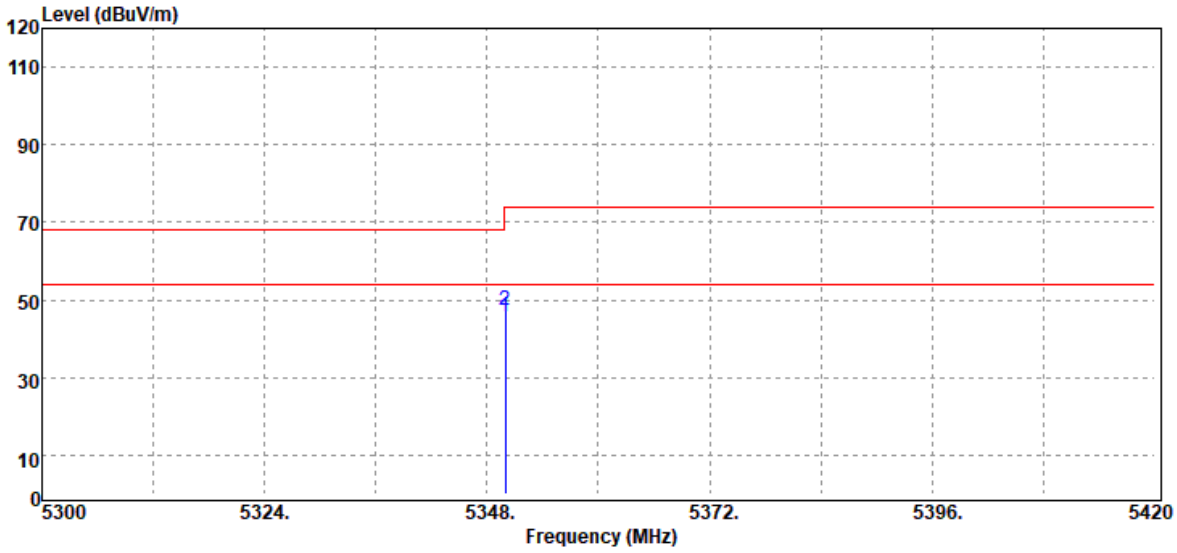
Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5350.00	Average	47.00	5.82	52.82	54.00	-1.18
5350.00	Peak	59.44	5.82	65.26	74.00	-8.74

Test Mode	IEEE 802.11n 40 MHz / 5310MHz	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Band Edge	Test Date	June 4, 2020
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak and Average		



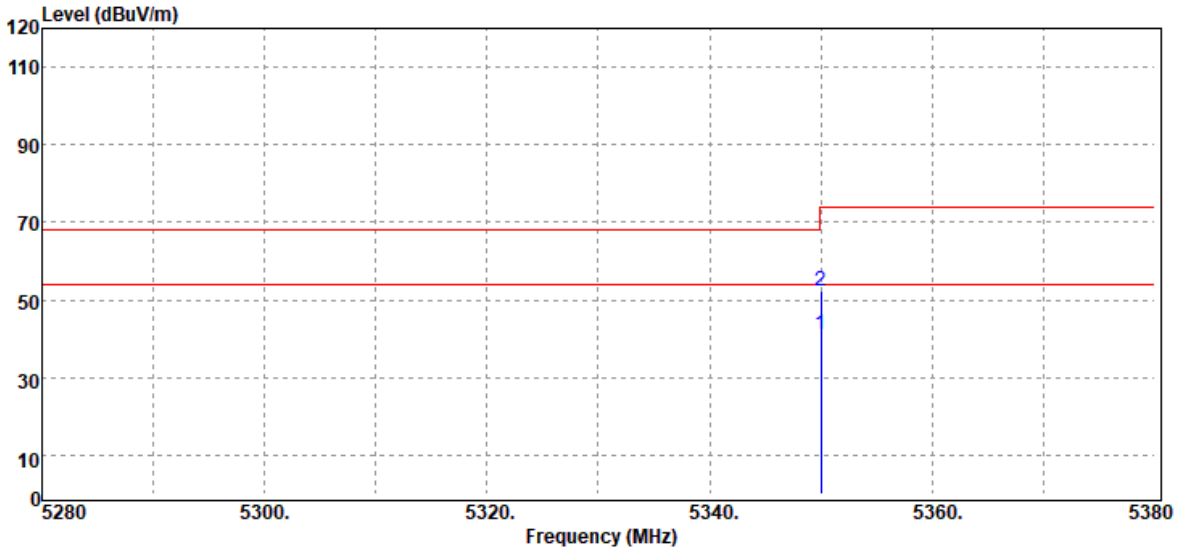
Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5350.00	Average	33.68	5.82	39.50	54.00	-14.50
5350.00	Peak	42.98	5.82	48.80	74.00	-25.20

Test Mode	IEEE 802.11n 40 MHz / 5310MHz	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Band Edge	Test Date	June 4, 2020
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak and Average		



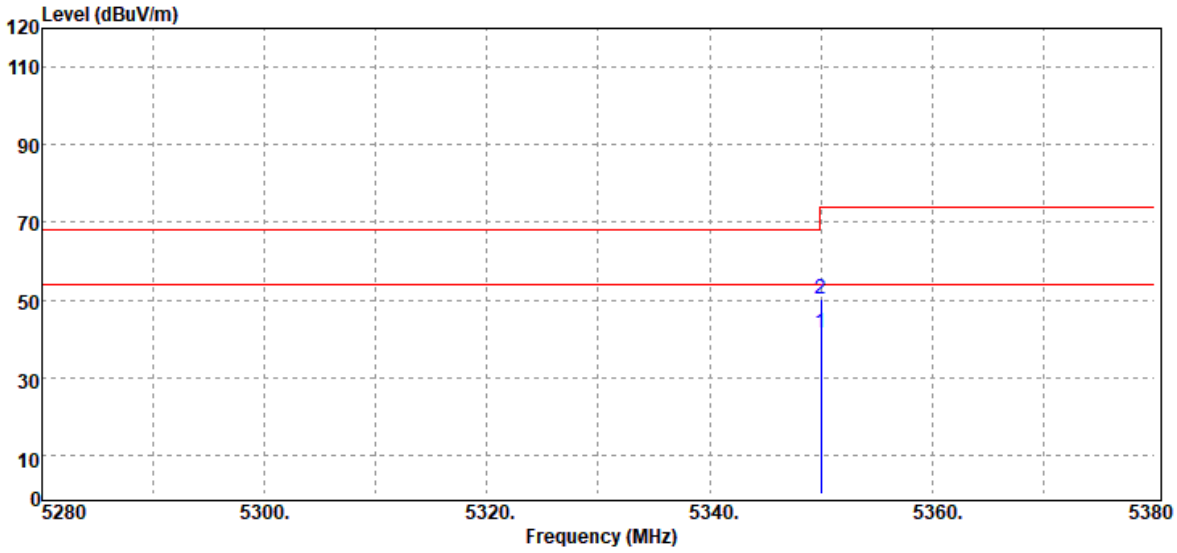
Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5350.00	Average	39.86	5.82	45.68	54.00	-8.32
5350.00	Peak	41.67	5.82	47.49	74.00	-26.51

Test Mode	IEEE 802.11ac VHT80 / 5290MHz	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Band Edge	Test Date	June 5, 2020
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak and Average		



Frequency (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	35.38	5.82	41.20	54.00	-12.80
5350.00	Peak	46.31	5.82	52.13	74.00	-21.87

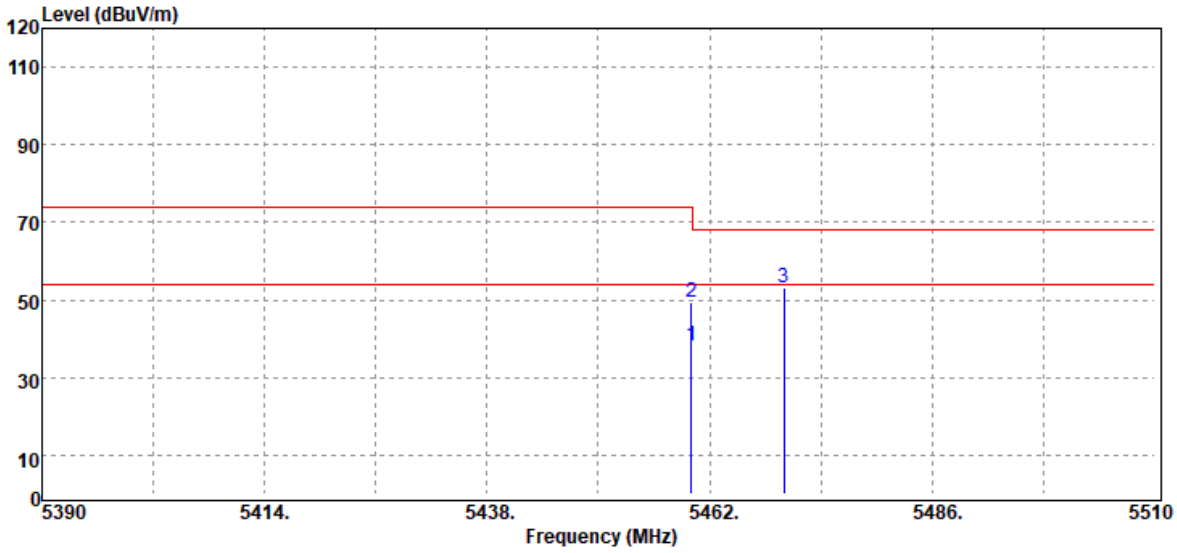
Test Mode	IEEE 802.11ac VHT80 / 5290MHz	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Band Edge	Test Date	June 5, 2020
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak and Average		



Frequency (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	35.68	5.82	41.50	54.00	-12.50
5350.00	Peak	44.38	5.82	50.20	74.00	-23.80

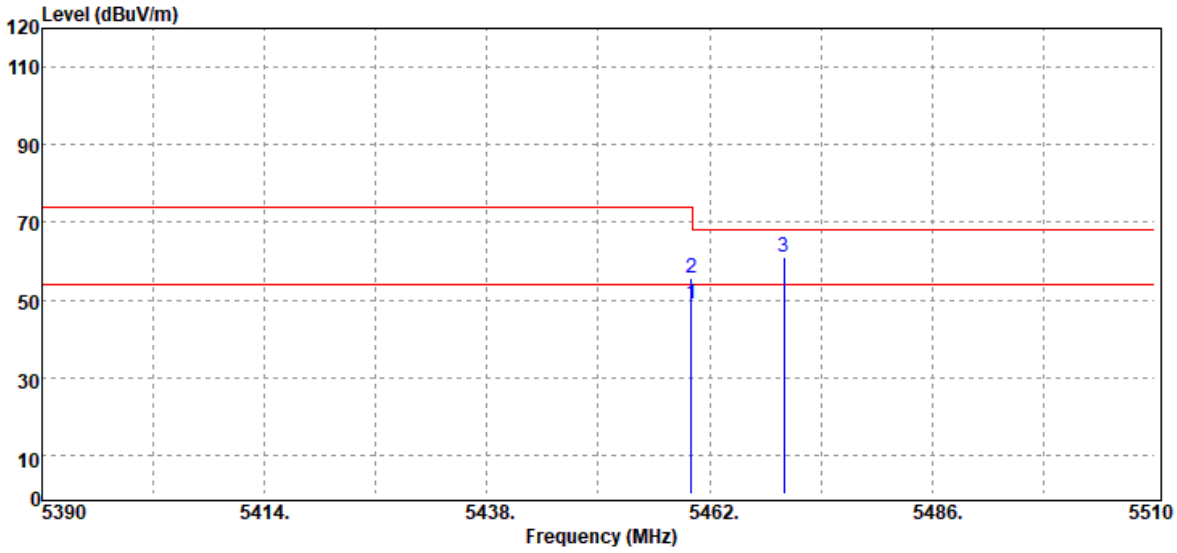
Test Data for UNII-2c

Test Mode	IEEE 802.11a / 5500MHz	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Band Edge	Test Date	June 4, 2020
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak and Average		



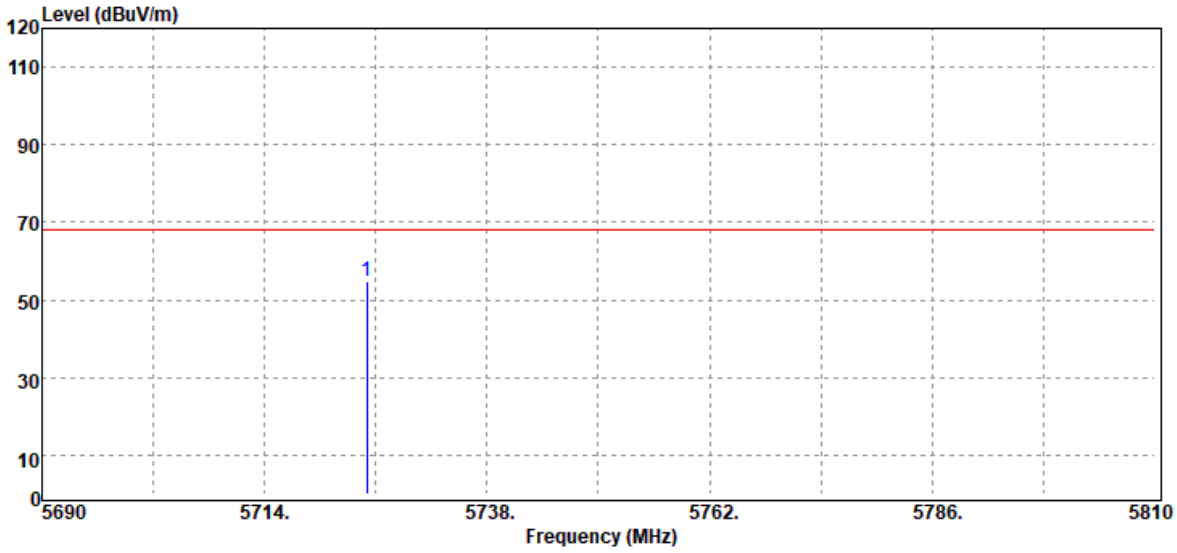
Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5460.00	Average	32.11	6.11	38.22	54.00	-15.78
5460.00	Peak	43.14	6.11	49.25	74.00	-24.75
5470.00	Peak	47.08	6.14	53.22	68.20	-14.98

Test Mode	IEEE 802.11a / 5500MHz	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Band Edge	Test Date	June 4, 2020
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak and Average		



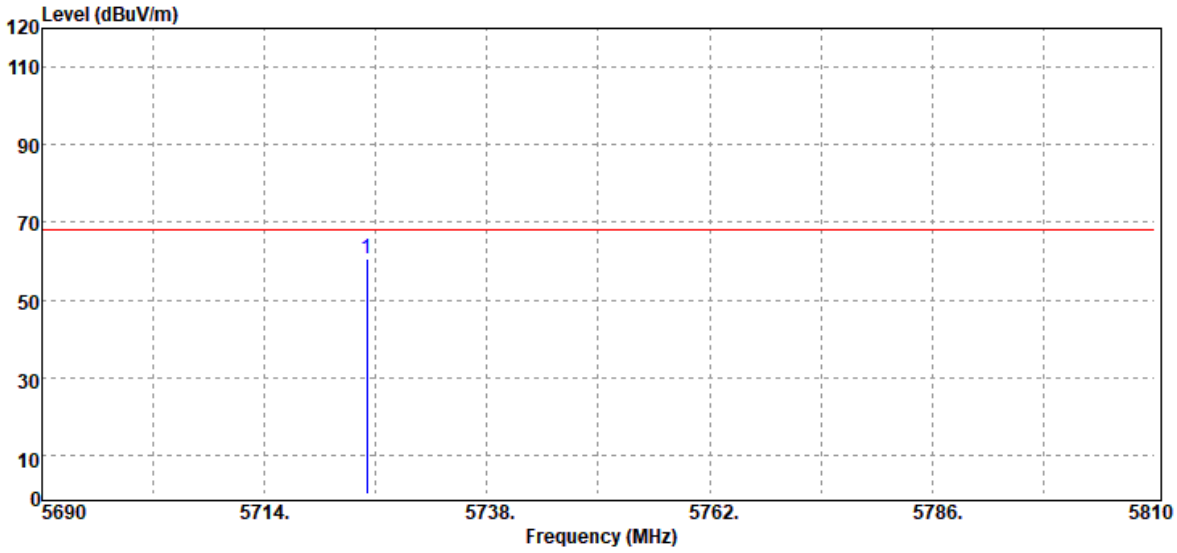
Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5460.00	Average	42.79	6.11	48.90	54.00	-5.10
5460.00	Peak	49.73	6.11	55.84	74.00	-18.16
5470.00	Peak	54.91	6.14	61.05	68.20	-7.15

Test Mode	IEEE 802.11a / 5700 MHz	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Band Edge	Test Date	June 4, 2020
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		



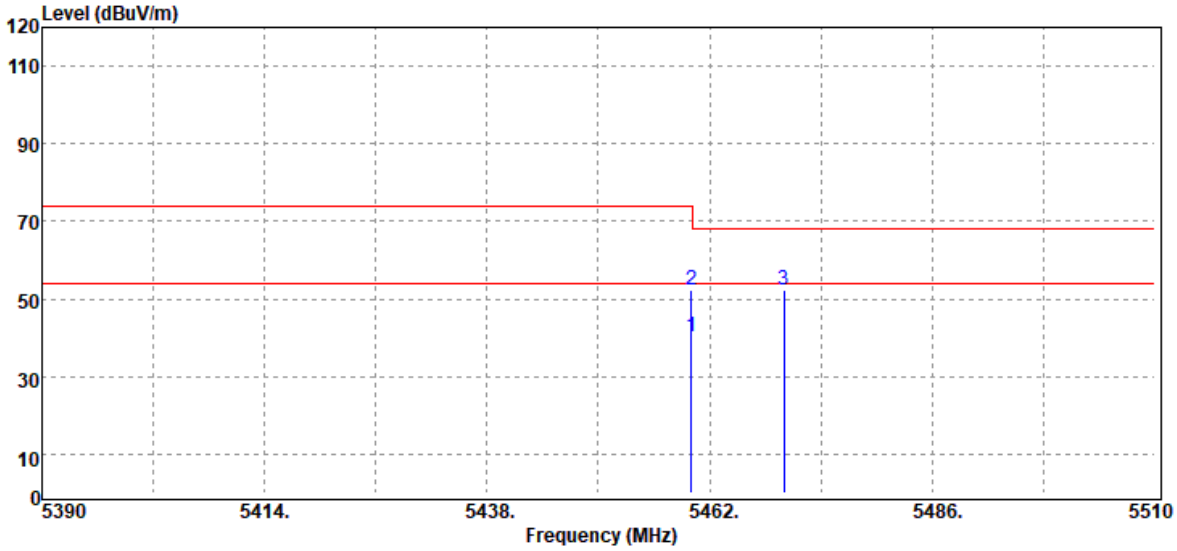
Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5725.00	Peak	47.69	6.98	54.67	68.20	-13.53

Test Mode	IEEE 802.11a / 5700 MHz	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Band Edge	Test Date	June 4, 2020
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak		



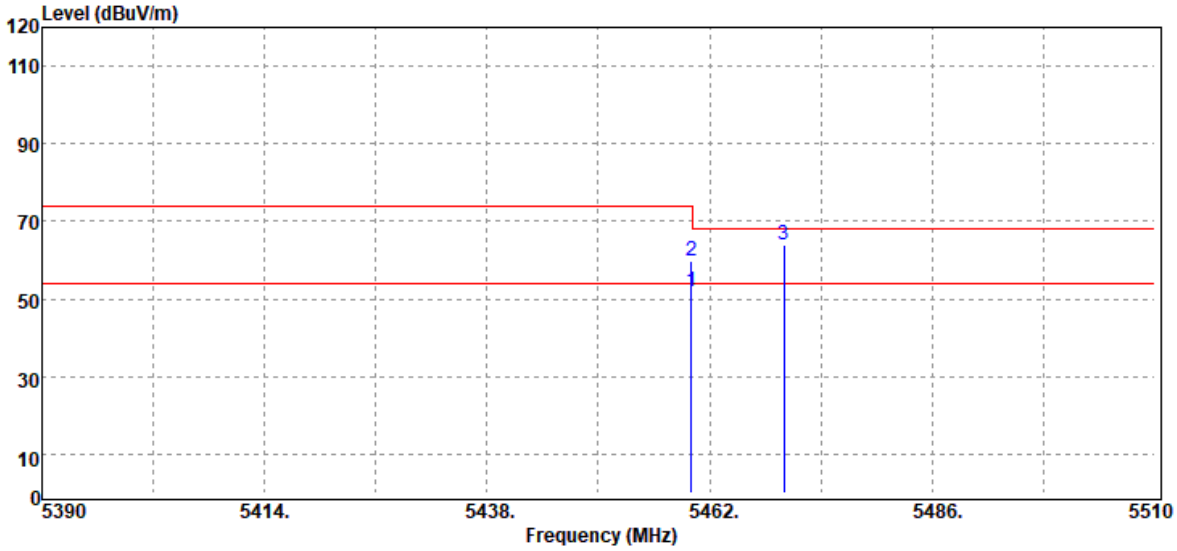
Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5725.00	Peak	53.48	6.98	60.46	68.20	-7.74

Test Mode	IEEE 802.11n 20 MHz / 5500MHz	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Band Edge	Test Date	June 4, 2020
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak and Average		



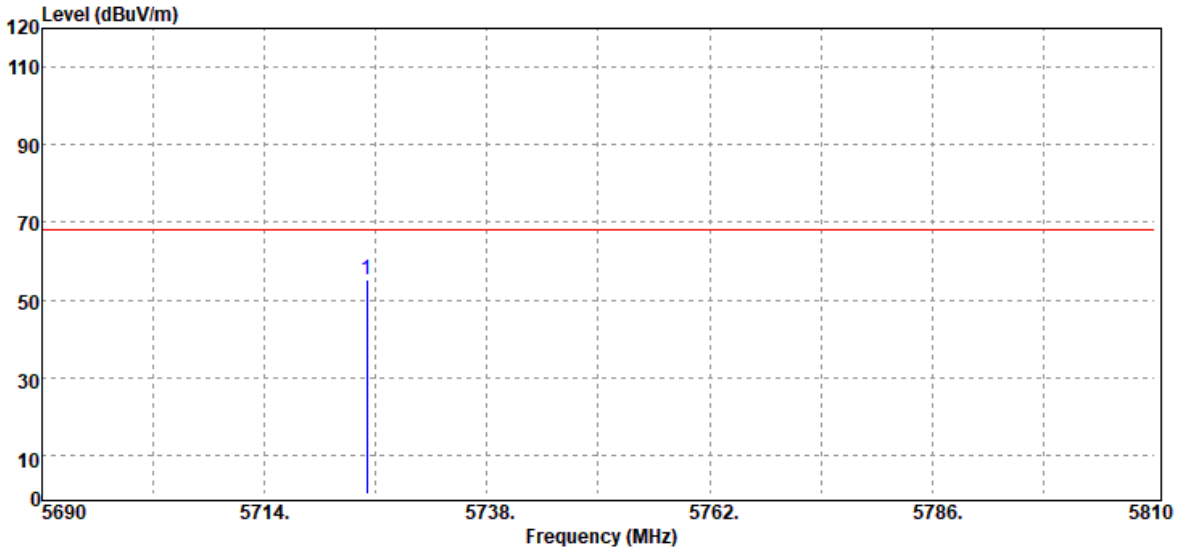
Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5460.00	Average	34.20	6.11	40.31	54.00	-13.69
5460.00	Peak	46.37	6.11	52.48	74.00	-21.52
5470.00	Peak	46.30	6.14	52.44	68.20	-15.76

Test Mode	IEEE 802.11n 20 MHz / 5500MHz	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Band Edge	Test Date	June 4, 2020
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak and Average		



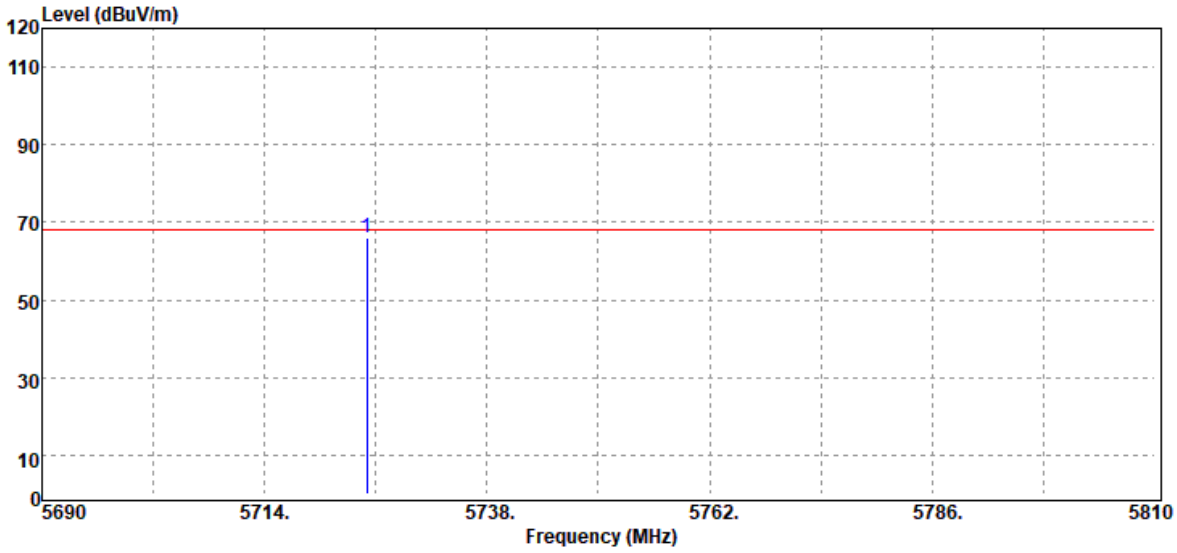
Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5460.00	Average	45.65	6.11	51.76	54.00	-2.24
5460.00	Peak	53.68	6.11	59.79	74.00	-14.21
5470.00	Peak	57.68	6.14	63.82	68.20	-4.38

Test Mode	IEEE 802.11n 20 MHz / 5700 MHz	Temperature	24.0(℃)/ 50%RH
Test Item	Band Edge	Test Date	June 4, 2020
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		



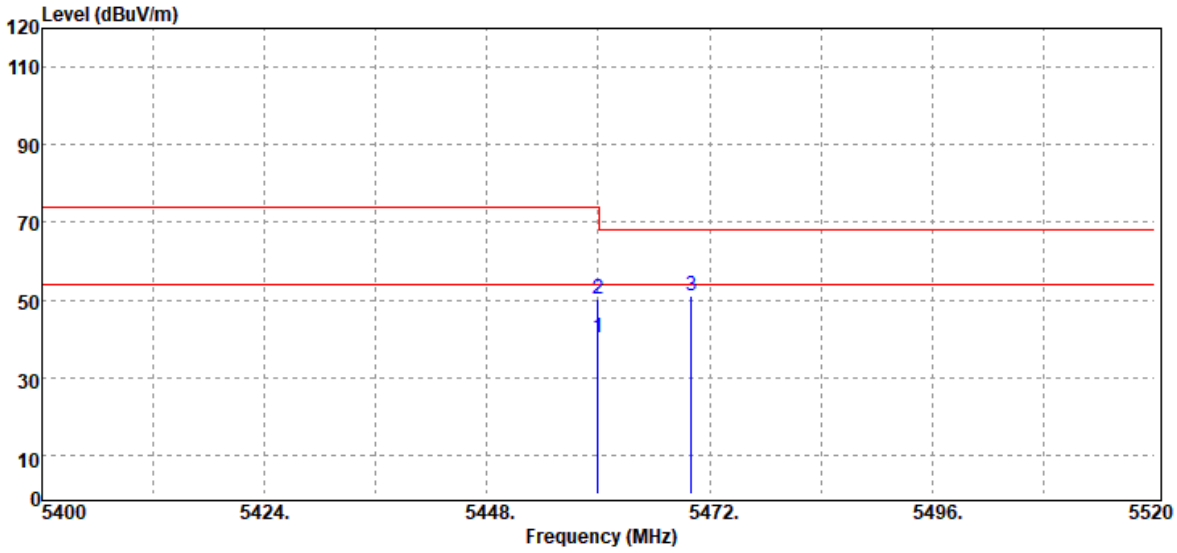
Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5725.00	Peak	48.39	6.98	55.37	68.20	-12.83

Test Mode	IEEE 802.11n 20 MHz / 5700 MHz	Temperature	24.0(℃)/ 50%RH
Test Item	Band Edge	Test Date	June 4, 2020
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak		



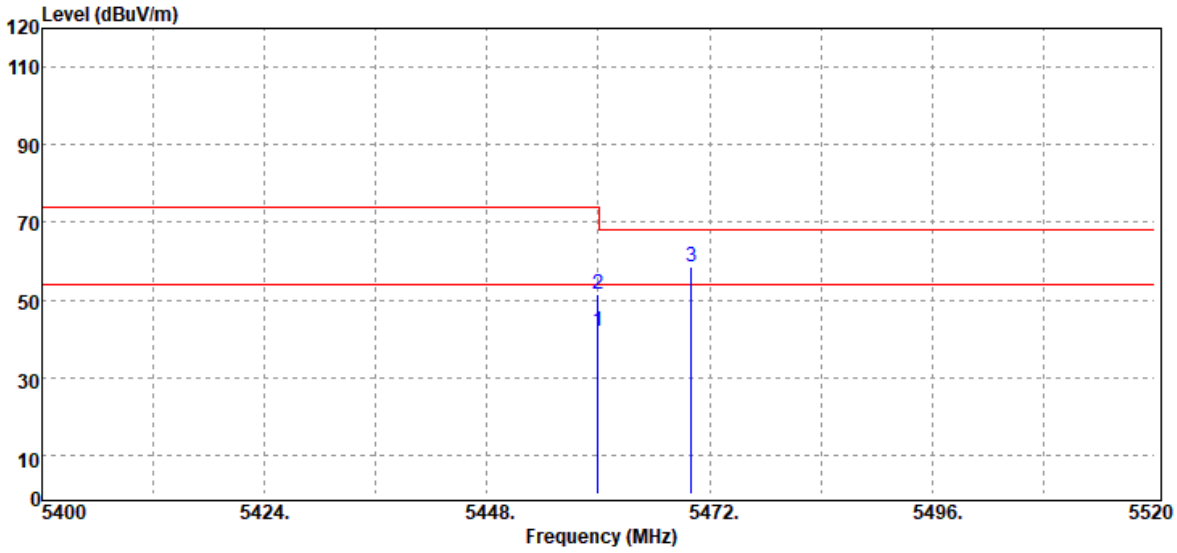
Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5725.00	Peak	59.14	6.98	66.12	68.20	-2.08

Test Mode	IEEE 802.11n 40 MHz / 5510 MHz	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Band Edge	Test Date	June 4, 2020
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak and Average		



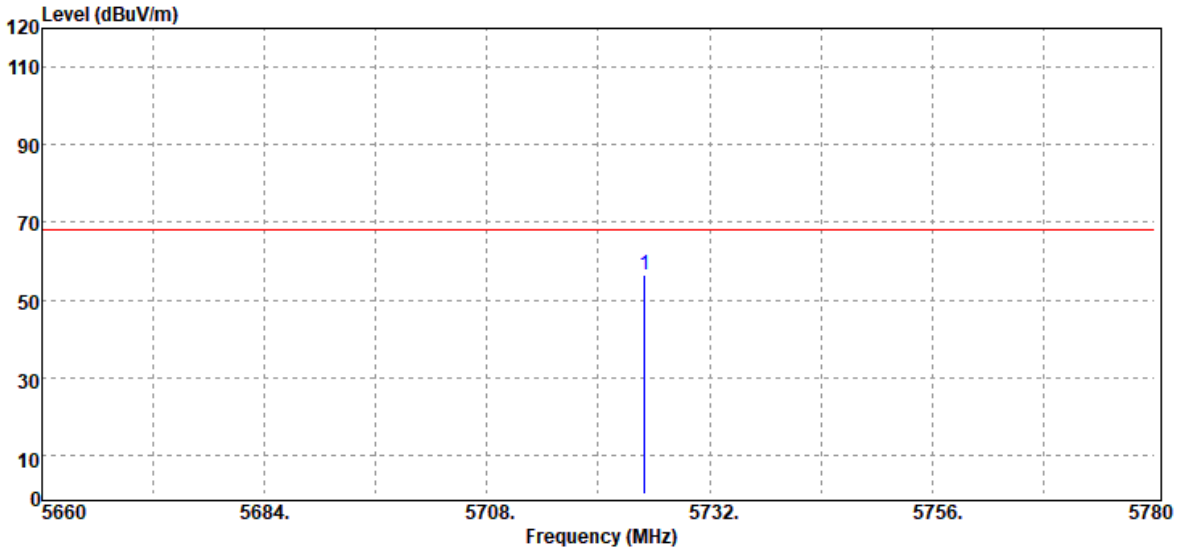
Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5460.00	Average	34.07	6.11	40.18	54.00	-13.82
5460.00	Peak	44.00	6.11	50.11	74.00	-23.89
5470.00	Peak	44.85	6.14	50.99	68.20	-17.21

Test Mode	IEEE 802.11n 40 MHz / 5510 MHz	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Band Edge	Test Date	June 4, 2020
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak and Average		



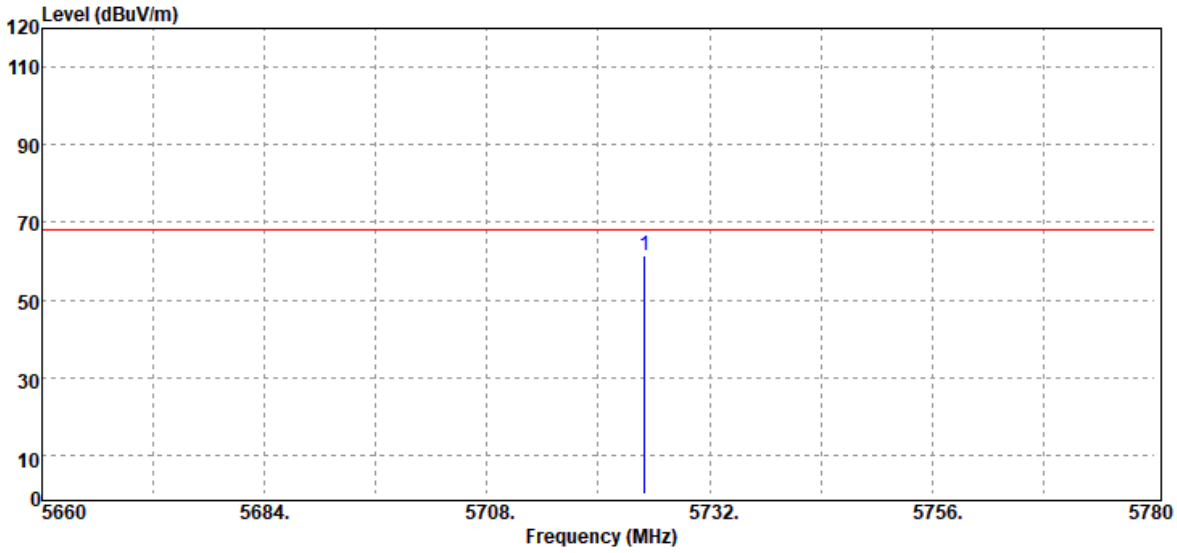
Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5460.00	Average	35.68	6.11	41.79	54.00	-12.21
5460.00	Peak	45.42	6.11	51.53	74.00	-22.47
5470.00	Peak	52.23	6.14	58.37	68.20	-9.83

Test Mode	IEEE 802.11n 40 MHz / 5670 MHz	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Band Edge	Test Date	June 5, 2020
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		



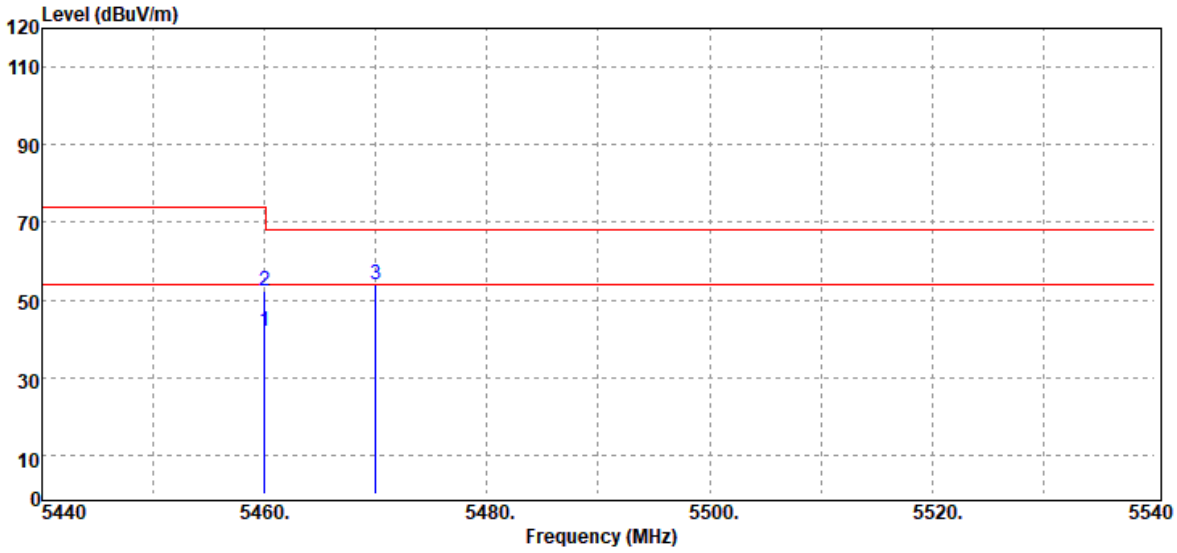
Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5725.00	Peak	49.57	6.98	56.55	68.20	-11.65

Test Mode	IEEE 802.11n 40 MHz / 5670 MHz	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Band Edge	Test Date	June 5, 2020
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak		



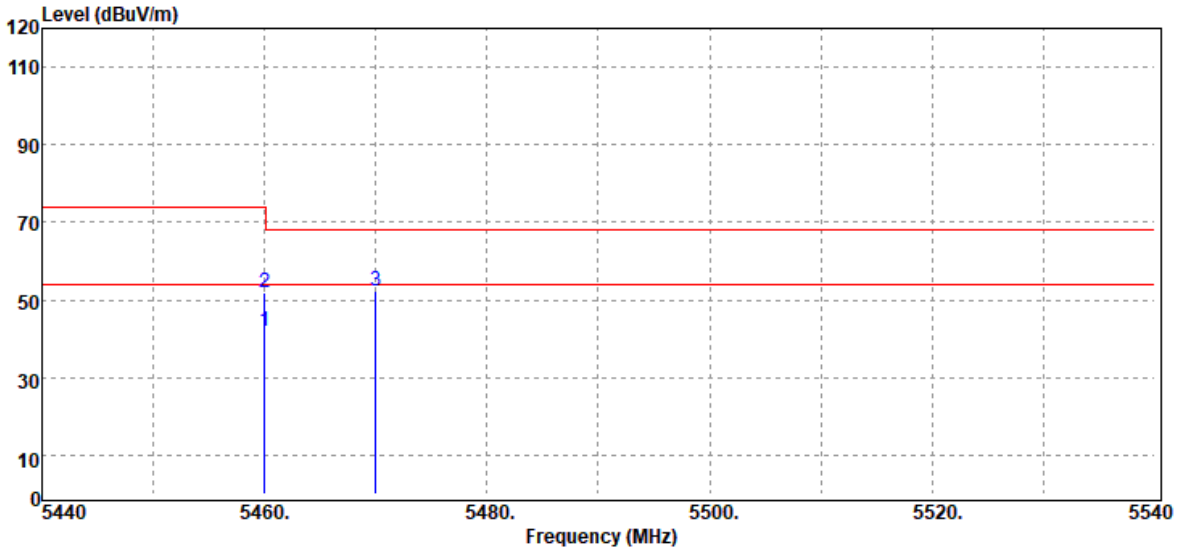
Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5725.00	Peak	54.36	6.98	61.34	68.20	-6.86

Test Mode	IEEE 802.11ac VHT80 / 5530 MHz	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Band Edge	Test Date	June 5, 2020
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak and Average		



Frequency (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	35.89	6.11	42.00	54.00	-12.00
5460.00	Peak	46.34	6.11	52.45	74.00	-21.55
5470.00	Peak	47.86	6.14	54.00	68.20	-14.20

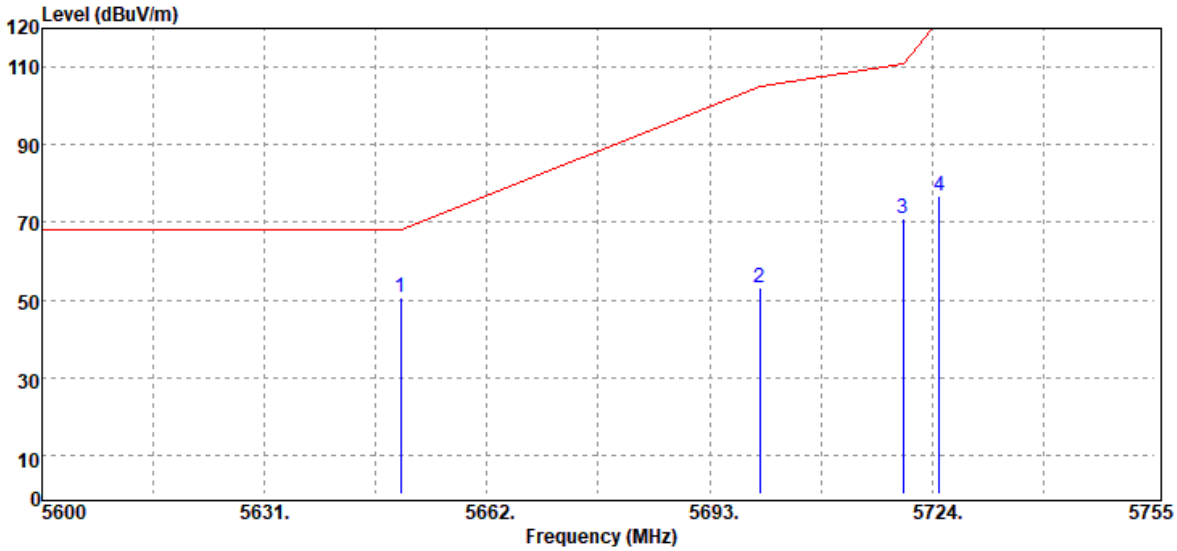
Test Mode	IEEE 802.11ac VHT80 / 5530 MHz	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Band Edge	Test Date	June 5, 2020
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak and Average		



Frequency (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	35.68	6.11	41.79	54.00	-12.21
5460.00	Peak	45.69	6.11	51.80	74.00	-22.20
5470.00	Peak	45.98	6.14	52.12	68.20	-16.08

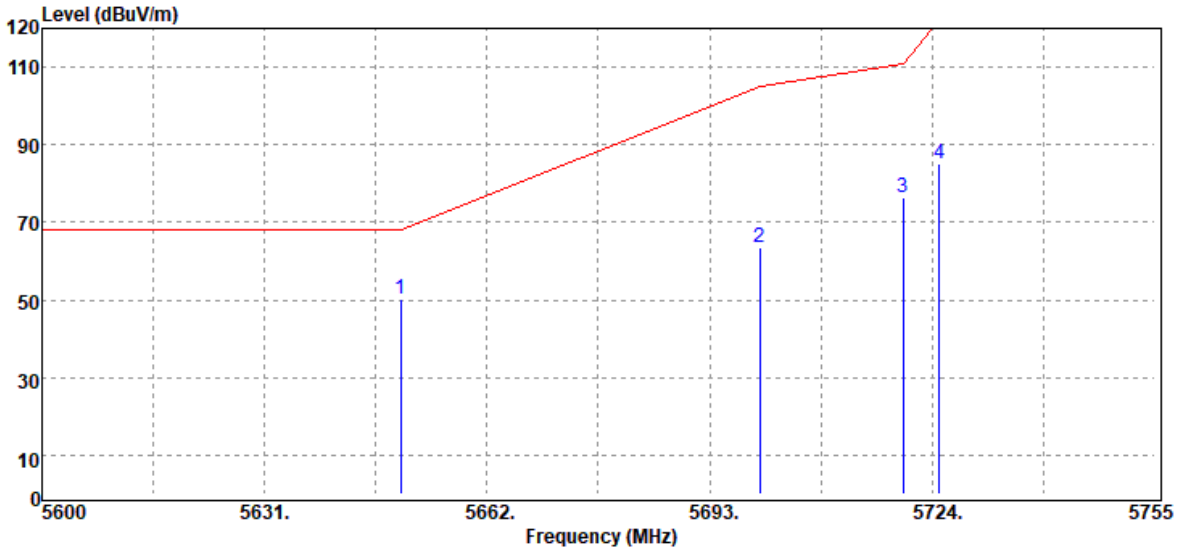
Test Data for UNII-3

Test Mode	IEEE 802.11a / 5745 MHz	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Band Edge	Test Date	June 4, 2020
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		



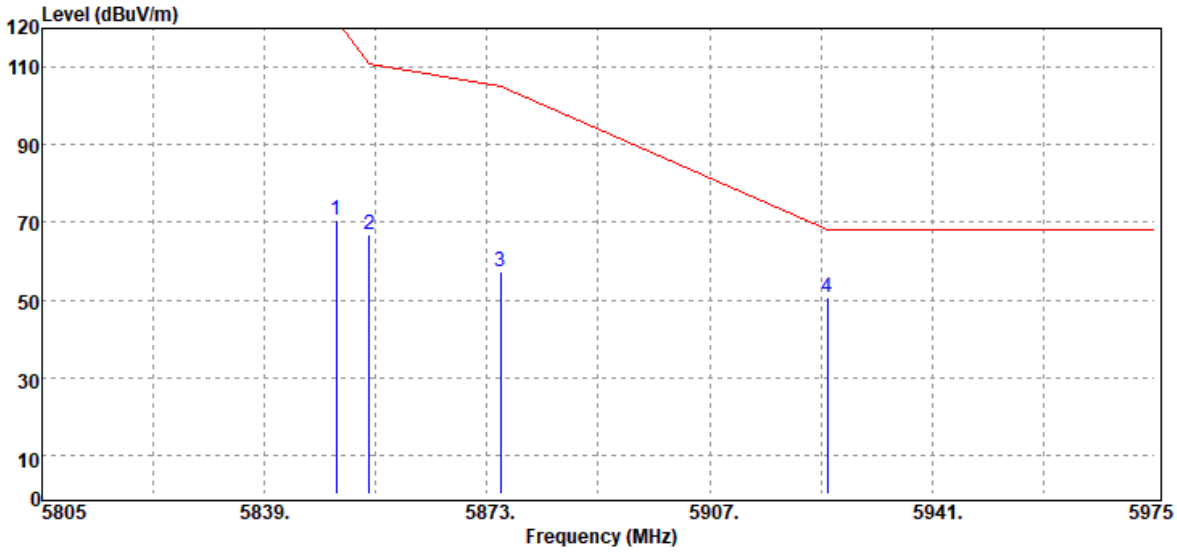
Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5650.00	Peak	44.18	6.61	50.79	68.20	-17.41
5700.00	Peak	46.38	6.92	53.30	105.20	-51.90
5720.00	Peak	64.17	6.97	71.14	110.80	-39.66
5725.00	Peak	69.74	6.98	76.72	122.20	-45.48

Test Mode	IEEE 802.11a / 5745 MHz	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Band Edge	Test Date	June 4, 2020
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak		



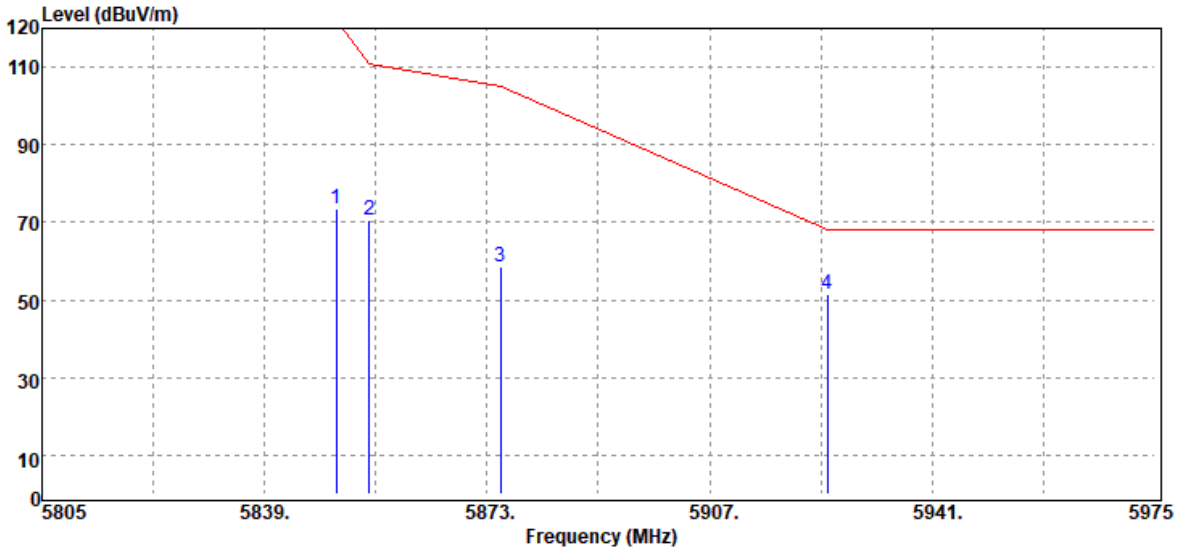
Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5650.00	Peak	43.49	6.61	50.10	68.20	-18.10
5700.00	Peak	56.48	6.92	63.40	105.20	-41.80
5720.00	Peak	69.34	6.97	76.31	110.80	-34.49
5725.00	Peak	78.20	6.98	85.18	122.20	-37.02

Test Mode	IEEE 802.11a / 5825 MHz	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Band Edge	Test Date	June 4, 2020
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		



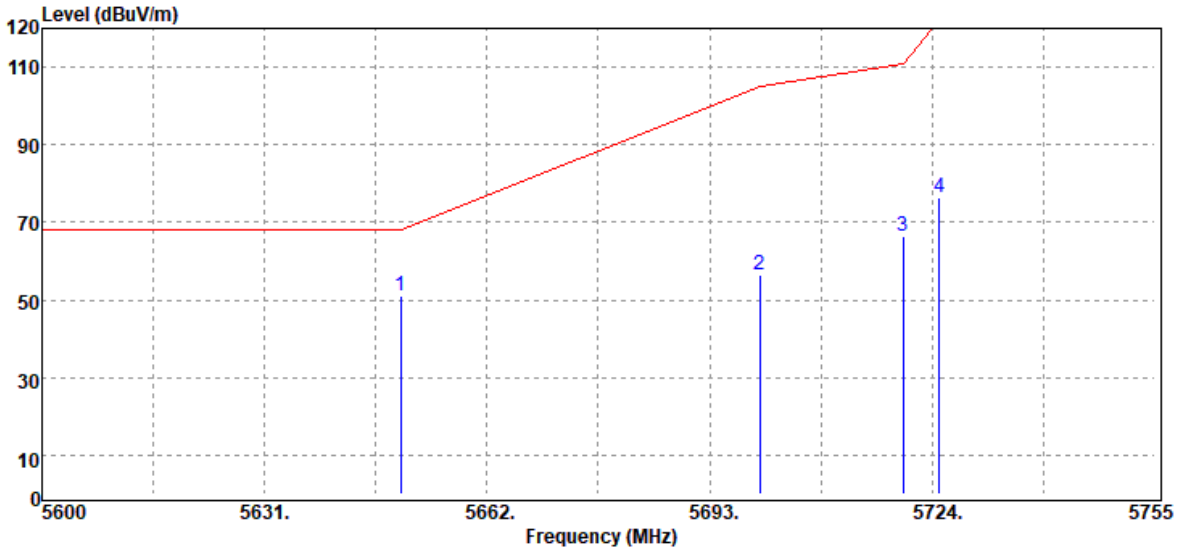
Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5850.00	Peak	63.48	7.11	70.59	122.20	-51.61
5855.00	Peak	59.77	7.11	66.88	110.80	-43.92
5875.00	Peak	50.12	7.10	57.22	105.20	-47.98
5925.00	Peak	43.36	7.12	50.48	68.20	-17.72

Test Mode	IEEE 802.11a / 5825 MHz	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Band Edge	Test Date	June 4, 2020
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak		



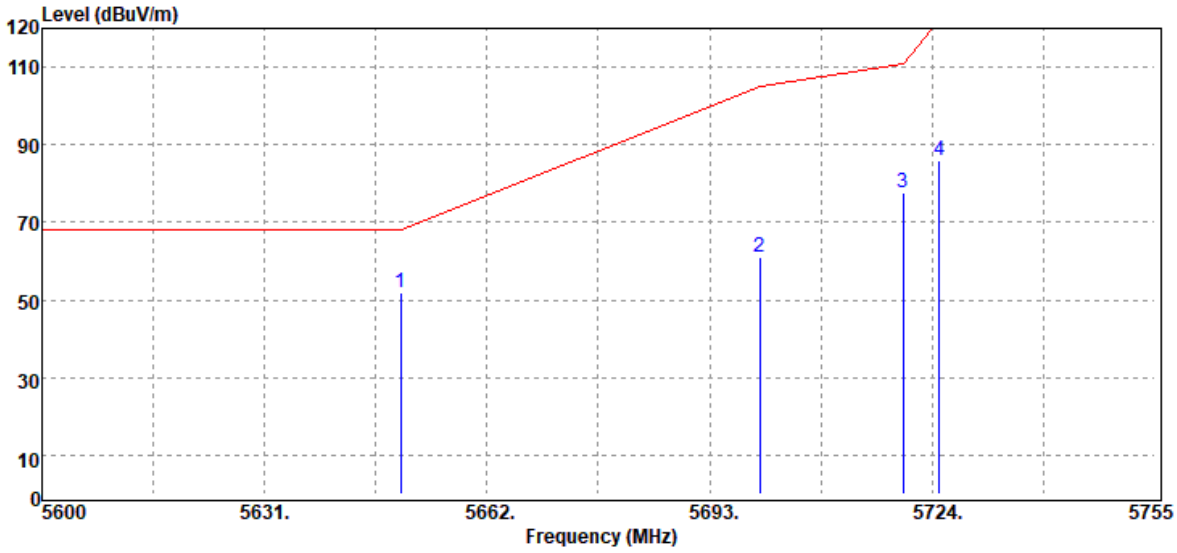
Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5850.00	Peak	66.25	7.11	73.36	122.20	-48.84
5855.00	Peak	63.68	7.11	70.79	110.80	-40.01
5875.00	Peak	51.37	7.10	58.47	105.20	-46.73
5925.00	Peak	44.20	7.12	51.32	68.20	-16.88

Test Mode	IEEE 802.11n 20 MHz / 5745 MHz	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Band Edge	Test Date	June 4, 2020
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		



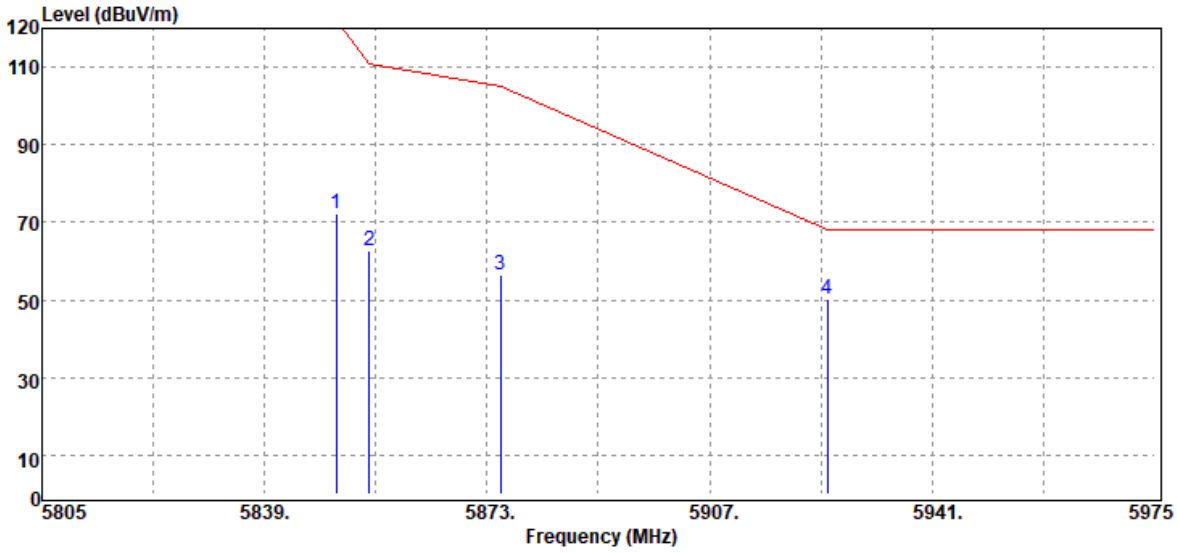
Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5650.00	Peak	44.60	6.61	51.21	68.20	-16.99
5700.00	Peak	49.35	6.92	56.27	105.20	-48.93
5720.00	Peak	59.36	6.97	66.33	110.80	-44.47
5725.00	Peak	69.26	6.98	76.24	122.20	-45.96

Test Mode	IEEE 802.11n 20 MHz / 5745 MHz	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Band Edge	Test Date	June 4, 2020
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak		



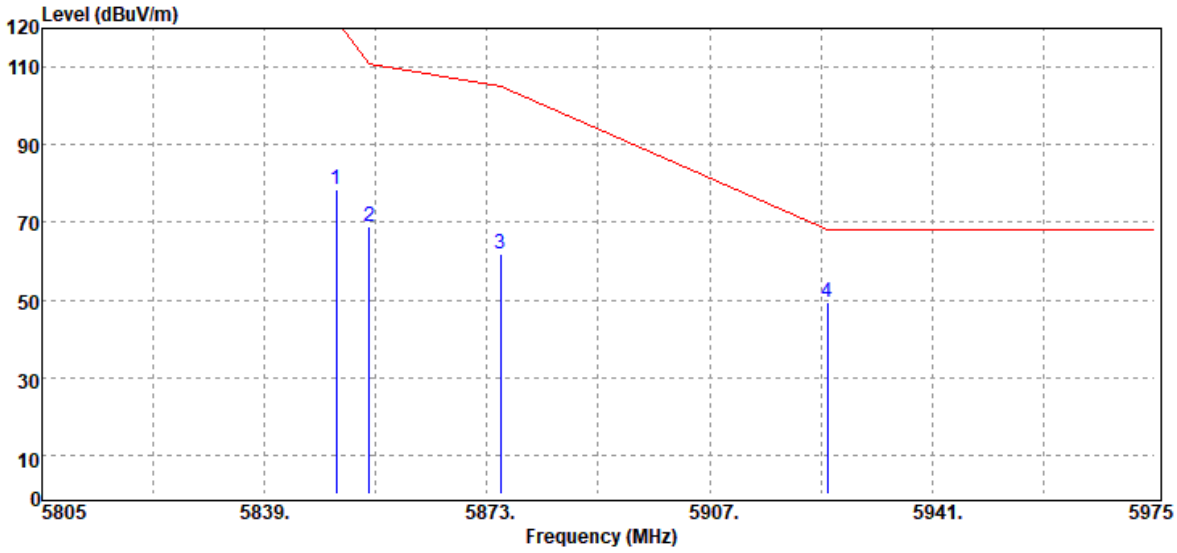
Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5650.00	Peak	45.16	6.61	51.77	68.20	-16.43
5700.00	Peak	54.09	6.92	61.01	105.20	-44.19
5720.00	Peak	70.48	6.97	77.45	110.80	-33.35
5725.00	Peak	79.06	6.98	86.04	122.20	-36.16

Test Mode	IEEE 802.11n 20 MHz / 5825 MHz	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Band Edge	Test Date	June 4, 2020
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		



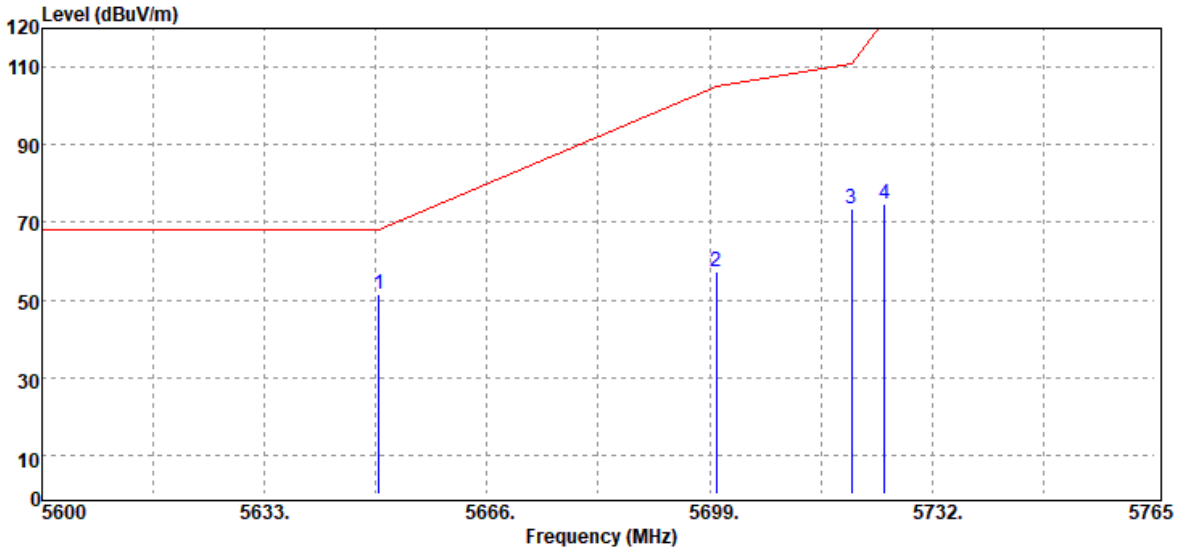
Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5850.00	Peak	65.15	7.11	72.26	122.20	-49.94
5855.00	Peak	55.68	7.11	62.79	110.80	-48.01
5875.00	Peak	49.36	7.10	56.46	105.20	-48.74
5925.00	Peak	43.20	7.12	50.32	68.20	-17.88

Test Mode	IEEE 802.11n 20 MHz / 5825 MHz	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Band Edge	Test Date	June 4, 2020
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak		



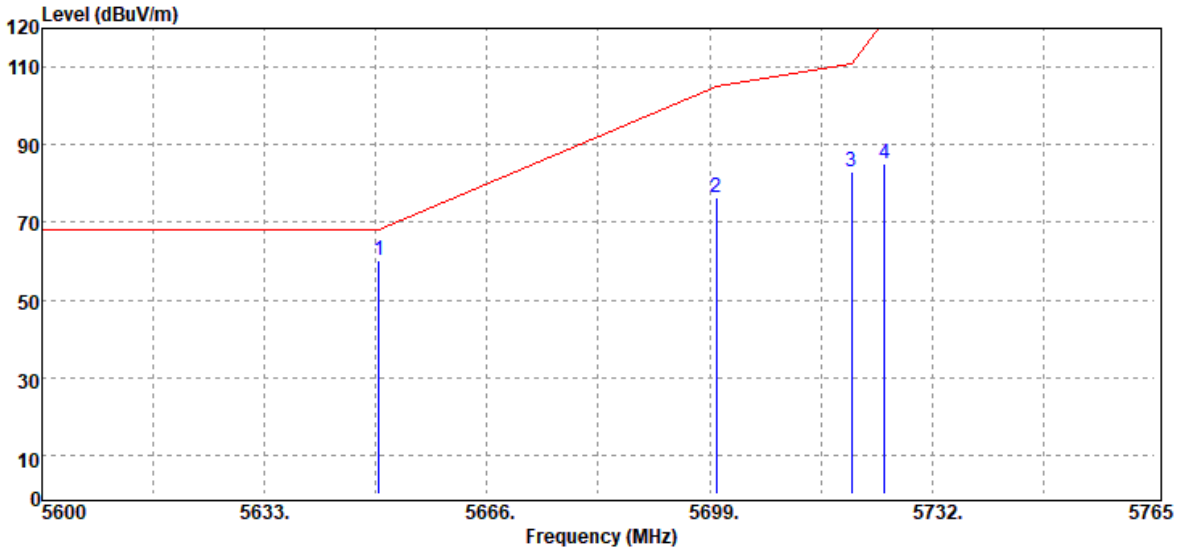
Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5850.00	Peak	71.35	7.11	78.46	122.20	-43.74
5855.00	Peak	61.65	7.11	68.76	110.80	-42.04
5875.00	Peak	54.69	7.10	61.79	105.20	-43.41
5925.00	Peak	42.20	7.12	49.32	68.20	-18.88

Test Mode	IEEE 802.11n 40 MHz/ 5755 MHz	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Band Edge	Test Date	June 5, 2020
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		



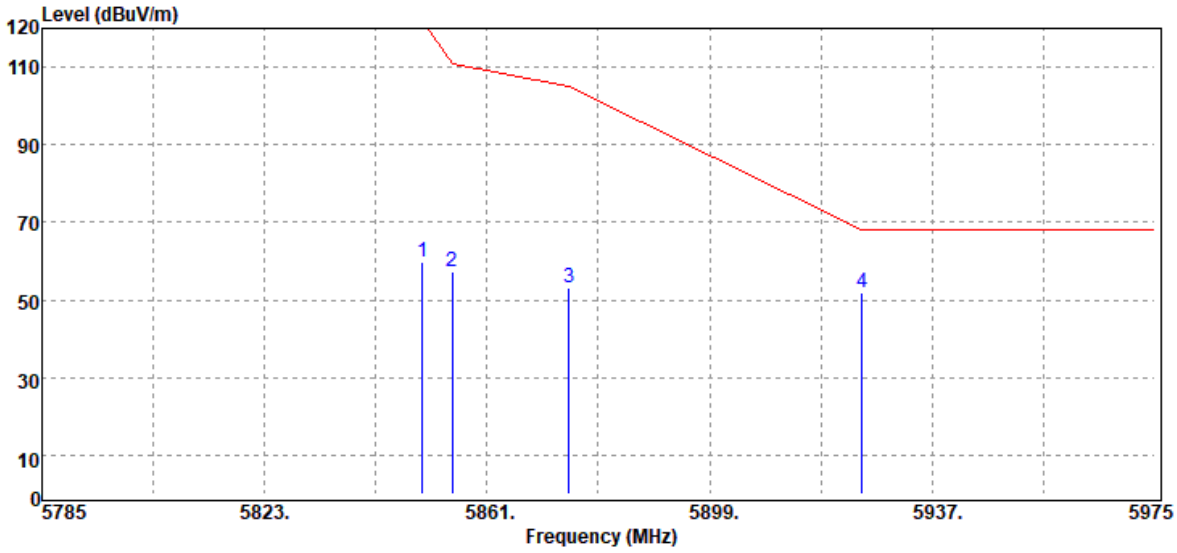
Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5650.00	Peak	44.86	6.61	51.47	68.20	-16.73
5700.00	Peak	50.35	6.92	57.27	105.20	-47.93
5720.00	Peak	66.36	6.97	73.33	110.80	-37.47
5725.00	Peak	67.69	6.98	74.67	122.20	-47.53

Test Mode	IEEE 802.11n 40 MHz/ 5755 MHz	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Band Edge	Test Date	June 5, 2020
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak		



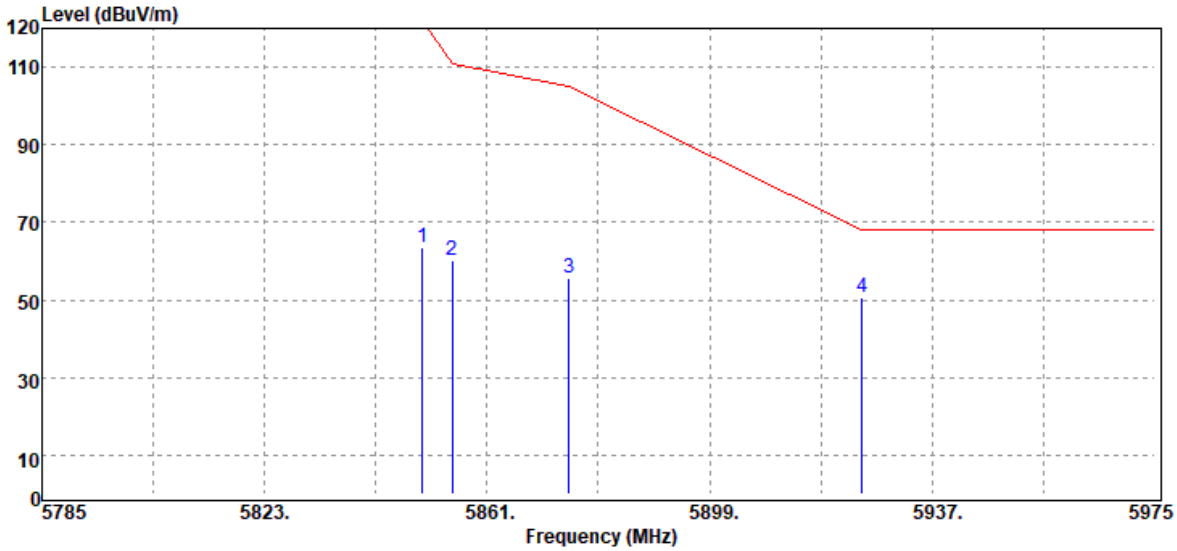
Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5650.00	Peak	53.68	6.61	60.29	68.20	-7.91
5700.00	Peak	69.69	6.92	76.61	105.20	-28.59
5720.00	Peak	76.17	6.97	83.14	110.80	-27.66
5725.00	Peak	78.17	6.98	85.15	122.20	-37.05

Test Mode	IEEE 802.11n 40 MHz/ 5795 MHz	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Band Edge	Test Date	June 5, 2020
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		



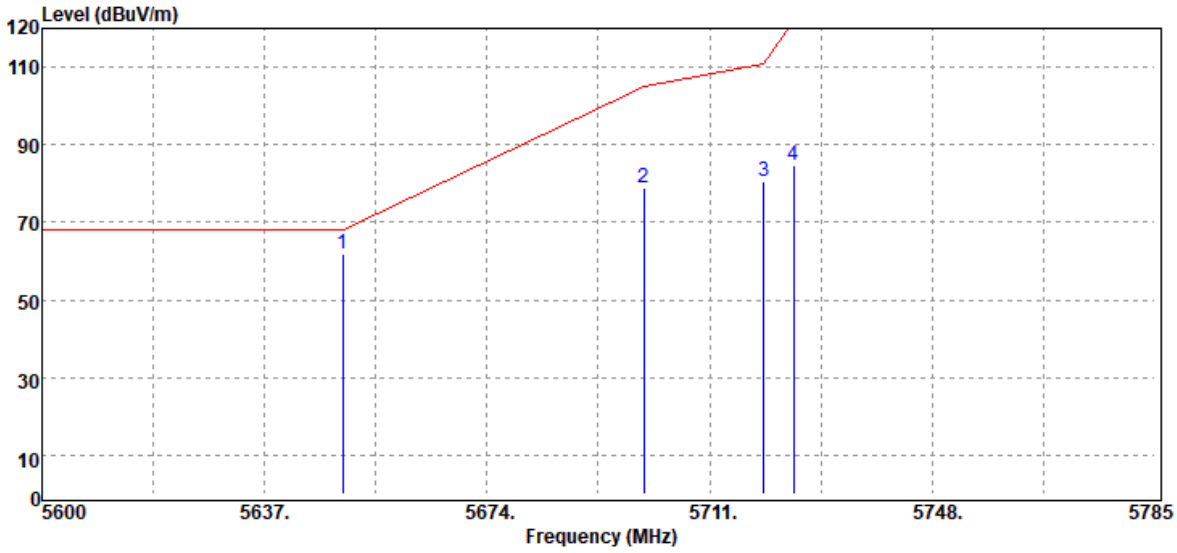
Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5850.00	Peak	52.62	7.11	59.73	122.20	-62.47
5855.00	Peak	50.38	7.11	57.49	110.80	-53.31
5875.00	Peak	45.87	7.10	52.97	105.20	-52.23
5925.00	Peak	44.86	7.12	51.98	68.20	-16.22

Test Mode	IEEE 802.11n 40 MHz/ 5795 MHz	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Band Edge	Test Date	June 5, 2020
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak		



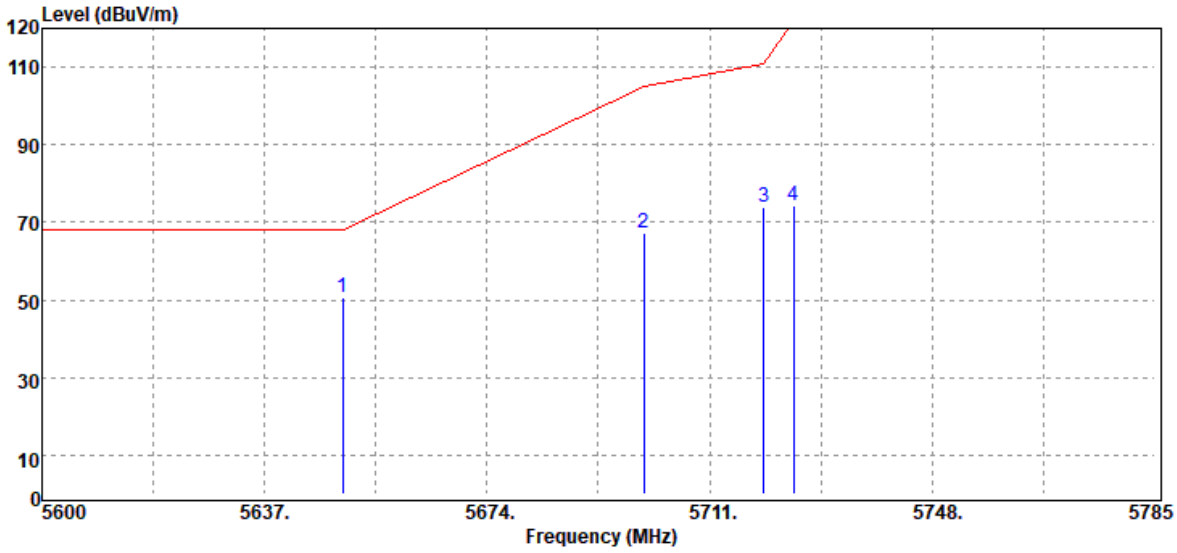
Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5850.00	Peak	56.39	7.11	63.50	122.20	-58.70
5855.00	Peak	53.03	7.11	60.14	110.80	-50.66
5875.00	Peak	48.36	7.10	55.46	105.20	-49.74
5925.00	Peak	43.56	7.12	50.68	68.20	-17.52

Test Mode	IEEE 802.11ac VHT80 / 5775 MHz	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Band Edge	Test Date	June 5, 2020
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		



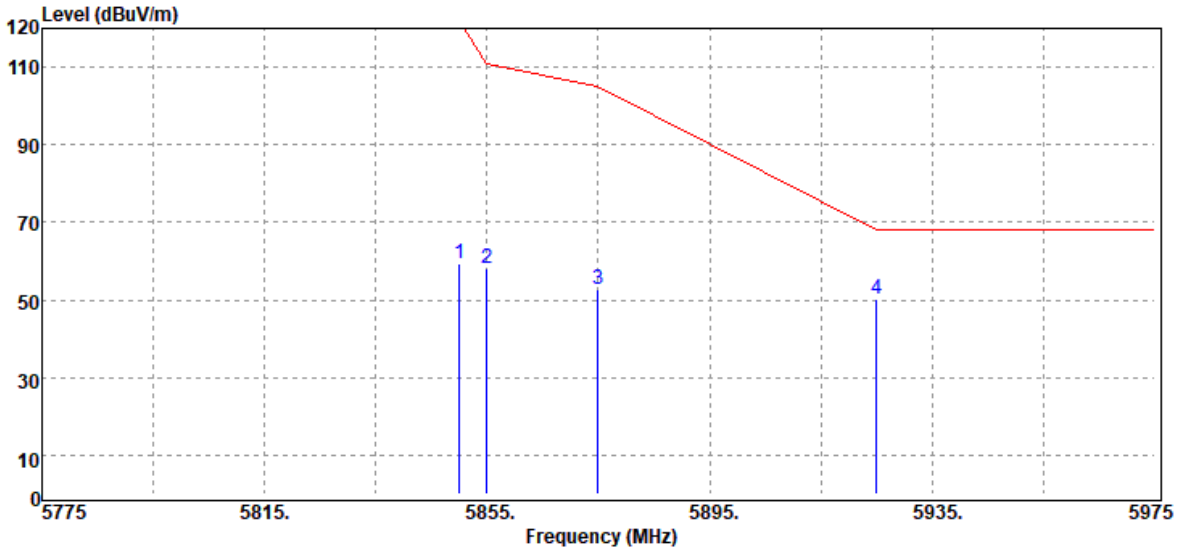
Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5650.00	Peak	55.19	6.61	61.80	68.20	-6.40
5700.00	Peak	72.17	6.92	79.09	105.20	-26.11
5720.00	Peak	73.68	6.97	80.65	110.80	-30.15
5725.00	Peak	77.65	6.98	84.63	122.20	-37.57

Test Mode	IEEE 802.11ac VHT80 / 5775 MHz	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Band Edge	Test Date	June 5, 2020
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak		



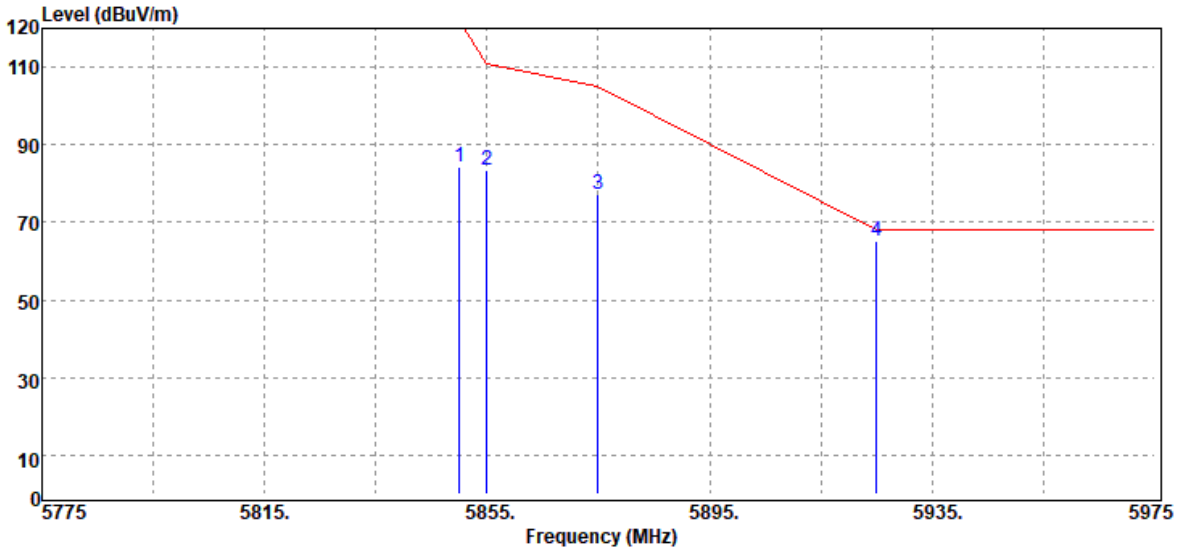
Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5650.00	Peak	44.17	6.61	50.78	68.20	-17.42
5700.00	Peak	60.17	6.92	67.09	105.20	-38.11
5720.00	Peak	67.07	6.97	74.04	110.80	-36.76
5725.00	Peak	67.39	6.98	74.37	122.20	-47.83

Test Mode	IEEE 802.11ac VHT80 / 5775 MHz	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Band Edge	Test Date	June 5, 2020
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		



Frequency (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	52.35	7.11	59.46	122.20	-62.74
5855.00	Peak	50.86	7.11	57.97	110.80	-52.83
5875.00	Peak	45.69	7.10	52.79	105.20	-52.41
5925.00	Peak	43.13	7.12	50.25	68.20	-17.95

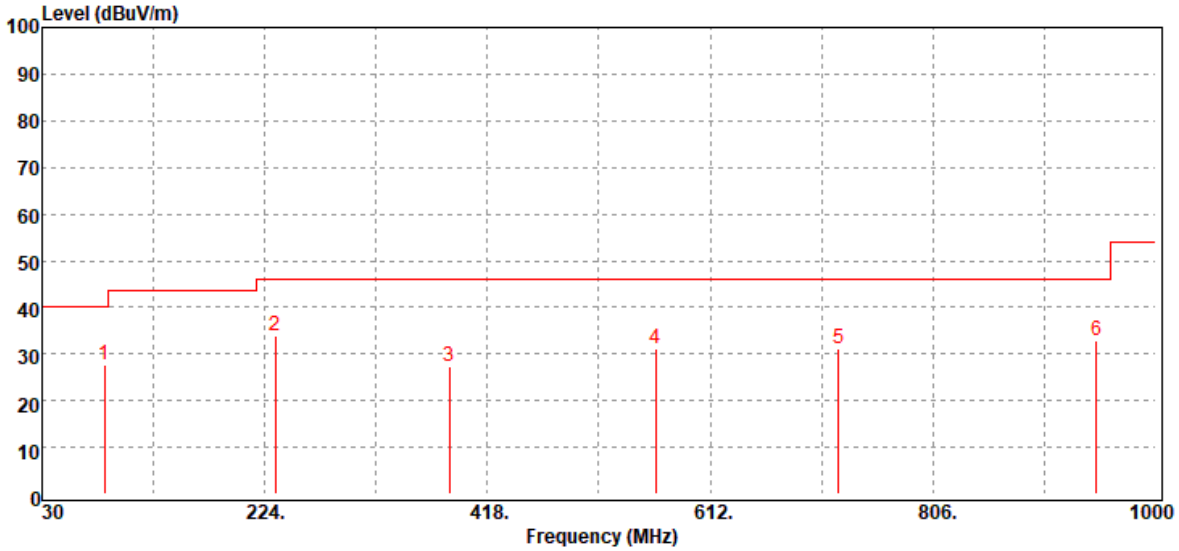
Test Mode	IEEE 802.11ac VHT80 / 5775 MHz	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Band Edge	Test Date	June 5, 2020
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak		



Frequency (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	77.16	7.11	84.27	122.20	-37.93
5855.00	Peak	76.17	7.11	83.28	110.80	-27.52
5875.00	Peak	70.14	7.10	77.24	105.20	-27.96
5925.00	Peak	58.08	7.12	65.20	68.20	-3.00

Below 1G Test Data

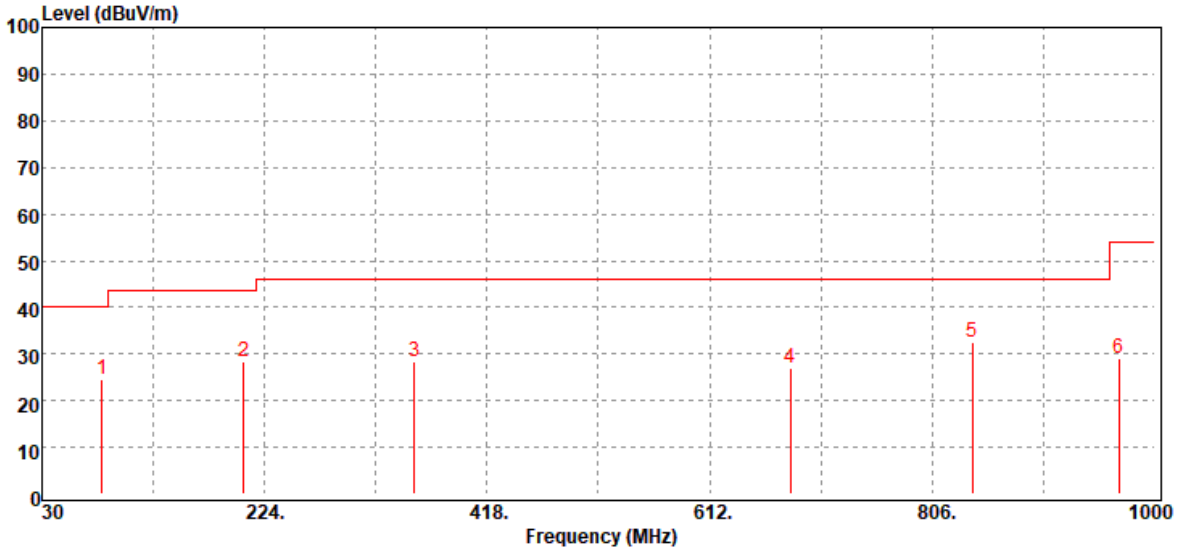
Test Mode	Mode 1	Temp/Hum	24.0(℃)/ 50%RH
Test Item	30MHz-1GHz	Test Date	June 5, 2020
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
84.44	Peak	43.48	-15.81	27.67	40.00	-12.33
233.16	Peak	44.77	-10.96	33.81	46.00	-12.19
384.70	Peak	33.85	-6.40	27.45	46.00	-18.55
564.15	Peak	33.37	-2.25	31.12	46.00	-14.88
723.50	Peak	30.65	0.59	31.24	46.00	-14.76
948.14	Peak	28.88	4.08	32.96	46.00	-13.04

***Note**: 1. No emission found between lowest internal used/generated frequency to 30MHz(9KHz~30MHz)*
2. For below 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit.

Test Mode	Mode 1	Temp/Hum	24.0(℃)/ 50%RH
Test Item	30MHz-1GHz	Test Date	June 5, 2020
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak		



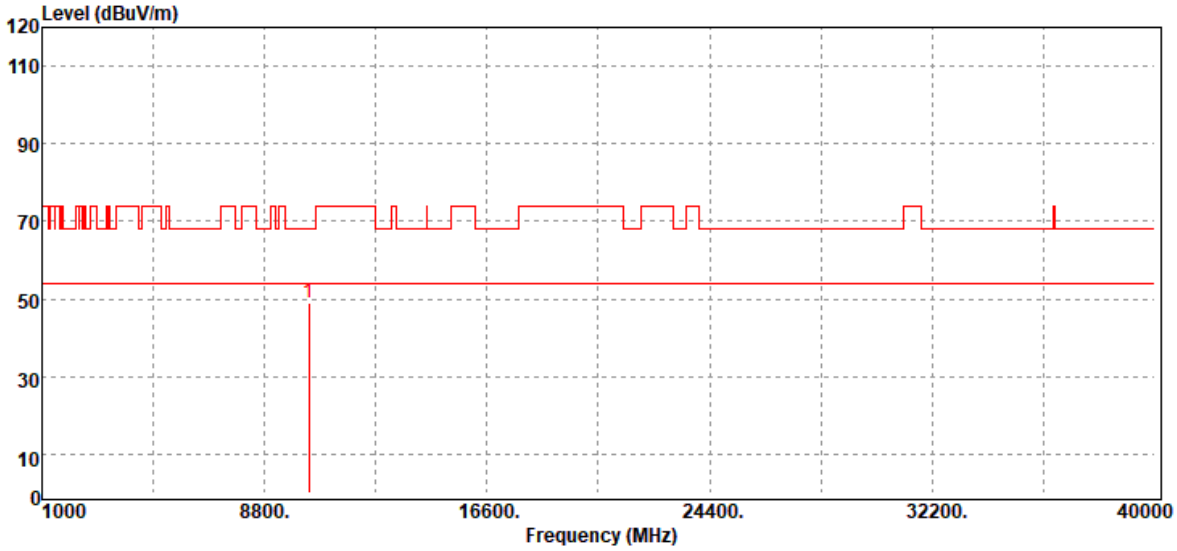
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
82.31	Peak	40.46	-15.72	24.74	40.00	-15.26
206.00	Peak	40.17	-11.75	28.42	43.50	-15.08
354.81	Peak	35.38	-7.04	28.34	46.00	-17.66
682.35	Peak	27.17	-0.30	26.87	46.00	-19.13
841.25	Peak	29.99	2.59	32.58	46.00	-13.42
968.54	Peak	24.94	4.22	29.16	54.00	-24.84

***Note**: 1. No emission found between lowest internal used/generated frequency to 30MHz(9KHz~30MHz)*
2. For below 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit.

Above 1G

Test Data for UNII-1

Test Mode	IEEE 802.11a / 5180MHZ	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Harmonic	Test Date	June 5, 2020
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		

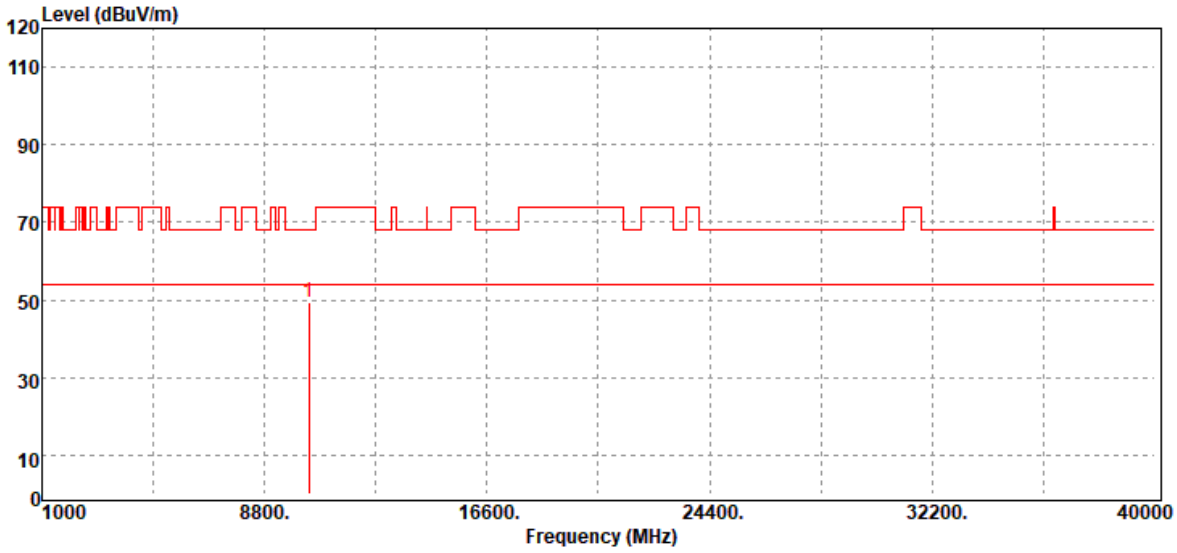


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10360.00	Peak	33.94	15.04	48.98	68.20	-19.22
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit*

Test Mode	IEEE 802.11a / 5180MHZ	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Harmonic	Test Date	June 5, 2020
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak		

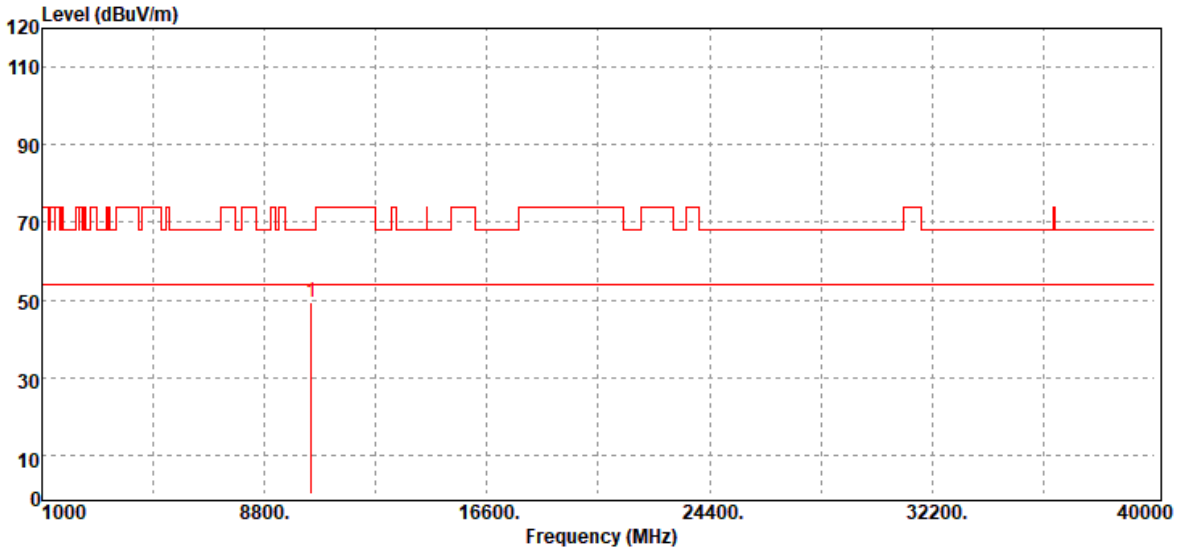


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10360.00	Peak	34.42	15.04	49.46	68.20	-18.74
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit*

Test Mode	IEEE 802.11a / 5220 MHZ	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Harmonics	Test Date	June 5, 2020
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		

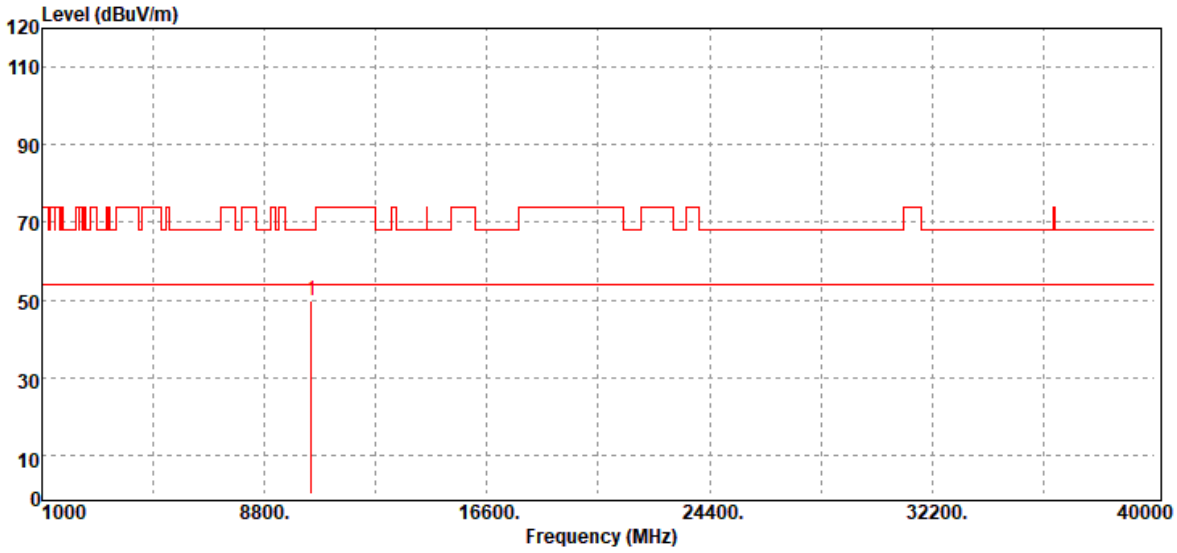


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10440.00	Peak	34.33	15.11	49.44	68.20	-18.76
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit*

Test Mode	IEEE 802.11a / 5220 MHz	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Harmonic	Test Date	June 5, 2020
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak		

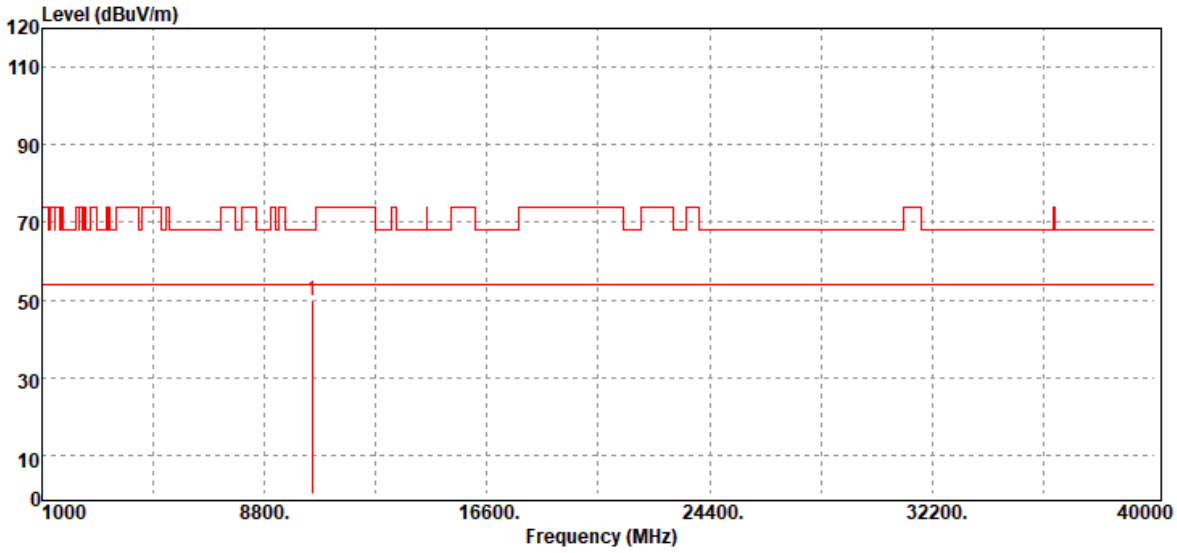


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10440.00	Peak	34.56	15.11	49.67	68.20	-18.53
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit*

Test Mode	IEEE 802.11a / 5240MHZ	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Harmonic	Test Date	June 5, 2020
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		

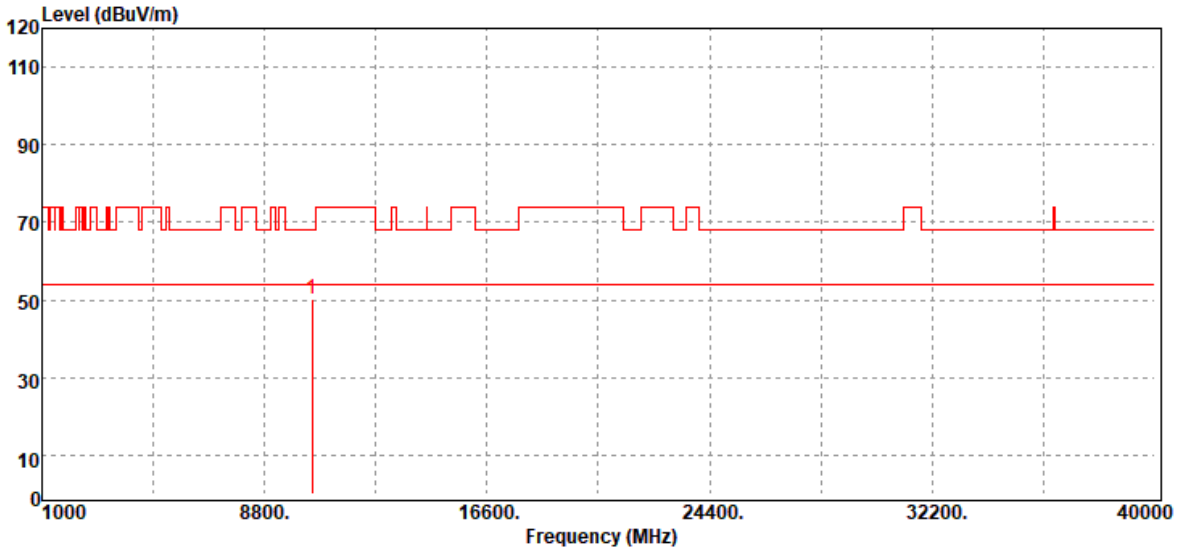


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10480.00	Peak	34.94	15.09	50.03	68.20	-18.17
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit*

Test Mode	IEEE 802.11a / 5240MHZ	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Harmonic	Test Date	June 5, 2020
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak		

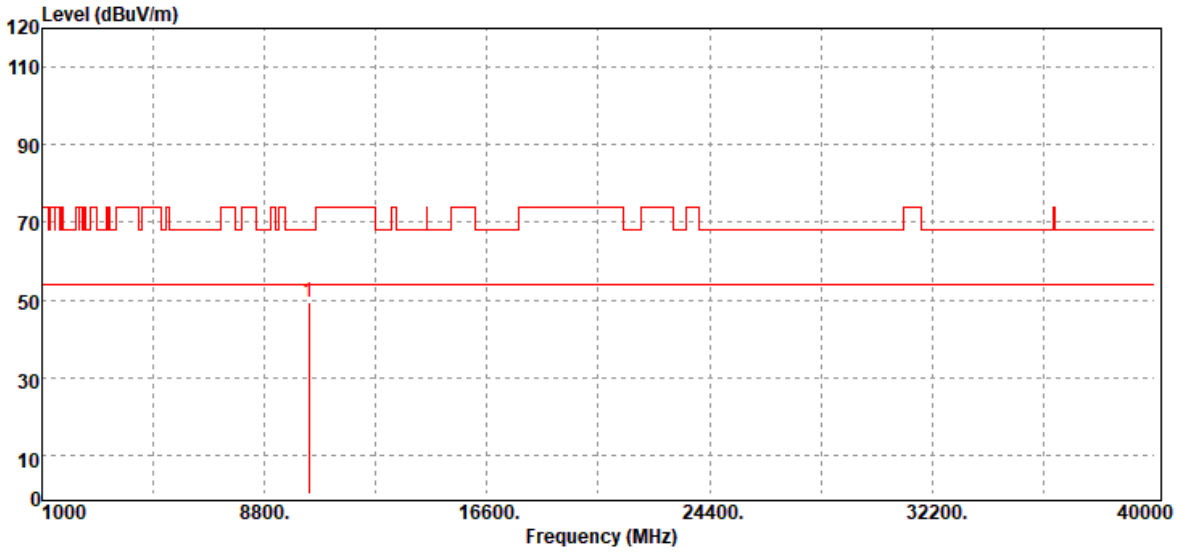


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10480.00	Peak	34.95	15.09	50.04	68.20	-18.16
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit*

Test Mode	IEEE 802.11n 20 MHz / 5180MHZ	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Harmonic	Test Date	June 5, 2020
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		

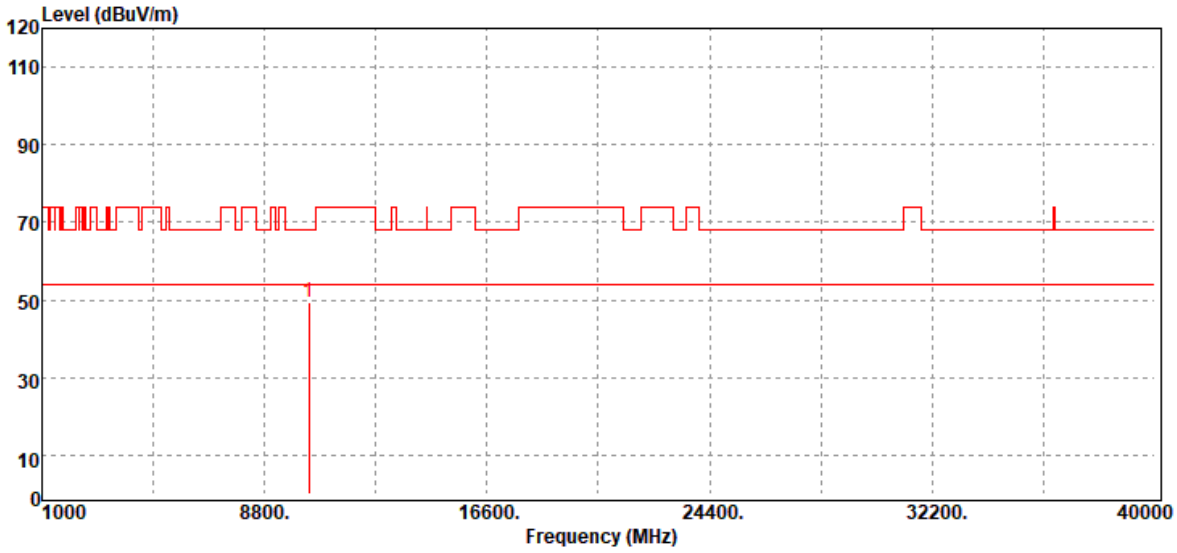


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10360.00	Peak	34.58	15.04	49.62	68.20	-18.58
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit*

Test Mode	IEEE 802.11n 20 MHz/ 5180MHZ	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Harmonic	Test Date	June 5, 2020
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak		

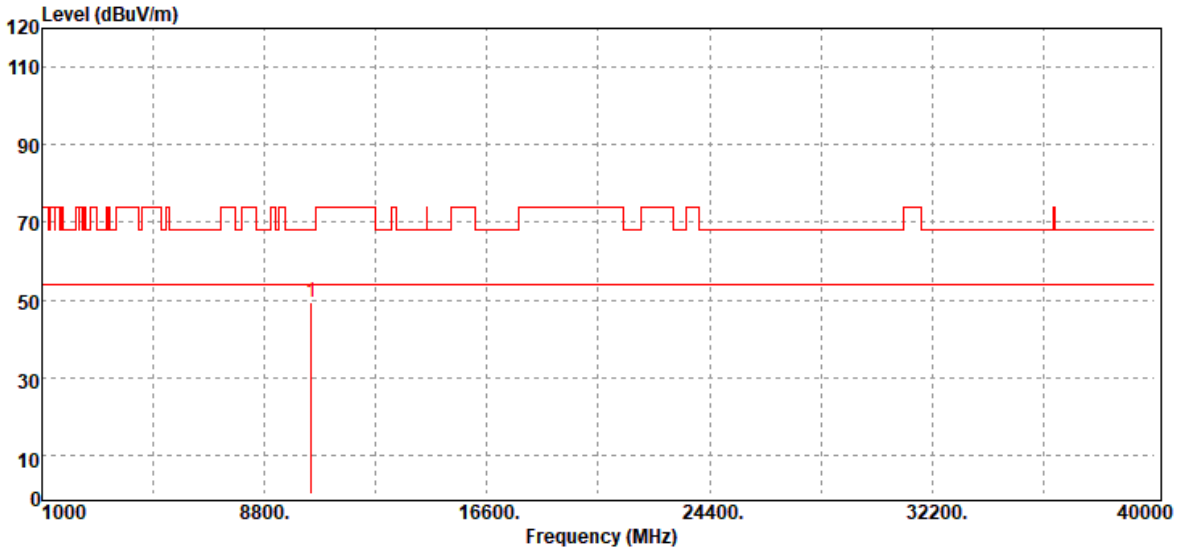


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10360.00	Peak	34.54	15.04	49.58	68.20	-18.62
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit*

Test Mode	IEEE 802.11n 20 MHz / 5220MHZ	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Harmonic	Test Date	June 5, 2020
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		

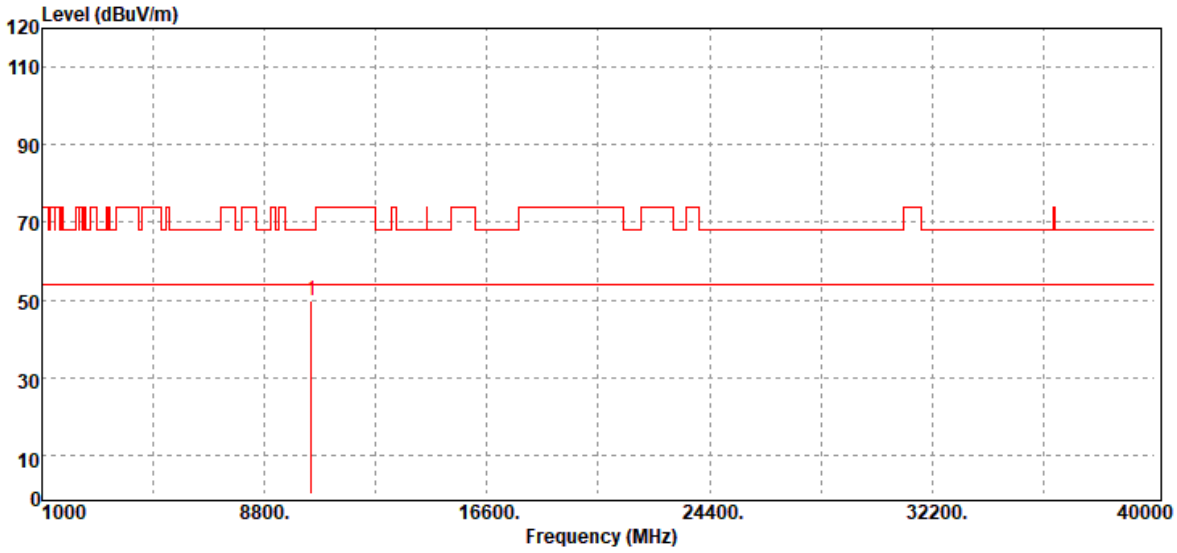


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10440.00	Peak	34.35	15.11	49.46	68.20	-18.74
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit*

Test Mode	IEEE 802.11n 20 MHz / 5220MHZ	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Harmonic	Test Date	June 5, 2020
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak		

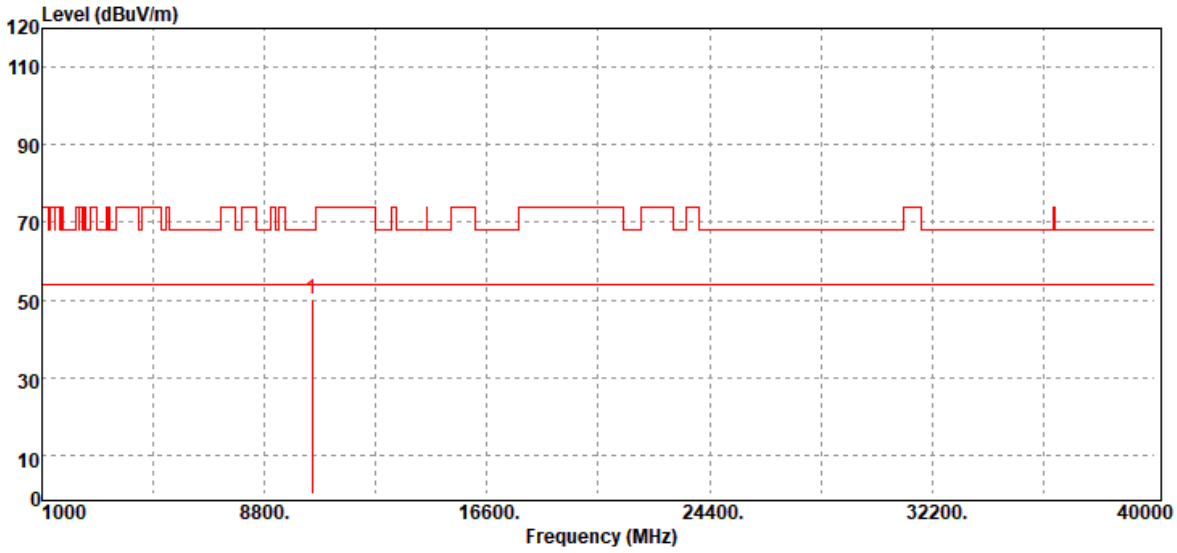


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10440.00	Peak	34.73	15.11	49.84	68.20	-18.36
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit*

Test Mode	IEEE 802.11n 20 MHz / 5240MHZ	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Harmonic	Test Date	June 5, 2020
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		

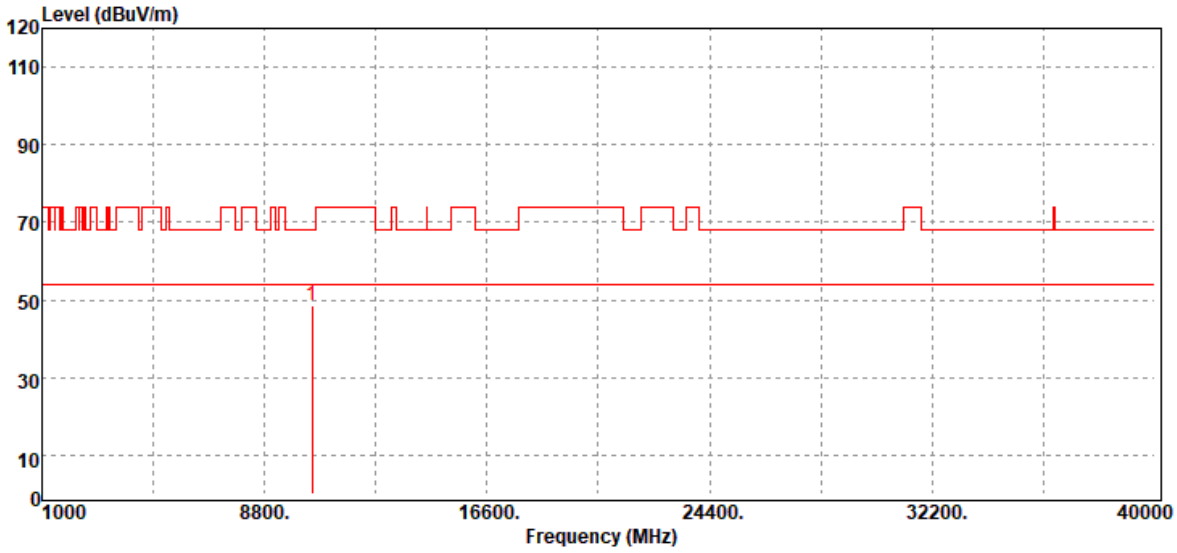


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10480.00	Peak	35.20	15.09	50.29	68.20	-17.91
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit*

Test Mode	IEEE 802.11n 20 MHz / 5240MHZ	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Harmonic	Test Date	June 5, 2020
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak		

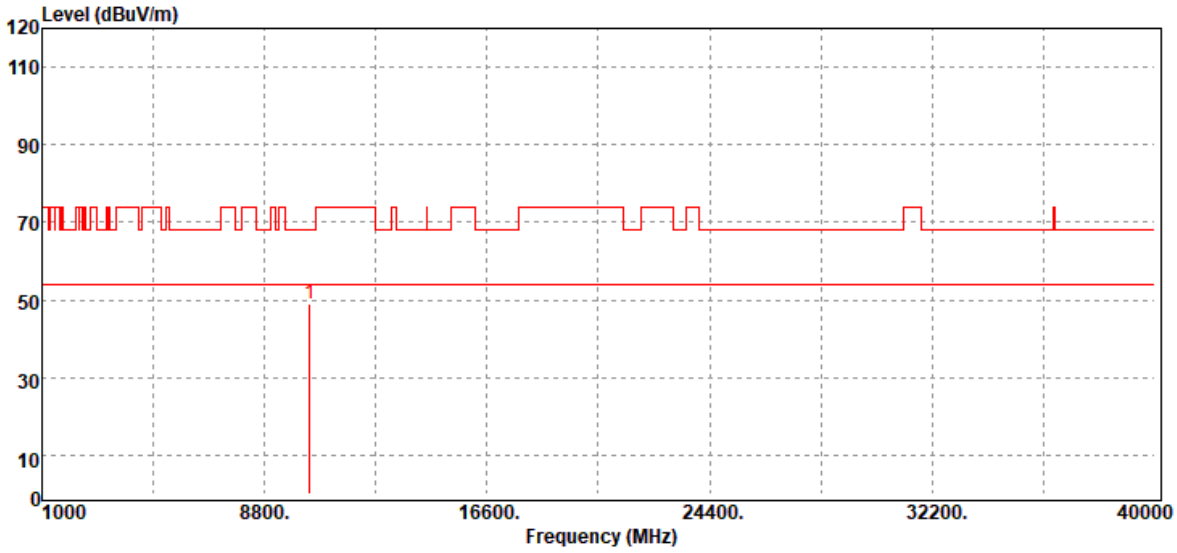


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10480.00	Peak	33.69	15.09	48.78	68.20	-19.42
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit*

Test Mode	IEEE 802.11n 40 MHz / 5190MHZ	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Harmonic	Test Date	June 5, 2020
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		

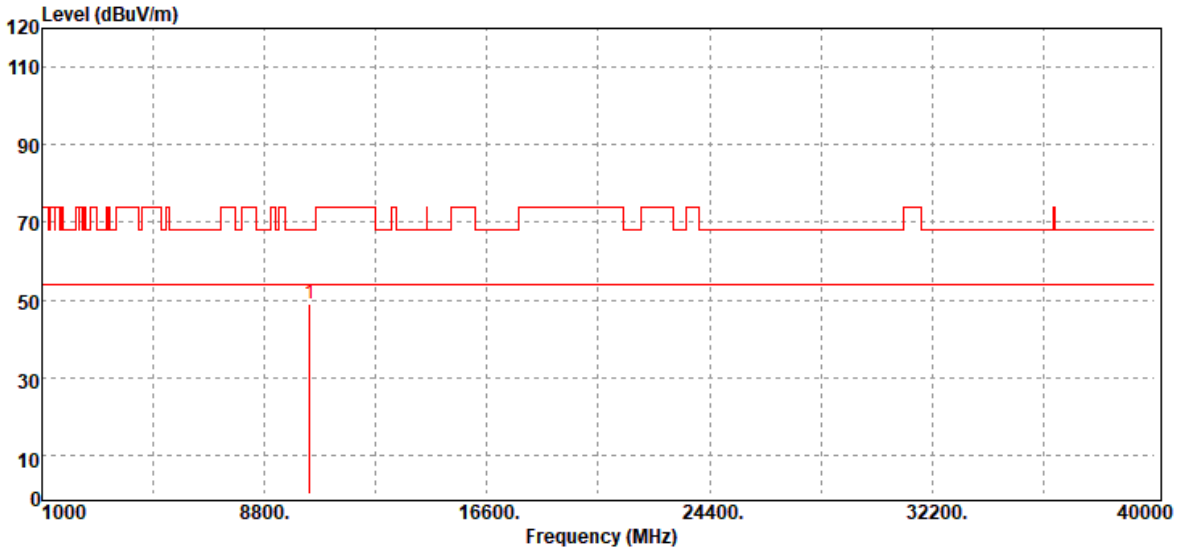


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10380.00	Peak	33.81	14.99	48.80	68.20	-19.40
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit*

Test Mode	IEEE 802.11n 40 MHz / 5190MHZ	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Harmonic	Test Date	June 5, 2020
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak		

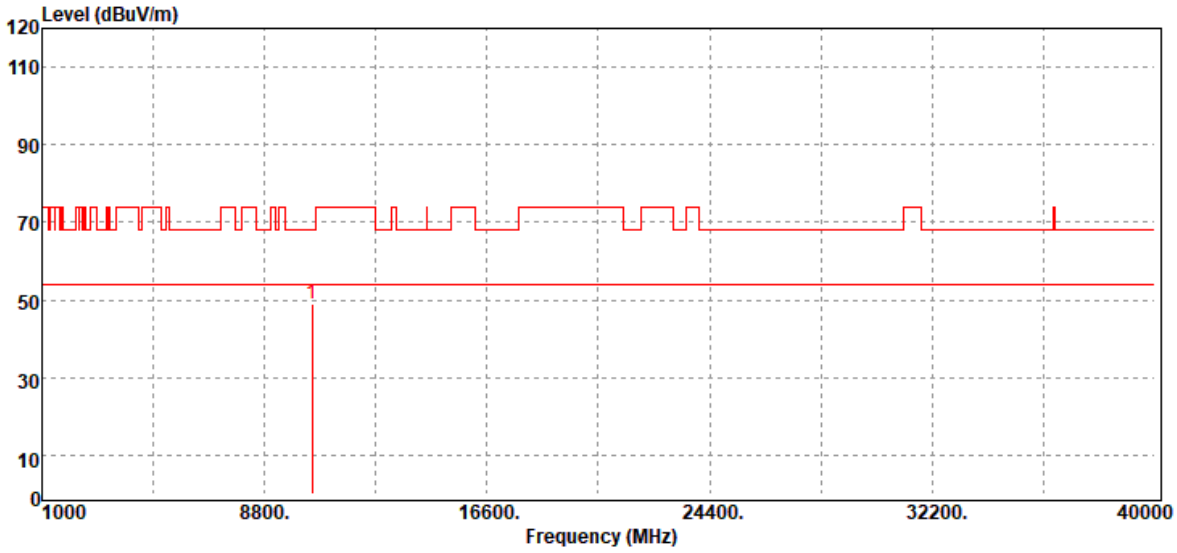


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10380.00	Peak	33.83	14.99	48.82	68.20	-19.38
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit*

Test Mode	IEEE 802.11n 40 MHz / 5230MHZ	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Harmonic	Test Date	June 5, 2020
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		

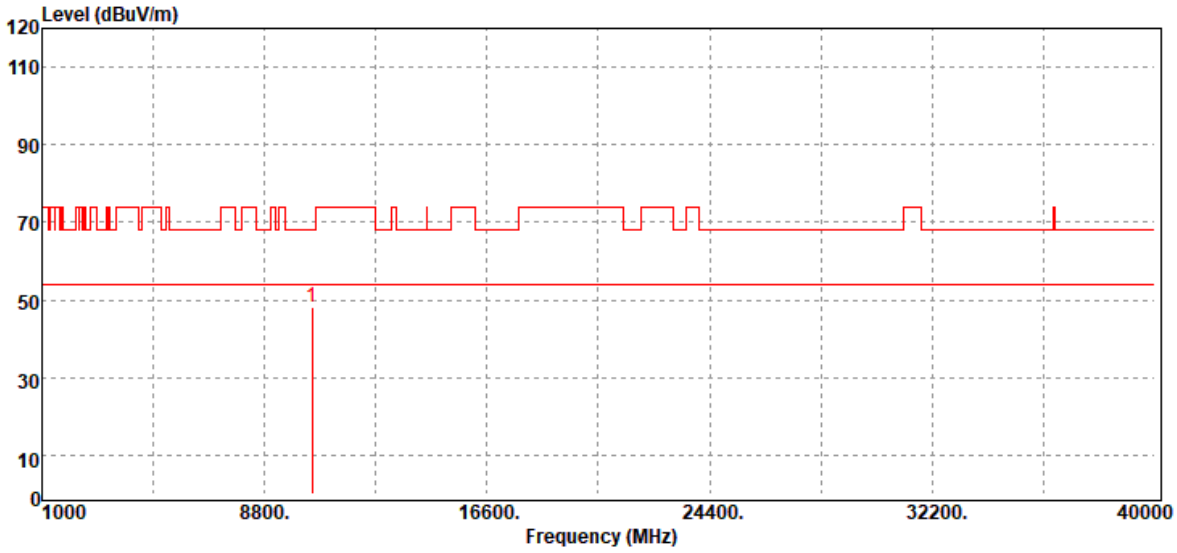


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10460.00	Peak	33.76	15.13	48.89	68.20	-19.31
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit*

Test Mode	IEEE 802.11n 40 MHz / 5230MHZ	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Harmonic	Test Date	June 5, 2020
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak		

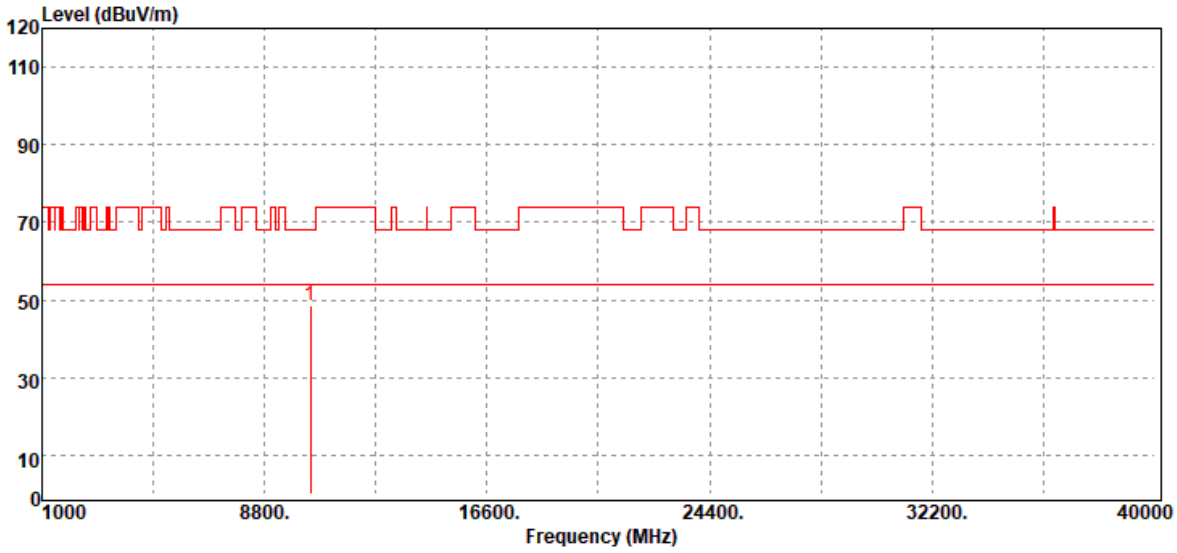


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10460.00	Peak	33.23	15.13	48.36	68.20	-19.84
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit*

Test Mode	IEEE 802.11ac VHT80 / 5210MHZ	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Harmonic	Test Date	June 5, 2020
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		

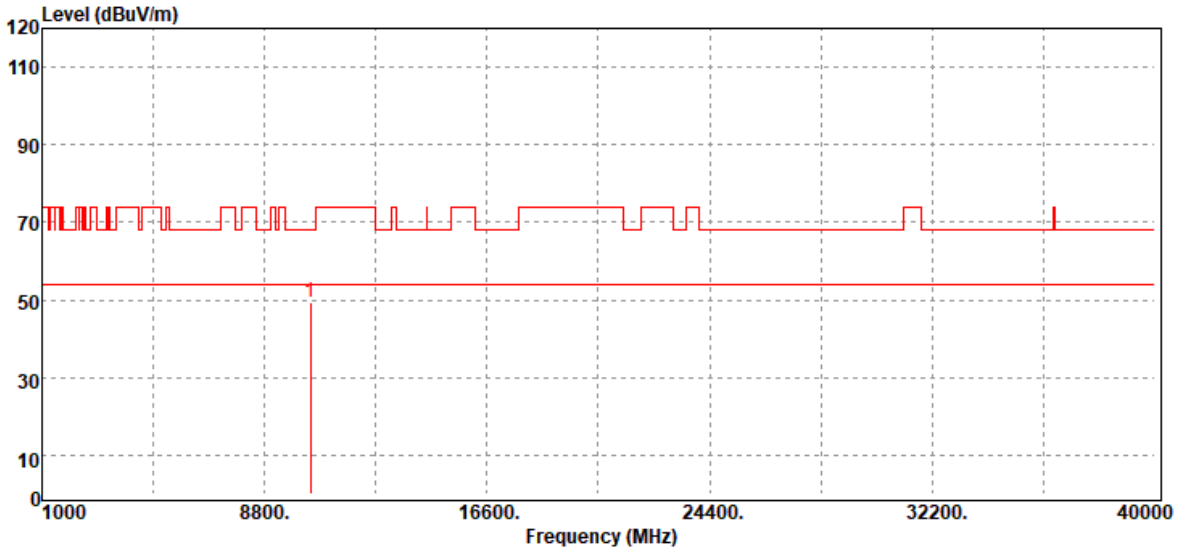


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10420.00	Peak	33.72	15.01	48.73	68.20	-19.47
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit*

Test Mode	IEEE 802.11ac VHT80 / 5210MHZ	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Harmonic	Test Date	June 5, 2020
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak		



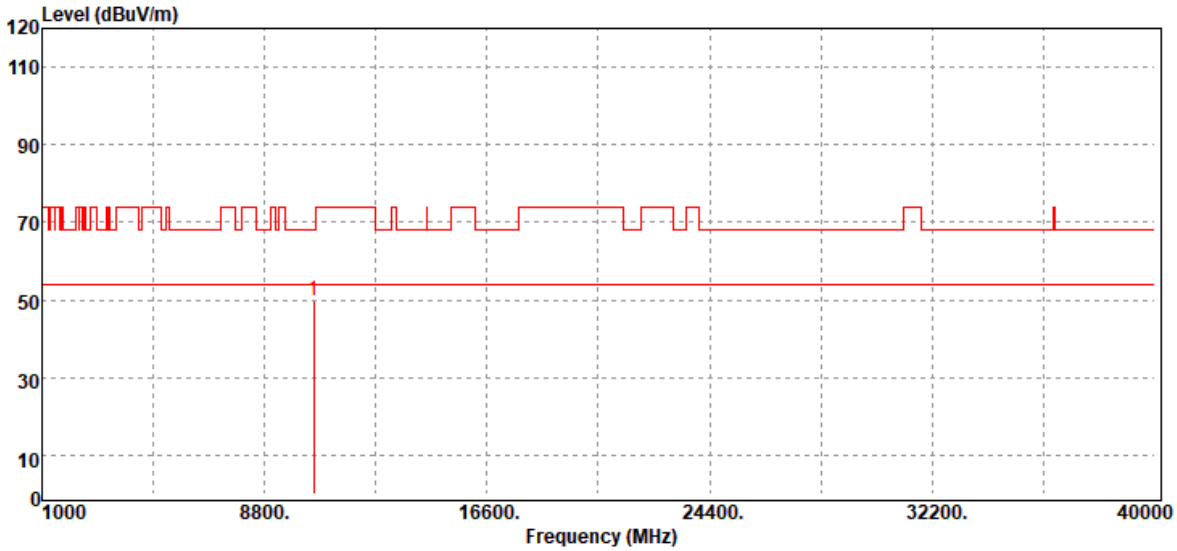
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10420.00	Peak	34.59	15.01	49.60	68.20	-18.60
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit*

Test Data for UNII-2a

Test Mode	IEEE 802.11a / 5260 MHz	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Harmonic	Test Date	June 5, 2020
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		

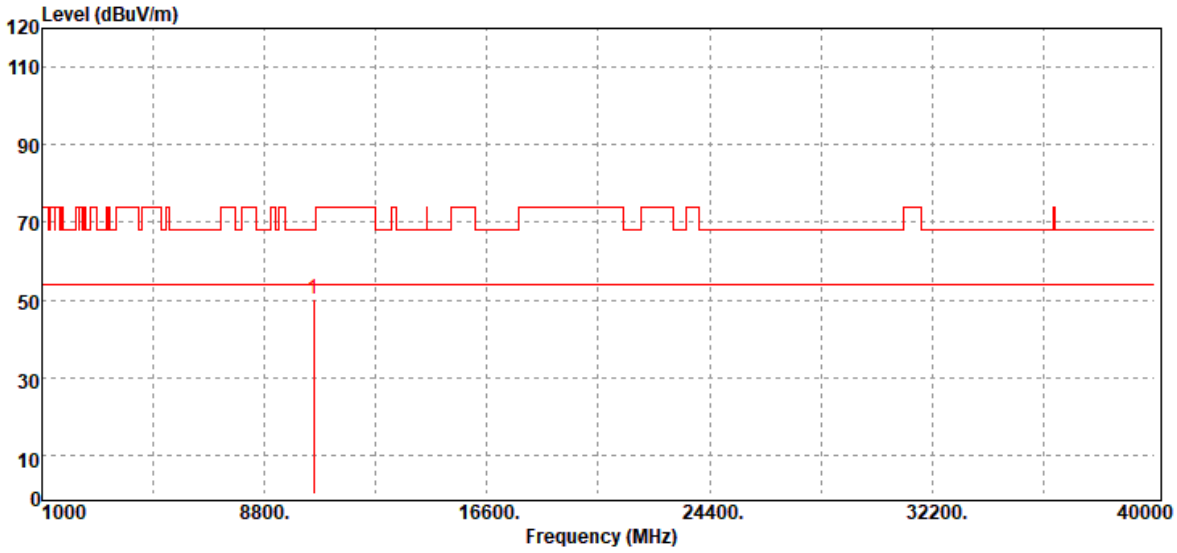


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10520.00	Peak	34.90	15.05	49.95	68.20	-18.25
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit*

Test Mode	IEEE 802.11a / 5260 MHz	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Harmonic	Test Date	June 5, 2020
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak		

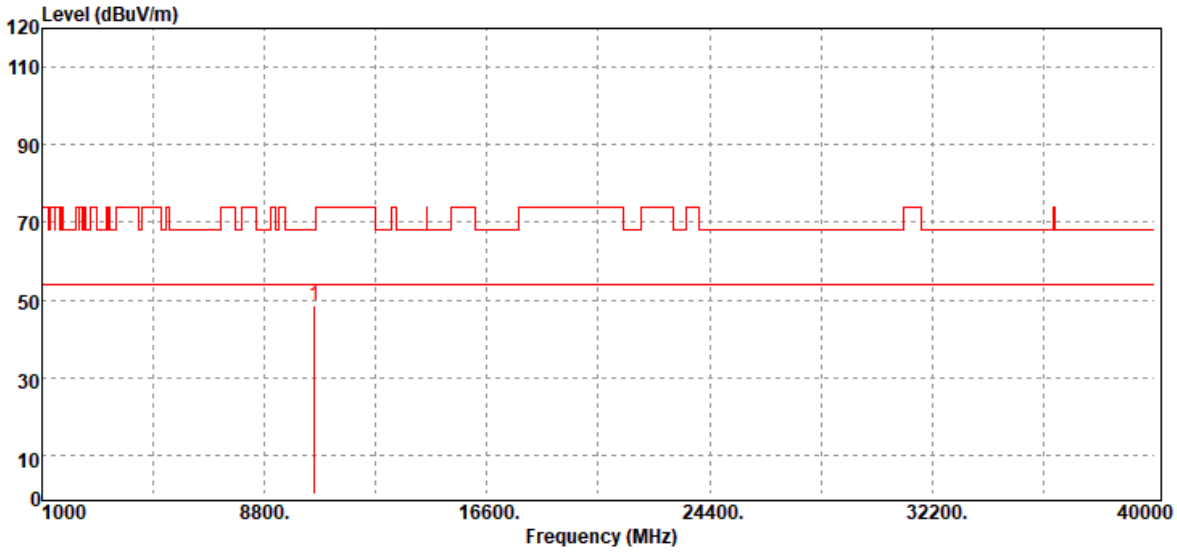


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10520.00	Peak	35.37	15.05	50.42	68.20	-17.78
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit*

Test Mode	IEEE 802.11a / 5280 MHz	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Harmonic	Test Date	June 5, 2020
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		

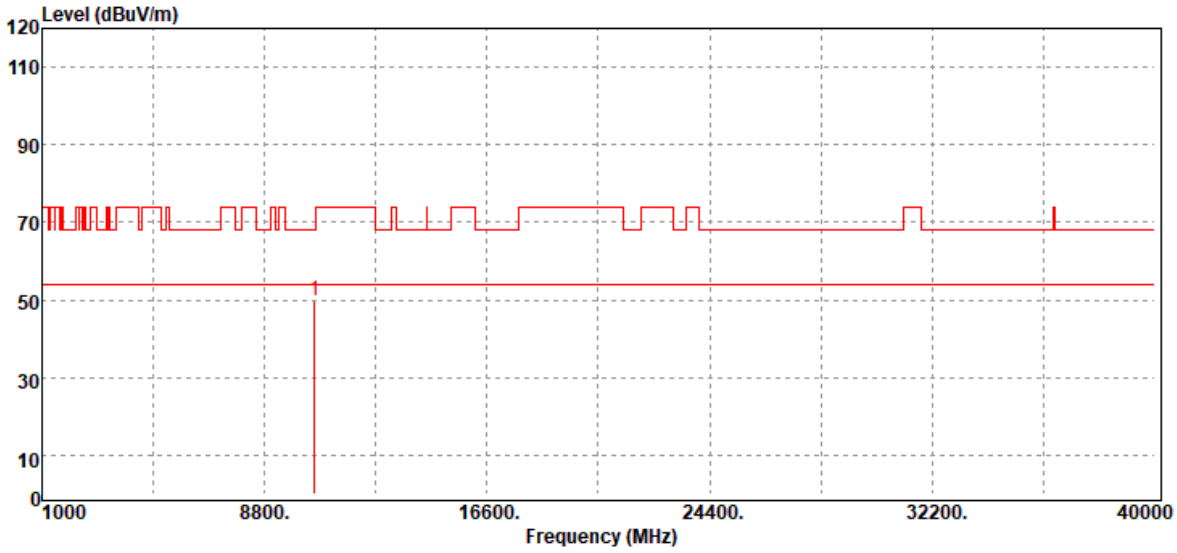


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10560.00	Peak	33.35	15.05	48.40	68.20	-19.80
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit*

Test Mode	IEEE 802.11a / 5280 MHz	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Harmonic	Test Date	June 5, 2020
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak		

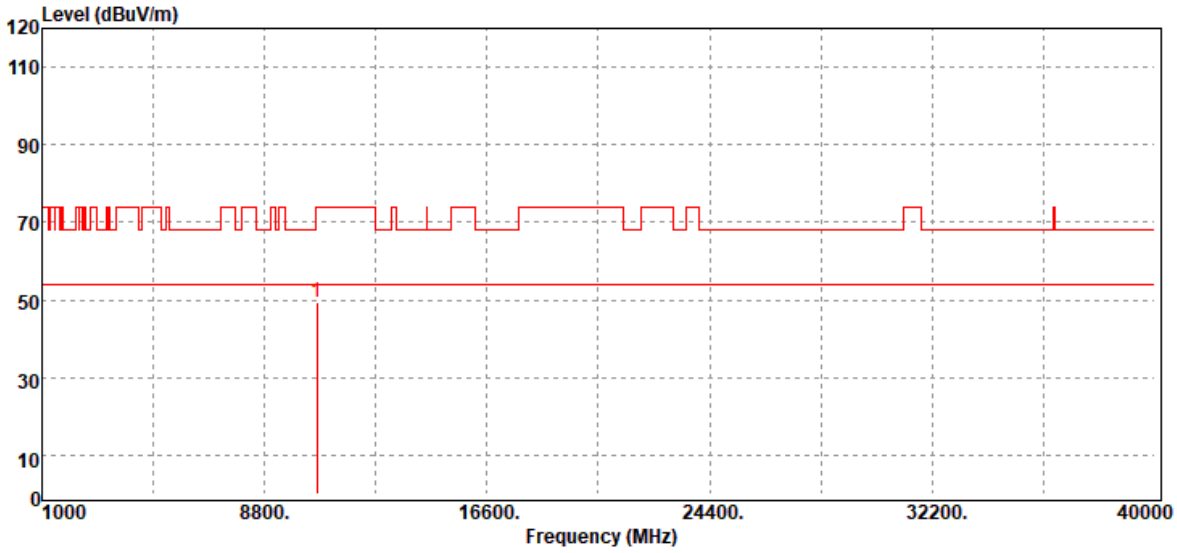


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10560.00	Peak	34.74	15.05	49.79	68.20	-18.41
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit*

Test Mode	IEEE 802.11a / 5320 MHz	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Harmonic	Test Date	June 5, 2020
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		

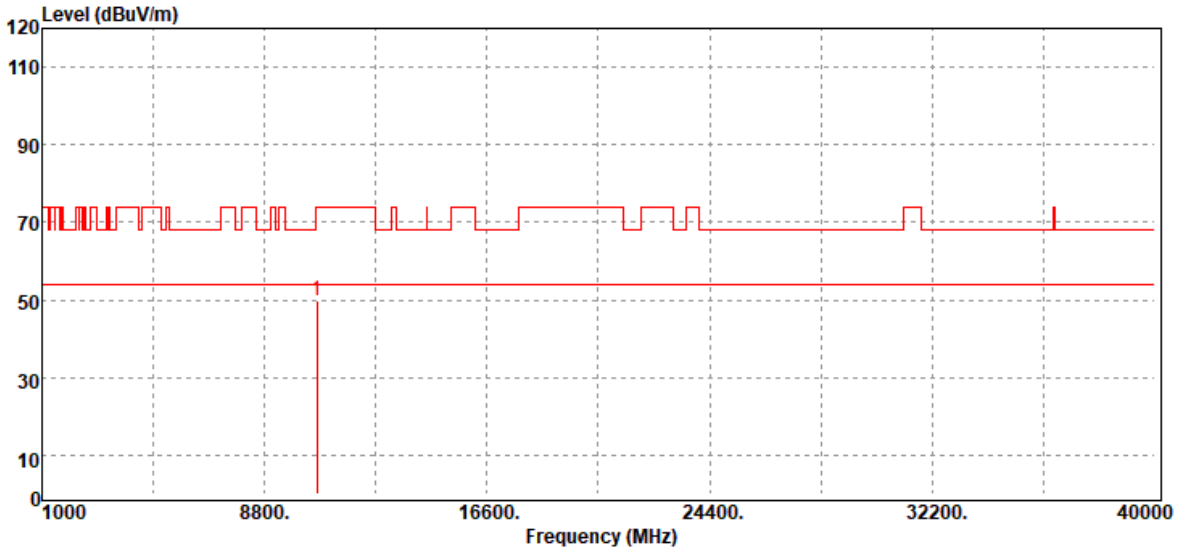


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10640.00	Peak	33.96	15.51	49.47	74.00	-24.53
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit*

Test Mode	IEEE 802.11a / 5320 MHz	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Harmonic	Test Date	June 5, 2020
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak		

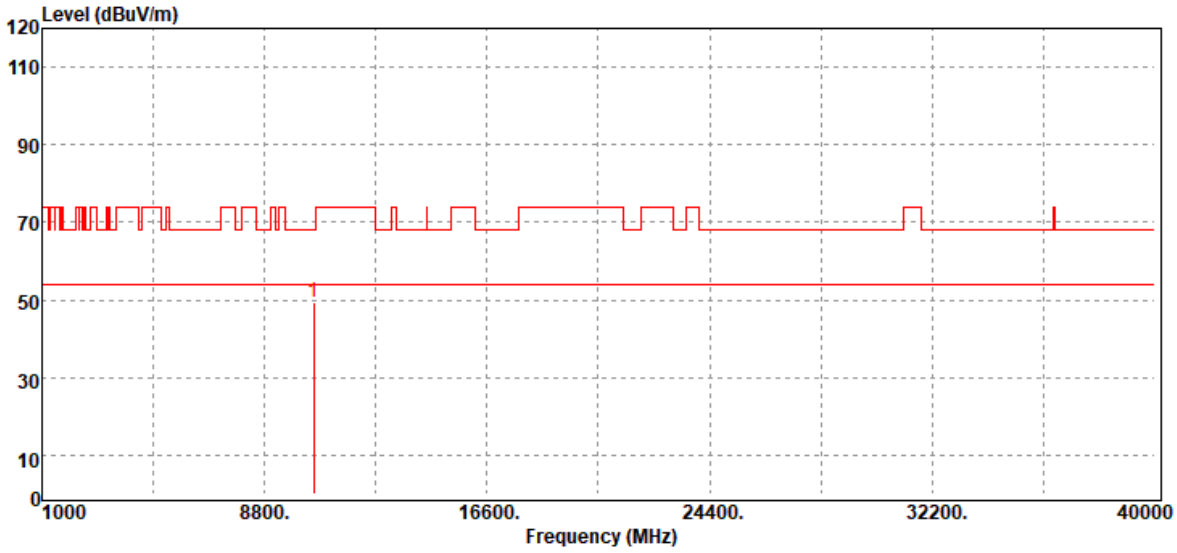


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10640.00	Peak	34.42	15.51	49.93	74.00	-24.07
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit*

Test Mode	IEEE 802.11n 20 MHz / 5260 MHz	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Harmonic	Test Date	June 5, 2020
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		

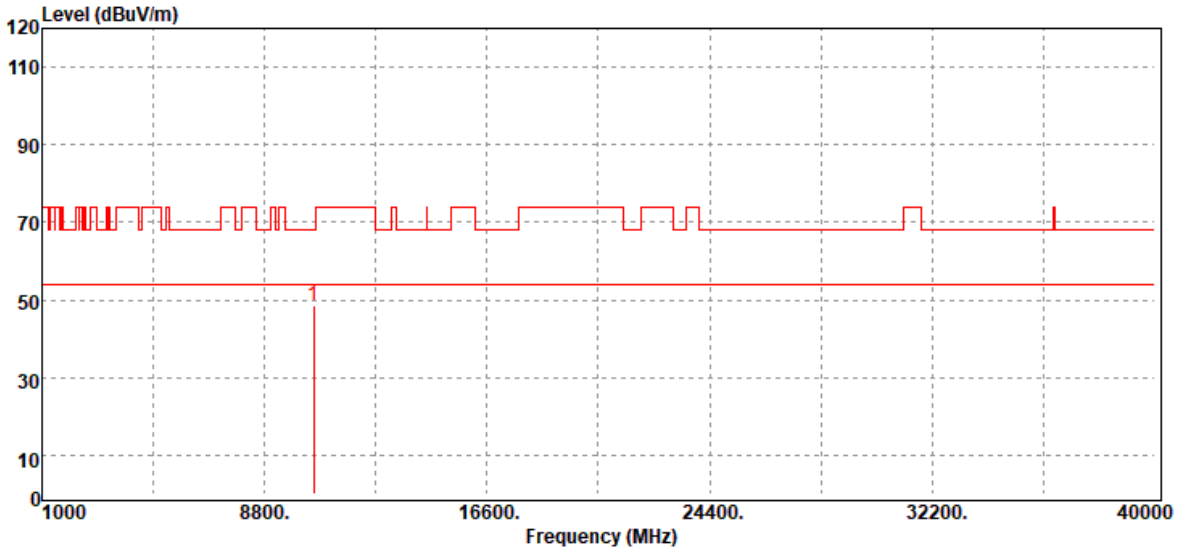


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10520.00	Peak	34.26	15.05	49.31	68.20	-18.89
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit*

Test Mode	IEEE 802.11n 20 MHz / 5260 MHz	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Harmonic	Test Date	June 5, 2020
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak		

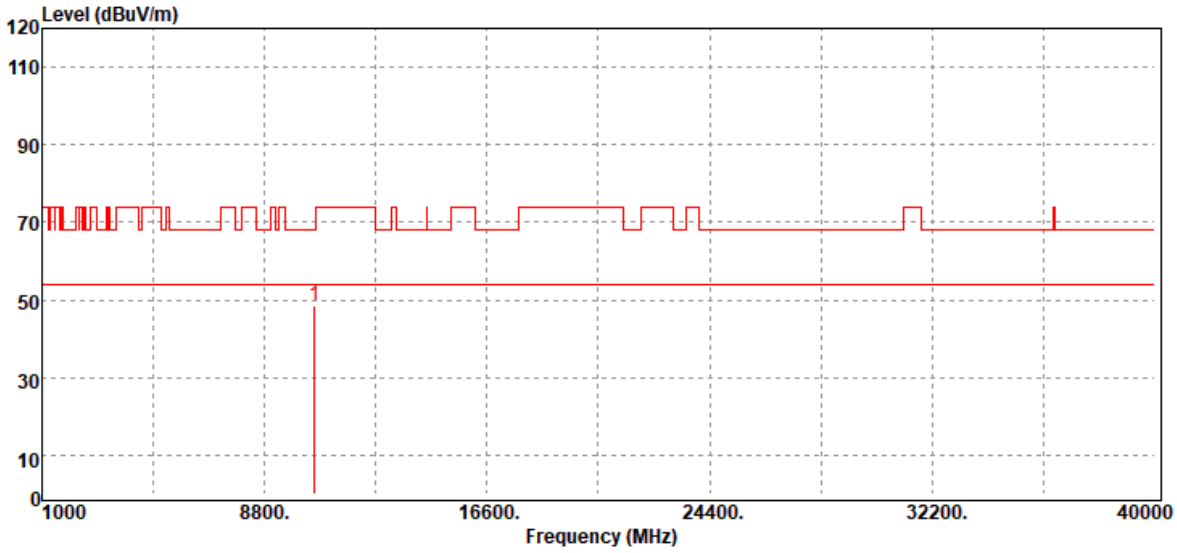


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10520.00	Peak	33.64	15.05	48.69	68.20	-19.51
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit*

Test Mode	IEEE 802.11n 20 MHz / 5280 MHz	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Harmonic	Test Date	June 5, 2020
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		

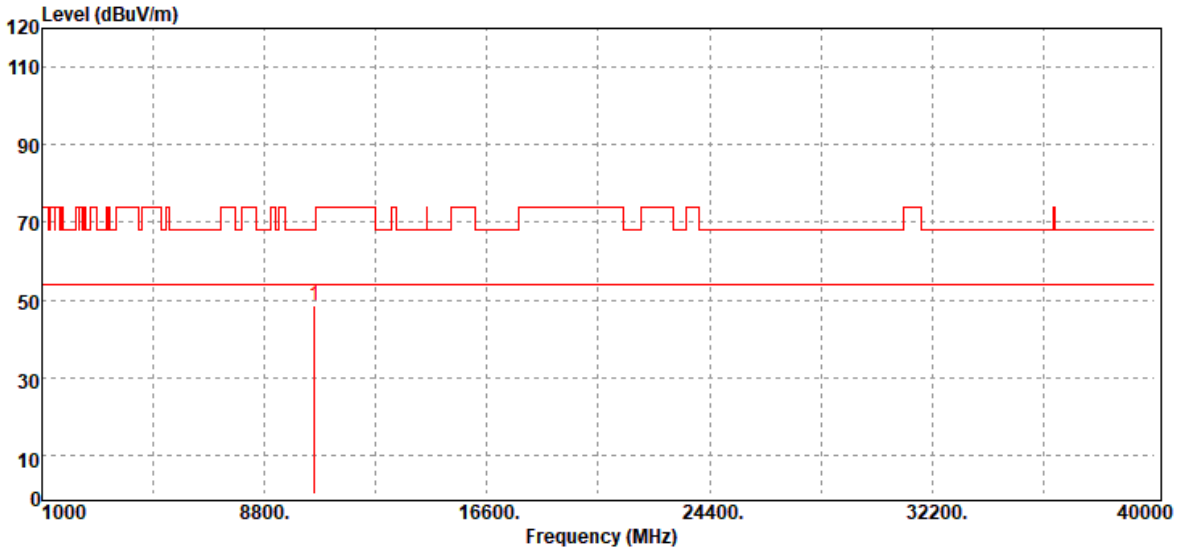


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10560.00	Peak	33.37	15.05	48.42	68.20	-19.78
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit*

Test Mode	IEEE 802.11n 20 MHz / 5280 MHz	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Harmonic	Test Date	June 5, 2020
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak		

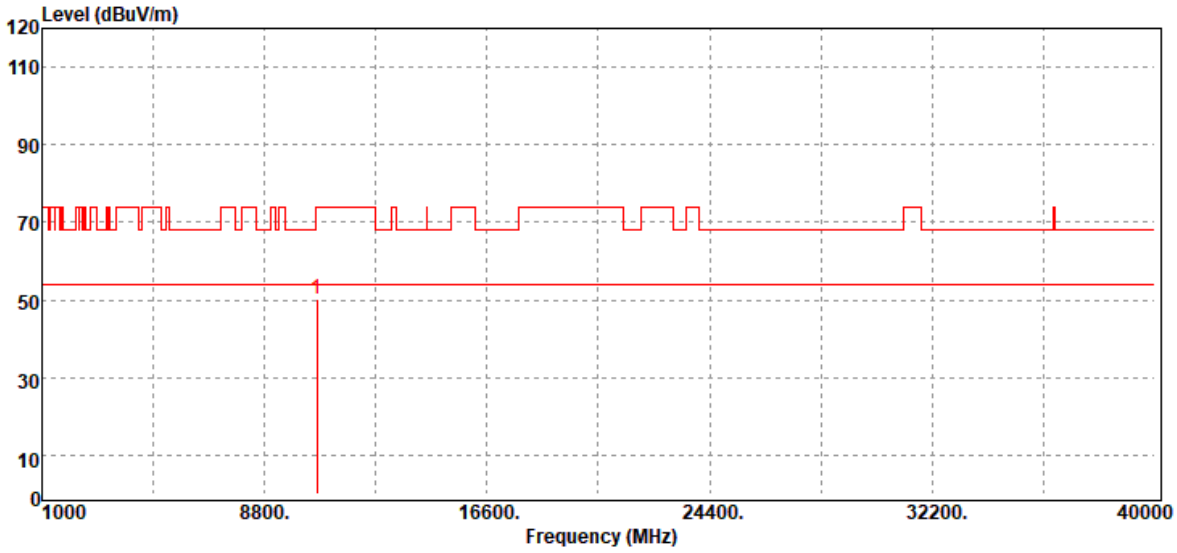


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10560.00	Peak	33.49	15.05	48.54	68.20	-19.66
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit*

Test Mode	IEEE 802.11n 20 MHz / 5320 MHz	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Harmonic	Test Date	June 5, 2020
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		

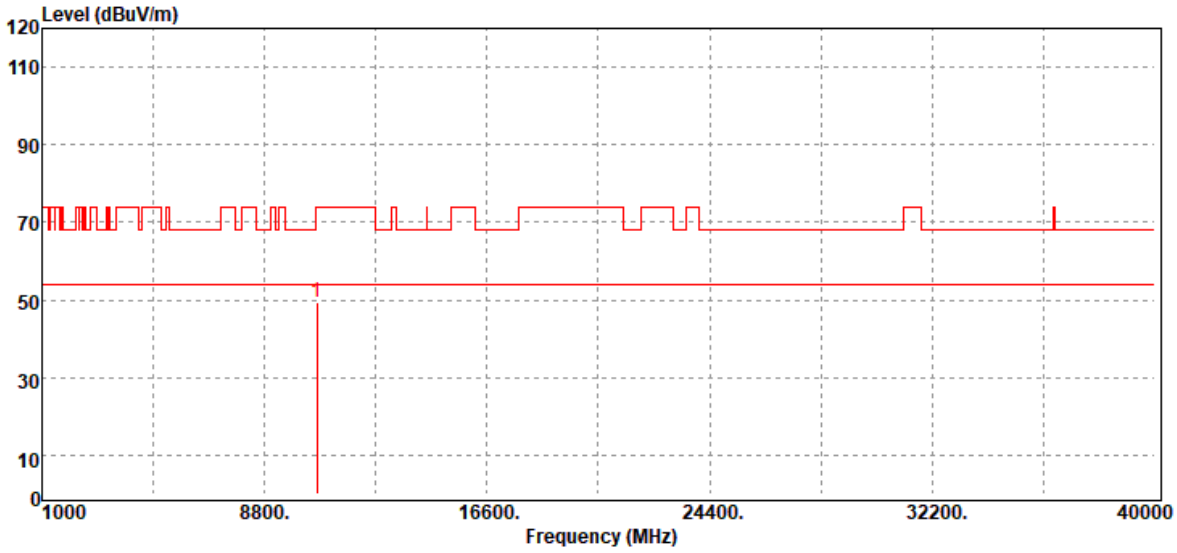


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10640.00	Peak	34.55	15.51	50.06	74.00	-23.94
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit*

Test Mode	IEEE 802.11n 20 MHz / 5320 MHz	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Harmonic	Test Date	June 5, 2020
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak		

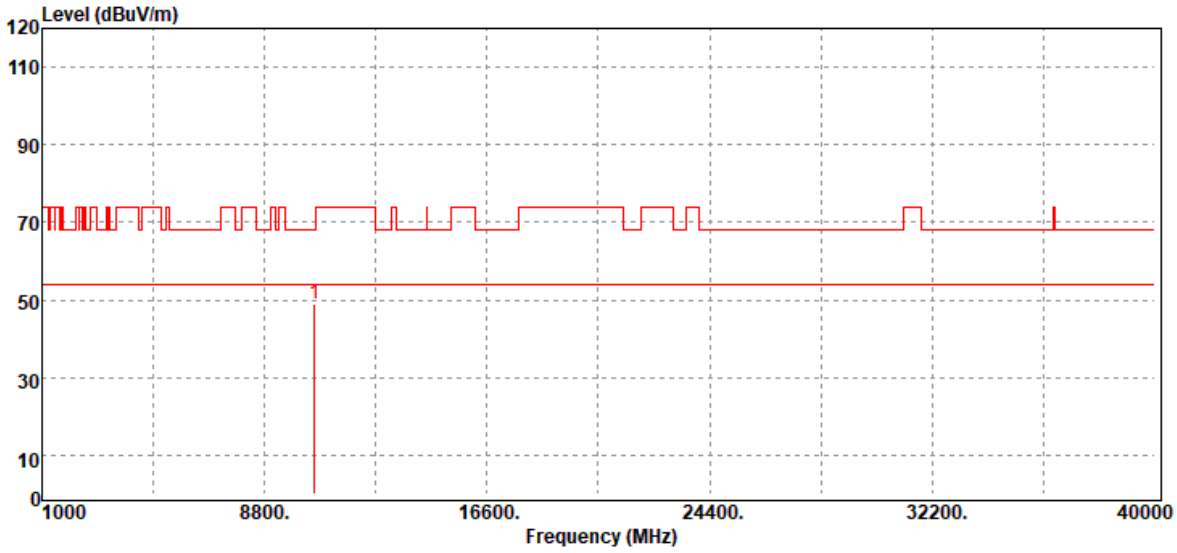


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10640.00	Peak	33.93	15.51	49.44	74.00	-24.56
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit*

Test Mode	IEEE 802.11n 40 MHz / 5270 MHz	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Harmonic	Test Date	June 5, 2020
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		

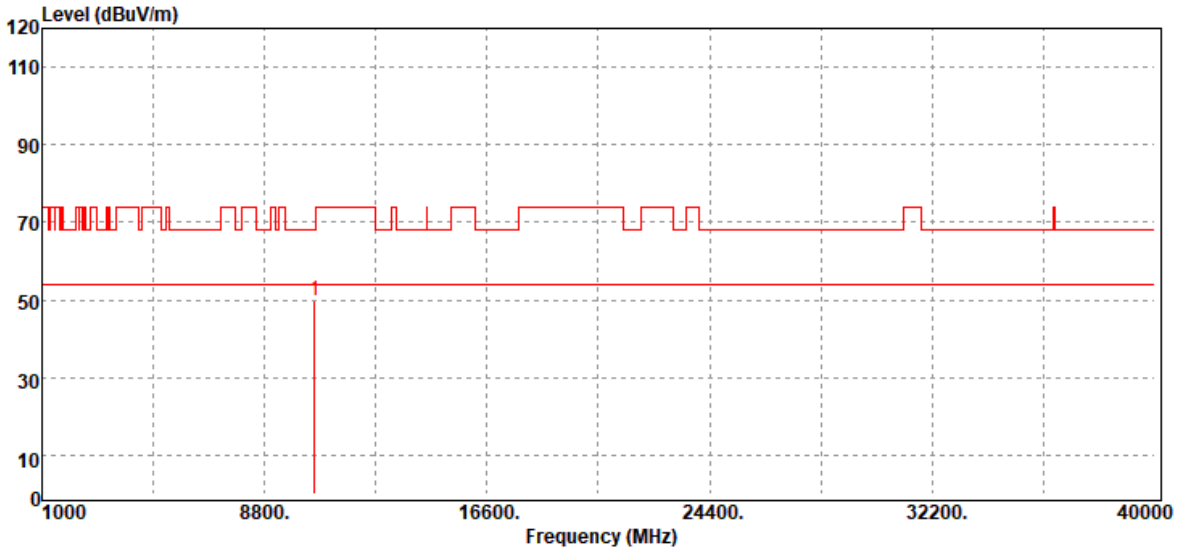


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10540.00	Peak	33.85	15.05	48.90	68.20	-19.30
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit*

Test Mode	IEEE 802.11n 40 MHz / 5270 MHz	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Harmonic	Test Date	June 5, 2020
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak		

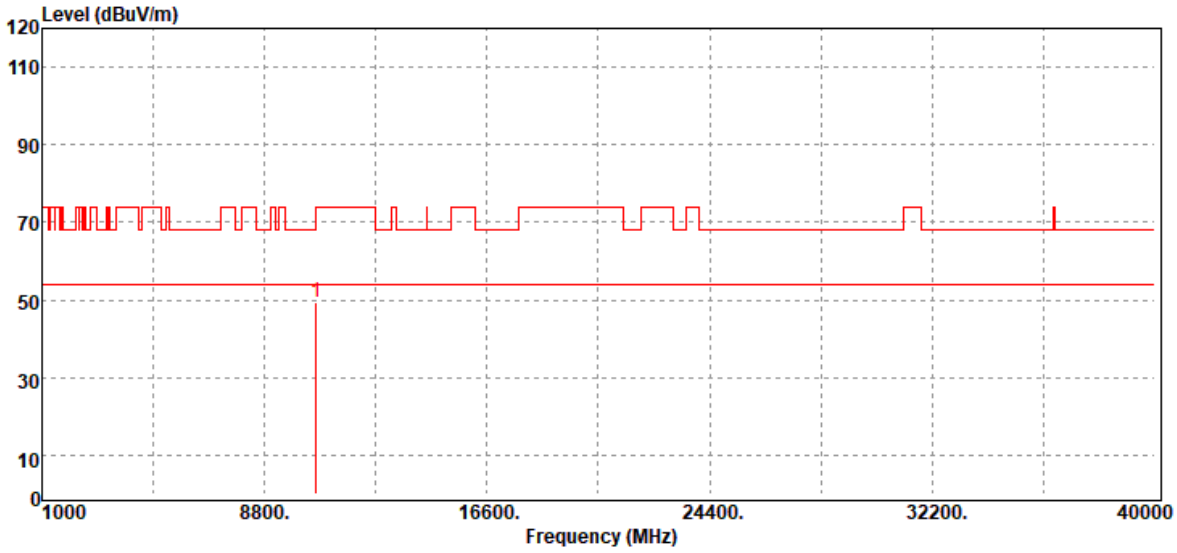


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10540.00	Peak	34.75	15.05	49.80	68.20	-18.40
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit*

Test Mode	IEEE 802.11n 40 MHz / 5310 MHz	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Harmonic	Test Date	June 5, 2020
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		

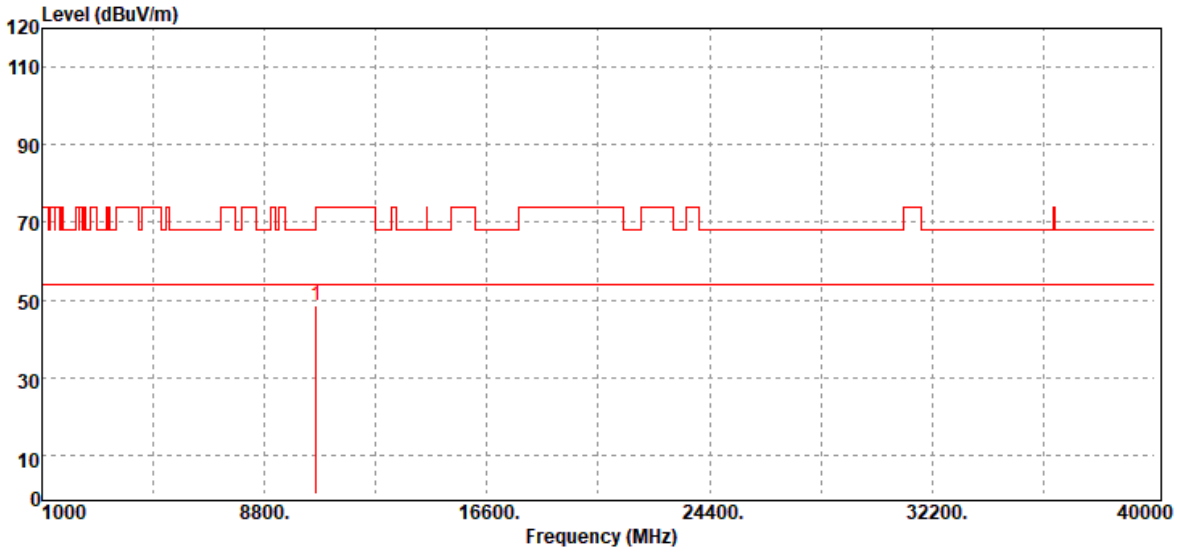


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10620.00	Peak	34.05	15.28	49.33	74.00	-24.67
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit*

Test Mode	IEEE 802.11n 40 MHz / 5310 MHz	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Harmonic	Test Date	June 5, 2020
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak		

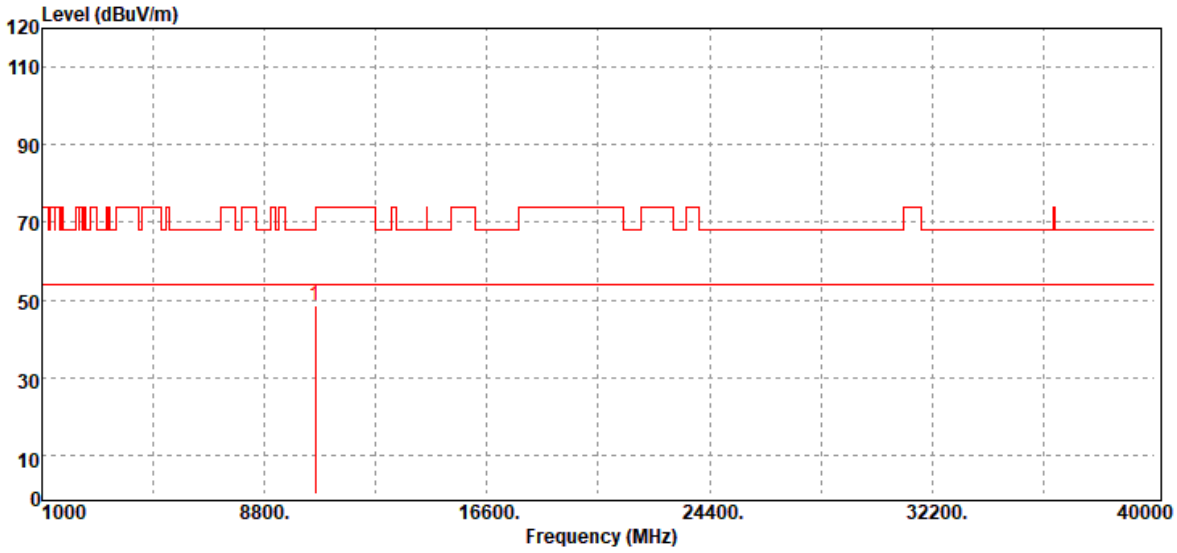


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10620.00	Peak	33.32	15.28	48.60	74.00	-25.40
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit*

Test Mode	IEEE 802.11ac VHT80 / 5290 MHZ	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Harmonic	Test Date	June 5, 2020
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		

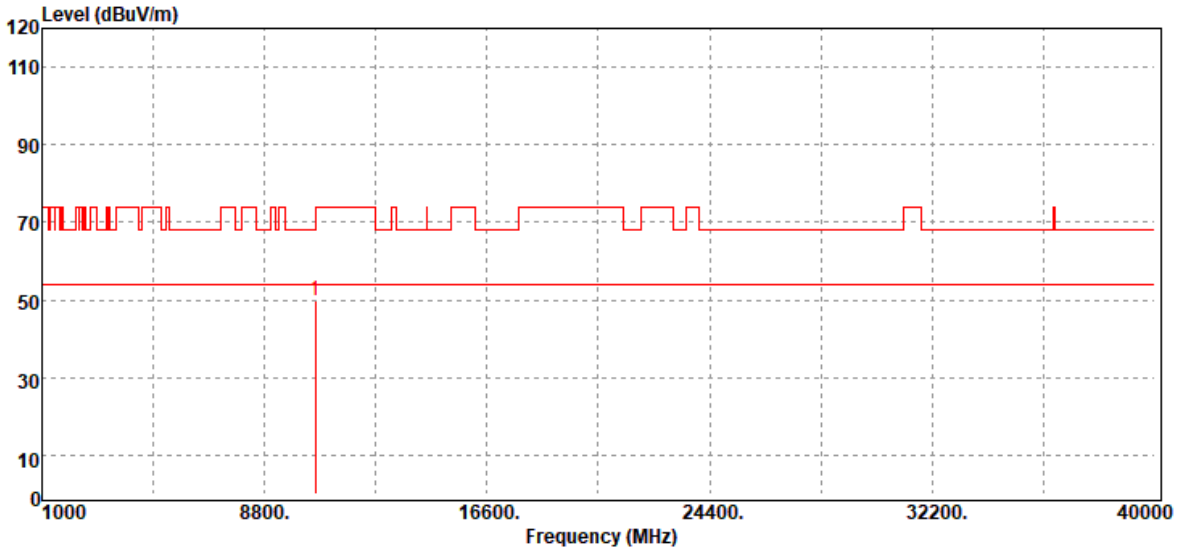


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10580.00	Peak	33.55	15.06	48.61	68.20	-19.59
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit*

Test Mode	IEEE 802.11ac VHT80 / 5290 MHZ	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Harmonic	Test Date	June 5, 2020
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak		



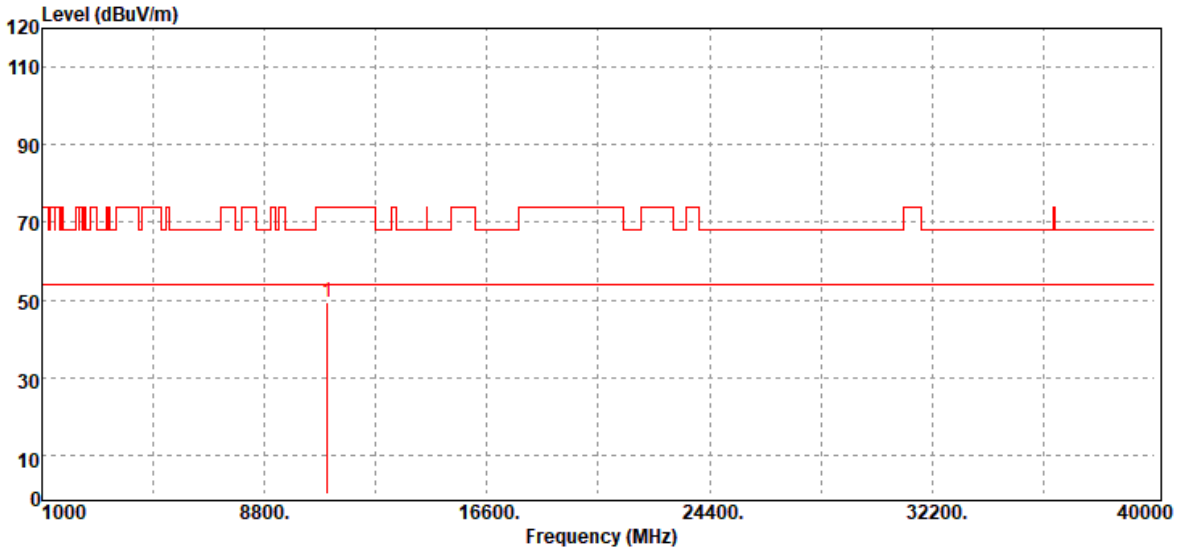
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10580.00	Peak	34.93	15.06	49.99	68.20	-18.21
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit*

Test Data for UNII-2c

Test Mode	IEEE 802.11a / 5500 MHz	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Harmonic	Test Date	June 5, 2020
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		

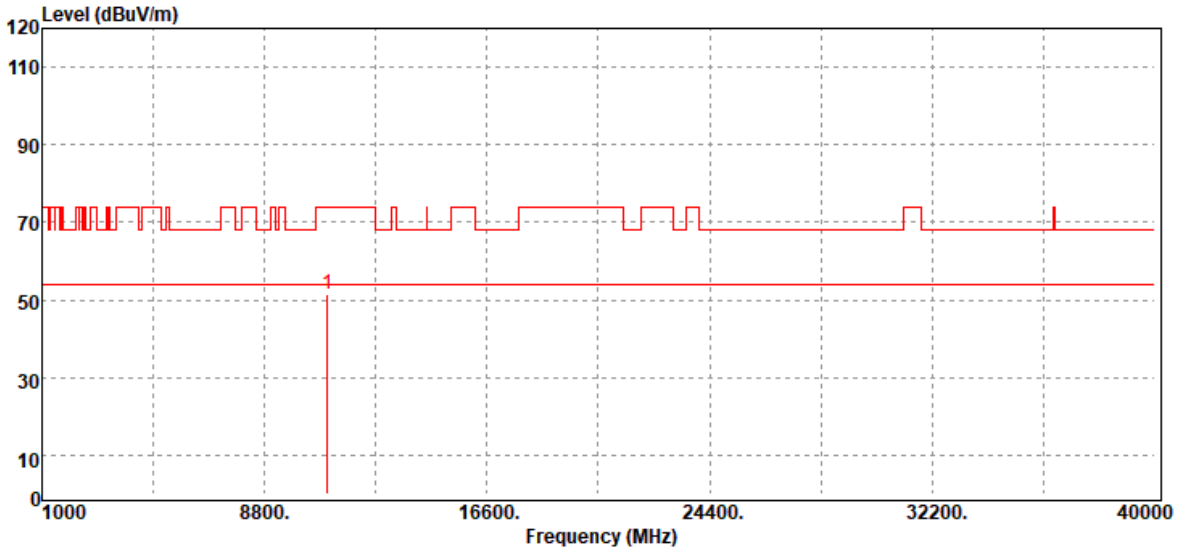


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11000.00	Peak	33.33	16.02	49.35	74.00	-24.65
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit*

Test Mode	IEEE 802.11a / 5500 MHz	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Harmonic	Test Date	June 5, 2020
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak		

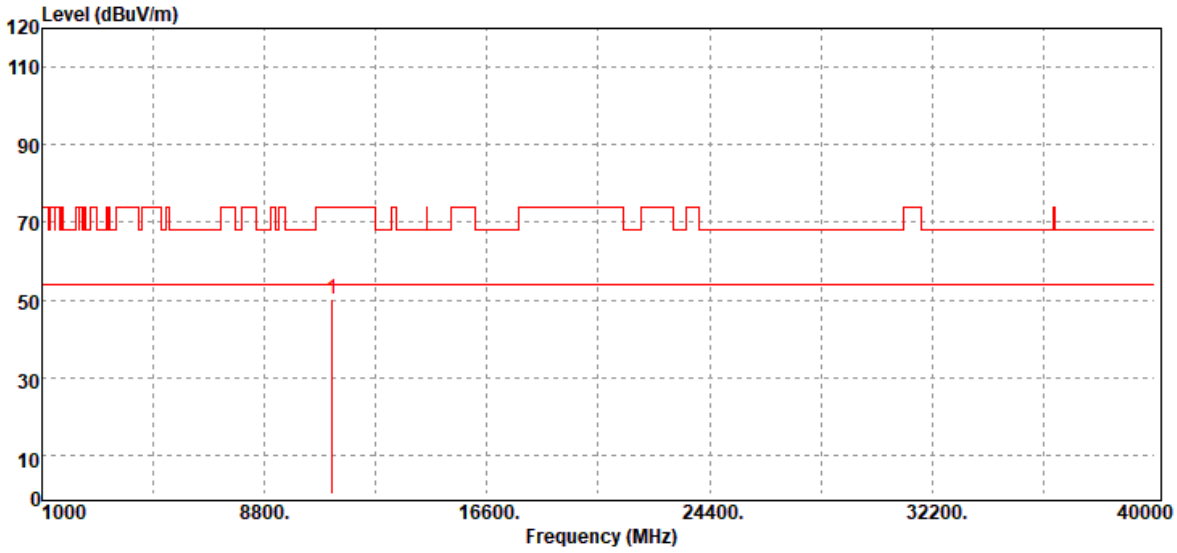


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11000.00	Peak	35.47	16.02	51.49	74.00	-22.51
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit*

Test Mode	IEEE 802.11a / 5580 MHz	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Harmonic	Test Date	June 5, 2020
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		

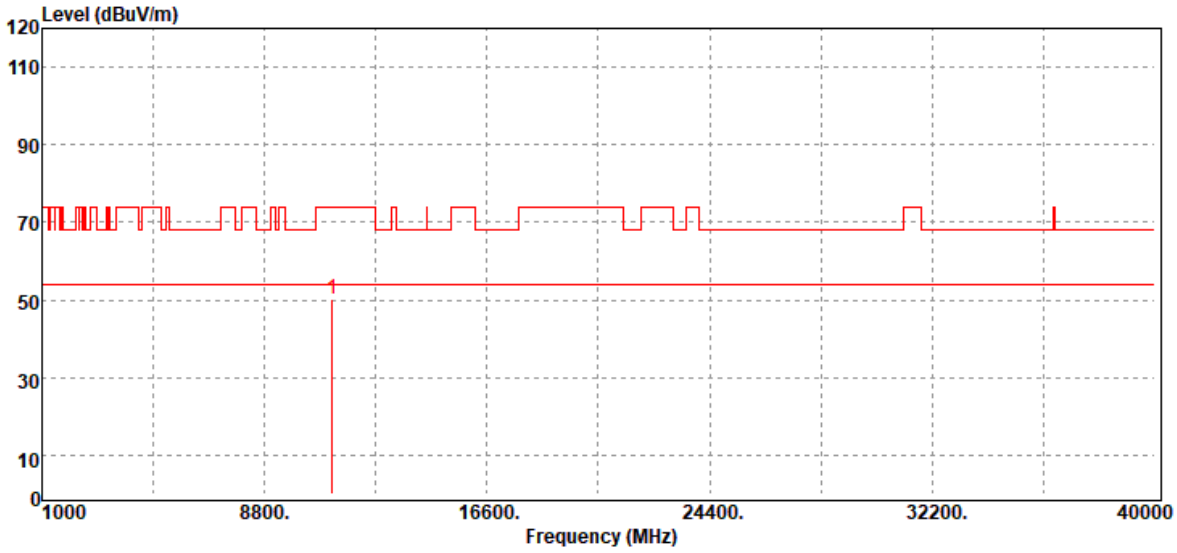


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11160.00	Peak	33.68	16.70	50.38	74.00	-23.62
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit*

Test Mode	IEEE 802.11a / 5580 MHz	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Harmonic	Test Date	June 5, 2020
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak		

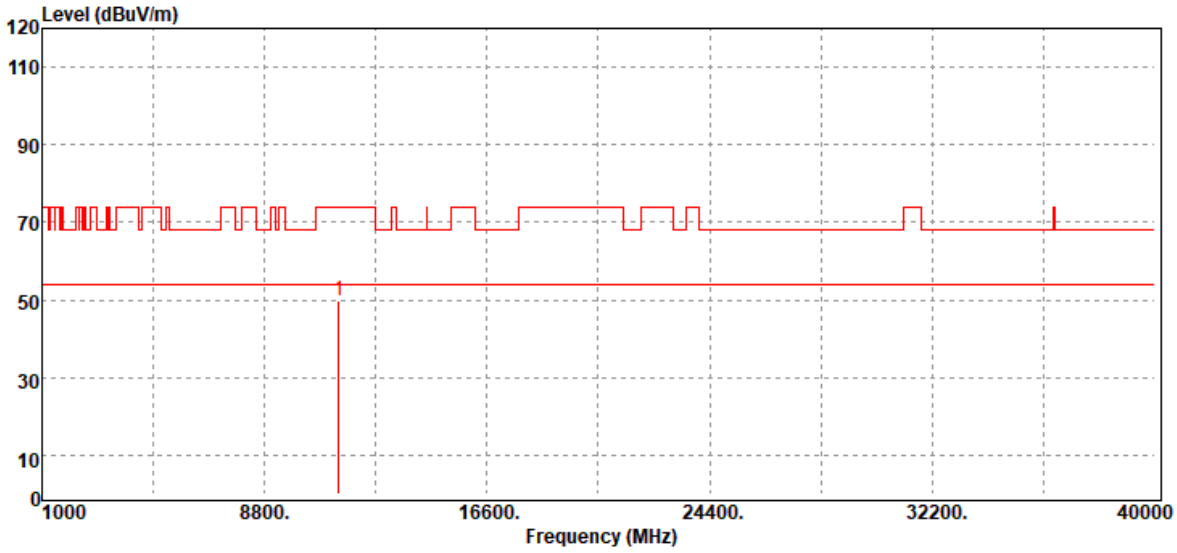


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11160.00	Peak	33.52	16.70	50.22	74.00	-23.78
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit*

Test Mode	IEEE 802.11a / 5700 MHz	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Harmonic	Test Date	June 5, 2020
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		

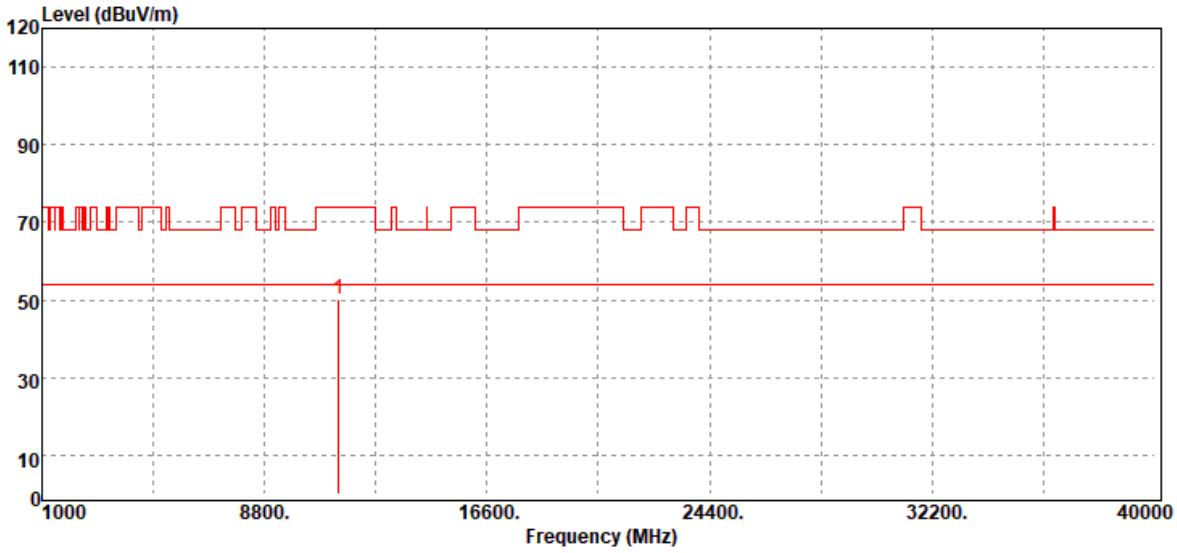


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11400.00	Peak	33.51	16.18	49.69	74.00	-24.31
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit*

Test Mode	IEEE 802.11a / 5700 MHz	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Harmonic	Test Date	June 5, 2020
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak		

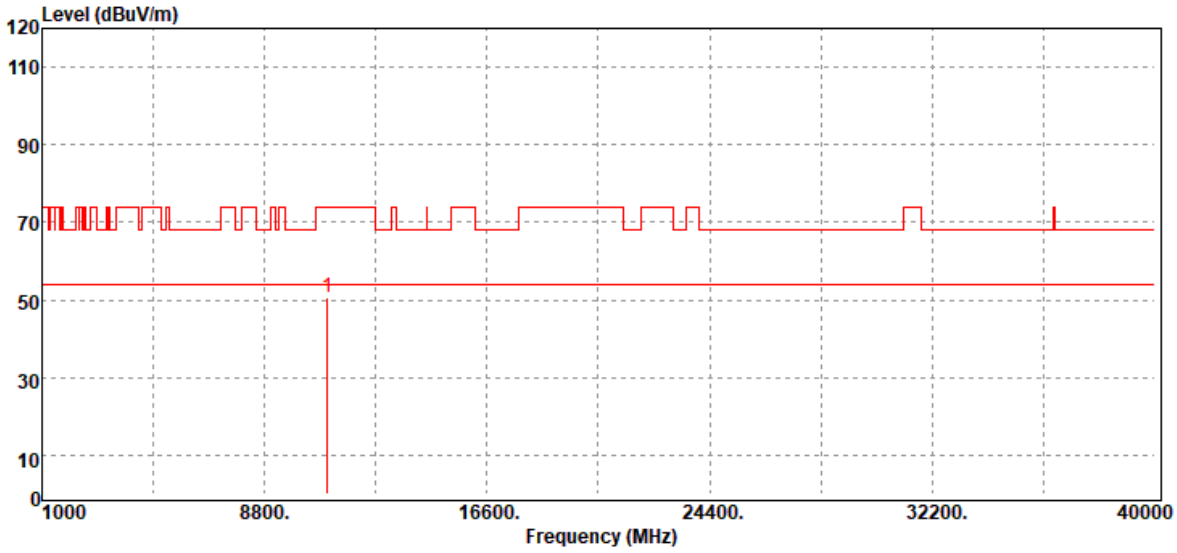


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11400.00	Peak	33.98	16.18	50.16	74.00	-23.84
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit*

Test Mode	IEEE 802.11n 20 MHz / 5500 MHz	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Harmonic	Test Date	June 5, 2020
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		

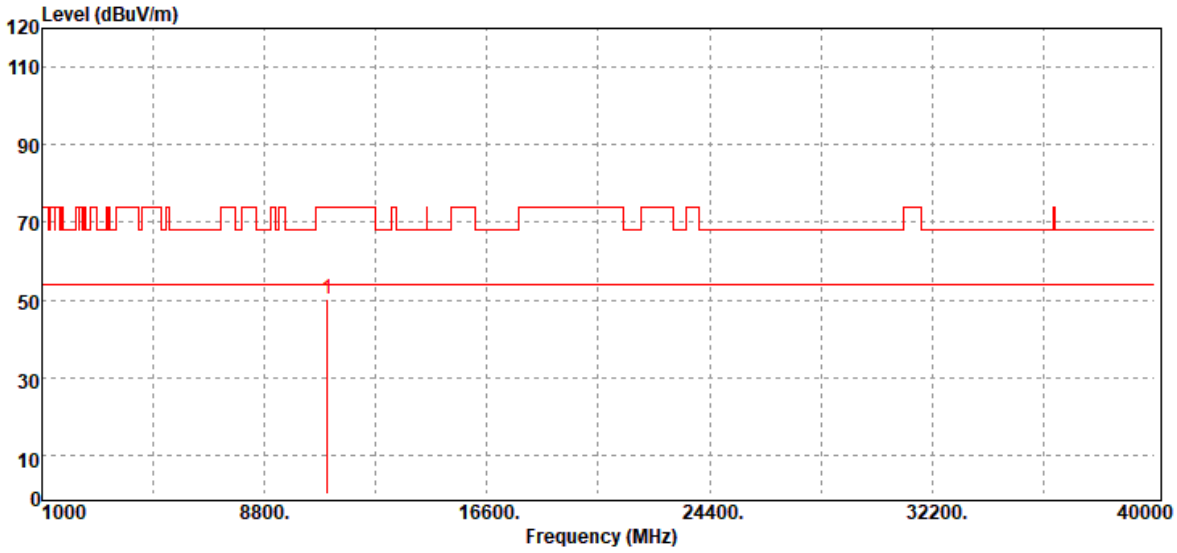


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11000.00	Peak	34.60	16.02	50.62	74.00	-23.38
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit*

Test Mode	IEEE 802.11n 20 MHz / 5500 MHz	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Harmonic	Test Date	June 5, 2020
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak		

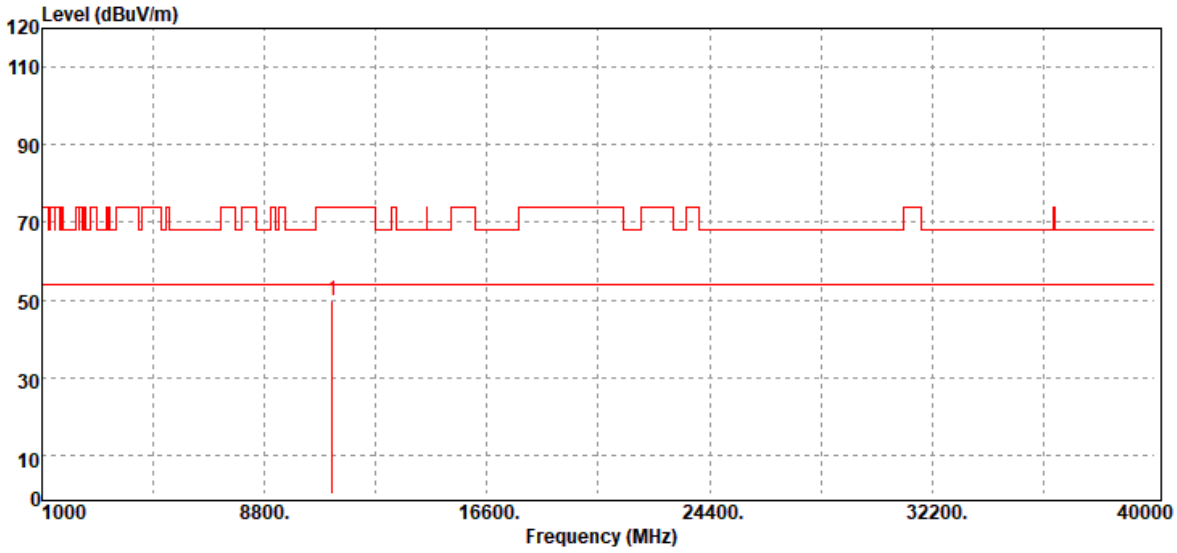


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11000.00	Peak	34.20	16.02	50.22	74.00	-23.78
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit*

Test Mode	IEEE 802.11n 20 MHz / 5580 MHz	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Harmonic	Test Date	June 5, 2020
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		

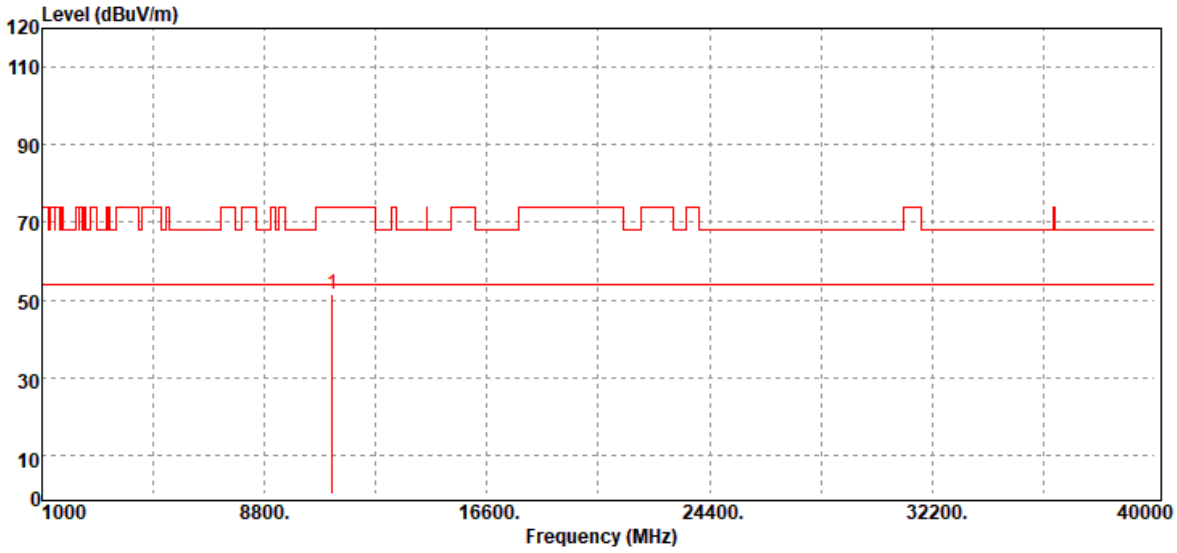


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11160.00	Peak	32.99	16.70	49.69	74.00	-24.31
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit*

Test Mode	IEEE 802.11n 20 MHz / 5580 MHz	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Harmonic	Test Date	June 5, 2020
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak		

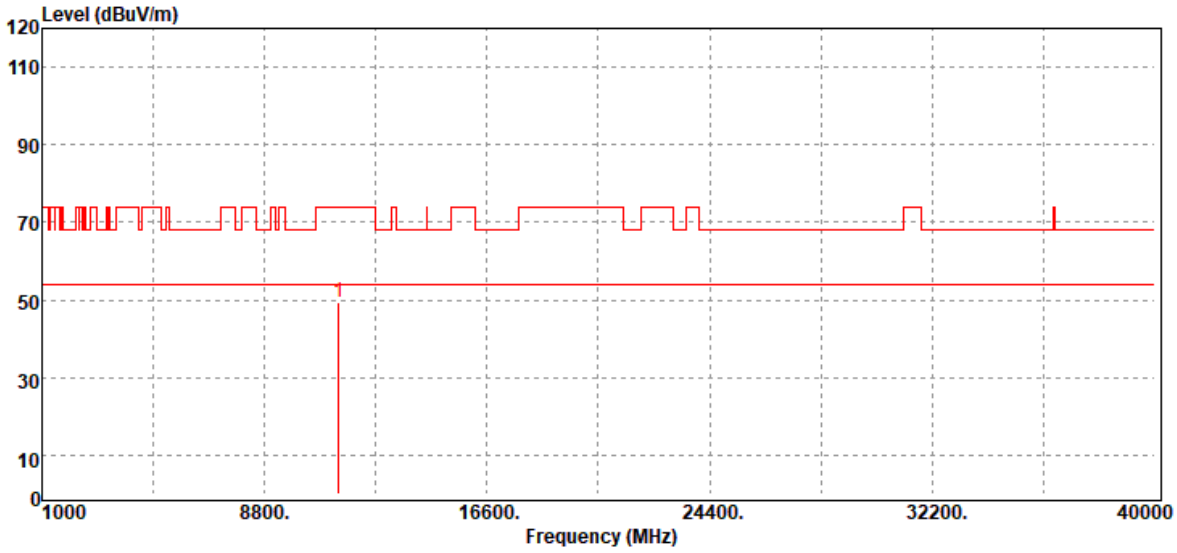


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11160.00	Peak	34.60	16.70	51.30	74.00	-22.70
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit*

Test Mode	IEEE 802.11n 20 MHz / 5700 MHz	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Harmonic	Test Date	June 5, 2020
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		

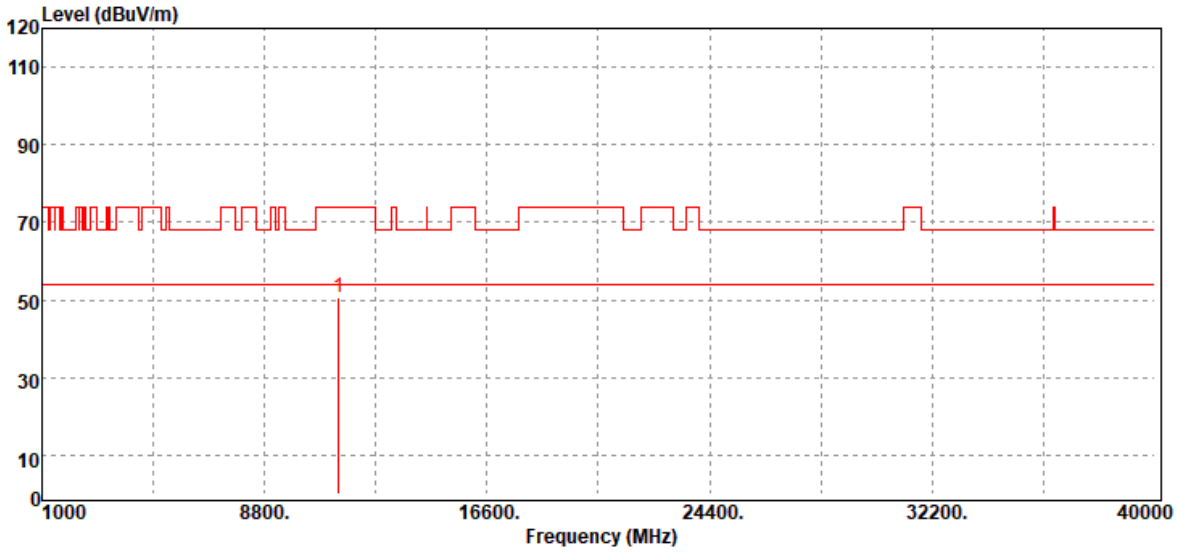


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11400.00	Peak	33.39	16.18	49.57	74.00	-24.43
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit*

Test Mode	IEEE 802.11n 20 MHz / 5700 MHz	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Harmonic	Test Date	June 5, 2020
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak		

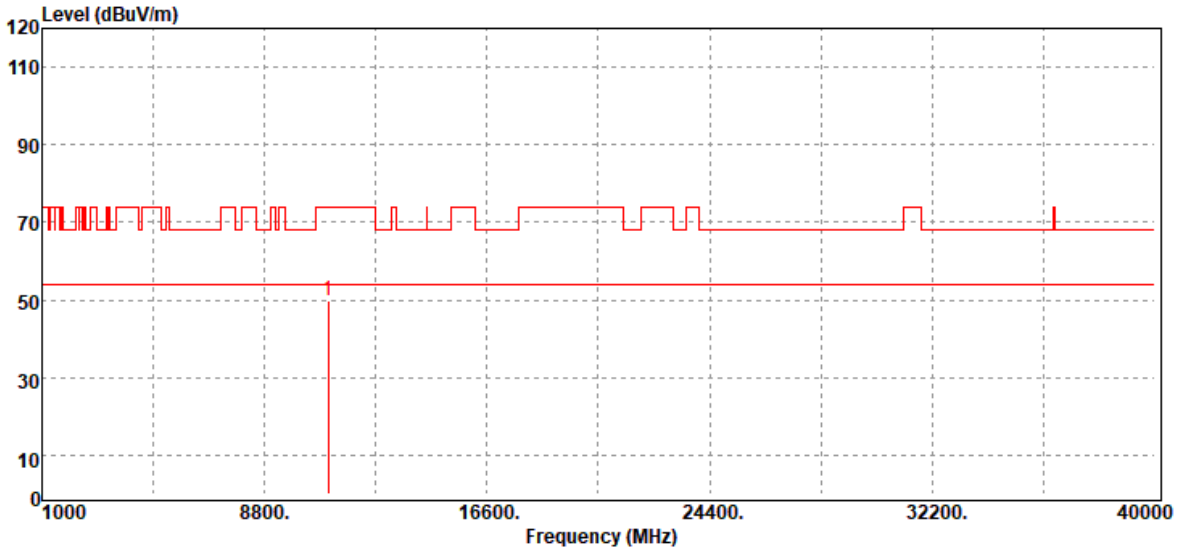


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11400.00	Peak	34.43	16.18	50.61	74.00	-23.39
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit*

Test Mode	IEEE 802.11n 40 MHz / 5510 MHz	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Harmonic	Test Date	June 5, 2020
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		

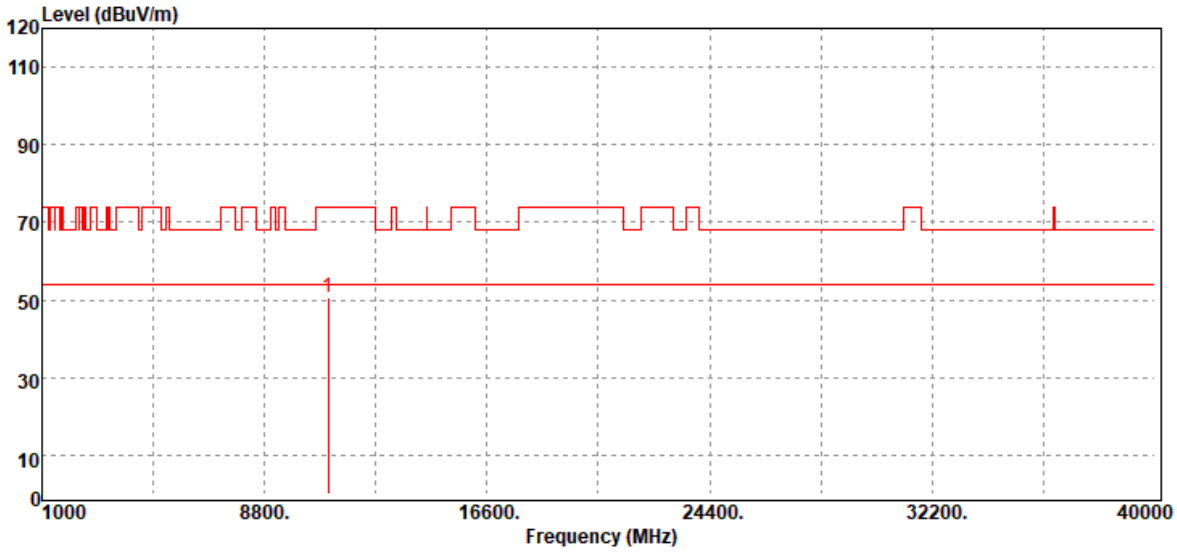


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11020.00	Peak	33.78	16.18	49.96	74.00	-24.04
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit*

Test Mode	IEEE 802.11n 40 MHz / 5510 MHz	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Harmonic	Test Date	June 5, 2020
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak		

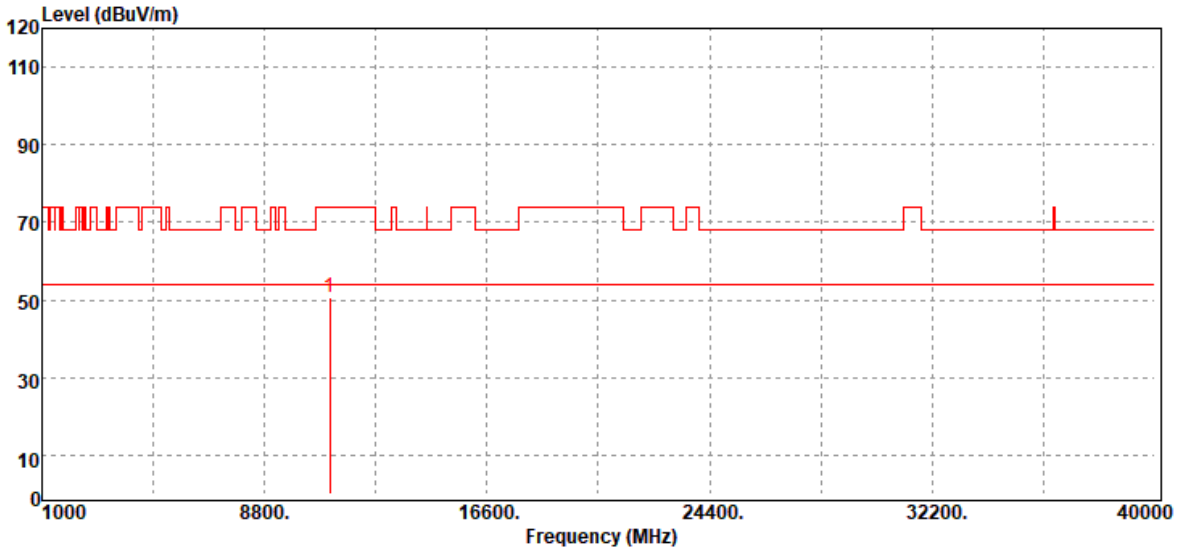


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11020.00	Peak	34.46	16.18	50.64	74.00	-23.36
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit*

Test Mode	IEEE 802.11n 40 MHz / 5550 MHz	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Harmonic	Test Date	June 5, 2020
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		

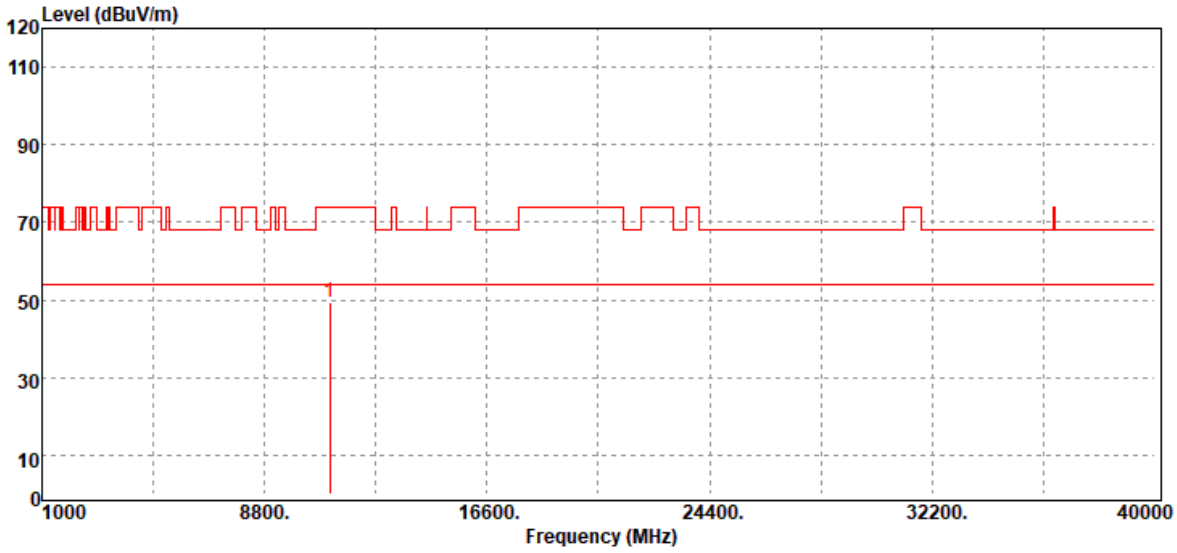


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11100.00	Peak	33.95	16.55	50.50	74.00	-23.50
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit*

Test Mode	IEEE 802.11n 40 MHz / 5550 MHz	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Harmonic	Test Date	June 5, 2020
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak		

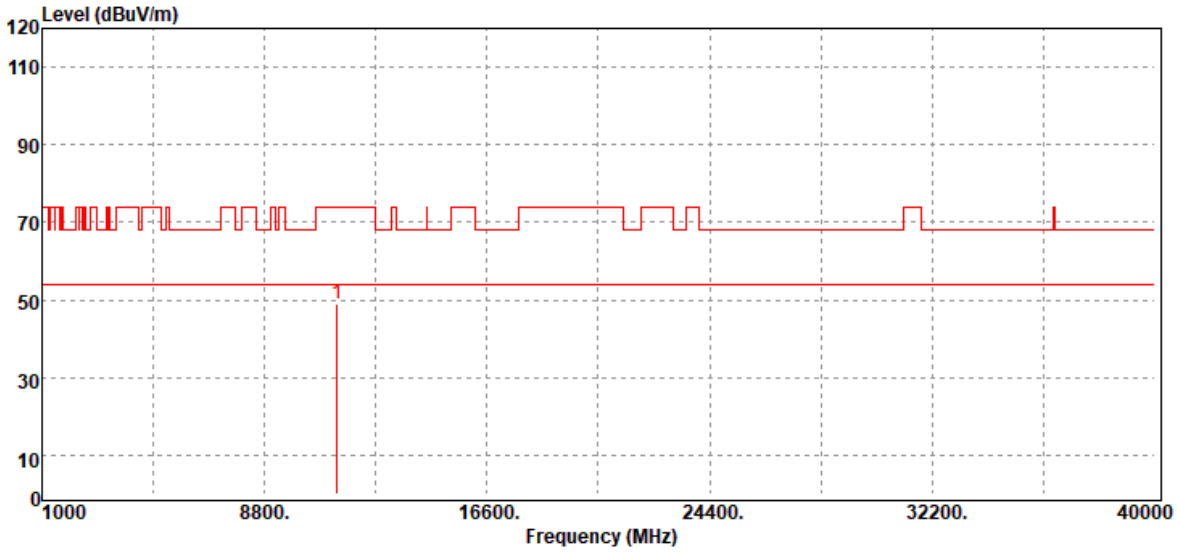


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11100.00	Peak	33.01	16.55	49.56	74.00	-24.44
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit*

Test Mode	IEEE 802.11n 40 MHz / 5670 MHz	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Harmonic	Test Date	June 5, 2020
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		

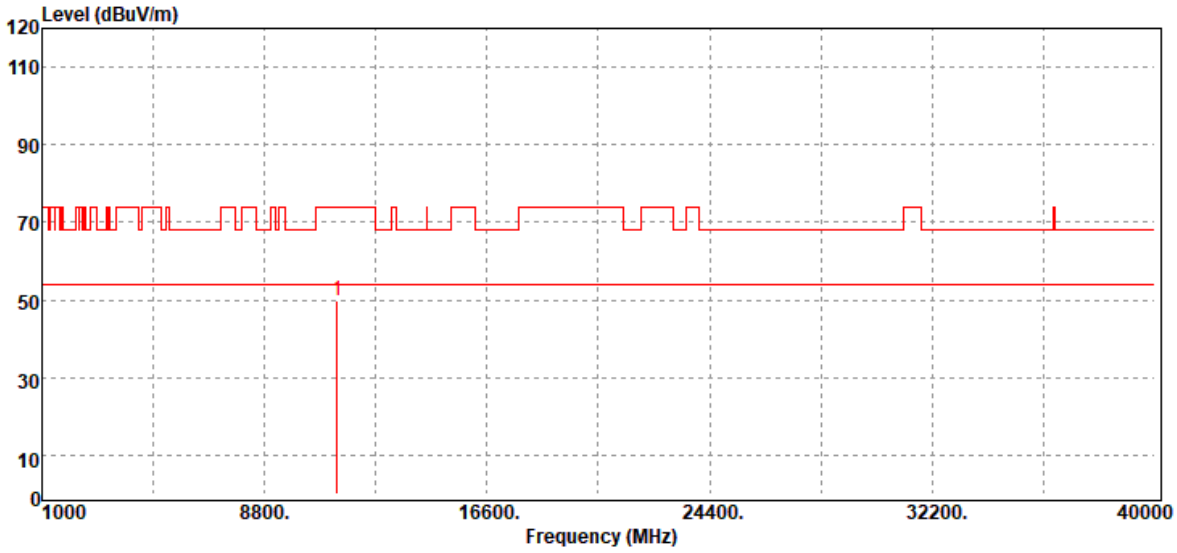


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11340.00	Peak	32.73	16.43	49.16	74.00	-24.84
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit*

Test Mode	IEEE 802.11n 40 MHz / 5670 MHz	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Harmonic	Test Date	June 5, 2020
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak		

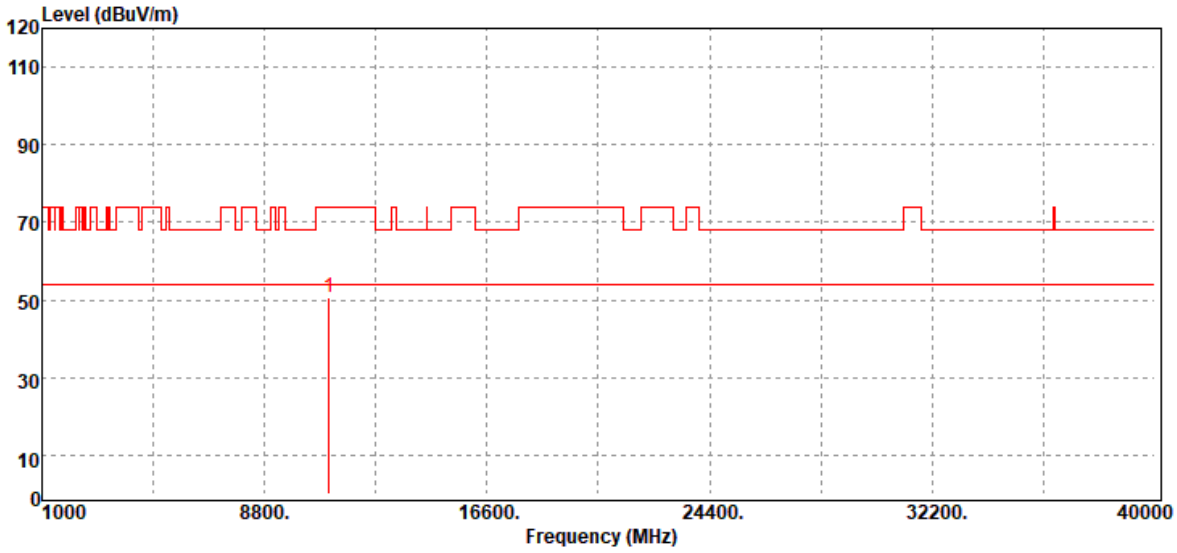


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11340.00	Peak	33.22	16.43	49.65	74.00	-24.35
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit*

Test Mode	IEEE 802.11ac VHT80 / 5530 MHZ	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Harmonic	Test Date	June 5, 2020
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		

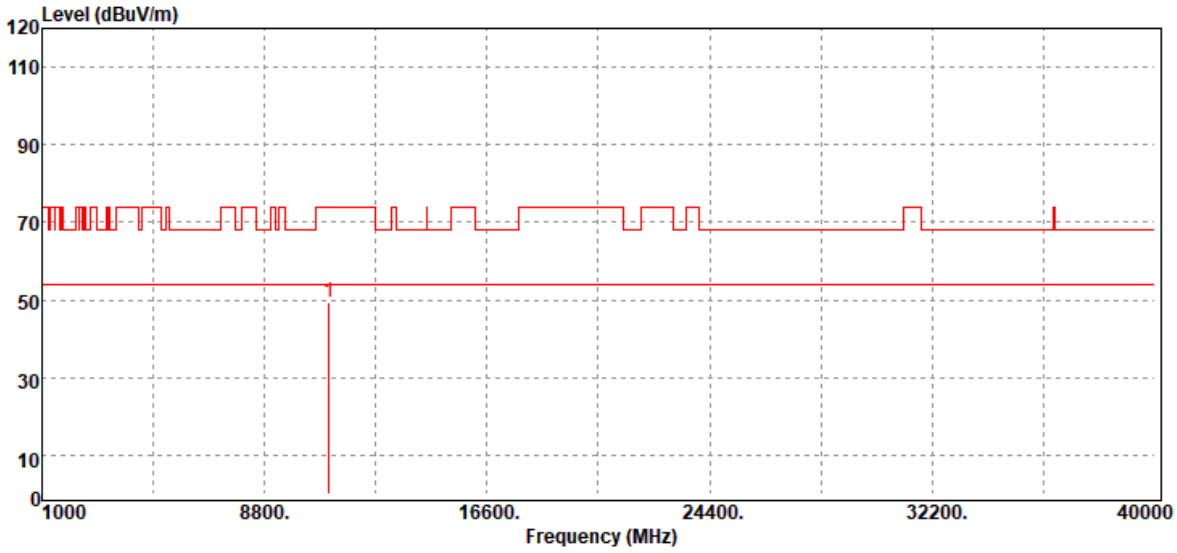


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11060.00	Peak	34.05	16.45	50.50	74.00	-23.50
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit*

Test Mode	IEEE 802.11ac VHT80 / 5530 MHZ	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Harmonic	Test Date	June 5, 2020
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak		



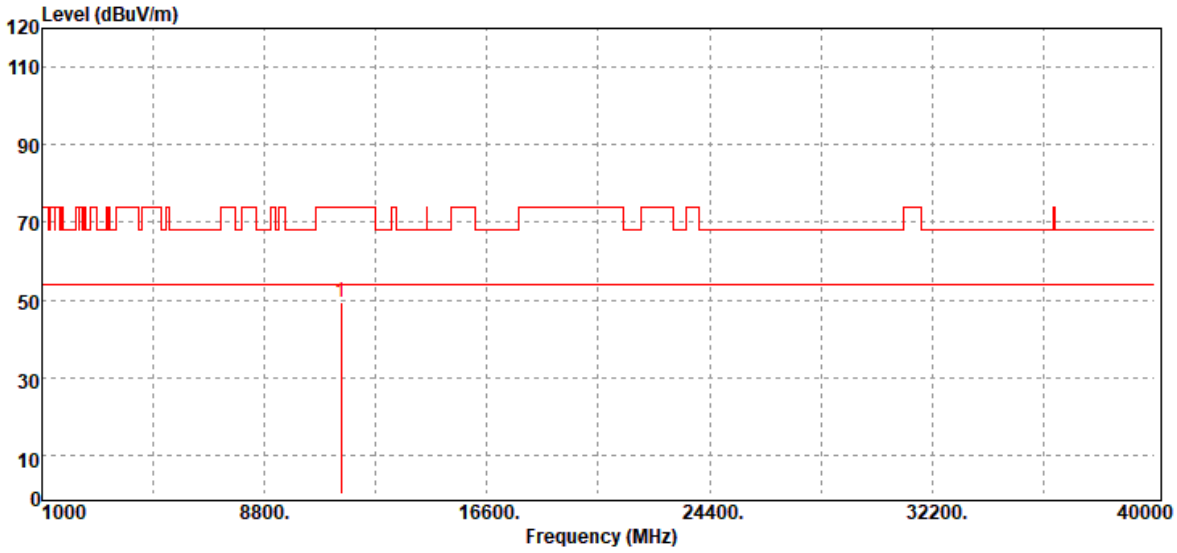
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11060.00	Peak	33.07	16.45	49.52	74.00	-24.48
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit*

Test Data for UNII-3

Test Mode	IEEE 802.11a / 5745 MHz	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Harmonic	Test Date	June 5, 2020
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		

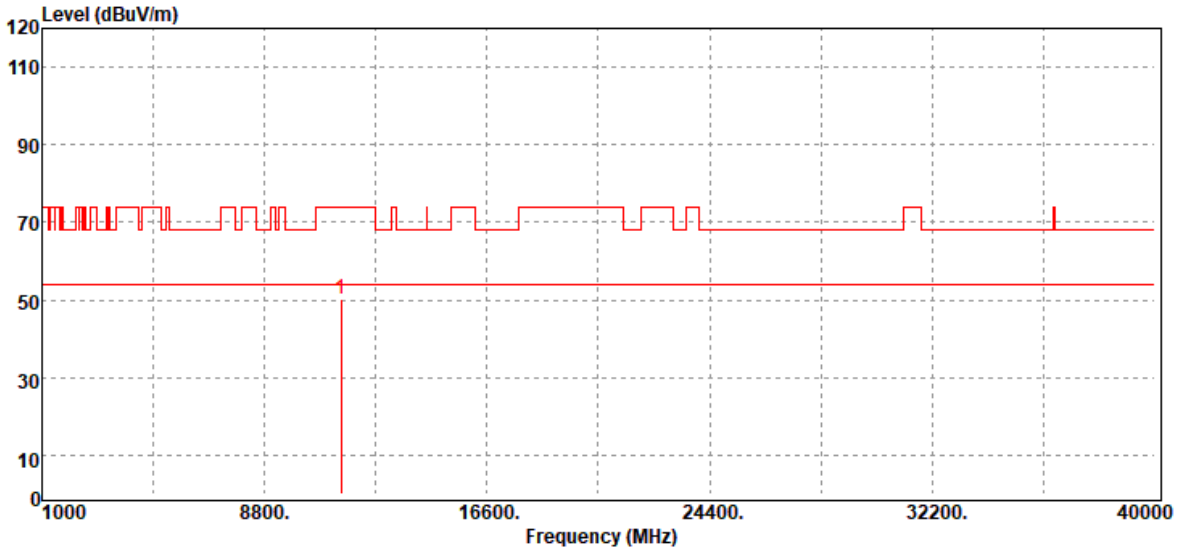


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11490.00	Peak	33.42	16.01	49.43	74.00	-24.57
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit*

Test Mode	IEEE 802.11a / 5745 MHz	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Harmonic	Test Date	June 5, 2020
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak		

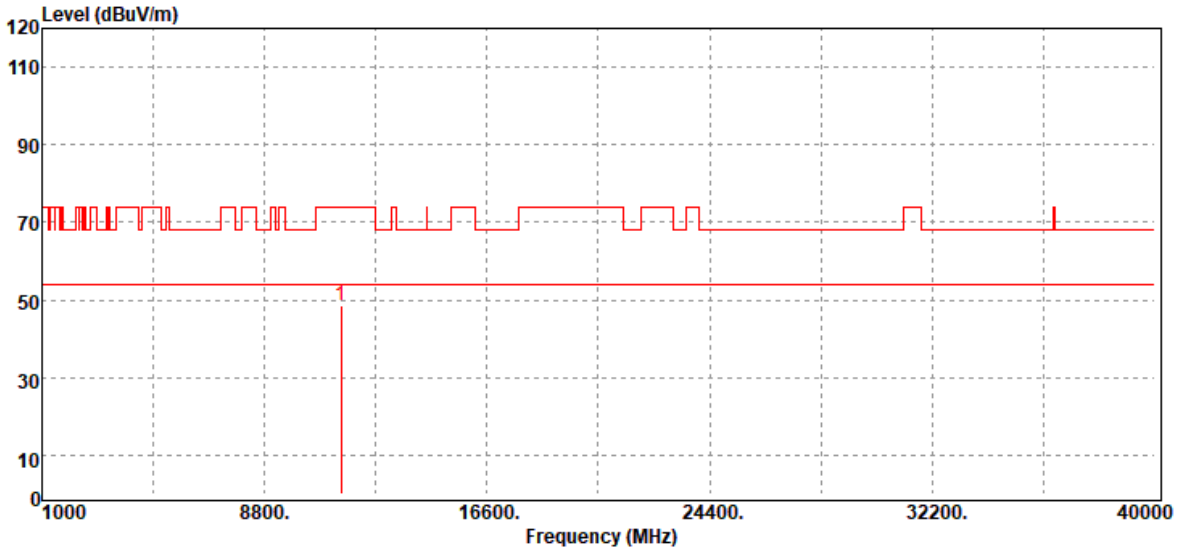


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11490.00	Peak	34.33	16.01	50.34	74.00	-23.66
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit*

Test Mode	IEEE 802.11a / 5785 MHz	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Harmonic	Test Date	June 5, 2020
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		

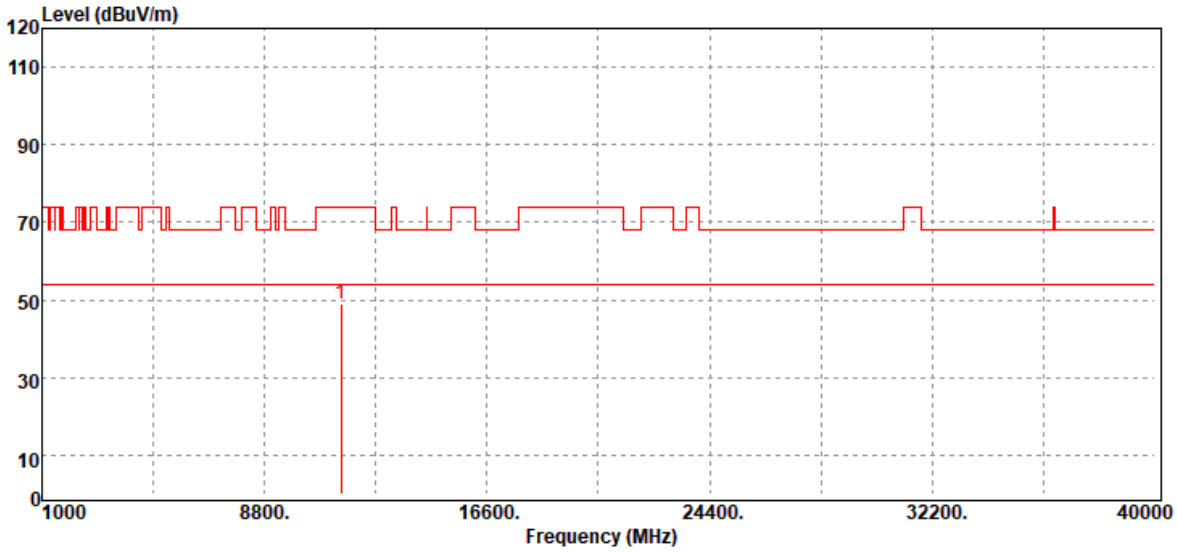


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11490.00	Peak	32.49	16.01	48.50	74.00	-25.50
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit*

Test Mode	IEEE 802.11a / 5785 MHz	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Harmonic	Test Date	June 5, 2020
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak		

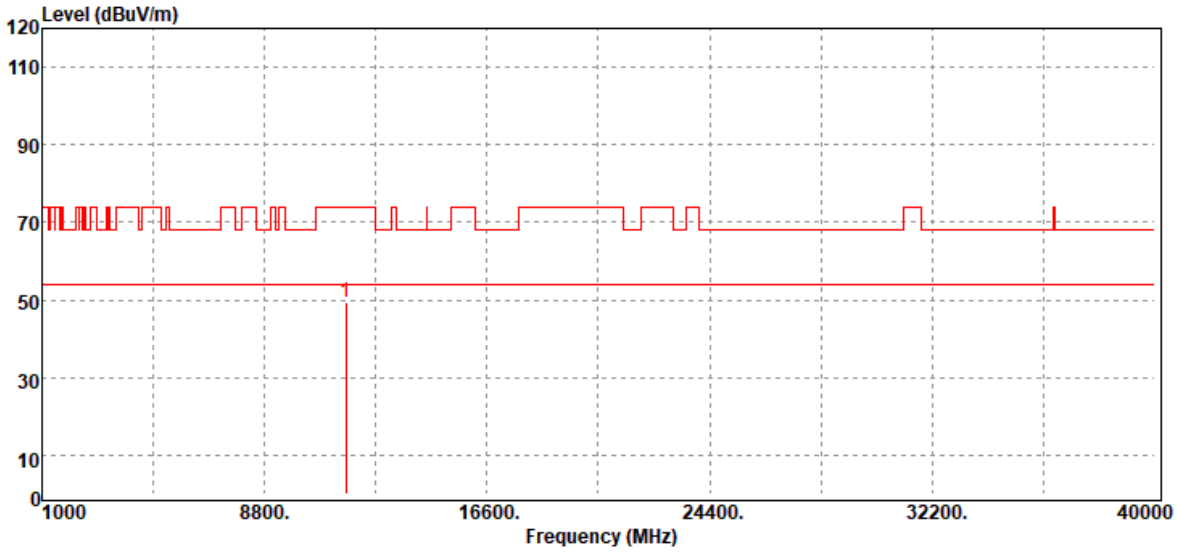


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11490.00	Peak	32.88	16.01	48.89	74.00	-25.11
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit*

Test Mode	IEEE 802.11a / 5825 MHz	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Harmonic	Test Date	June 5, 2020
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		

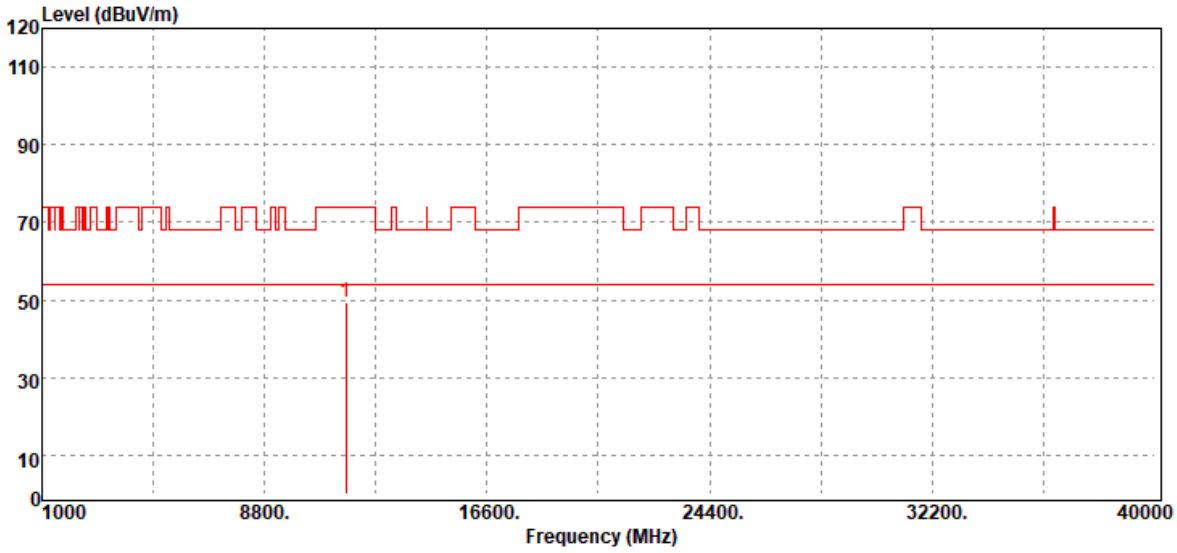


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11650.00	Peak	33.20	16.06	49.26	74.00	-24.74
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit*

Test Mode	IEEE 802.11a / 5825 MHz	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Harmonic	Test Date	June 5, 2020
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak		

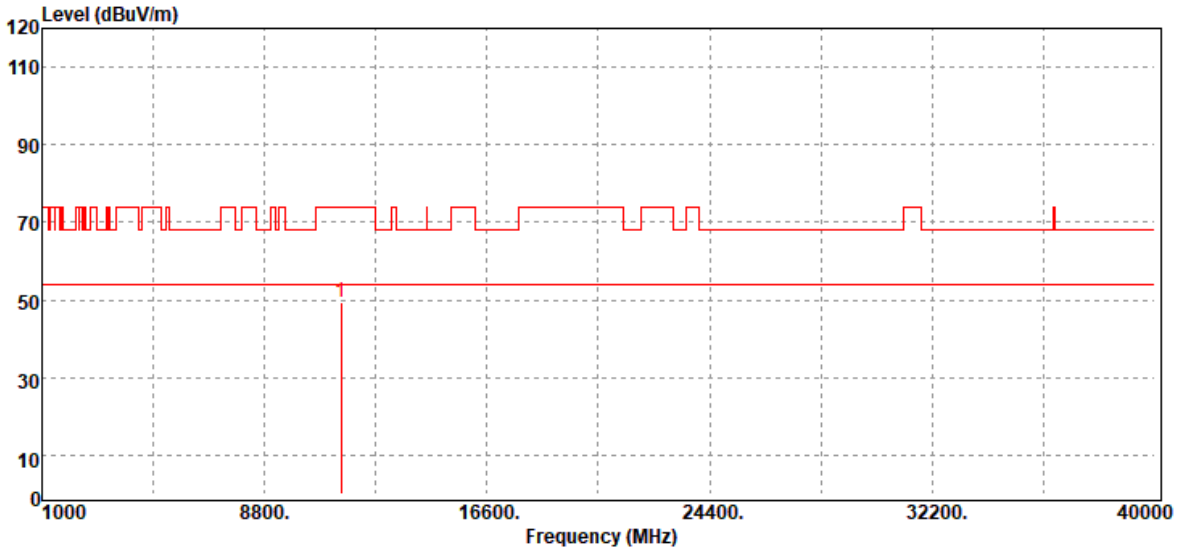


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11650.00	Peak	33.33	16.06	49.39	74.00	-24.61
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit*

Test Mode	IEEE 802.11n 20 MHz / 5745 MHz	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Harmonic	Test Date	June 5, 2020
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		

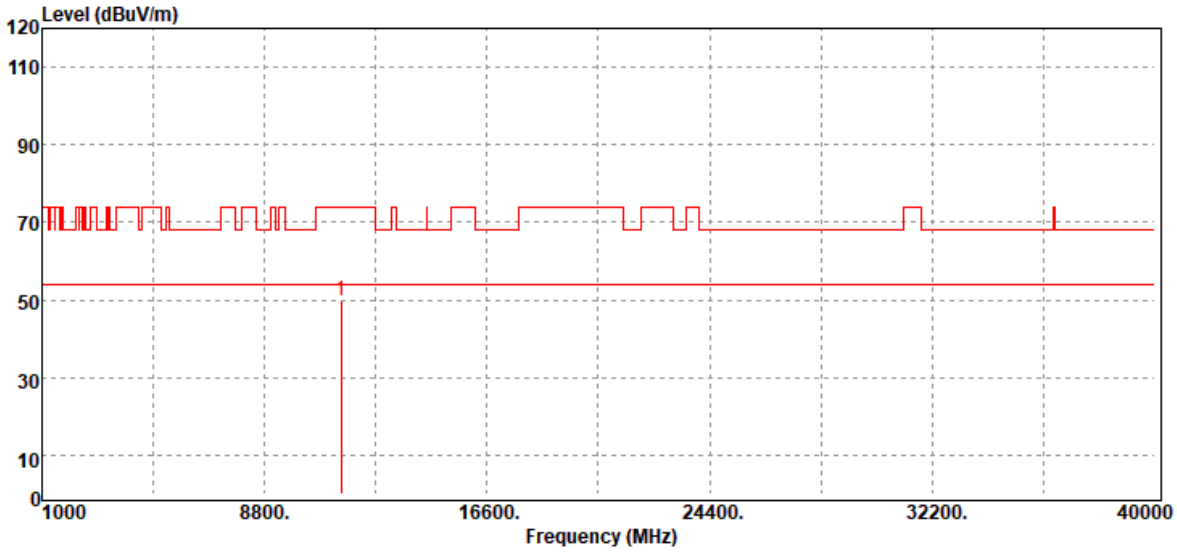


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11490.00	Peak	33.57	16.01	49.58	74.00	-24.42
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit*

Test Mode	IEEE 802.11n 20 MHz / 5745 MHz	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Harmonic	Test Date	June 5, 2020
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak		

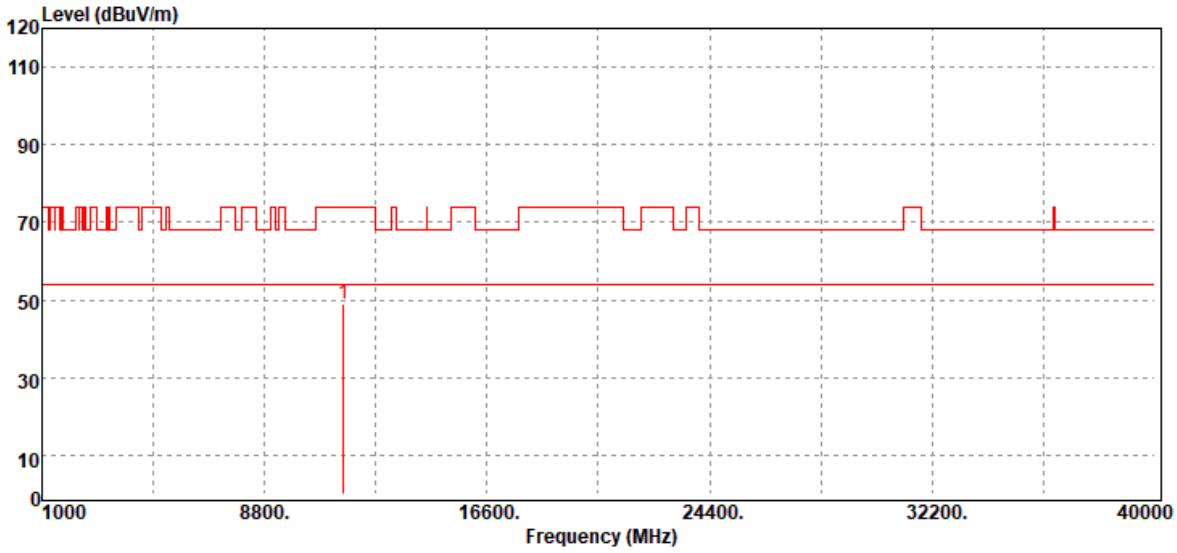


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11490.00	Peak	33.97	16.01	49.98	74.00	-24.02
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit*

Test Mode	IEEE 802.11n 20 MHz/ 5785 MHz	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Harmonic	Test Date	June 5, 2020
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		

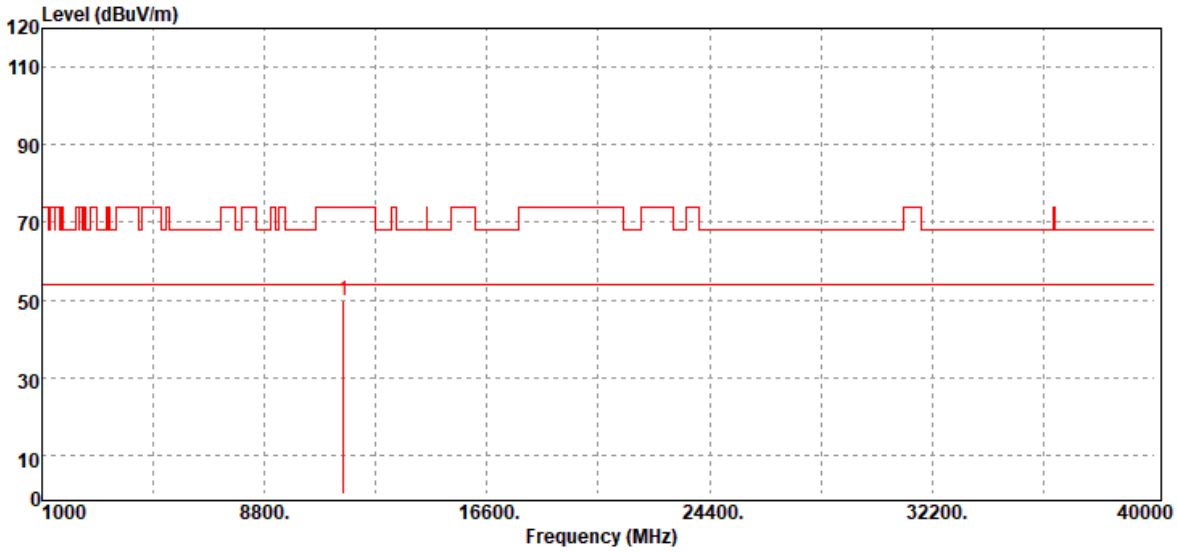


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11570.00	Peak	33.05	16.08	49.13	74.00	-24.87
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit*

Test Mode	IEEE 802.11n 20 MHz/ 5785 MHz	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Harmonic	Test Date	June 5, 2020
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak		

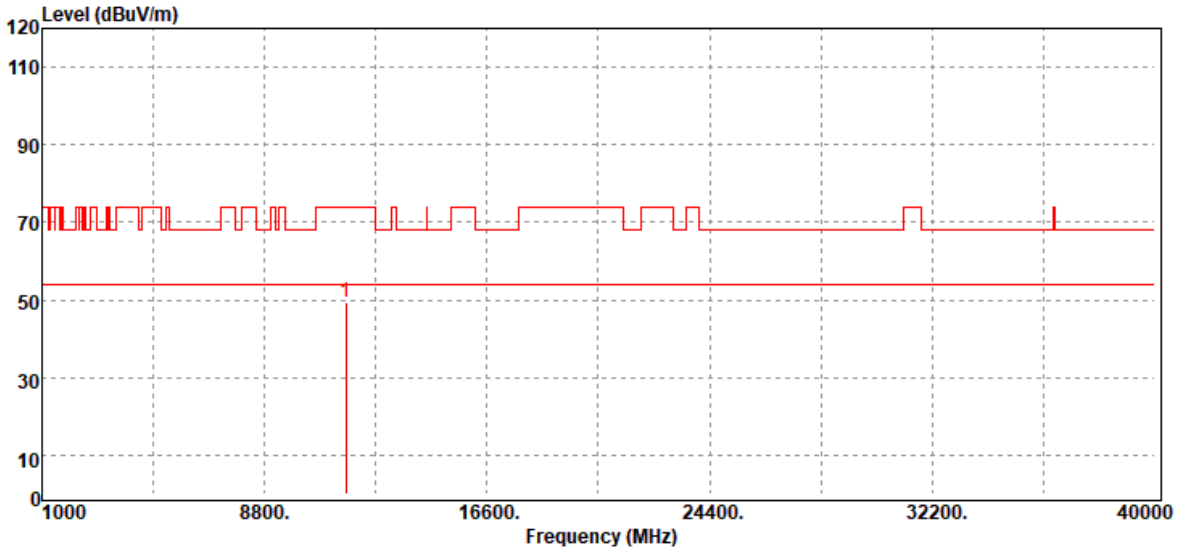


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11570.00	Peak	33.69	16.08	49.77	74.00	-24.23
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit*

Test Mode	IEEE 802.11n 20 MHz/ 5825 MHz	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Harmonic	Test Date	June 5, 2020
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		

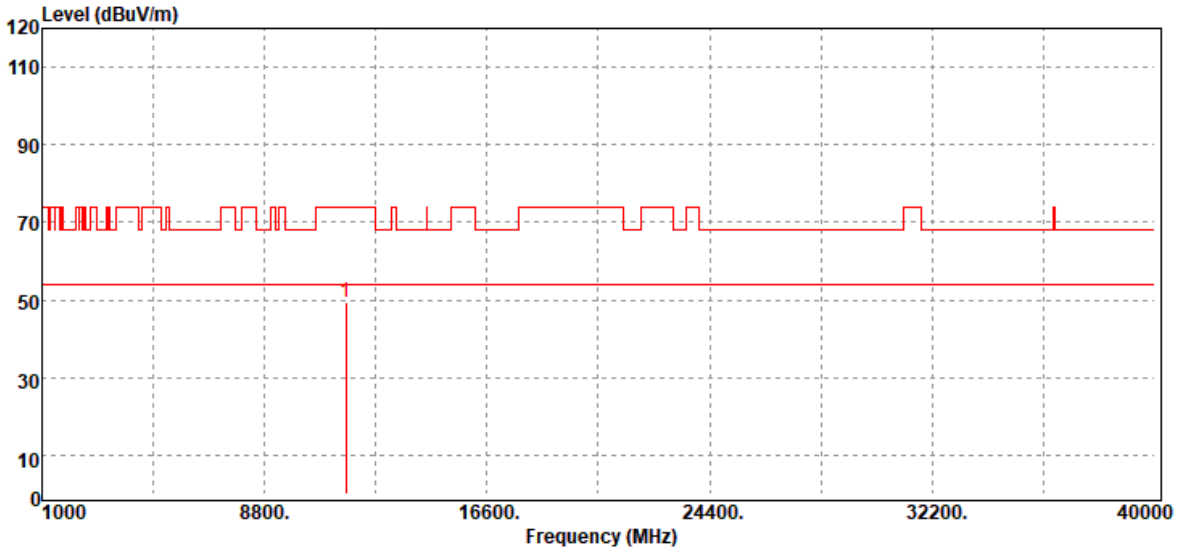


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11650.00	Peak	33.30	16.06	49.36	74.00	-24.64
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit*

Test Mode	IEEE 802.11n 20 MHz/ 5825 MHz	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Harmonic	Test Date	June 5, 2020
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak		

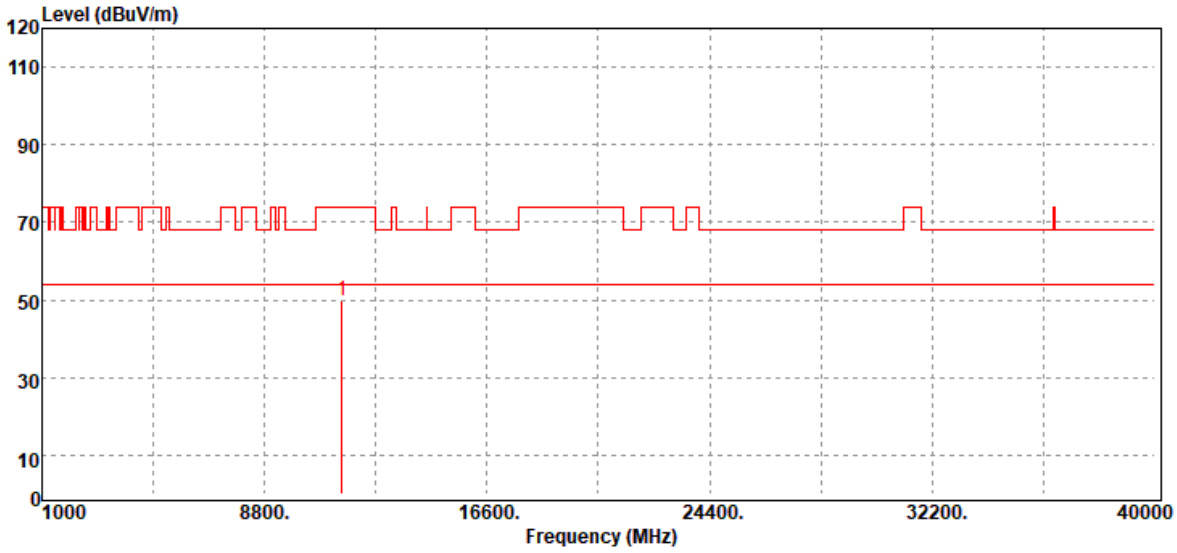


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11650.00	Peak	33.50	16.06	49.56	74.00	-24.44
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit*

Test Mode	IEEE 802.11n 40 MHz/ 5755 MHz	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Harmonic	Test Date	June 5, 2020
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		

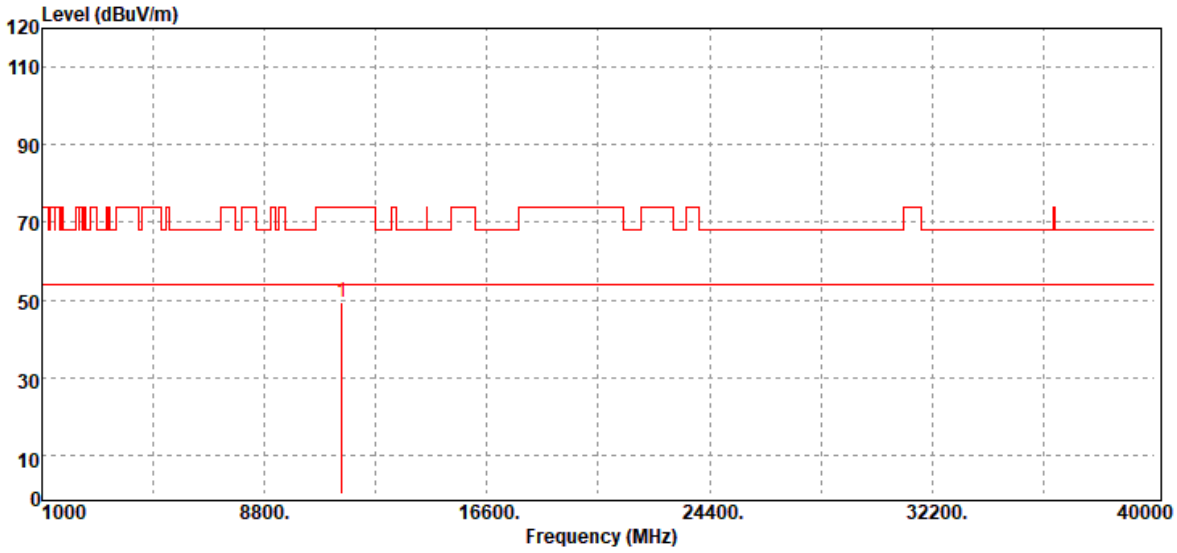


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11510.00	Peak	33.97	16.01	49.98	74.00	-24.02
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit*

Test Mode	IEEE 802.11n 40 MHz/ 5755 MHz	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Harmonic	Test Date	June 5, 2020
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak		

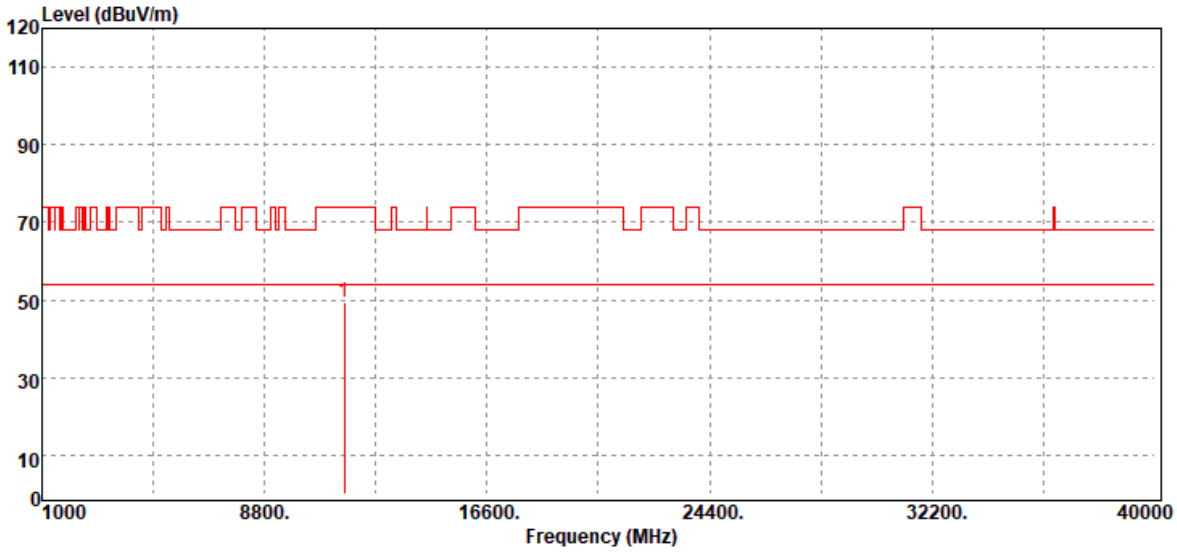


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11510.00	Peak	33.56	16.01	49.57	74.00	-24.43
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit*

Test Mode	IEEE 802.11n 40 MHz/ 5795 MHz	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Harmonic	Test Date	June 5, 2020
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		

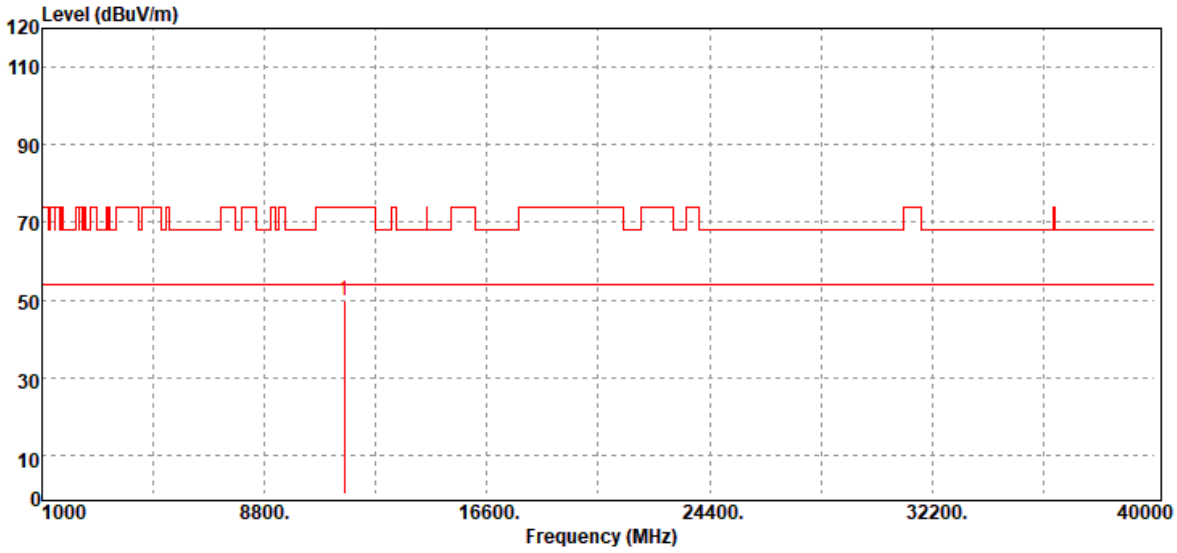


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11590.00	Peak	33.42	16.02	49.44	74.00	-24.56
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit*

Test Mode	IEEE 802.11n 40 MHz/ 5795 MHz	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Harmonic	Test Date	June 5, 2020
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak		

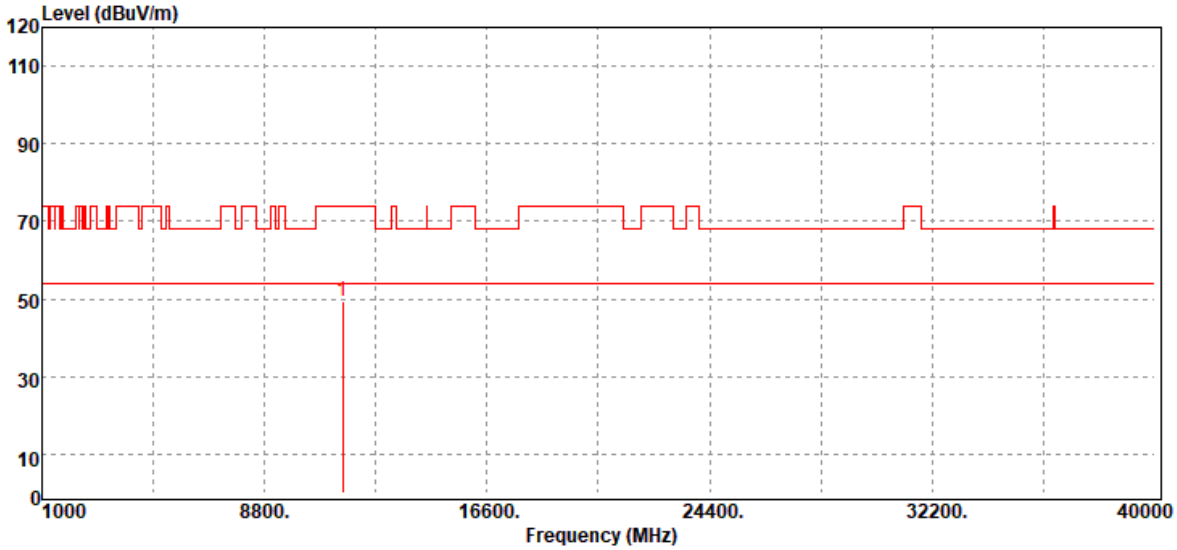


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11590.00	Peak	33.81	16.02	49.83	74.00	-24.17
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit*

Test Mode	IEEE 802.11ac VHT80 / 5775 MHZ	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Harmonic	Test Date	June 5, 2020
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		

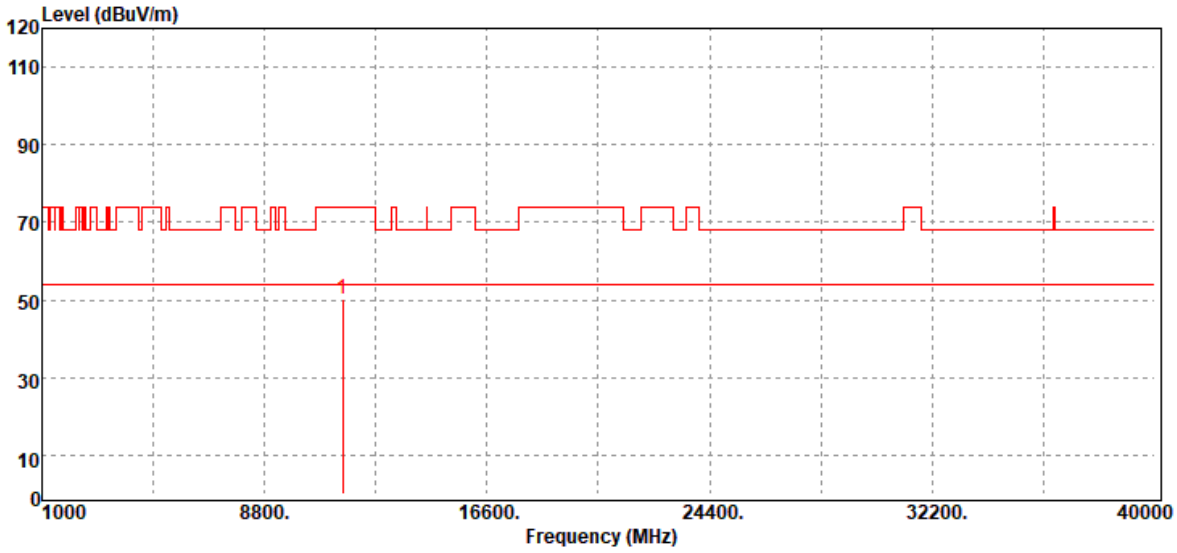


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11550.00	Peak	33.20	16.15	49.35	74.00	-24.65
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit*

Test Mode	IEEE 802.11ac VHT80 / 5775 MHZ	Temp/Hum	24.0(℃)/ 50%RH
Test Item	Harmonic	Test Date	June 5, 2020
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak		



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	Peak	34.08	16.15	50.23	74.00	-23.77
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit*

4.4 TEST DATA RE-USE SUMMARY

Introduction Section:

The application re-uses data collected on a similar device. The subject device of this application (Model: N653, FCC ID: P4Q-N653, IC: 2420C-N653) is electrically identical to the reference device (Model: N635, FCC ID: P4Q-N635A, IC: 2420C-N635A) for the portions of the circuitry corresponding to the data being re-used, as treated by KDB Publication 484596 D01.

Differences Brief Description:

The WLAN, WWAN, BT and RFID hardware of this device are identical to the implementation in

FCC ID: P4Q-N653.

IC: 2420C-N653

The Product Equality Declaration document includes detailed information about the changes between the devices. The data from that application has been verified through appropriate spot checks to demonstrate compliance for this device as shown in the summary table below.

Spot Check Verification Result Summary

Equipment Class	Reference FCC ID / IC No.	Folder Test	Report Title/ Section
NII-WLAN	P4Q-N635A / 2420C-N635A	T191105W01-RP4	All Section *(Except for AC Conducted Emission, Output Power Measurement, Radiation Band Edge, Radiation Spurious Emission)*

Summery of the spot check for Unlicensed bands and Licensed bands

In order to confirm hardware similarity of the subject device with the reference device, we used same setting power to radiated emission measurement were performed on the subject device for the Band edge and Harmonic, the test result were similar with FCC ID: P4Q-N635A / IC: 2420C-N635A.

WLAN

Report	Test Item	CH.	Measured Frequency (MHz)	P4Q-N635A / 2420C-N635A		P4Q-N653 / 2420C-N653		Gap (dB)	
				Peak	Average	Peak	Average	Peak	Average
NII (WLAN)	Band edge	Low	5150	60.32	50.47	58.16	48.22	2.16	2.25
	RSE	High	10480	50.15	-	50.29	-	-0.14	-

--End of Test Report--