

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

CLASS II & IV PC REPORT



Applicant: Acer Incorporated
8F., No. 88, Sec. 1, Xintai 5th Rd., Xizhi, New Taipei City
22181, Taiwan (R.O.C)

Product Name: 2x2 802.11A/B/G/N/AC WiFi + Bluetooth Module

Brand Name: acer

Model No.: QCNFA324

Model Difference: N/A

Report Number: E2/2021/60037

FCC ID HLZ-QCNFA324

IC: 1754F-QCNFA324

Issue Date: Jul. 26, 2021

Date of Test: Jun. 15, 2021 ~ Jul. 21, 2021

Date of EUT Received: Jun. 11, 2021

Approved By

Arno Hsieh

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10:2013 and the energy emitted by the sample EUT comply with FCC rule part §15.407, ISED RSS-247.

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

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Revision History

Report Number	Revision	Description	Issue Date	Revised By
E2/2021/60037	Rev.00	Original.	Jul. 26, 2021	Yi-Shan Tsai

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1 GENERAL INFORMATION

1.1 Product Description

Product Name:	2x2 802.11A/B/G/N/AC WiFi + Bluetooth Module
Brand Name:	acer
Model No.:	QCNFA324
Model Difference:	N/A
Hardware Version:	N/A
Firmware Version:	N/A
EUT Series No.:	N8AWGWW00111180F6AF (Conducted) N8AWGWW00111180F6AF7600 (Radiated)
Power Supply:	11.25Vdc from Rechargeable Lithium Ion Battery Pack 5 / 9 / 12 / 15 / 20Vdc from AC/DC Adapter

1.2 Modulation & Data Rate

Modulation type	64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 802.11ac only
Transistion Rate	802.11 a: 6.5 – 54 Mbps 802.11 n_20MHz: 6.5 – 144.4Mbps 802.11 n_40MHz: 13.5 – 300.0Mbps 802.11 ac_20MHz: 6.5 – 173.4Mbps 802.11 ac_40MHz: 13.5 – 400.0Mbps 802.11 ac_80MHz: 29.3 – 866.6Mbps

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1.3 Antenna Designation

Antenna Type	Main / Aux	Freq. (MHz)	Peak Antenna Gain (dBi)	Worst Antenna Gain
PIFA	Main	5150~5250	0.50	V
		5250~5350	0.99	V
		5470~5725	0.31	V
		5725~5850	-0.91	
	Aux	5150~5250	0.10	
		5250~5350	0.27	
		5470~5725	-0.66	
		5725~5850	1.12	V

Note:

1. Pre-scanned was done on the above antennas, measurements were demonstrated by using the antenna with the highest gain as the worst case scenarios.
2. Antenna information is provided by the applicant.

Freq.(MHz)	Directional Gain (dBi)
5150~5250	3.31
5250~5350	3.65
5470~5725	2.85
5725~5850	3.17

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1.4 FCC

Wi-Fi	Frequency Range	Channels	Rated Power(Avg) (dBm) (Worst Case)	Modulation Technology
a n_HT ac_VHT 20M	5180~5240	4	19.02 dBm	OFDM
	5260~5320	4	18.69 dBm	OFDM
	5500~5720	12	18.21 dBm	OFDM
	5745~5825	5	18.26 dBm	OFDM
n_HT ac_VHT 40M	5190~5230	2	16.70 dBm	OFDM
	5270~5310	2	16.58 dBm	OFDM
	5510~5710	6	16.95 dBm	OFDM
	5755~5795	2	16.14 dBm	OFDM
ac_VHT 80M	5210	1	12.68 dBm	OFDM
	5290	1	12.24 dBm	OFDM
	5530~5690	3	16.49 dBm	OFDM
	5775	1	13.71 dBm	OFDM

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1.5 ISED (Slave)

Wi-Fi	Frequency Range	Channels	EIRP/Avg	Rated Power(EIRP/Avg) (dBm) (Worst Case)	Modulation Technology
a n_HT ac_VHT 20M	5180~5240	4	EIRP	22.33 dBm	OFDM
	5260~5320	4	Avg	18.69 dBm	OFDM
	5500~5700	11	Avg	18.21 dBm	OFDM
	5720 (U-NII 2C)	1	Avg	14.08 dBm	OFDM
	5720 (U-NII 3)	1	Avg	7.89 dBm	OFDM
	5745-5825	5	Avg	18.26 dBm	OFDM
n_HT ac_VHT 40M	5190~5230	2	EIRP	20.01 dBm	OFDM
	5270~5310	2	Avg	16.58 dBm	OFDM
	5510~5670	5	Avg	16.95 dBm	OFDM
	5710 (U-NII 2C)	1	Avg	13.39 dBm	OFDM
	5710 (U-NII 3)	1	Avg	2.80 dBm	OFDM
	5755-5795	2	Avg	16.14 dBm	OFDM
ac_VHT 80M	5290	1	Avg	12.24 dBm	OFDM
	5530~5610	2	Avg	16.49 dBm	OFDM
	5690 (U-NII 2C)	1	Avg	12.14 dBm	OFDM
	5690 (U-NII 3)	1	Avg	-2.68 dBm	OFDM
	5775	1	Avg	13.71 dBm	OFDM

Note: As per guidance in presentation 2018-04-10-03 IC Certification updates of April 2018 TCB workshop, Client (Slave mode) devices without active scanning function, but with the capability of operating in 5600-5650 MHz solely under the control of a certified master device meeting the requirement of RSS-247, are allowed in Canada.

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1.6 Test Methodology of Applied Standards

FCC Part 15, Subpart E §15.407

FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

RSS-247 issue 2 Feb. 2017

RSS-Gen Issue 5

ANSI C63.10:2013

1.7 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designation number	IC CAB identifier
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan.	SAC 1 SAC 3 Conduction 1 Conducted 1 Conducted 2 Conducted 3 Conducted 4 Conducted 5 Conducted 6 Conducted 7 Conducted 8 Conducted 9 Conducted 10	TW0027	
	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	Conduction A SAC C SAC D SAC E Conducted A Conducted B Conducted C Conducted D Conducted E Conducted F Conducted G Conducted H Conducted I Conducted J Conducted TS8997	TW3702 TW0028	

Note: Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address.

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1.8 Special Accessories

There are no special accessories used while test was conducted.

1.9 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

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

2.2 EUT Exercise

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

2.3 Test Procedure

2.3.1 Conducted Test (RF)

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

2.3.2 Radiated Emissions

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

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2.4 Measurement Results Explanation Example

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

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

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

2.4.2 For all conducted test items:

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

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2.5 Configuration of Tested System

Fig. 2-1 Radiated Emission



Fig. 2-2 Conducted (Antenna Port) Configuration



Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1.	WLAN Test Software	N/A	N/A	N/A	N/A	N/A
2.	Adapter	Chicony	A18-045N1A	N/A	N/A	N/A
3.	Notebook	Lenovo	L420	S0011721	N/A	N/A

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3 SUMMARY OF TEST RESULT

FCC Rules	IC Rules	Description Of Test	Result
§15.407(a)	RSS-247 §6.2.1~ 4 (1)	Maximum Conducted Output Power	Compliant
§15.205 §15.209 §15.407(b)	RSS-247 §6.2.1~ 4 (2)	Undesirable Radiated Emissions	Compliant

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4 DESCRIPTION OF TEST MODES

4.1 802.11a/ac operated in U-NII Bands

Operated band in 5150 MHz ~5250 MHz:

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

40 M	
CH	Freq (MHz)
38	5190
46	5230

80 M	
CH	Freq (MHz)
42	5210

Operated band in 5250 MHz ~5350 MHz:

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

40 M	
CH	Freq (MHz)
54	5270
62	5310

80 M	
CH	Freq (MHz)
58	5290

Operated band in 5470 MHz ~5725 MHz:

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

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

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

Operated band in 5745 MHz ~5850 MHz:

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

40 M	
CH	Freq (MHz)
151	5755
159	5795

80 M	
CH	Freq (MHz)
155	5775

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4.2 The Worst Test Modes and Channel Details

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

The given UE is pre-scanned among below modes.

Modulation	Transmission Chain				Single Transmission Spatial	Multiple Transmission Spatial
<input checked="" type="checkbox"/> 802.11 a	<input checked="" type="checkbox"/> Ch0	<input checked="" type="checkbox"/> Ch1	<input type="checkbox"/> Ch2	<input type="checkbox"/> Ch3	<input type="checkbox"/> 1TX	<input checked="" type="checkbox"/> 2TX
<input checked="" type="checkbox"/> 802.11 ac	<input checked="" type="checkbox"/> Ch0	<input checked="" type="checkbox"/> Ch1	<input type="checkbox"/> Ch2	<input type="checkbox"/> Ch3	<input type="checkbox"/> SISO	<input checked="" type="checkbox"/> MIMO

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

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4.2.1 RADIATED EMISSION TEST:

RADIATED EMISSION TEST (ABOVE 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	40	OFDM	6	2TX
	5260~5320	52 to 64	60			
	5500~5700	100 to 144	120			
	5745~5825	149 to 165	157			

4.2.2 ANTENNA PORT CONDUCTED MEASUREMENT:

CONDUCTED TEST						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	2TX
	5260~5320	52 to 64	52,60,64			
	5500~5720	100 to 144	100,116,140,144			
	5745~5825	149 to 165	149,157,165			
802.11ac_VHT20	5180~5240	36 to 48	36,44,48	MCS8	MIMO	
	5260~5320	52 to 64	52,60,64			
	5500~5720	100 to 140	100,116,140,144			
	5745~5825	149 to 165	149,157,165			
802.11ac_VHT40	5190~5230	38 to 46	38,46	MCS8	MIMO	
	5270~5310	54 to 62	54,62			
	5510~5710	102 to 142	102,110,134,142			
	5755~5795	151 to 159	151,159			
802.11ac_VHT80	5210	42	42	MCS0	MIMO	
	5290	58	58			
	5530~5690	106 to 138	106,122,138			
	5775	155	155			

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5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty		
AC Power Line Conducted Emission	+/-	2.34	dB
Emission Bandwidth	+/-	1.53	Hz
The Maximum Output Power Measurement	+/-	1	dB
Peak Power Spectral Density Measurement	+/-	1.53	dB
Frequency Stability	+/-	1.53	Hz
Temperature	+/-	0.4	°C
Humidity	+/-	3.5	%
DC / AC Power Source	+/-	1	%

Radiated Spurious Emission Measurement Uncertainty			
Polarization: Vertical	+/-	2.64	dB
	+/-	4.93	dB
	+/-	4.81	dB
	+/-	4.52	dB
Polarization: Horizontal	+/-	2.64	dB
	+/-	4.45	dB
	+/-	4.81	dB
	+/-	4.52	dB

Note:

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

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6 MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

6.1 Standard Applicable

FCC

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

ISED

OPERATION FREQUENCY BAND	LIMIT
5150~5250 MHz	EIRP shall not exceed 200 mW or $10 + 10 \log_{10}B$, dBm
5250~5350 MHz	Conducted output power shall not exceed 250 mW or $11 + 10 \log_{10}B$ EIRP shall not exceed 1.0 W or $17 + 10 \log_{10}B$, dBm
5470-5600 MHz and 5650-5725 MHz	Conducted output power shall not exceed 250 mW or $11 + 10 \log_{10}B$ EIRP shall not exceed 1.0 W or $17 + 10 \log_{10}B$, dBm
5725~5850 MHz	Conducted output power shall not exceed 1 W
For equipment operating in the band 5725-5850 MHz, If transmitting antennas of directional gain greater than 6 dBi are used, the Maximum transmit power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.	

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Note:

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

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

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

where

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

NSS = the number of independent spatial streams of data;

NANT = the total number of antennas

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

G_k is the gain in dBi of the kth antenna.

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

6.2 Measurement Procedure

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

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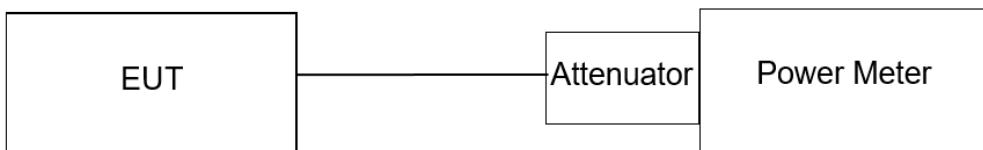
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6.3 Measurement Equipment Used

Conducted Emission Test Site: Conducted G					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power Meter	Anritsu	ML2496A	1326001	08/05/2020	08/04/2021
Power Sensor	Anritsu	MA2411B	1315048	08/05/2020	08/04/2021
Power Sensor	Anritsu	MA2411B	1315049	08/05/2020	08/04/2021
Attenuator	Marvelous	MVE2213-10	RF12	11/19/2020	11/18/2021
Attenuator	Marvelous	WATT-218FS-10	RF18	11/19/2020	11/18/2021

6.4 Test Set-up



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6.5 Measurement Result

6.5.1 Conducted output power (FCC)

802.11a_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	6	14.5	13.98	25.00	30	PASS
44	5220	6	15.5	15.02	31.76	30	PASS
48	5240	6	15.5	15.30	33.87	30	PASS
52	5260	6	15.5	15.17	32.87	23.98	PASS
60	5300	6	16	15.35	34.27	23.98	PASS
64	5320	6	14	13.63	23.06	23.98	PASS
100	5500	6	12.5	12.36	17.21	23.98	PASS
116	5580	6	14.5	14.94	31.18	23.98	PASS
140	5700	6	12.5	13.24	21.08	23.98	PASS
144	5720(U-NII 2C)	6	10.5	9.55	9.02	22.20	PASS
144	5720 (U-NII 3)	6	10.5	3.37	2.17	30	PASS
149	5745	6	12.5	13.72	23.54	30	PASS
157	5785	6	14	14.97	31.40	30	PASS
165	5825	6	14	14.99	31.54	30	PASS

802.11a_Ch1

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	6	13	14.61	28.90	30	PASS
44	5220	6	15.5	16.49	44.55	30	PASS
48	5240	6	15.5	16.65	46.22	30	PASS
52	5260	6	15	16.18	41.48	23.98	PASS
60	5300	6	14.5	15.80	38.01	23.98	PASS
64	5320	6	12.5	13.69	23.38	23.98	PASS
100	5500	6	12	13.03	20.08	23.98	PASS
116	5580	6	14	15.43	34.90	23.98	PASS
140	5700	6	12	13.30	21.37	23.98	PASS
144	5720(U-NII 2C)	6	10	10.07	10.15	22.19	PASS
144	5720 (U-NII 3)	6	10	3.86	2.43	30	PASS
149	5745	6	12.5	13.74	23.65	30	PASS
157	5785	6	14.5	15.45	35.06	30	PASS
165	5825	6	14.5	15.12	32.50	30	PASS

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802.11a_2TX

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				CH 0	CH 1				
36	5180	6	14	13.3	14.8	17.34	54.24	30	PASS
44	5220	6	16	14.77	16.31	18.84	76.50	30	PASS
48	5240	6	16.5	14.97	16.48	19.02	79.79	30	PASS
52	5260	6	16	14.73	16.08	18.69	73.90	23.98	PASS
60	5300	6	16	14.64	16.01	18.61	72.57	23.98	PASS
64	5320	6	13.5	12.57	14.12	16.64	46.16	23.98	PASS
100	5500	6	13	12.41	13.11	16.00	39.84	23.98	PASS
116	5580	6	15	14.44	15.46	18.21	66.20	23.98	PASS
140	5700	6	12.5	12.51	13.53	16.28	42.45	23.98	PASS
144	5720(U-NII 2C)	6	11.5	10.48	11.20	14.08	25.62	22.19	PASS
144	5720 (U-NII 3)	6	11.5	4.30	4.99	7.89	6.15	30	PASS
149	5745	6	13	13.35	13.8	16.81	47.97	30	PASS
157	5785	6	15.5	14.96	15.11	18.26	67.06	30	PASS
165	5825	6	15.5	14.79	14.9	18.07	64.18	30	PASS

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802.11ac_VHT20_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	14.5	13.91	24.62	30	PASS
44	5220	MCS0	14.5	14.08	25.60	30	PASS
48	5240	MCS0	14.5	14.15	26.02	30	PASS
52	5260	MCS0	15	14.48	28.07	23.98	PASS
60	5300	MCS0	15	14.35	27.24	23.98	PASS
64	5320	MCS0	14.5	13.95	24.84	23.98	PASS
100	5500	MCS0	10	9.83	9.62	23.98	PASS
116	5580	MCS0	14	14.13	25.90	23.98	PASS
140	5700	MCS0	12.5	12.95	19.74	23.98	PASS
144	5720(U-NII 2C)	MCS0	10	8.61	7.26	23.98	PASS
144	5720 (U-NII 3)	MCS0	10	2.96	1.98	30	PASS
149	5745	MCS0	13	13.76	23.78	30	PASS
157	5785	MCS0	13.5	14.11	25.78	30	PASS
165	5825	MCS0	14	14.53	28.39	30	PASS

802.11ac_VHT20_Ch1

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	13.5	14.44	27.81	30	PASS
44	5220	MCS0	14	14.98	31.49	30	PASS
48	5240	MCS0	14.5	15.86	38.57	30	PASS
52	5260	MCS0	14	15.40	34.69	23.98	PASS
60	5300	MCS0	13.5	14.92	31.06	23.98	PASS
64	5320	MCS0	12.5	13.99	25.07	23.98	PASS
100	5500	MCS0	10	10.87	12.22	23.98	PASS
116	5580	MCS0	13	14.27	26.74	23.98	PASS
140	5700	MCS0	12	12.99	19.92	23.98	PASS
144	5720(U-NII 2C)	MCS0	9	8.83	7.63	23.98	PASS
144	5720 (U-NII 3)	MCS0	9	3.18	2.08	30	PASS
149	5745	MCS0	12	13.51	22.45	30	PASS
157	5785	MCS0	13	14.26	26.68	30	PASS
165	5825	MCS0	14	14.58	28.72	30	PASS

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802.11ac_VHT20_MIMO

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				CH 0	CH 1				
36	5180	MCS0	14	13.04	14.72	17.20	52.52	30	PASS
44	5220	MCS0	14.5	13.43	15.03	17.55	56.83	30	PASS
48	5240	MCS0	15	14.14	15.5	18.12	64.80	30	PASS
52	5260	MCS0	15	13.93	15.42	17.98	62.82	23.98	PASS
60	5300	MCS0	14.5	13.42	15.16	17.62	57.80	23.98	PASS
64	5320	MCS0	14	12.96	14.66	17.14	51.71	23.98	PASS
100	5500	MCS0	10	9.89	10.92	13.68	23.32	23.98	PASS
116	5580	MCS0	14	13.36	14.44	17.18	52.19	23.98	PASS
140	5700	MCS0	10	10.1	10.97	13.80	23.99	23.98	PASS
144	5720(U-NII 2C)	MCS0	11	9.19	10.26	13.00	19.96	23.98	PASS
144	5720 (U-NII 3)	MCS0	11	3.54	4.62	7.35	5.44	30	PASS
149	5745	MCS0	13	13.26	13.63	16.69	46.68	30	PASS
157	5785	MCS0	14	13.92	14.06	17.23	52.88	30	PASS
165	5825	MCS0	14.5	14.1	14.5	17.55	56.85	30	PASS

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802.11ac_VHT40_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	10.5	10.15	10.36	30	PASS
46	5230	MCS0	13.5	13.44	22.10	30	PASS
54	5270	MCS0	14	13.55	22.67	23.98	PASS
62	5310	MCS0	11.5	10.92	12.37	23.98	PASS
102	5510	MCS0	9	8.53	7.14	23.98	PASS
110	5550	MCS0	13	13.28	21.30	23.98	PASS
134	5670	MCS0	13	13.48	22.31	23.98	PASS
142	5710(U-NII 2C)	MCS0	9.5	8.86	7.70	23.98	PASS
142	5710 (U-NII 3)	MCS0	9.5	-1.77	0.67	30	PASS
151	5755	MCS0	11	11.59	14.44	30	PASS
159	5795	MCS0	12.5	13.08	20.34	30	PASS

802.11ac_VHT40_Ch1

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	9	10.25	10.60	30	PASS
46	5230	MCS0	12.5	14.02	25.26	30	PASS
54	5270	MCS0	12	13.59	22.88	23.98	PASS
62	5310	MCS0	9	10.42	11.03	23.98	PASS
102	5510	MCS0	9	9.65	9.23	23.98	PASS
110	5550	MCS0	12	13.62	23.04	23.98	PASS
134	5670	MCS0	13	14.35	27.25	23.98	PASS
142	5710(U-NII 2C)	MCS0	8.5	9.13	8.18	23.98	PASS
142	5710 (U-NII 3)	MCS0	8.5	-1.43	0.72	30	PASS
151	5755	MCS0	10.5	11.64	14.60	30	PASS
159	5795	MCS0	12	13.17	20.77	30	PASS

802.11ac_VHT40_MIMO

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				CH 0	CH 1				
38	5190	MCS0	10	8.83	10.43	13.24	21.08	30	PASS
46	5230	MCS0	13	12.4	13.81	16.70	46.74	30	PASS
54	5270	MCS0	13	12.11	13.81	16.58	45.47	23.98	PASS
62	5310	MCS0	10.5	8.8	11.23	13.72	23.54	23.98	PASS
102	5510	MCS0	9.5	8.62	9.98	12.89	19.44	23.98	PASS
110	5550	MCS0	13	12.4	13.42	16.47	44.41	23.98	PASS
134	5670	MCS0	13.5	12.86	13.91	16.95	49.56	23.98	PASS
142	5710(U-NII 2C)	MCS0	11.5	9.31	10.35	13.39	21.85	23.98	PASS
142	5710 (U-NII 3)	MCS0	11.5	-1.33	-0.21	2.80	1.91	30	PASS
151	5755	MCS0	11.5	10.98	11.37	14.71	29.61	30	PASS
159	5795	MCS0	12.5	12.49	12.72	16.14	41.12	30	PASS

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802.11ac_VHT80_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	8	9.57	9.06	30	PASS
58	5290	MCS0	7.5	9.24	8.39	23.98	PASS
106	5530	MCS0	9.5	10.60	11.48	23.98	PASS
122	5610	MCS0	11.5	13.18	20.79	23.98	PASS
138	5690(U-NII 2C)	MCS0	7.5	8.45	7.00	23.98	PASS
138	5690 (U-NII 3)	MCS0	7.5	-6.39	0.23	30	PASS
155	5775	MCS0	9	10.53	11.30	30	PASS

802.11ac_VHT80_Ch1

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	8.5	9.80	9.55	30	PASS
58	5290	MCS0	8	9.25	8.41	23.98	PASS
106	5530	MCS0	9.5	10.15	10.35	23.98	PASS
122	5610	MCS0	12.5	13.70	23.44	23.98	PASS
138	5690(U-NII 2C)	MCS0	8	8.47	7.03	23.98	PASS
138	5690 (U-NII 3)	MCS0	8	-6.32	0.23	30	PASS
155	5775	MCS0	9	10.56	11.37	30	PASS

802.11ac_VHT80_MIMO

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				CH 0	CH 1				
42	5210	MCS0	8.5	8.31	8.52	12.68	18.52	30	PASS
58	5290	MCS0	8	7.78	8.18	12.24	16.77	23.98	PASS
106	5530	MCS0	10	8.97	9.32	13.41	21.92	23.98	PASS
122	5610	MCS0	12.5	12.19	12.28	16.49	44.62	23.98	PASS
138	5690(U-NII 2C)	MCS0	9.5	7.36	8.34	12.14	16.36	23.98	PASS
138	5690 (U-NII 3)	MCS0	9.5	-7.48	-6.45	-2.68	0.54	30	PASS
155	5775	MCS0	10	9.3	9.6	13.71	23.51	30	PASS

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6.5.2 ISED EIRP

802.11a_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	13.98	0.50	14.48	28.05	23.01	PASS
44	5220	15.02	0.50	15.52	35.63	23.01	PASS
48	5240	15.30	0.50	15.80	38.01	23.01	PASS
52	5260	15.17	0.99	16.16	41.29	30	PASS
60	5300	15.35	0.99	16.34	43.04	30	PASS
64	5320	13.63	0.99	14.62	28.96	30	PASS
100	5500	12.36	0.31	12.67	18.49	30	PASS
116	5580	14.94	0.31	15.25	33.49	30	PASS
140	5700	13.24	0.31	13.55	22.64	30	PASS

802.11a_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	14.61	0.10	14.71	29.57	23.01	PASS
44	5220	16.49	0.10	16.59	45.59	23.01	PASS
48	5240	16.65	0.10	16.75	47.30	23.01	PASS
52	5260	16.18	0.27	16.45	44.14	30	PASS
60	5300	15.80	0.27	16.07	40.45	30	PASS
64	5320	13.69	0.27	13.96	24.88	30	PASS
100	5500	13.03	-0.66	12.37	17.25	30	PASS
116	5580	15.43	-0.66	14.77	29.98	30	PASS
140	5700	13.30	-0.66	12.64	18.36	30	PASS

802.11a_2TX

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	17.34	3.31	20.65	116.24	23.01	PASS
44	5220	18.84	3.31	22.15	163.94	23.01	PASS
48	5240	19.02	3.31	22.33	170.97	23.01	PASS
52	5260	18.69	3.65	22.34	171.25	30	PASS
60	5300	18.61	3.65	22.26	168.18	30	PASS
64	5320	16.64	3.65	20.29	106.97	30	PASS
100	5500	16.00	2.85	18.85	76.79	30	PASS
116	5580	18.21	2.85	21.06	127.61	30	PASS
140	5700	16.28	2.85	19.13	81.82	30	PASS

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802.11ac_VHT20_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	13.91	0.50	14.41	27.62	23.01	PASS
44	5220	14.08	0.50	14.58	28.72	23.01	PASS
48	5240	14.15	0.50	14.65	29.19	23.01	PASS
52	5260	14.48	0.99	15.47	35.26	30	PASS
60	5300	14.35	0.99	15.34	34.22	30	PASS
64	5320	13.95	0.99	14.94	31.21	30	PASS
100	5500	9.83	0.31	10.14	10.33	30	PASS
116	5580	14.13	0.31	14.44	27.81	30	PASS
140	5700	12.95	0.31	13.26	21.20	30	PASS

802.11ac_VHT20_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	14.44	0.10	14.54	28.46	23.01	PASS
44	5220	14.98	0.10	15.08	32.23	23.01	PASS
48	5240	15.86	0.10	15.96	39.47	23.01	PASS
52	5260	15.40	0.27	15.67	36.92	30	PASS
60	5300	14.92	0.27	15.19	33.06	30	PASS
64	5320	13.99	0.27	14.26	26.68	30	PASS
100	5500	10.87	-0.66	10.21	10.50	30	PASS
116	5580	14.27	-0.66	13.61	22.97	30	PASS
140	5700	12.99	-0.66	12.33	17.11	30	PASS

802.11ac_VHT20_MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	17.20	3.31	20.51	112.55	23.01	PASS
44	5220	17.55	3.31	20.86	121.79	23.01	PASS
48	5240	18.12	3.31	21.43	138.86	23.01	PASS
52	5260	17.98	3.65	21.63	145.59	30	PASS
60	5300	17.62	3.65	21.27	133.94	30	PASS
64	5320	17.14	3.65	20.79	119.82	30	PASS
100	5500	13.68	2.85	16.53	44.96	30	PASS
116	5580	17.18	2.85	20.03	100.60	30	PASS
140	5700	13.80	2.85	16.65	46.23	30	PASS

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802.11ac_VHT40_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	10.15	0.50	10.65	11.63	23.01	PASS
46	5230	13.44	0.50	13.94	24.80	23.01	PASS
54	5270	13.55	0.99	14.54	28.47	30	PASS
62	5310	10.92	0.99	11.91	15.54	30	PASS
102	5510	8.53	0.31	8.84	7.66	30	PASS
110	5550	13.28	0.31	13.59	22.88	30	PASS
134	5670	13.48	0.31	13.79	23.96	30	PASS

802.11ac_VHT40_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	10.25	0.10	10.35	10.85	23.01	PASS
46	5230	14.02	0.10	14.12	25.85	23.01	PASS
54	5270	13.59	0.27	13.86	24.35	30	PASS
62	5310	10.42	0.27	10.69	11.73	30	PASS
102	5510	9.65	-0.66	8.99	7.93	30	PASS
110	5550	13.62	-0.66	12.96	19.79	30	PASS
134	5670	14.35	-0.66	13.69	23.41	30	PASS

802.11ac_VHT40_MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	13.24	3.31	16.55	45.16	23.01	PASS
46	5230	16.70	3.31	20.01	100.15	23.01	PASS
54	5270	16.58	3.65	20.23	105.37	30	PASS
62	5310	13.72	3.65	17.37	54.54	30	PASS
102	5510	12.89	2.85	15.74	37.48	30	PASS
110	5550	16.47	2.85	19.32	85.59	30	PASS
134	5670	16.95	2.85	19.80	95.52	30	PASS

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802.11ac_VHT80_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	9.57	0.50	10.07	10.16	23.01	PASS
58	5290	9.24	0.99	10.23	10.54	30	PASS
106	5530	10.60	0.31	10.91	12.33	30	PASS

802.11ac_VHT80_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	9.80	0.10	9.90	9.77	23.01	PASS
58	5290	9.25	0.27	9.52	8.95	30	PASS
106	5530	10.15	-0.66	9.49	8.89	30	PASS

802.11ac_VHT80_MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	12.68	3.31	15.99	39.68	23.01	PASS
58	5290	12.24	3.65	15.89	38.85	30	PASS
106	5530	13.41	2.85	16.26	42.25	30	PASS

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6.5.3 Conducted output power (ISED)

802.11a_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	15.17	32.87	23.98	PASS
60	5300	15.35	34.27	23.98	PASS
64	5320	13.63	23.06	23.98	PASS
100	5500	12.36	17.21	23.98	PASS
116	5580	14.94	31.18	23.98	PASS
140	5700	13.24	21.08	23.98	PASS
144	5720(U-NII 2C)	9.55	9.02	23.98	PASS
144	5720 (U-NII 3)	3.37	2.17	30	PASS
149	5745	13.72	23.54	30	PASS
157	5785	14.97	31.40	30	PASS
165	5825	14.99	31.54	30	PASS

802.11a_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	16.18	41.48	23.98	PASS
60	5300	15.80	38.01	23.98	PASS
64	5320	13.69	23.38	23.98	PASS
100	5500	13.03	20.08	23.98	PASS
116	5580	15.43	34.90	23.98	PASS
140	5700	13.30	21.37	23.98	PASS
144	5720(U-NII 2C)	10.07	10.15	23.98	PASS
144	5720 (U-NII 3)	3.86	2.43	30	PASS
149	5745	13.74	23.65	30	PASS
157	5785	15.45	35.06	30	PASS
165	5825	15.12	32.50	30	PASS

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802.11a_2Tx

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CH 0	CH 1				
52	5260	14.73	16.08	18.69	73.90	23.98	PASS
60	5300	14.64	16.01	18.61	72.57	23.98	PASS
64	5320	12.57	14.12	16.64	46.16	23.98	PASS
100	5500	12.41	13.11	16.00	39.84	23.98	PASS
116	5580	14.44	15.46	18.21	66.20	23.98	PASS
140	5700	12.51	13.53	16.28	42.45	23.98	PASS
144	5720(U-NII 2C)	10.48	11.20	14.08	25.62	23.98	PASS
144	5720 (U-NII 3)	4.30	4.99	7.89	6.15	30	PASS
149	5745	13.35	13.80	16.81	47.97	30	PASS
157	5785	14.96	15.11	18.26	67.06	30	PASS
165	5825	14.79	14.90	18.07	64.18	30	PASS

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802.11ac_VHT20_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	14.48	28.07	23.98	PASS
60	5300	14.35	27.24	23.98	PASS
64	5320	13.95	24.84	23.98	PASS
100	5500	9.83	9.62	23.98	PASS
116	5580	14.13	25.90	23.98	PASS
140	5700	12.95	19.74	23.98	PASS
144	5720(U-NII 2C)	8.61	7.26	23.98	PASS
144	5720 (U-NII 3)	2.96	1.98	30	PASS
149	5745	13.76	23.78	30	PASS
157	5785	14.11	25.78	30	PASS
165	5825	14.53	28.39	30	PASS

802.11ac_VHT20_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	15.40	34.69	23.98	PASS
60	5300	14.92	31.06	23.98	PASS
64	5320	13.99	25.07	23.98	PASS
100	5500	10.87	12.22	23.98	PASS
116	5580	14.27	26.74	23.98	PASS
140	5700	12.99	19.92	23.98	PASS
144	5720(U-NII 2C)	8.83	7.63	23.98	PASS
144	5720 (U-NII 3)	3.18	2.08	30	PASS
149	5745	13.51	22.45	30	PASS
157	5785	14.26	26.68	30	PASS
165	5825	14.58	28.72	30	PASS

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802.11ac_VHT20_MIMO

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CH 0	CH 1				
52	5260	13.93	15.42	17.98	62.82	23.98	PASS
60	5300	13.42	15.16	17.62	57.80	23.98	PASS
64	5320	12.96	14.66	17.14	51.71	23.98	PASS
100	5500	9.89	10.92	13.68	23.32	23.98	PASS
116	5580	13.36	14.44	17.18	52.19	23.98	PASS
140	5700	10.10	10.97	13.80	23.99	23.98	PASS
144	5720(U-NII 2C)	9.19	10.26	13.00	19.96	23.98	PASS
144	5720 (U-NII 3)	3.54	4.62	7.35	5.44	30	PASS
149	5745	13.26	13.63	16.69	46.68	30	PASS
157	5785	13.92	14.06	17.23	52.88	30	PASS
165	5825	14.10	14.50	17.55	56.85	30	PASS

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802.11ac_VHT40_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
54	5270	13.55	22.67	23.98	PASS
62	5310	10.92	12.37	23.98	PASS
102	5510	8.53	7.14	23.98	PASS
110	5550	13.28	21.30	23.98	PASS
134	5670	13.48	22.31	23.98	PASS
142	5710(U-NII 2C)	8.86	7.70	23.98	PASS
142	5710 (U-NII 3)	-1.77	0.67	30	PASS
151	5755	11.59	14.44	30	PASS
159	5795	13.08	20.34	30	PASS

802.11ac_VHT40_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
54	5270	13.59	22.88	23.98	PASS
62	5310	10.42	11.03	23.98	PASS
102	5510	9.65	9.23	23.98	PASS
110	5550	13.62	23.04	23.98	PASS
134	5670	14.35	27.25	23.98	PASS
142	5710(U-NII 2C)	9.13	8.18	23.98	PASS
142	5710 (U-NII 3)	-1.43	0.72	30	PASS
151	5755	11.64	14.60	30	PASS
159	5795	13.17	20.77	30	PASS

802.11ac_VHT40_MIMO

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CH 0	CH 1				
54	5270	12.11	13.81	16.58	45.47	23.98	PASS
62	5310	8.80	11.23	13.72	23.54	23.98	PASS
102	5510	8.62	9.98	12.89	19.44	23.98	PASS
110	5550	12.40	13.42	16.47	44.41	23.98	PASS
134	5670	12.86	13.91	16.95	49.56	23.98	PASS
142	5710(U-NII 2C)	9.31	10.35	13.39	21.85	23.98	PASS
142	5710 (U-NII 3)	-1.33	-0.21	2.80	1.91	30	PASS
151	5755	10.98	11.37	14.71	29.61	30	PASS
159	5795	12.49	12.72	16.14	41.12	30	PASS

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802.11ac_VHT80_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
58	5290	9.24	8.39	23.98	PASS
106	5530	10.60	11.48	23.98	PASS
122	5610	13.18	20.79	23.98	PASS
138	5690(U-NII 2C)	8.45	7.00	23.98	PASS
138	5690 (U-NII 3)	-6.39	0.23	30	PASS
155	5775	10.53	11.30	30	PASS

802.11ac_VHT80_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
58	5290	9.25	8.41	23.98	PASS
106	5530	10.15	10.35	23.98	PASS
122	5610	13.70	23.44	23.98	PASS
138	5690(U-NII 2C)	8.47	7.03	23.98	PASS
138	5690 (U-NII 3)	-6.32	0.23	30	PASS
155	5775	10.56	11.37	30	PASS

802.11ac_VHT80_MIMO

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CH 0	CH 1				
58	5290	7.78	8.18	12.24	16.77	23.98	PASS
106	5530	8.97	9.32	13.41	21.92	23.98	PASS
122	5610	12.19	12.28	16.49	44.62	23.98	PASS
138	5690(U-NII 2C)	7.36	8.34	12.14	16.36	23.98	PASS
138	5690 (U-NII 3)	-7.48	-6.45	-2.68	0.54	30	PASS
155	5775	9.30	9.60	13.71	23.51	30	PASS

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7 UNDESIRABLE RADIATED EMISSION MEASUREMENT

7.1 Standard Applicable

7.1.1 Band Edge

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

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

APPLICABLE TO	EIRP LIMIT	FIELD STRENGTH AT 3m
15.407(b)(1) RSS-247 §6.2.1.2	PK: -27 (dBm/MHz)	PK: 68.2 (dB μ V/m)
15.407(b)(2) RSS-247 §6.2.2.2		
15.407(b)(3) RSS-247 §6.2.3.2		
15.407(b)(4)(i) RSS-247 §6.2.4.2	PK:-27 (dBm/MHz) *1 PK:10 (dBm/MHz) *2 PK:15.6 (dBm/MHz) *3 PK:27 (dBm/MHz) *4	PK: 68.2 (dB μ V/m) *1 PK:105.2 (dB μ V/m) *2 PK: 110.8(dB μ V/m) *3 PK:122.2 (dB μ V/m) *4

*1 beyond 75 MHz or more above of the bandedge.
*2 below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above.
*3 below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above.
*4 from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

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

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7.1.2 Spurious Emission

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

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

Note:

1. The lower limit shall apply at the transition frequencies.

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7.2 Measurement Equipment Used

Radiated Emission Test Site: SAC D					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Broadband Antenna	TESEQ	CBL 6112D	35240	09/08/2020	09/07/2021
Horn Antenna	Schwarzbeck	BBHA9120D	1341	06/22/2020	06/21/2021
Horn Antenna	Schwarzbeck	BBHA9170	185	07/30/2020	07/29/2021
Loop Antenna	ETS.LIND-GREN	6502	143303	05/07/2021	05/06/2022
3m Site NSA	SGS	966 chamber D	N/A	07/12/2020	07/11/2021
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	07/08/2020	07/07/2021
Pre-Amplifier	EMC Instruments	EMC184045B	980135	10/27/2020	10/26/2021
Pre-Amplifier	EMC Instruments	EMC9135	980234	11/19/2020	11/18/2021
Pre-Amplifier	EMC Instruments	EMC12630SE	980271	11/19/2020	11/18/2021
Attenuator	Marvelous	WATT-218FS-10	RF25	11/19/2020	11/18/2021
High Pass Filter	R&S	F13 HPF 3GHz	RF175	11/19/2020	11/18/2021
Lowpass Filter	Woken	EWT-56-0019	RF173	11/19/2020	11/18/2021
Notch Filter	Woken	EWT-54-0038	RF178	11/19/2020	11/18/2021
Coaxial Cable	Huber Suhner	EMC106-SM-SM-7200	150703	11/19/2020	11/18/2021
Coaxial Cable	Huber+Suhner	RG 214/U	W21.01	11/19/2020	11/18/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17413/4	11/19/2020	11/18/2021

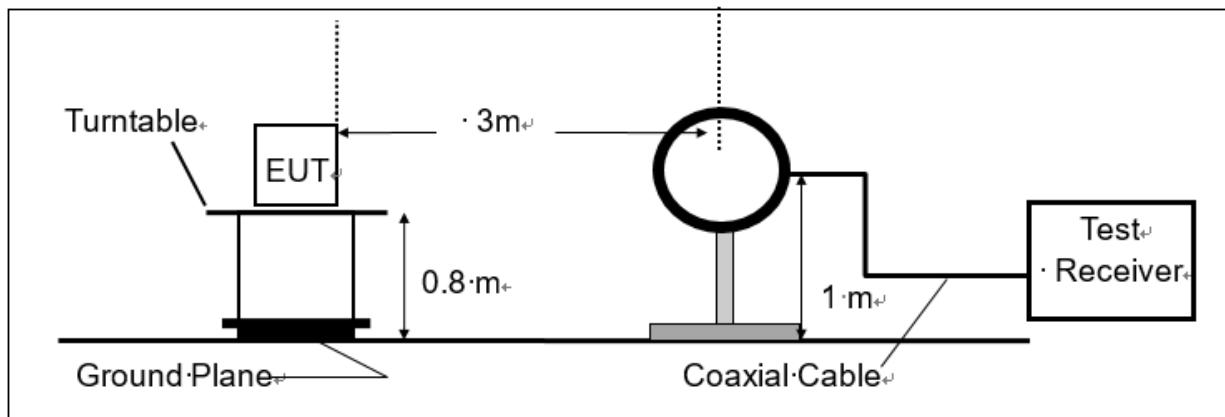
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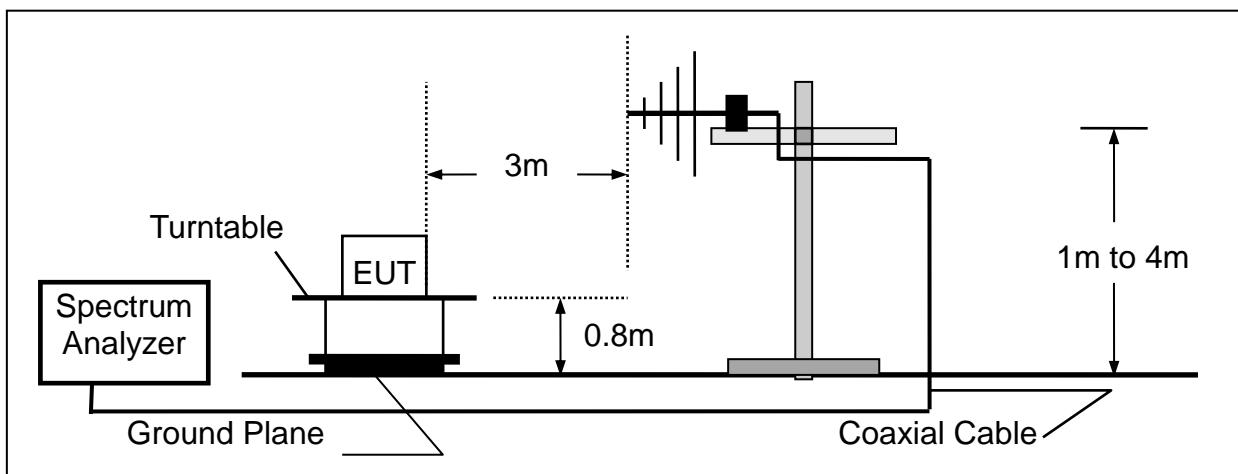
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7.3 Test SET-UP

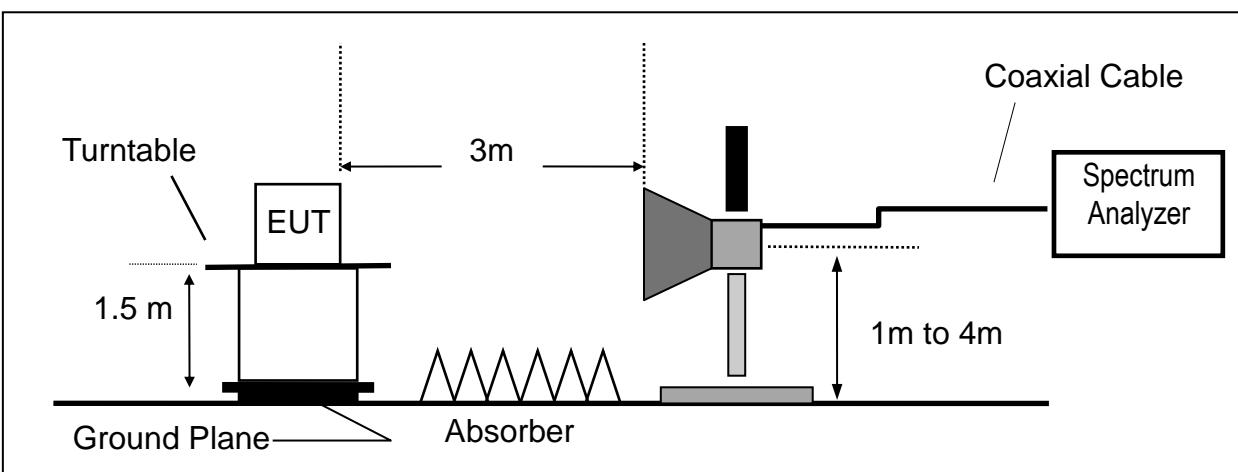
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



(B) Radiated Emission Test Set-Up, Frequency From 30MHz to 1000MHz



(C) Radiated Emission Test Set-Up, Frequency Above 1GHz



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7.4 Measurement Procedure

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
3. The EUT was placed on a turn table with 0.8m for frequency< 1GHz and 1.5m for frequency> 1GHz above ground plane.
4. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
5. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
6. Set the spectrum analyzer as RBW=100 kHz and VBW=300 kHz for Peak Detector (PK) at frequency between 30MHz and 1 GHz.
7. Use receiver mode as RBW=120 kHz for Quasi-peak (QP) at frequency between 30MHz and 1 GHz.
8. At frequency above 1 GHz, Set the spectrum analyzer:
 - A. RBW=1 MHz, VBW=3 MHz for **Peak** Detector.
 - B. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW $\geq 1/T$ (Duty cycle < 98%) for **Average** Detector.
9. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
10. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
11. Repeat above procedures until all frequency measured were complete.

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7.5 Field Strength Calculation

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

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

Where FS = Field Strength

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

The limit of the emission level is expressed in $dB\mu V/m$, which converts $20 * \log(\mu V/m)$

Actual $FS(dB\mu V/m)$ = SPA. Reading level($dB\mu V$) + Factor(dB)

Factor(dB) = Antenna Factor($dB\mu V/m$) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

7.6 Test Results of Radiated Spurious Emissions from 9 kHz to 30 MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit per 15.31(o) & RSS-GEN §6.13.2 was not reported.

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

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7.7 Radiated Spurious Emission Measurement Result

7.7.1 Above 1GHz Worst-Case Data:

Report Number	:E2/2021/60037	Test Site	:966 Chamber D
Operation Mode	:802.11a / Band 1	Test Date	:2021-06-15
Test Frequency	:5200 MHz	Temp./Humi.	:21.1/66
Test Mode	:TX CH MID	Antenna Pol.	:Vertical
EUT Pol	:NB Plane	Engineer	:Jack Tseng



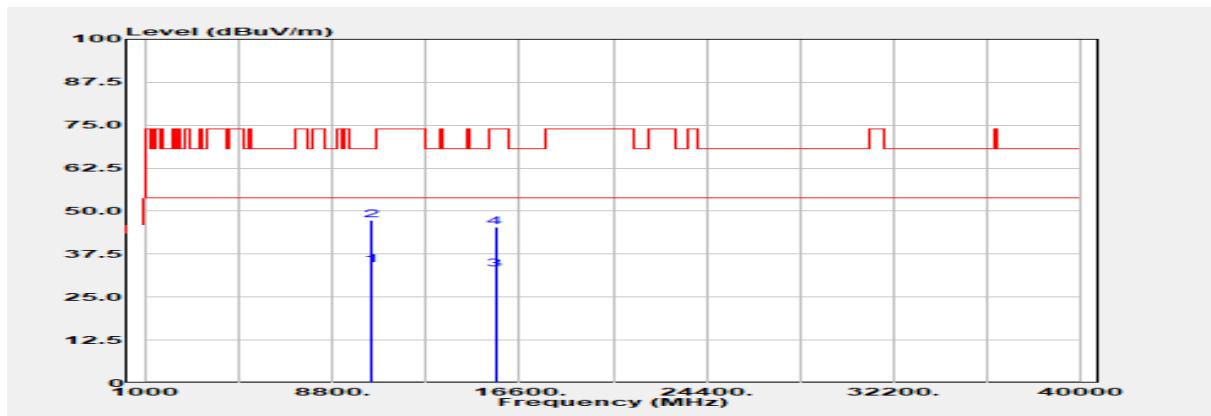
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10400.000	Average	27.94	7.90	35.83	54.00	-18.17
10400.000	Peak	39.98	7.90	47.88	68.20	-20.32
15600.000	Average	28.12	6.18	34.30	54.00	-19.70
15600.000	Peak	40.25	6.18	46.43	74.00	-27.57

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Report Number :E2/2021/60037 Test Site :966 Chamber D
Operation Mode :802.11a / Band 1 Test Date :2021-06-15
Test Frequency :5200 MHz Temp./Humi. :21.1/66
Test Mode :TX CH MID Antenna Pol. :Horizontal
EUT Pol :NB Plane Engineer :Jack Tseng



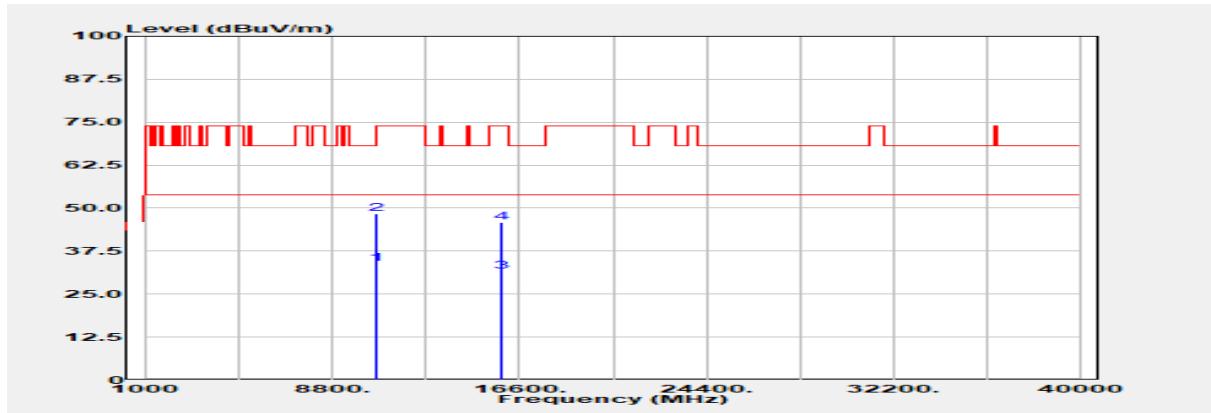
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10400.000	Average	26.49	7.90	34.39	54.00	-19.61
10400.000	Peak	39.54	7.90	47.44	68.20	-20.76
15600.000	Average	26.83	6.18	33.01	54.00	-20.99
15600.000	Peak	39.09	6.18	45.28	74.00	-28.72

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Report Number :E2/2021/60037 Test Site :966 Chamber D
Operation Mode :802.11a / Band 2 Test Date :2021-06-15
Test Frequency :5300 MHz Temp./Humi. :21.1/66
Test Mode :TX CH MID Antenna Pol. :Vertical
EUT Pol :NB Plane Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10600.000	Average	26.55	7.20	33.75	54.00	-20.25
10600.000	Peak	41.11	7.20	48.31	74.00	-25.69
15900.000	Average	25.73	5.87	31.60	54.00	-22.40
15900.000	Peak	40.12	5.87	45.99	74.00	-28.01

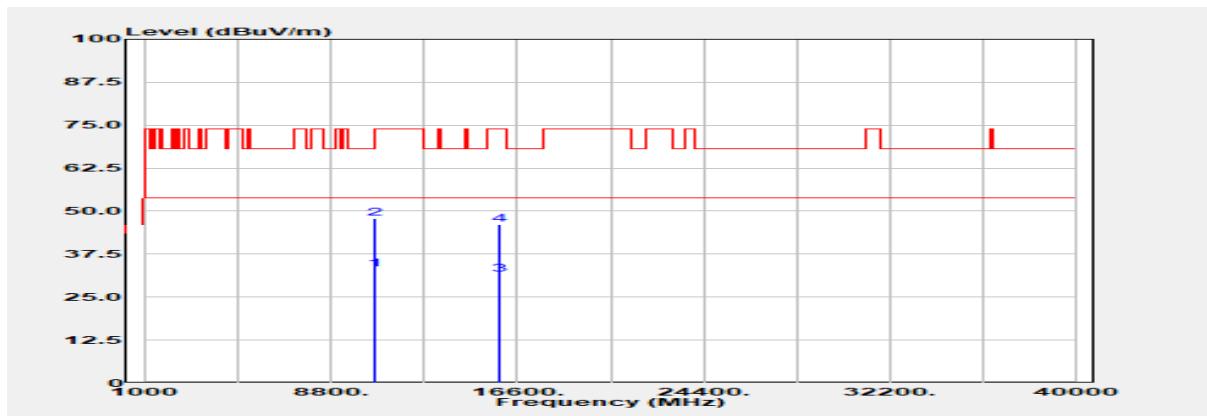
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Report Number :E2/2021/60037
Operation Mode :802.11a / Band 2
Test Frequency :5300 MHz
Test Mode :TX CH MID
EUT Pol :NB Plane

Test Site :966 Chamber D
Test Date :2021-06-15
Temp./Humi. :21.1/66
Antenna Pol. :Horizontal
Engineer :Jack Tseng



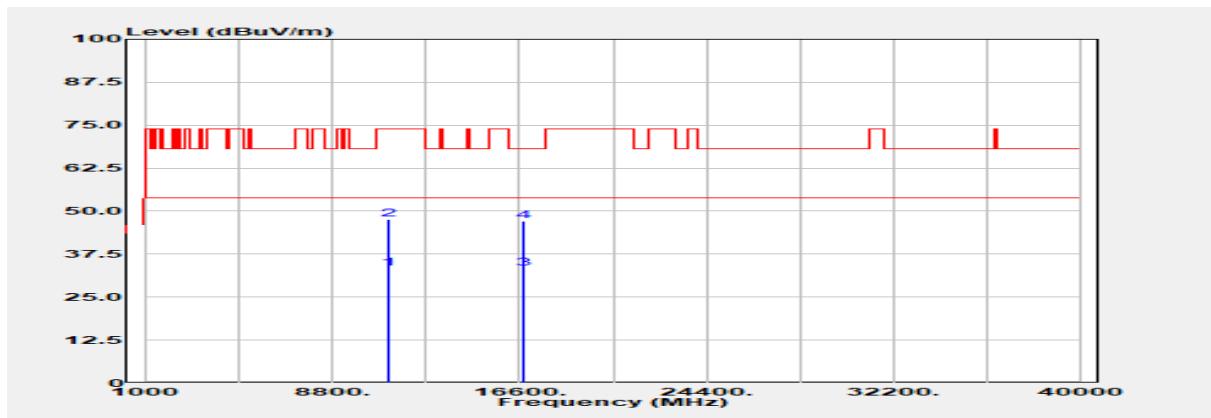
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10600.000	Average	25.88	7.20	33.08	54.00	-20.92
10600.000	Peak	40.57	7.20	47.77	74.00	-26.23
15900.000	Average	25.71	5.87	31.58	54.00	-22.42
15900.000	Peak	40.22	5.87	46.09	74.00	-27.91

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Report Number :E2/2021/60037 Test Site :966 Chamber D
Operation Mode :802.11a / Band 3 Test Date :2021-06-15
Test Frequency :5600 MHz Temp./Humi. :21.1/66
Test Mode :TX CH MID Antenna Pol. :Vertical
EUT Pol :NB Plane Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11200.000	Average	25.69	7.69	33.38	54.00	-20.62
11200.000	Peak	39.91	7.69	47.60	74.00	-26.40
16800.000	Average	25.12	8.12	33.24	54.00	-20.76
16800.000	Peak	39.01	8.12	47.12	68.20	-21.08

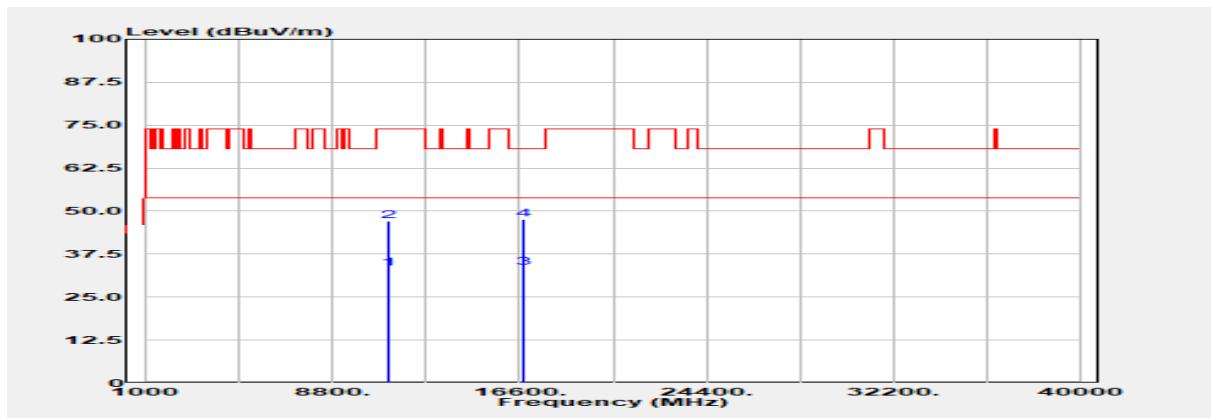
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Report Number :E2/2021/60037
Operation Mode :802.11a / Band 3
Test Frequency :5600 MHz
Test Mode :TX CH MID
EUT Pol :NB Plane

Test Site :966 Chamber D
Test Date :2021-06-15
Temp./Humi. :21.1/66
Antenna Pol. :Horizontal
Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11200.000	Average	25.52	7.69	33.22	54.00	-20.78
11200.000	Peak	39.46	7.69	47.15	74.00	-26.85
16800.000	Average	25.37	8.12	33.49	54.00	-20.51
16800.000	Peak	39.59	8.12	47.71	68.20	-20.49

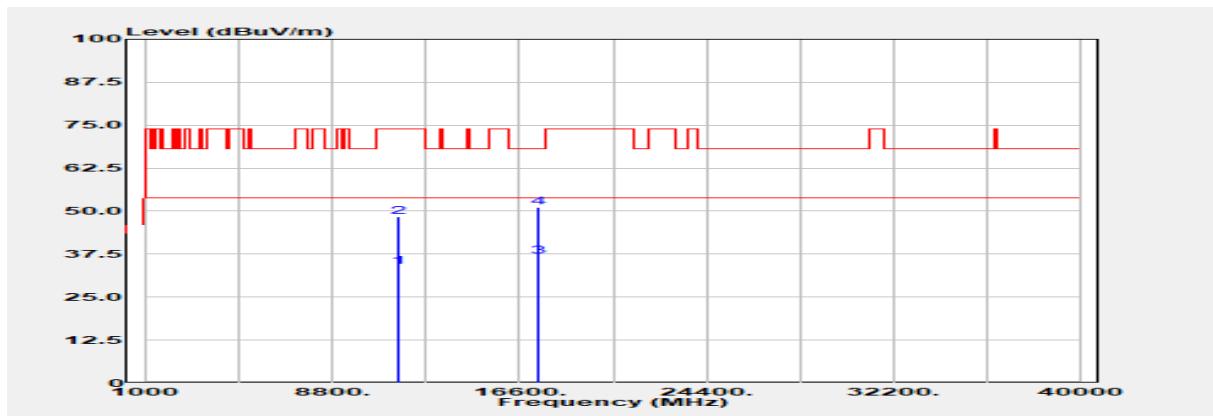
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Report Number :E2/2021/60037
 Operation Mode :802.11a / Band 4
 Test Frequency :5785 MHz
 Test Mode :TX CH MID
 EUT Pol :NB Plane

Test Site :966 Chamber D
 Test Date :2021-06-15
 Temp./Humi. :21.1/66
 Antenna Pol. :Vertical
 Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11570.000	Average	25.20	8.65	33.85	54.00	-20.15
11570.000	Peak	39.77	8.65	48.42	74.00	-25.58
17355.000	Average	26.12	10.62	36.74	54.00	-17.26
17355.000	Peak	40.60	10.62	51.23	68.20	-16.97

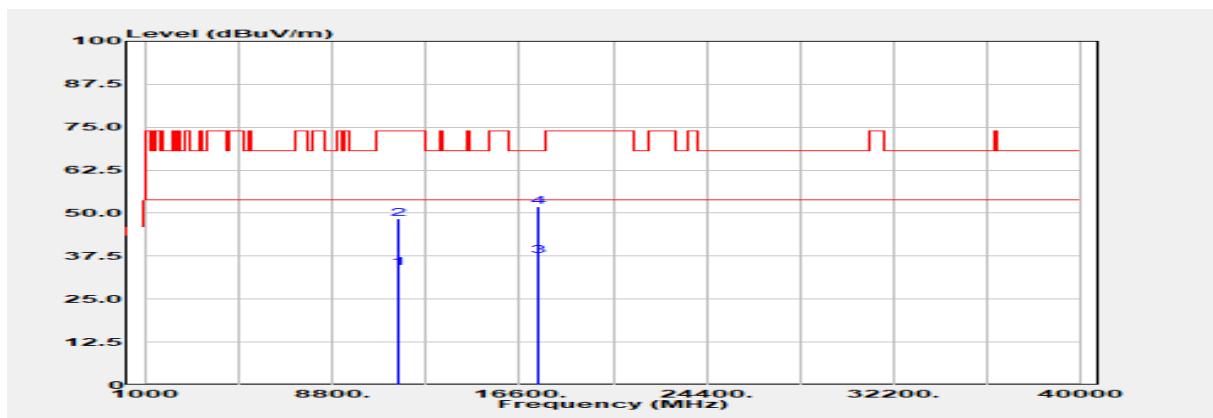
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Report Number :E2/2021/60037
Operation Mode :802.11a / Band 4
Test Frequency :5785 MHz
Test Mode :TX CH MID
EUT Pol :NB Plane

Test Site :966 Chamber D
Test Date :2021-06-15
Temp./Humi. :21.1/66
Antenna Pol. :Horizontal
Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11570.000	Average	25.44	8.65	34.09	54.00	-19.91
11570.000	Peak	39.72	8.65	48.37	74.00	-25.63
17355.000	Average	26.98	10.62	37.60	54.00	-16.40
17355.000	Peak	41.31	10.62	51.93	68.20	-16.27

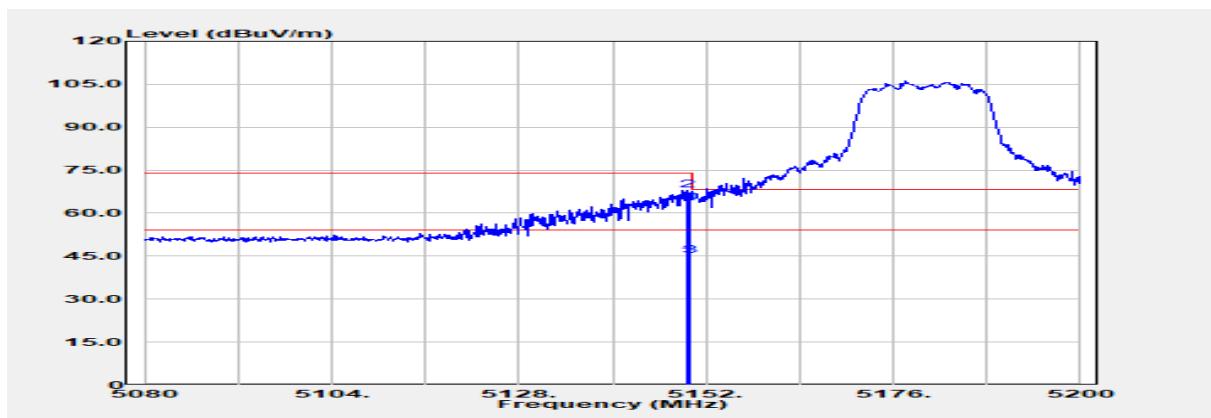
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7.7.2 Band edge falling to restricted band

Report Number :E2/2021/60037 Test Site :966 Chamber D
 Operation Mode :802.11a / Band 1 Test Date :2021-06-15
 Test Frequency :5180 MHz Temp./Humi. :21.4/66
 Test Mode :BE CH LOW Antenna Pol. :Vertical
 EUT Pol :NB Plane Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _u V	Factor dB	Actual FS dB _u V/m	Limit @3m dB _u V/m	Margin dB
5149.720	Average	47.30	-2.42	44.88	54.00	-9.12
5149.720	Peak	70.42	-2.42	68.00	74.00	-6.00
5150.000	Average	47.61	-2.43	45.18	54.00	-8.82
5150.000	Peak	65.97	-2.43	63.55	74.00	-10.45

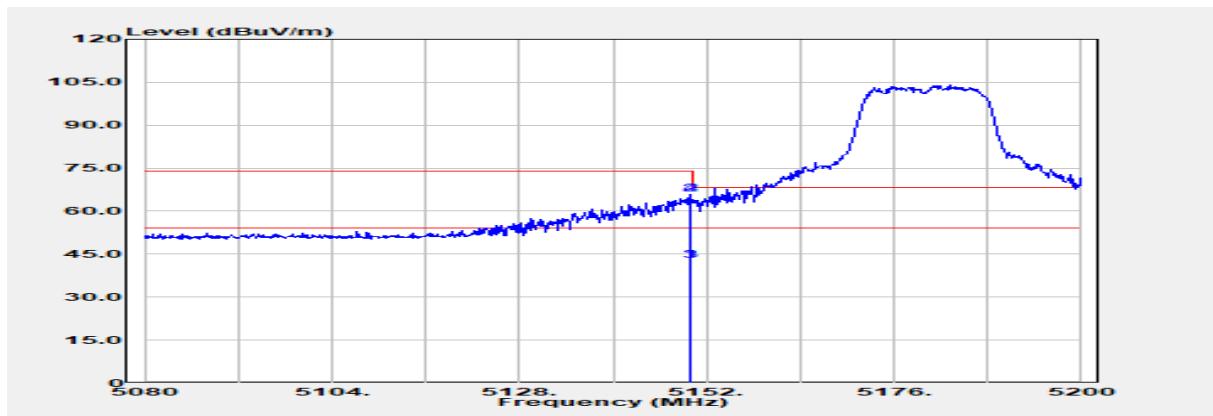
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Report Number :E2/2021/60037
 Operation Mode :802.11a / Band 1
 Test Frequency :5180 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane

Test Site :966 Chamber D
 Test Date :2021-06-15
 Temp./Humi. :21.4/66
 Antenna Pol. :Horizontal
 Engineer :Jack Tseng



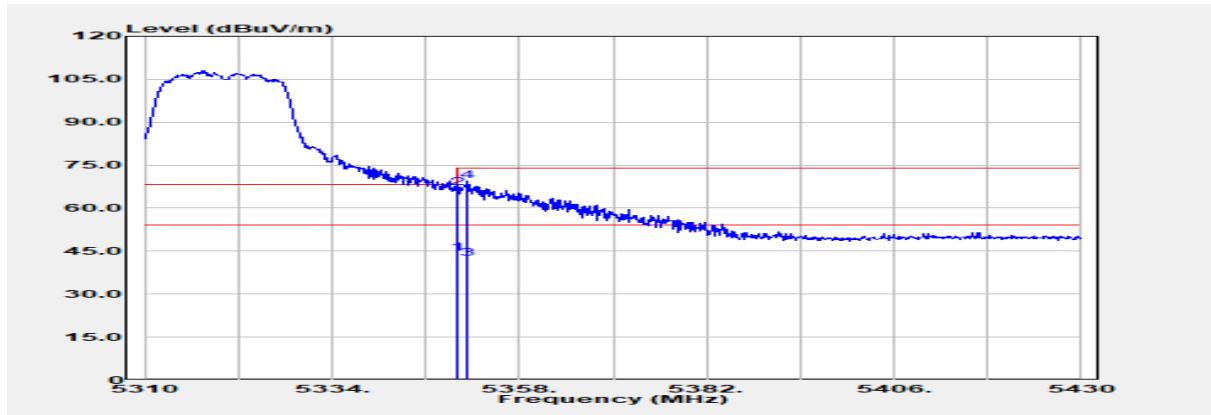
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5149.960	Average	45.19	-2.43	42.76	54.00	-11.24
5149.960	Peak	68.27	-2.43	65.85	74.00	-8.15
5150.000	Average	45.06	-2.43	42.63	54.00	-11.37
5150.000	Peak	68.28	-2.43	65.85	74.00	-8.15

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Report Number :E2/2021/60037 Test Site :966 Chamber D
 Operation Mode :802.11a / Band 2 Test Date :2021-06-15
 Test Frequency :5320 MHz Temp./Humi. :21.4/66
 Test Mode :BE CH HIGH Antenna Pol. :Vertical
 EUT Pol :NB Plane Engineer :Jack Tseng



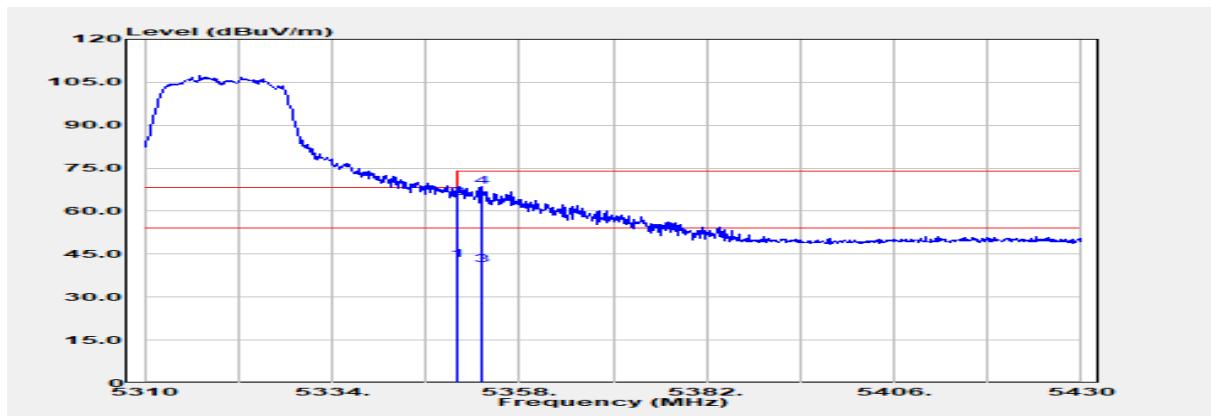
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5350.000	Average	46.85	-2.76	44.08	54.00	-9.92
5350.000	Peak	69.93	-2.76	67.17	74.00	-6.83
5351.280	Average	45.16	-2.82	42.34	54.00	-11.66
5351.280	Peak	72.32	-2.82	69.50	74.00	-4.50

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Report Number :E2/2021/60037
 Operation Mode :802.11a / Band 2
 Test Frequency :5320 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane
 Test Site :966 Chamber D
 Test Date :2021-06-15
 Temp./Humi. :21.4/66
 Antenna Pol. :Horizontal
 Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5350.000	Average	45.65	-2.76	42.89	54.00	-11.11
5350.000	Peak	67.57	-2.76	64.81	74.00	-9.19
5353.200	Average	44.01	-2.90	41.11	54.00	-12.89
5353.200	Peak	71.51	-2.90	68.61	74.00	-5.39

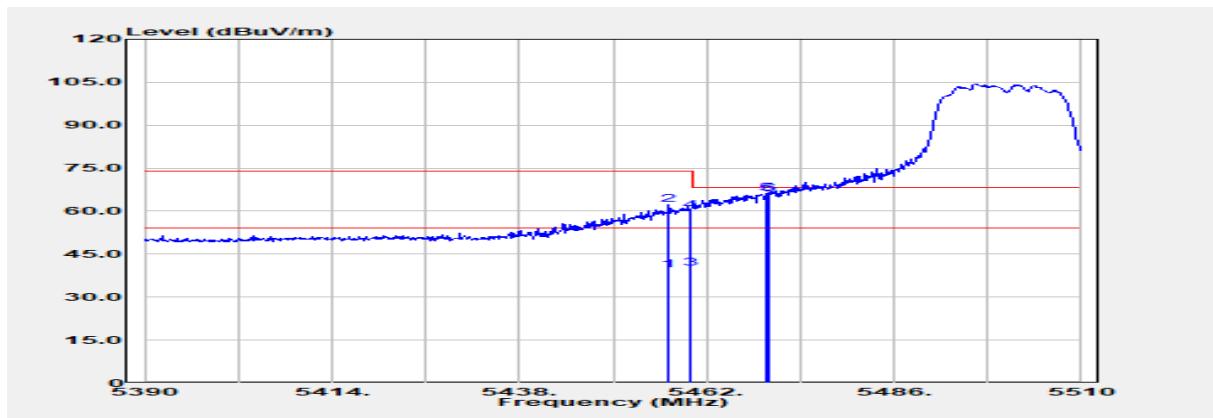
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Report Number :E2/2021/60037
Operation Mode :802.11a / Band 3
Test Frequency :5500 MHz
Test Mode :BE CH LOW
EUT Pol :NB Plane

Test Site :966 Chamber D
Test Date :2021-06-15
Temp./Humi. :21.4/66
Antenna Pol. :Vertical
Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5457.200	Average	41.79	-2.25	39.55	54.00	-14.45
5457.200	Peak	64.36	-2.25	62.11	74.00	-11.89
5460.000	Average	42.06	-2.18	39.88	54.00	-14.12
5460.000	Peak	62.39	-2.18	60.21	74.00	-13.79
5469.560	Peak	68.38	-2.34	66.04	68.20	-2.16
5470.000	Peak	68.08	-2.35	65.74	68.20	-2.46

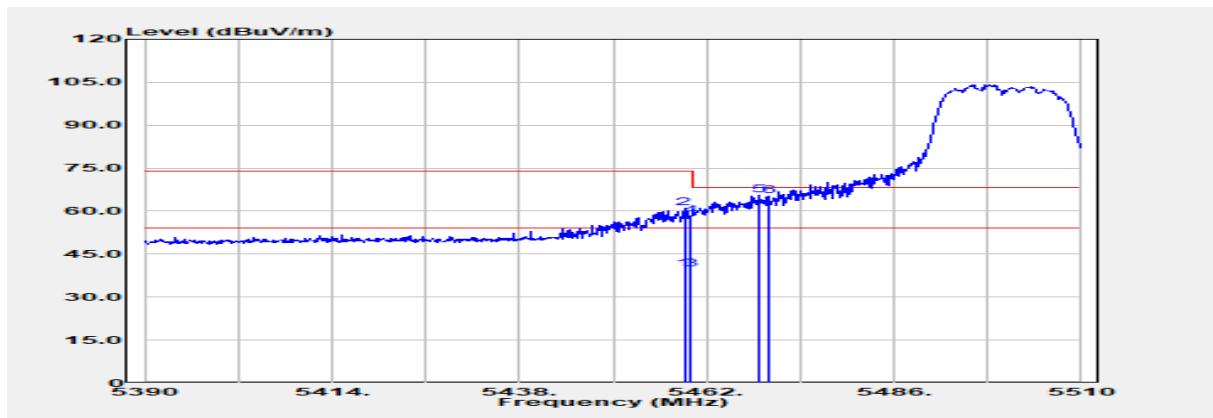
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Report Number :E2/2021/60037
 Operation Mode :802.11a / Band 3
 Test Frequency :5500 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane

Test Site :966 Chamber D
 Test Date :2021-06-15
 Temp./Humi. :21.4/66
 Antenna Pol. :Horizontal
 Engineer :Jack Tseng



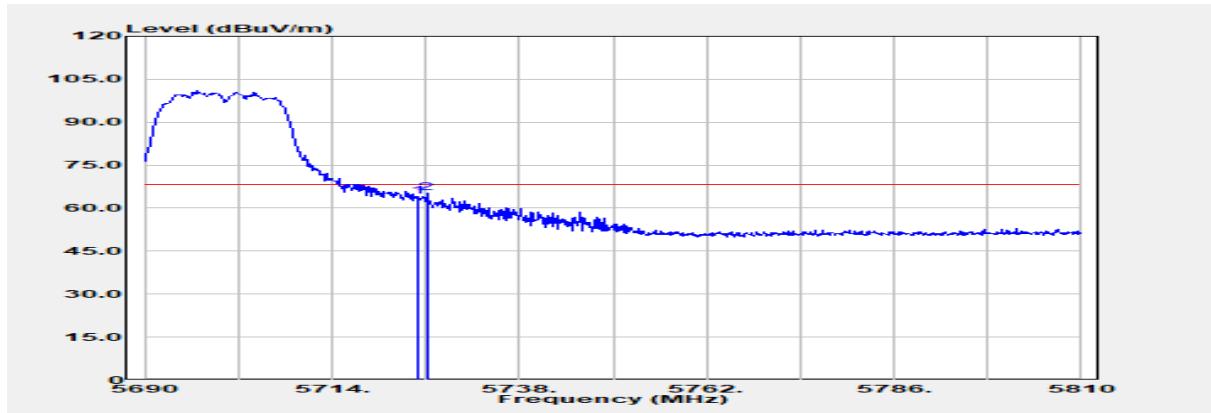
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5459.120	Average	41.81	-2.20	39.61	54.00	-14.39
5459.120	Peak	63.21	-2.20	61.01	74.00	-12.99
5460.000	Average	41.88	-2.18	39.70	54.00	-14.30
5460.000	Peak	60.43	-2.18	58.25	74.00	-15.75
5468.840	Peak	68.03	-2.33	65.70	68.20	-2.50
5470.000	Peak	67.53	-2.35	65.18	68.20	-3.02

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Report Number :E2/2021/60037 Test Site :966 Chamber D
Operation Mode :802.11a / Band 3 Test Date :2021-06-15
Test Frequency :5700 MHz Temp./Humi. :21.4/66
Test Mode :BE CH HIGH Antenna Pol. :Vertical
EUT Pol :NB Plane Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5725.000	Peak	66.06	-1.98	64.08	68.20	-4.12
5726.120	Peak	67.31	-2.04	65.28	68.20	-2.92

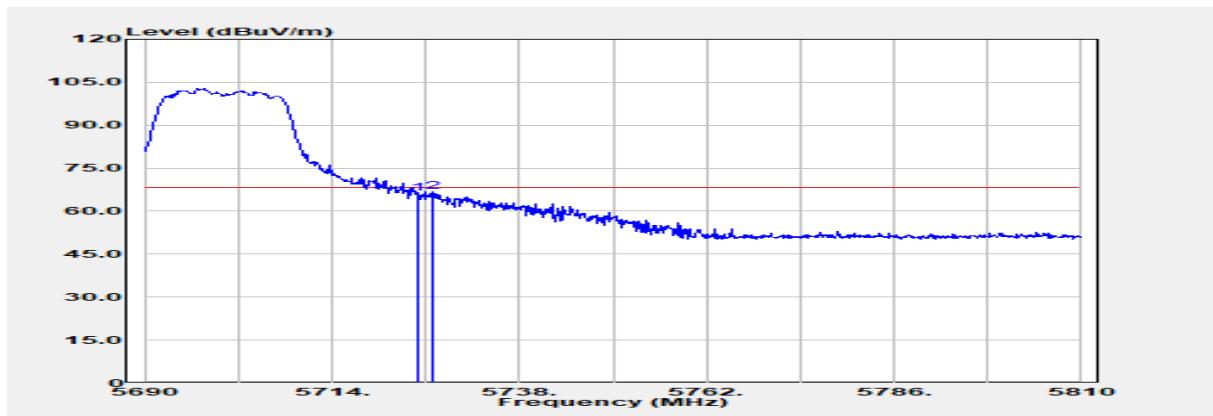
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Report Number :E2/2021/60037
Operation Mode :802.11a / Band 3
Test Frequency :5700 MHz
Test Mode :BE CH HIGH
EUT Pol :NB Plane

Test Site :966 Chamber D
Test Date :2021-06-15
Temp./Humi. :21.4/66
Antenna Pol. :Horizontal
Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5725.000	Peak	68.16	-1.98	66.18	68.20	-2.02
5726.960	Peak	68.97	-2.09	66.88	68.20	-1.32

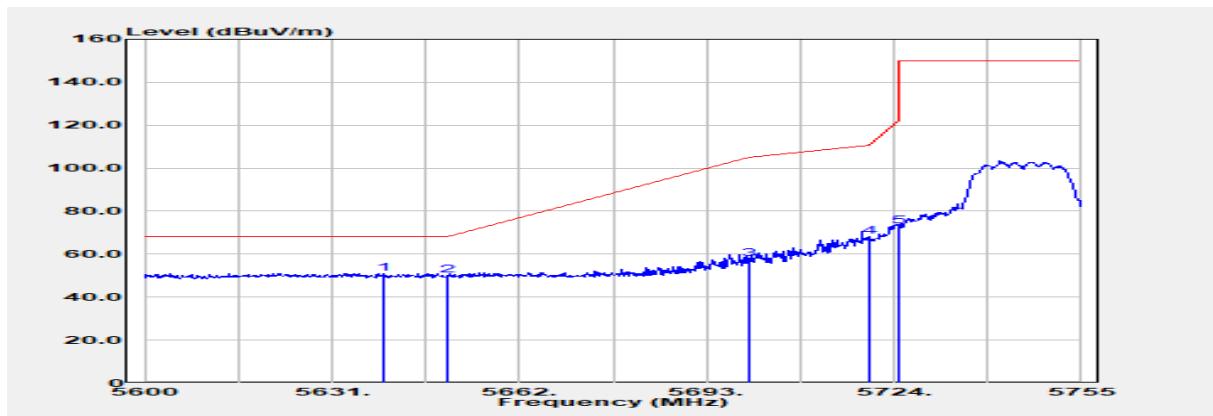
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Report Number :E2/2021/60037
Operation Mode :802.11a / Band 4
Test Frequency :5745 MHz
Test Mode :BE CH LOW
EUT Pol :NB Plane

Test Site :966 Chamber D
Test Date :2021-06-15
Temp./Humi. :21.4/66
Antenna Pol. :Vertical
Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5639.680	Peak	53.23	-2.15	51.09	68.20	-17.11
5650.000	Peak	52.28	-2.00	50.28	68.20	-17.92
5700.000	Peak	59.84	-2.17	57.67	105.20	-47.53
5720.000	Peak	69.75	-1.70	68.06	110.80	-42.74
5725.000	Peak	74.90	-1.98	72.93	122.20	-49.27

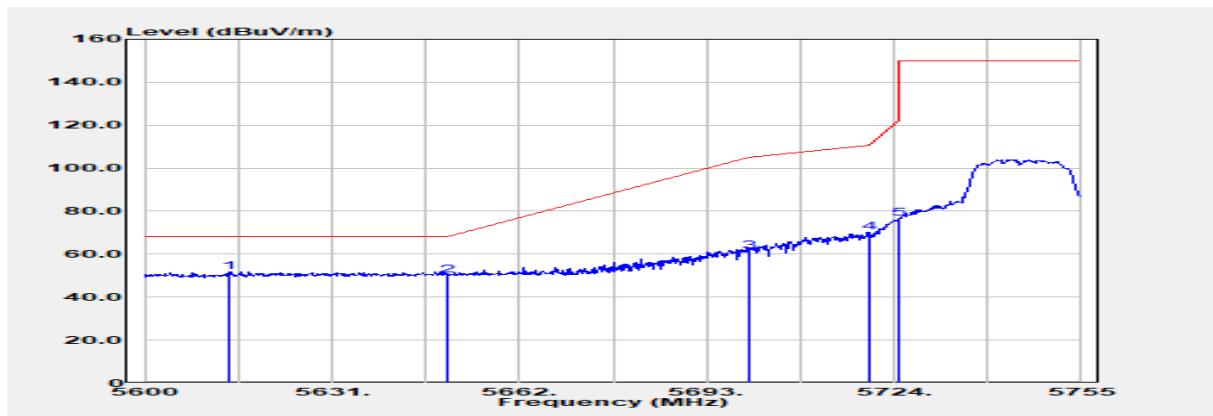
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Report Number :E2/2021/60037
 Operation Mode :802.11a / Band 4
 Test Frequency :5745 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane

Test Site :966 Chamber D
 Test Date :2021-06-15
 Temp./Humi. :21.4/66
 Antenna Pol. :Horizontal
 Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5613.795	Peak	54.13	-2.22	51.91	68.20	-16.29
5650.000	Peak	52.32	-2.00	50.32	68.20	-17.88
5700.000	Peak	63.72	-2.17	61.55	105.20	-43.65
5720.000	Peak	71.79	-1.70	70.09	110.80	-40.71
5725.000	Peak	78.50	-1.98	76.53	122.20	-45.67

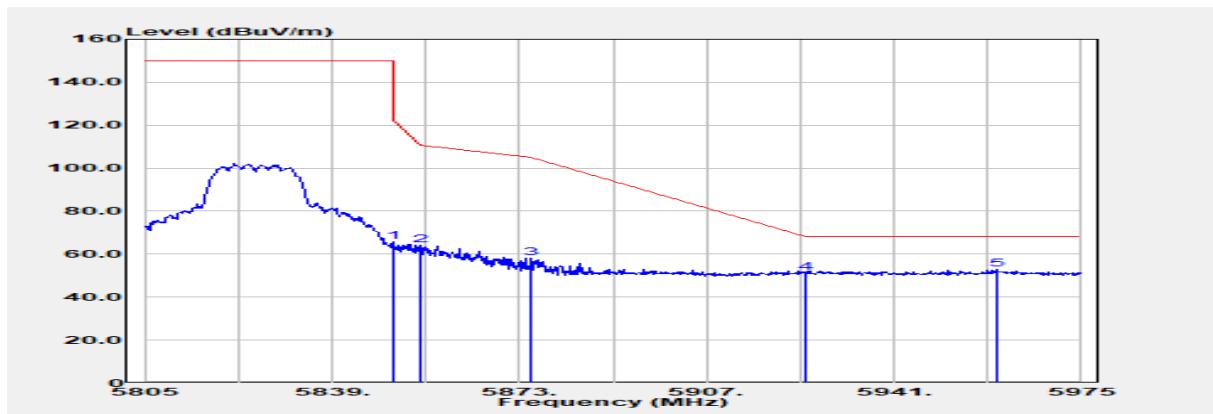
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Report Number :E2/2021/60037
 Operation Mode :802.11a / Band 4
 Test Frequency :5825 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane

Test Site :966 Chamber D
 Test Date :2021-06-15
 Temp./Humi. :21.4/66
 Antenna Pol. :Vertical
 Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5850.000	Peak	67.40	-1.57	65.83	122.20	-56.37
5855.000	Peak	65.44	-1.42	64.02	110.80	-46.78
5875.000	Peak	59.43	-1.42	58.01	105.20	-47.19
5925.000	Peak	52.45	-0.99	51.46	68.20	-16.74
5959.530	Peak	53.58	-0.74	52.84	68.20	-15.36

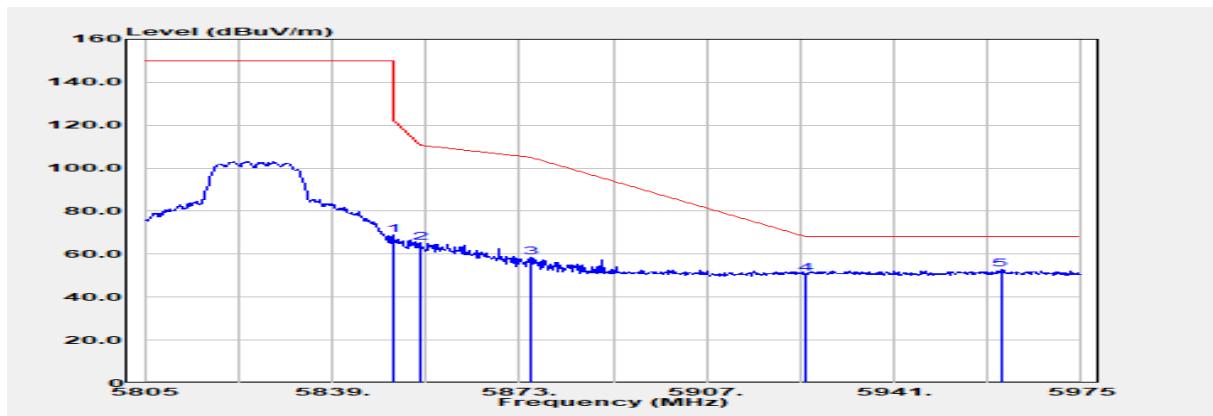
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Report Number :E2/2021/60037
Operation Mode :802.11a / Band 4
Test Frequency :5825 MHz
Test Mode :BE CH HIGH
EUT Pol :NB Plane

Test Site :966 Chamber D
Test Date :2021-06-15
Temp./Humi. :21.4/66
Antenna Pol. :Horizontal
Engineer :Jack Tseng



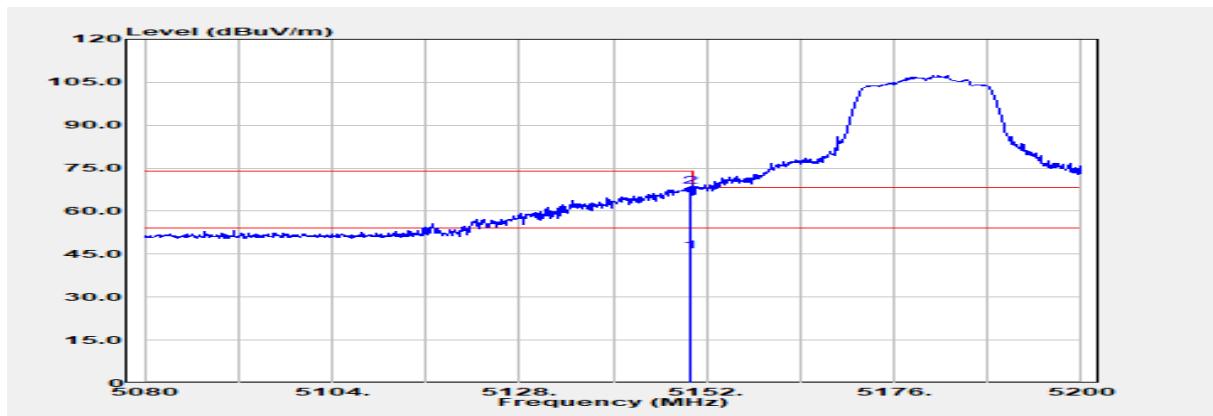
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5850.000	Peak	70.43	-1.57	68.86	122.20	-53.34
5855.000	Peak	66.88	-1.42	65.46	110.80	-45.34
5875.000	Peak	59.86	-1.42	58.43	105.20	-46.77
5925.000	Peak	51.88	-0.99	50.89	68.20	-17.31
5960.380	Peak	53.59	-0.74	52.85	68.20	-15.35

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Report Number :E2/2021/60037 Test Site :966 Chamber D
Operation Mode :802.11ac20 / Band 1 Test Date :2021-06-15
Test Frequency :5180 MHz Temp./Humi. :21.6/63
Test Mode :BE CH LOW Antenna Pol. :Vertical
EUT Pol :NB Plane Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5150.000	Average	48.49	-2.43	46.06	54.00	-7.94
5150.000	Peak	70.96	-2.43	68.53	74.00	-5.47

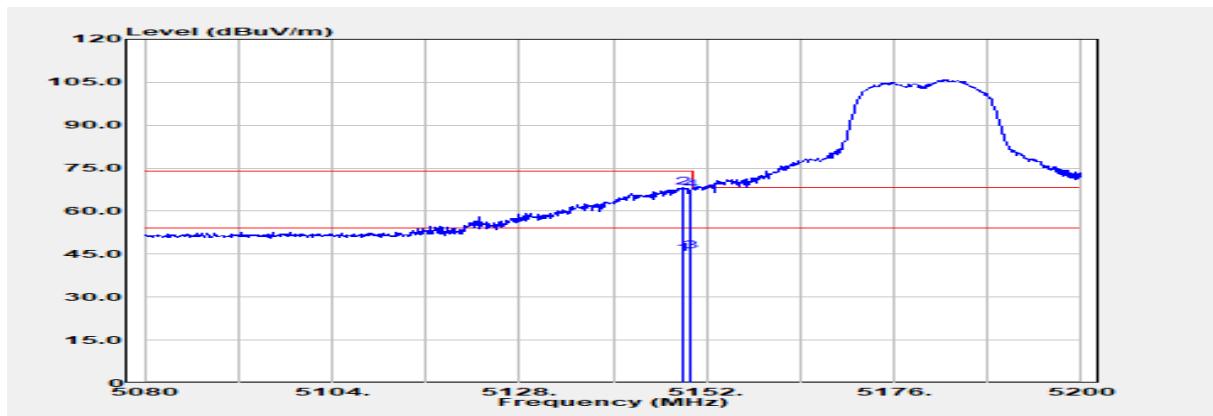
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Report Number :E2/2021/60037
Operation Mode :802.11ac20 / Band 1
Test Frequency :5180 MHz
Test Mode :BE CH LOW
EUT Pol :NB Plane

Test Site :966 Chamber D
Test Date :2021-06-15
Temp./Humi. :21.6/63
Antenna Pol. :Horizontal
Engineer :Jack Tseng



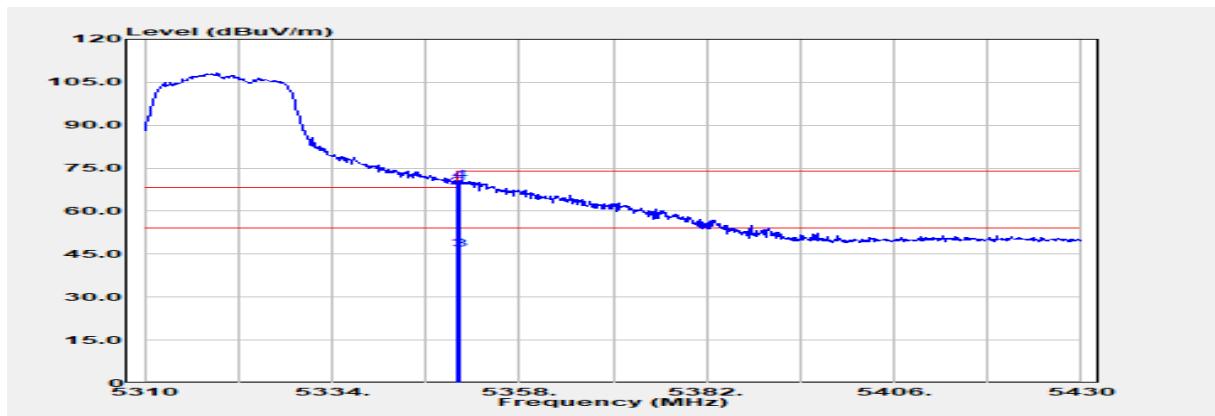
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5148.880	Average	47.58	-2.41	45.17	54.00	-8.83
5148.880	Peak	70.67	-2.41	68.26	74.00	-5.74
5150.000	Average	48.54	-2.43	46.11	54.00	-7.89
5150.000	Peak	69.89	-2.43	67.46	74.00	-6.54

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Report Number :E2/2021/60037 Test Site :966 Chamber D
Operation Mode :802.11ac20 / Band 2 Test Date :2021-06-15
Test Frequency :5320 MHz Temp./Humi. :21.6/63
Test Mode :BE CH HIGH Antenna Pol. :Vertical
EUT Pol :NB Plane Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5350.000	Average	49.83	-2.76	47.06	54.00	-6.94
5350.000	Peak	70.97	-2.76	68.21	74.00	-5.79
5350.320	Average	49.51	-2.78	46.73	54.00	-7.27
5350.320	Peak	73.35	-2.78	70.58	74.00	-3.43

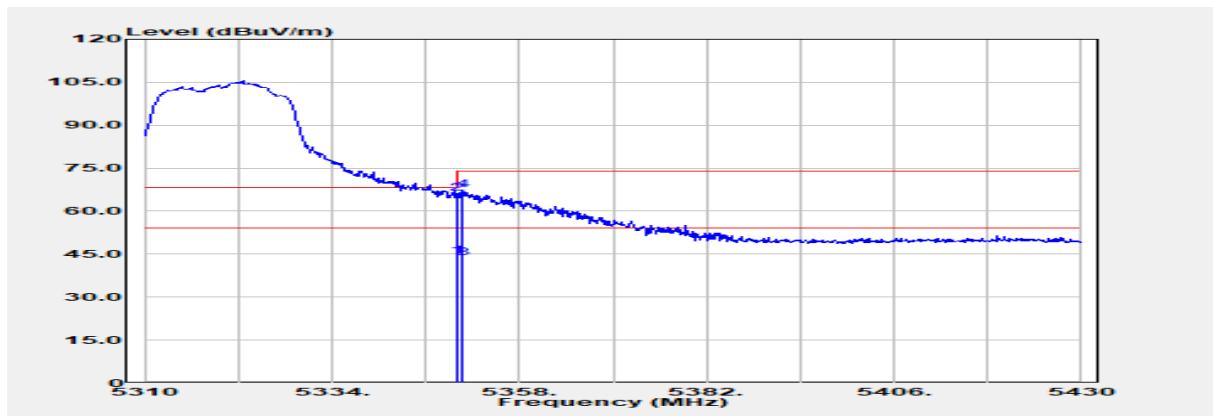
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Report Number :E2/2021/60037
Operation Mode :802.11ac20 / Band 2
Test Frequency :5320 MHz
Test Mode :BE CH HIGH
EUT Pol :NB Plane

Test Site :966 Chamber D
Test Date :2021-06-15
Temp./Humi. :21.6/63
Antenna Pol. :Horizontal
Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5350.000	Average	46.87	-2.76	44.11	54.00	-9.89
5350.000	Peak	69.01	-2.76	66.25	74.00	-7.75
5350.560	Average	46.38	-2.79	43.59	54.00	-10.41
5350.560	Peak	70.04	-2.79	67.26	74.00	-6.74

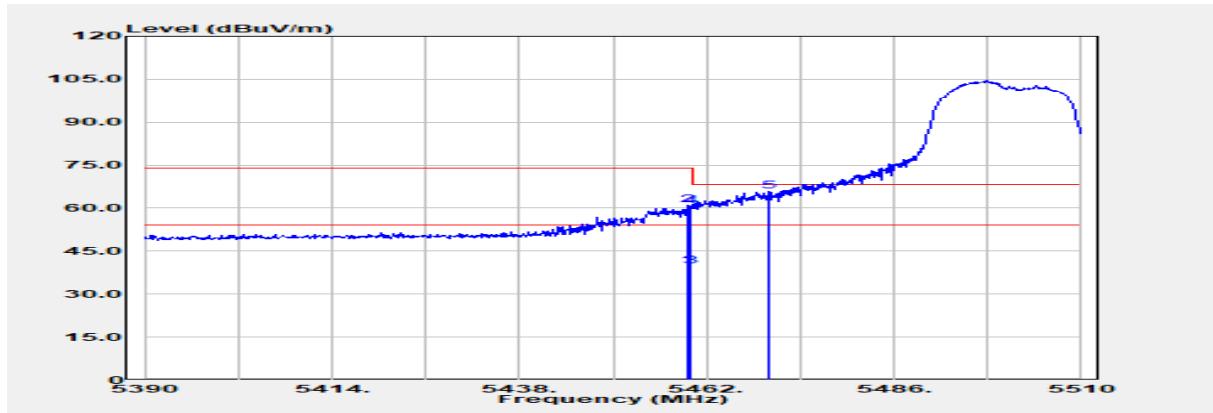
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Report Number :E2/2021/60037
 Operation Mode :802.11ac20 / Band 3
 Test Frequency :5500 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane

Test Site :966 Chamber D
 Test Date :2021-06-15
 Temp./Humi. :21.6/63
 Antenna Pol. :Vertical
 Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5459.600	Average	41.86	-2.19	39.67	54.00	-14.33
5459.600	Peak	63.28	-2.19	61.09	74.00	-12.91
5460.000	Average	41.98	-2.18	39.80	54.00	-14.20
5460.000	Peak	62.78	-2.18	60.60	74.00	-13.40
5470.000	Peak	68.33	-2.35	65.99	68.20	-2.21

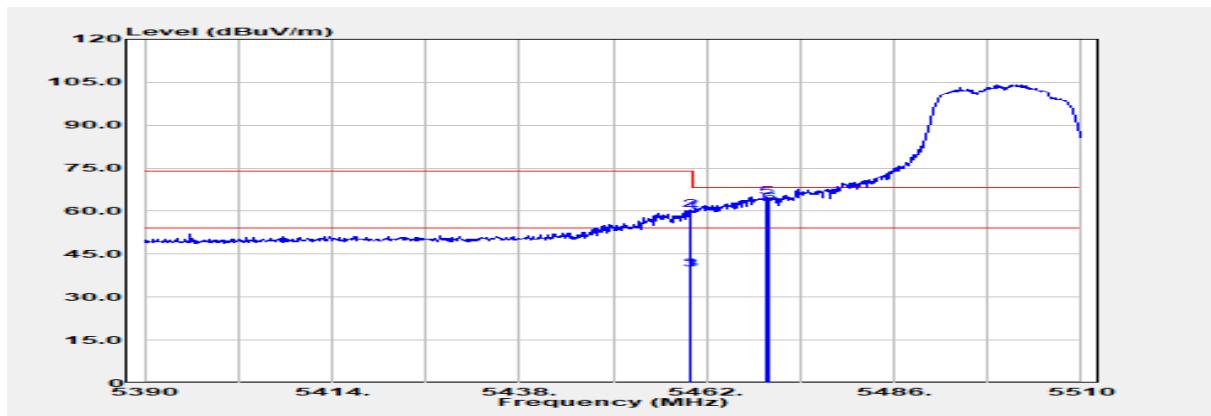
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Report Number :E2/2021/60037
Operation Mode :802.11ac20 / Band 3
Test Frequency :5500 MHz
Test Mode :BE CH LOW
EUT Pol :NB Plane

Test Site :966 Chamber D
Test Date :2021-06-15
Temp./Humi. :21.6/63
Antenna Pol. :Horizontal
Engineer :Jack Tseng



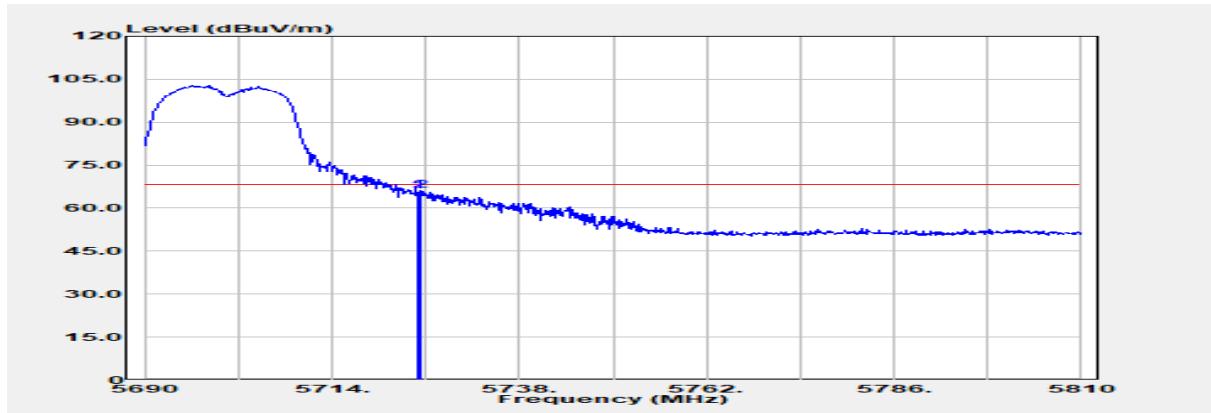
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5459.840	Average	41.74	-2.19	39.56	54.00	-14.44
5459.840	Peak	62.60	-2.19	60.41	74.00	-13.59
5460.000	Average	41.81	-2.18	39.63	54.00	-14.37
5460.000	Peak	62.04	-2.18	59.86	74.00	-14.14
5469.680	Peak	67.41	-2.34	65.07	68.20	-3.13
5470.000	Peak	65.35	-2.35	63.01	68.20	-5.19

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Report Number :E2/2021/60037 Test Site :966 Chamber D
Operation Mode :802.11ac20 / Band 3 Test Date :2021-06-15
Test Frequency :5700 MHz Temp./Humi. :21.6/63
Test Mode :BE CH HIGH Antenna Pol. :Vertical
EUT Pol :NB Plane Engineer :Jack Tseng



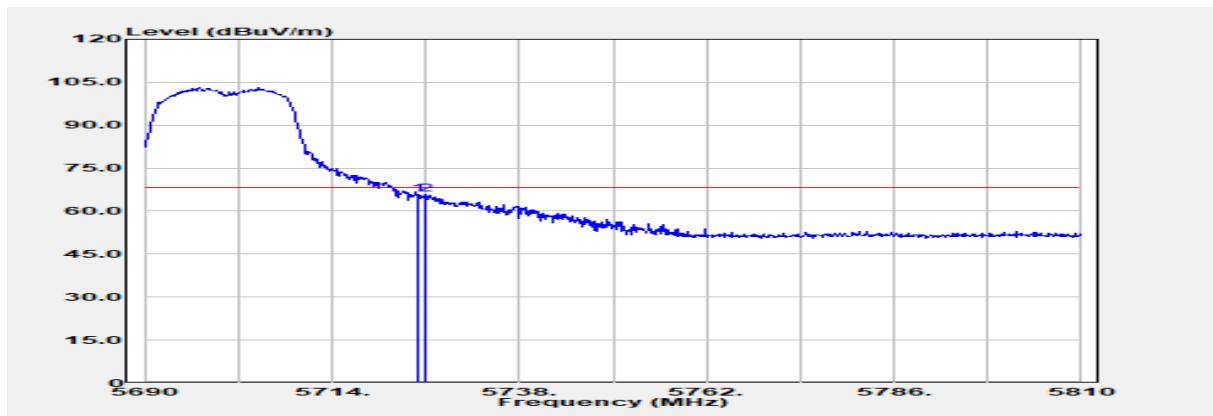
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5725.000	Peak	67.91	-1.98	65.94	68.20	-2.26
5725.280	Peak	68.07	-1.99	66.08	68.20	-2.12

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Report Number :E2/2021/60037 Test Site :966 Chamber D
Operation Mode :802.11ac20 / Band 3 Test Date :2021-06-15
Test Frequency :5700 MHz Temp./Humi. :21.6/63
Test Mode :BE CH HIGH Antenna Pol. :Horizontal
EUT Pol :NB Plane Engineer :Jack Tseng



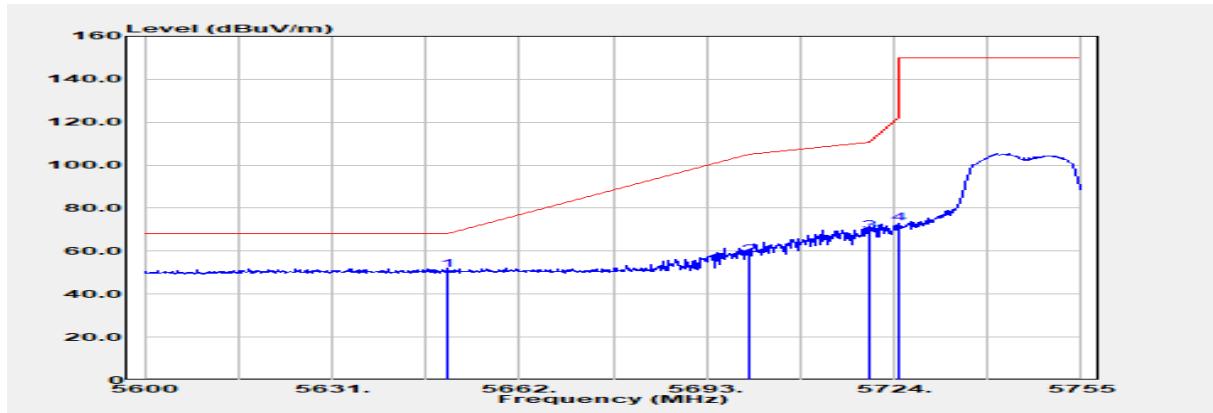
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5725.000	Peak	67.76	-1.98	65.78	68.20	-2.42
5725.880	Peak	67.86	-2.02	65.83	68.20	-2.37

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Report Number :E2/2021/60037 Test Site :966 Chamber D
 Operation Mode :802.11ac20 / Band 4 Test Date :2021-06-15
 Test Frequency :5745 MHz Temp./Humi. :21.6/63
 Test Mode :BE CH LOW Antenna Pol. :Vertical
 EUT Pol :NB Plane Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5650.000	Peak	53.26	-2.00	51.26	68.20	-16.94
5700.000	Peak	60.29	-2.17	58.13	105.20	-47.07
5720.000	Peak	71.07	-1.70	69.37	110.80	-41.43
5725.000	Peak	74.77	-1.98	72.79	122.20	-49.41

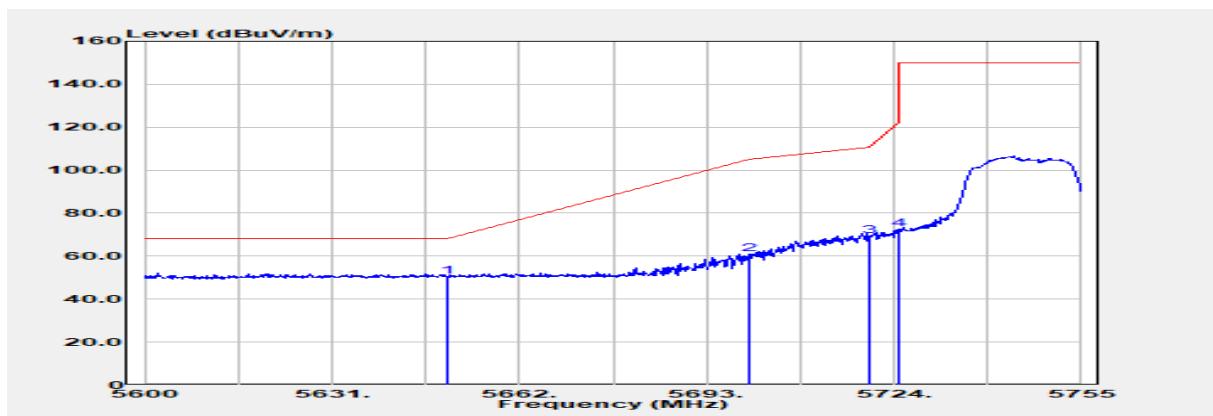
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Report Number :E2/2021/60037
 Operation Mode :802.11ac20 / Band 4
 Test Frequency :5745 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane

Test Site :966 Chamber D
 Test Date :2021-06-15
 Temp./Humi. :21.6/63
 Antenna Pol. :Horizontal
 Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5650.000	Peak	52.61	-2.00	50.61	68.20	-17.59
5700.000	Peak	63.05	-2.17	60.88	105.20	-44.32
5720.000	Peak	71.14	-1.70	69.44	110.80	-41.36
5725.000	Peak	74.44	-1.98	72.47	122.20	-49.73

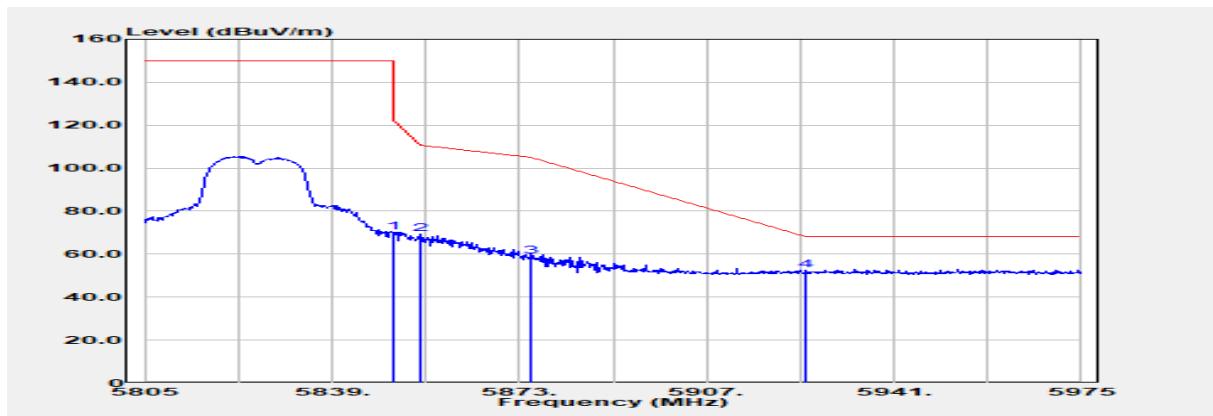
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Report Number :E2/2021/60037
Operation Mode :802.11ac20 / Band 4
Test Frequency :5825 MHz
Test Mode :BE CH HIGH
EUT Pol :NB Plane

Test Site :966 Chamber D
Test Date :2021-06-15
Temp./Humi. :21.6/63
Antenna Pol. :Vertical
Engineer :Jack Tseng



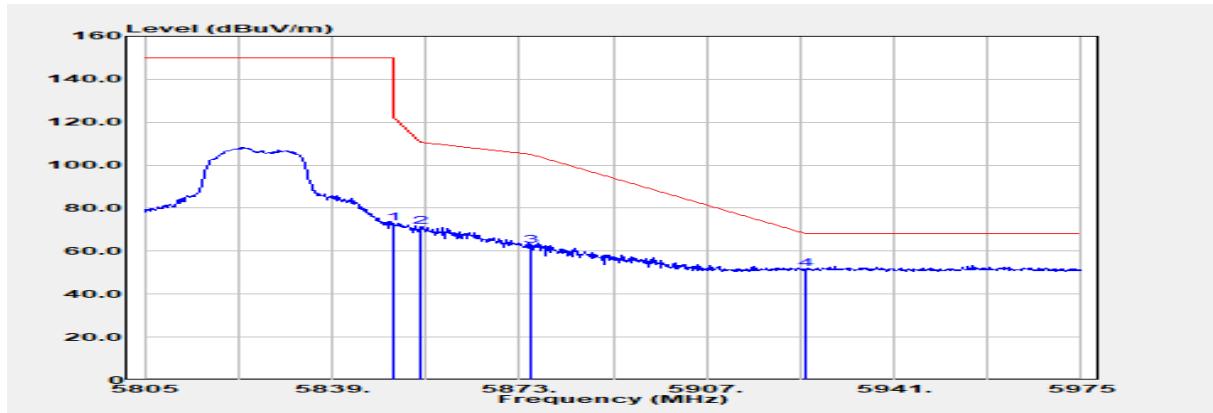
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5850.000	Peak	71.73	-1.57	70.16	122.20	-52.04
5855.000	Peak	70.97	-1.42	69.55	110.80	-41.25
5875.000	Peak	60.26	-1.42	58.84	105.20	-46.36
5925.000	Peak	53.34	-0.99	52.35	68.20	-15.85

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Report Number :E2/2021/60037 Test Site :966 Chamber D
 Operation Mode :802.11ac20 / Band 4 Test Date :2021-06-15
 Test Frequency :5825 MHz Temp./Humi. :21.6/63
 Test Mode :BE CH HIGH Antenna Pol. :Horizontal
 EUT Pol :NB Plane Engineer :Jack Tseng



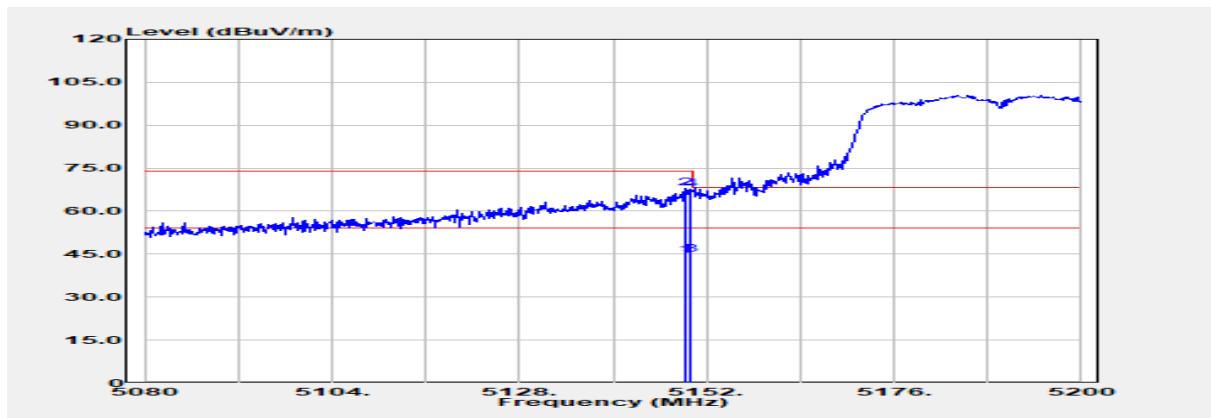
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5850.000	Peak	74.45	-1.57	72.88	122.20	-49.32
5855.000	Peak	72.98	-1.42	71.56	110.80	-39.24
5875.000	Peak	64.09	-1.42	62.67	105.20	-42.53
5925.000	Peak	52.68	-0.99	51.69	68.20	-16.51

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Report Number :E2/2021/60037 Test Site :966 Chamber D
Operation Mode :802.11ac40 / Band 1 Test Date :2021-06-15
Test Frequency :5190 MHz Temp./Humi. :21.2/61
Test Mode :BE CH LOW Antenna Pol. :Vertical
EUT Pol :NB Plane Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5149.360	Average	46.97	-2.42	44.55	54.00	-9.45
5149.360	Peak	70.28	-2.42	67.86	74.00	-6.14
5150.000	Average	47.38	-2.43	44.95	54.00	-9.05
5150.000	Peak	70.00	-2.43	67.58	74.00	-6.42

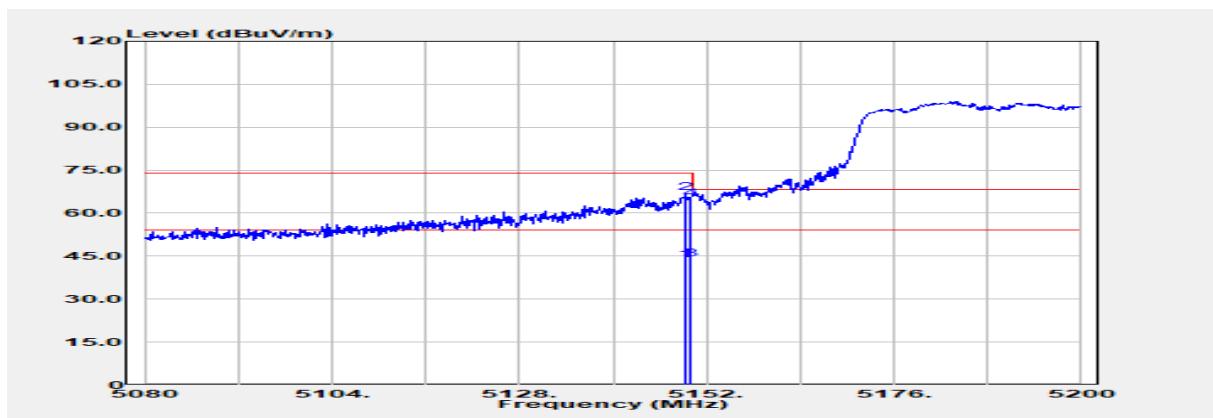
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Report Number :E2/2021/60037
Operation Mode :802.11ac40 / Band 1
Test Frequency :5190 MHz
Test Mode :BE CH LOW
EUT Pol :NB Plane

Test Site :966 Chamber D
Test Date :2021-06-15
Temp./Humi. :21.2/61
Antenna Pol. :Horizontal
Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5149.240	Average	46.08	-2.42	43.66	54.00	-10.34
5149.240	Peak	69.38	-2.42	66.96	74.00	-7.04
5150.000	Average	46.22	-2.43	43.79	54.00	-10.21
5150.000	Peak	67.47	-2.43	65.04	74.00	-8.96

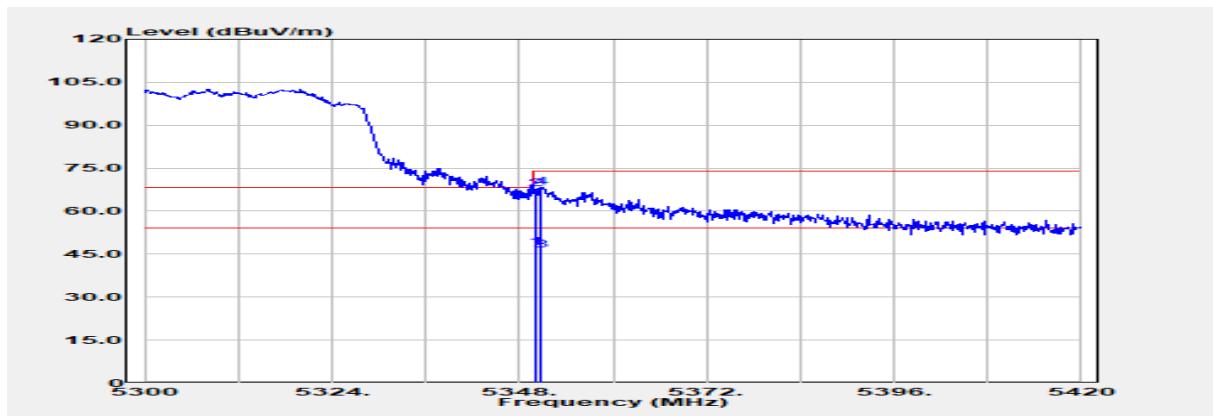
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Report Number :E2/2021/60037
Operation Mode :802.11ac40 / Band 2
Test Frequency :5310 MHz
Test Mode :BE CH HIGH
EUT Pol :NB Plane

Test Site :966 Chamber D
Test Date :2021-06-15
Temp./Humi. :21.2/61
Antenna Pol. :Vertical
Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5350.000	Average	49.93	-2.76	47.16	54.00	-6.84
5350.000	Peak	70.57	-2.76	67.81	74.00	-6.19
5350.640	Average	49.04	-2.79	46.25	54.00	-7.75
5350.640	Peak	71.04	-2.79	68.25	74.00	-5.75

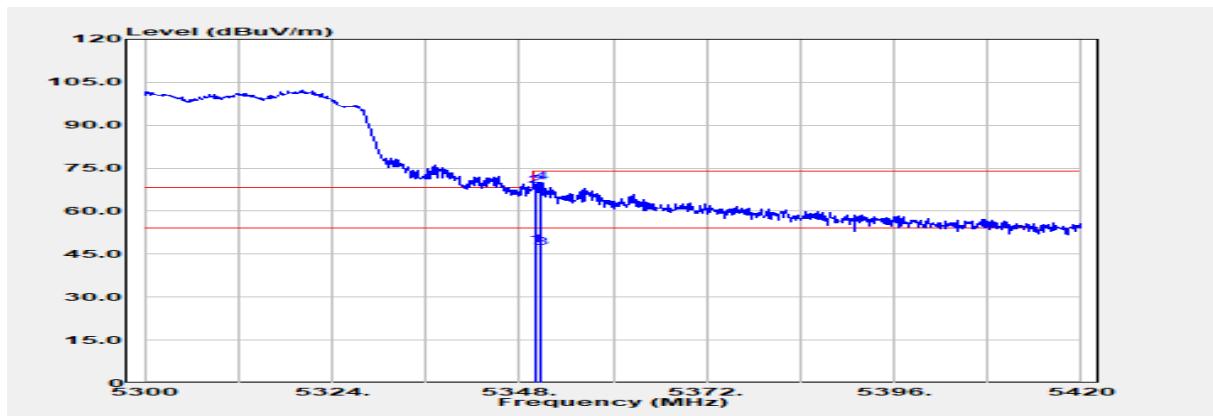
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Report Number :E2/2021/60037
Operation Mode :802.11ac40 / Band 2
Test Frequency :5310 MHz
Test Mode :BE CH HIGH
EUT Pol :NB Plane

Test Site :966 Chamber D
Test Date :2021-06-15
Temp./Humi. :21.2/61
Antenna Pol. :Horizontal
Engineer :Jack Tseng



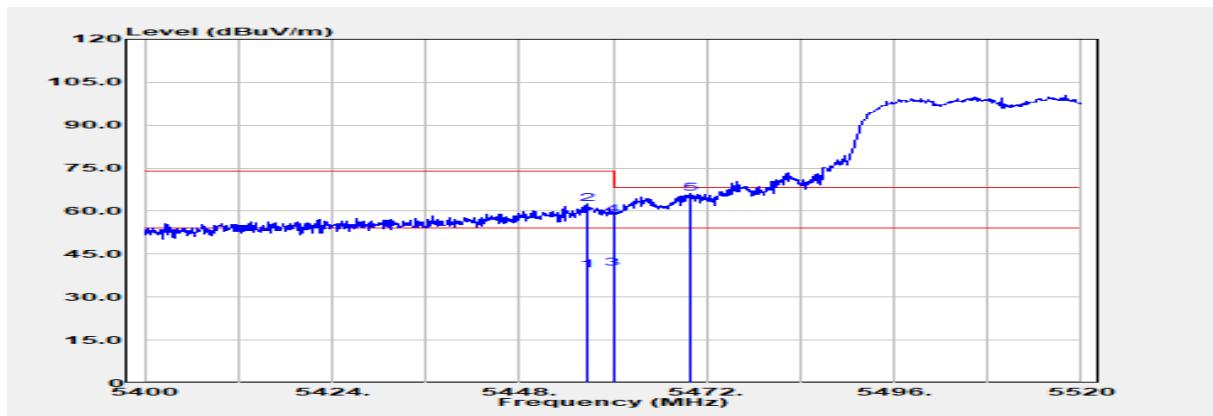
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5350.000	Average	50.77	-2.76	48.01	54.00	-5.99
5350.000	Peak	71.55	-2.76	68.79	74.00	-5.21
5350.880	Average	49.88	-2.80	47.08	54.00	-6.92
5350.880	Peak	72.92	-2.80	70.12	74.00	-3.88

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Report Number :E2/2021/60037 Test Site :966 Chamber D
 Operation Mode :802.11ac40 / Band 3 Test Date :2021-06-15
 Test Frequency :5510 MHz Temp./Humi. :21.2/61
 Test Mode :BE CH LOW Antenna Pol. :Vertical
 EUT Pol :NB Plane Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5456.640	Average	41.70	-2.26	39.44	54.00	-14.56
5456.640	Peak	64.77	-2.26	62.51	74.00	-11.49
5460.000	Average	42.11	-2.18	39.93	54.00	-14.07
5460.000	Peak	60.82	-2.18	58.63	74.00	-15.37
5470.000	Peak	68.47	-2.35	66.12	68.20	-2.08

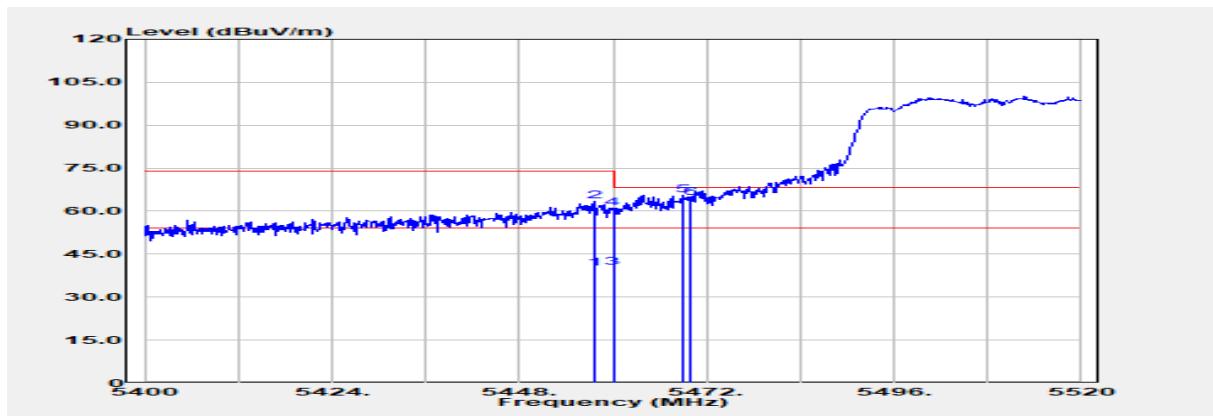
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Report Number :E2/2021/60037
 Operation Mode :802.11ac40 / Band 3
 Test Frequency :5510 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane

Test Site :966 Chamber D
 Test Date :2021-06-15
 Temp./Humi. :21.2/61
 Antenna Pol. :Horizontal
 Engineer :Jack Tseng



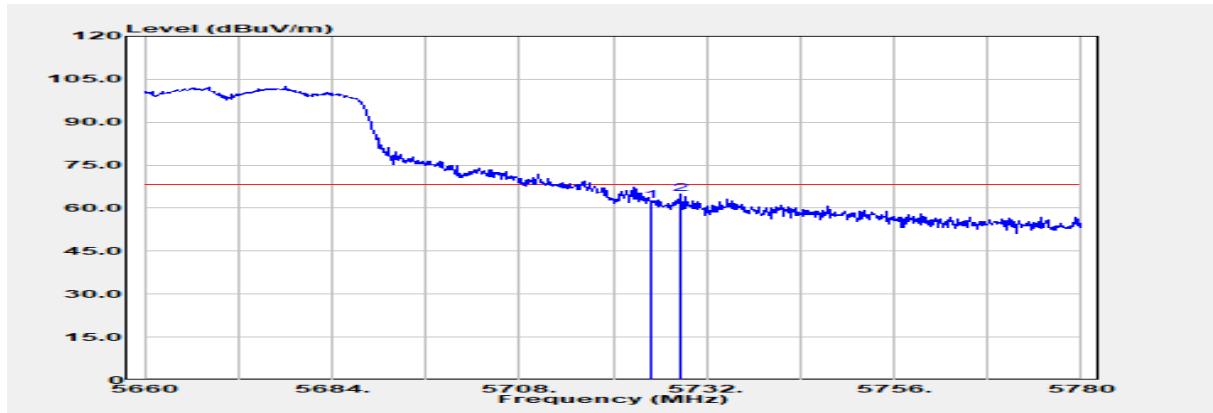
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5457.600	Average	42.35	-2.24	40.11	54.00	-13.89
5457.600	Peak	65.60	-2.24	63.36	74.00	-10.64
5460.000	Average	42.47	-2.18	40.28	54.00	-13.72
5460.000	Peak	63.22	-2.18	61.04	74.00	-12.96
5468.880	Peak	68.03	-2.33	65.70	68.20	-2.50
5470.000	Peak	67.03	-2.35	64.68	68.20	-3.52

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Report Number :E2/2021/60037 Test Site :966 Chamber D
Operation Mode :802.11ac40 / Band 3 Test Date :2021-06-15
Test Frequency :5670 MHz Temp./Humi. :21.2/61
Test Mode :BE CH HIGH Antenna Pol. :Vertical
EUT Pol :NB Plane Engineer :Jack Tseng



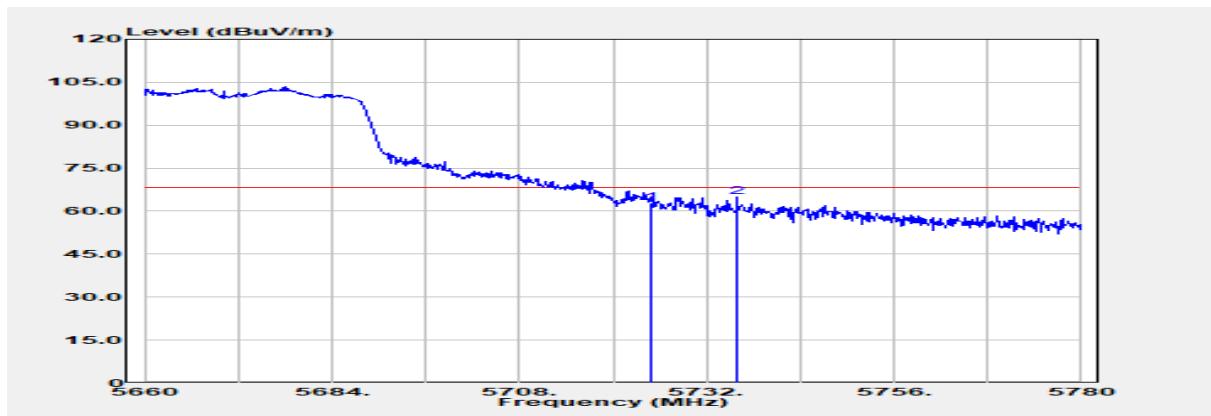
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5725.000	Peak	64.40	-1.98	62.42	68.20	-5.78
5728.520	Peak	67.19	-2.17	65.01	68.20	-3.19

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Report Number :E2/2021/60037 Test Site :966 Chamber D
 Operation Mode :802.11ac40 / Band 3 Test Date :2021-06-15
 Test Frequency :5670 MHz Temp./Humi. :21.2/61
 Test Mode :BE CH HIGH Antenna Pol. :Horizontal
 EUT Pol :NB Plane Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5725.000	Peak	64.91	-1.98	62.93	68.20	-5.27
5735.840	Peak	66.84	-1.83	65.01	68.20	-3.19

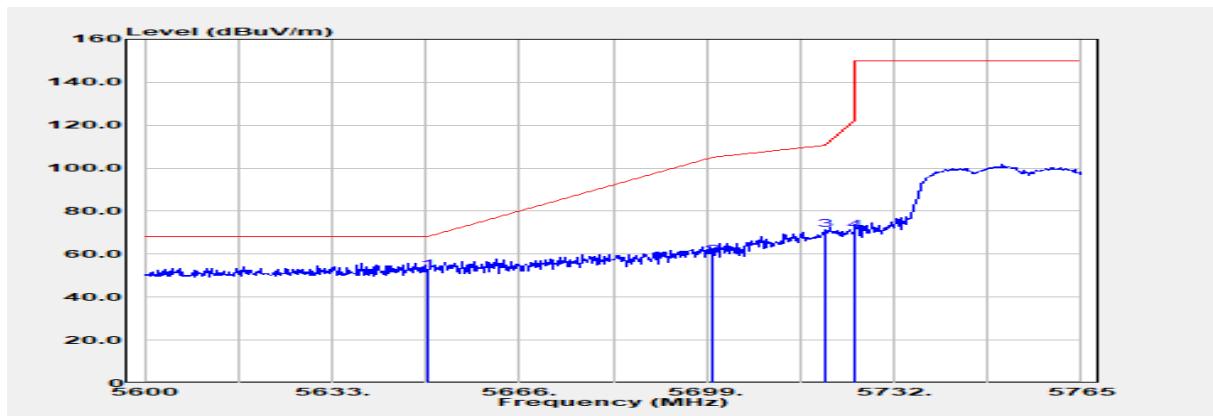
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Report Number :E2/2021/60037
 Operation Mode :802.11ac40 / Band 4
 Test Frequency :5755 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane

Test Site :966 Chamber D
 Test Date :2021-06-15
 Temp./Humi. :21.2/61
 Antenna Pol. :Vertical
 Engineer :Jack Tseng



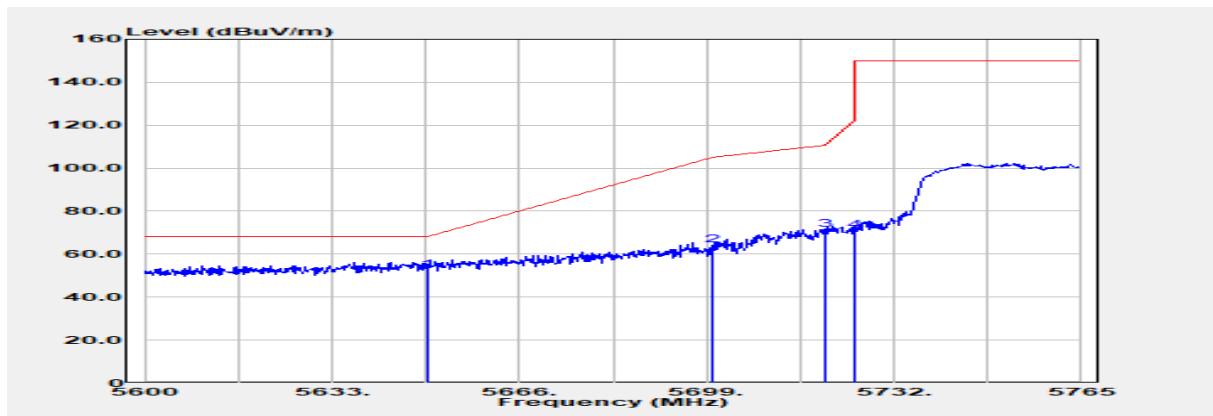
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5650.000	Peak	54.53	-2.00	52.53	68.20	-15.67
5700.000	Peak	61.48	-2.17	59.31	105.20	-45.89
5720.000	Peak	72.96	-1.70	71.26	110.80	-39.54
5725.000	Peak	72.80	-1.98	70.82	122.20	-51.38

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Report Number :E2/2021/60037 Test Site :966 Chamber D
 Operation Mode :802.11ac40 / Band 4 Test Date :2021-06-15
 Test Frequency :5755 MHz Temp./Humi. :21.2/61
 Test Mode :BE CH LOW Antenna Pol. :Horizontal
 EUT Pol :NB Plane Engineer :Jack Tseng



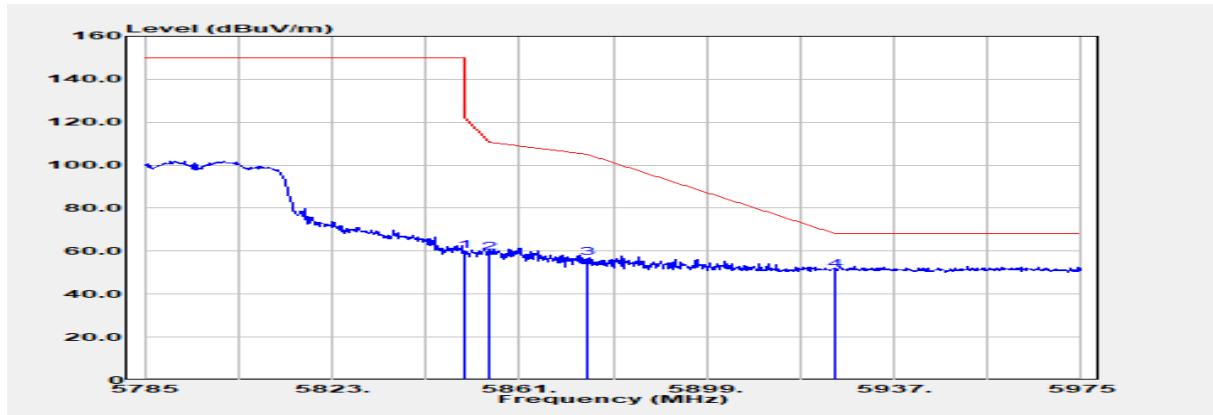
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _μ V	Factor dB	Actual FS dB _μ V/m	Limit @3m dB _μ V/m	Margin dB
5650.000	Peak	54.58	-2.00	52.58	68.20	-15.62
5700.000	Peak	66.26	-2.17	64.10	105.20	-41.10
5720.000	Peak	73.02	-1.70	71.32	110.80	-39.48
5725.000	Peak	73.01	-1.98	71.04	122.20	-51.16

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Report Number :E2/2021/60037 Test Site :966 Chamber D
 Operation Mode :802.11ac40 / Band 4 Test Date :2021-06-15
 Test Frequency :5795 MHz Temp./Humi. :21.2/61
 Test Mode :BE CH HIGH Antenna Pol. :Vertical
 EUT Pol :NB Plane Engineer :Jack Tseng



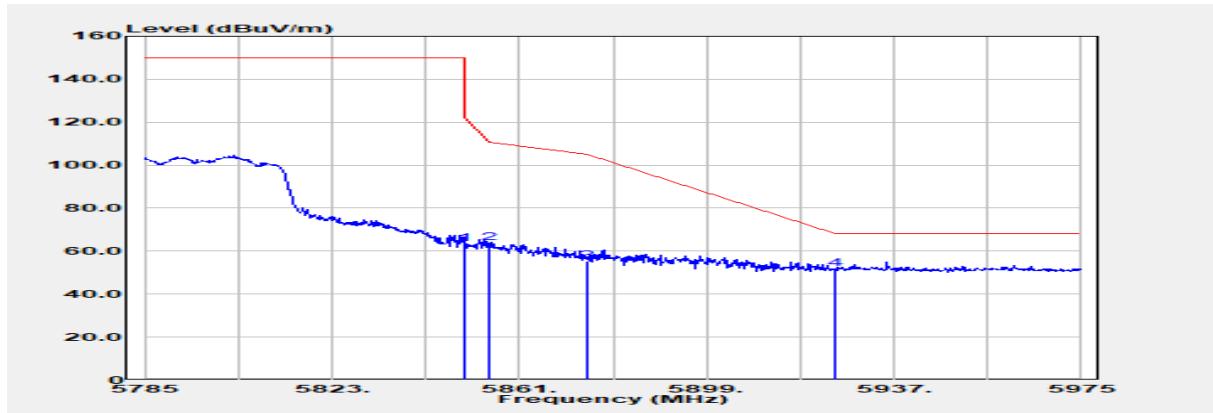
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5850.000	Peak	61.52	-1.57	59.95	122.20	-62.25
5855.000	Peak	60.66	-1.42	59.25	110.80	-51.55
5875.000	Peak	58.52	-1.42	57.10	105.20	-48.10
5925.000	Peak	52.44	-0.99	51.45	68.20	-16.75

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Report Number :E2/2021/60037 Test Site :966 Chamber D
 Operation Mode :802.11ac40 / Band 4 Test Date :2021-06-15
 Test Frequency :5795 MHz Temp./Humi. :21.2/61
 Test Mode :BE CH HIGH Antenna Pol. :Horizontal
 EUT Pol :NB Plane Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5850.000	Peak	65.10	-1.57	63.53	122.20	-58.67
5855.000	Peak	65.03	-1.42	63.61	110.80	-47.19
5875.000	Peak	56.63	-1.42	55.21	105.20	-49.99
5925.000	Peak	52.81	-0.99	51.82	68.20	-16.38

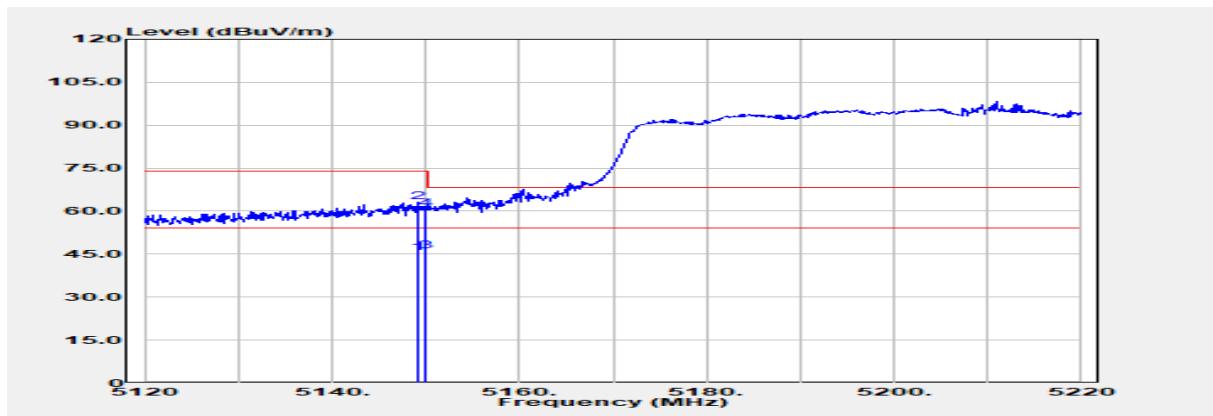
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Report Number :E2/2021/60037
 Operation Mode :802.11ac80 / Band 1
 Test Frequency :5210 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane

Test Site :966 Chamber D
 Test Date :2021-06-15
 Temp./Humi. :21.3/59
 Antenna Pol. :Vertical
 Engineer :Jack Tseng



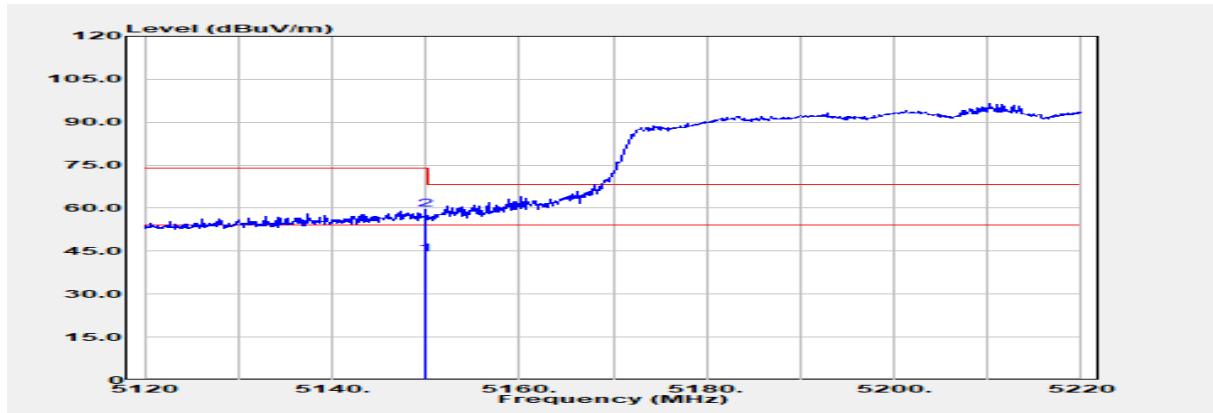
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5149.300	Average	47.98	-2.42	45.56	54.00	-8.44
5149.300	Peak	65.72	-2.42	63.30	74.00	-10.70
5150.000	Average	48.51	-2.43	46.08	54.00	-7.92
5150.000	Peak	63.30	-2.43	60.87	74.00	-13.13

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Report Number :E2/2021/60037 Test Site :966 Chamber D
Operation Mode :802.11ac80 / Band 1 Test Date :2021-06-15
Test Frequency :5210 MHz Temp./Humi. :21.3/59
Test Mode :BE CH LOW Antenna Pol. :Horizontal
EUT Pol :NB Plane Engineer :Jack Tseng



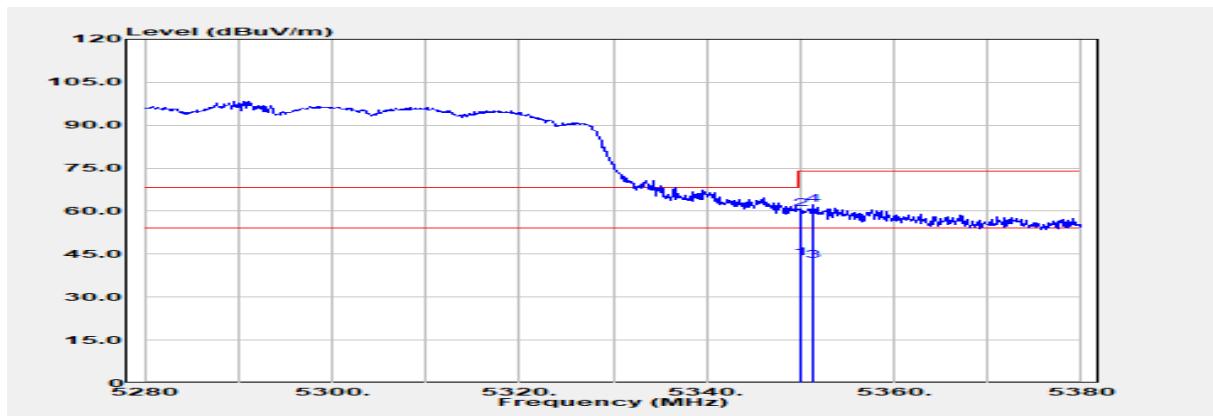
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5150.000	Average	46.25	-2.43	43.82	54.00	-10.18
5150.000	Peak	61.96	-2.43	59.53	74.00	-14.47

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Report Number :E2/2021/60037 Test Site :966 Chamber D
Operation Mode :802.11ac80 / Band 2 Test Date :2021-06-15
Test Frequency :5290 MHz Temp./Humi. :21.3/59
Test Mode :BE CH HIGH Antenna Pol. :Vertical
EUT Pol :NB Plane Engineer :Jack Tseng



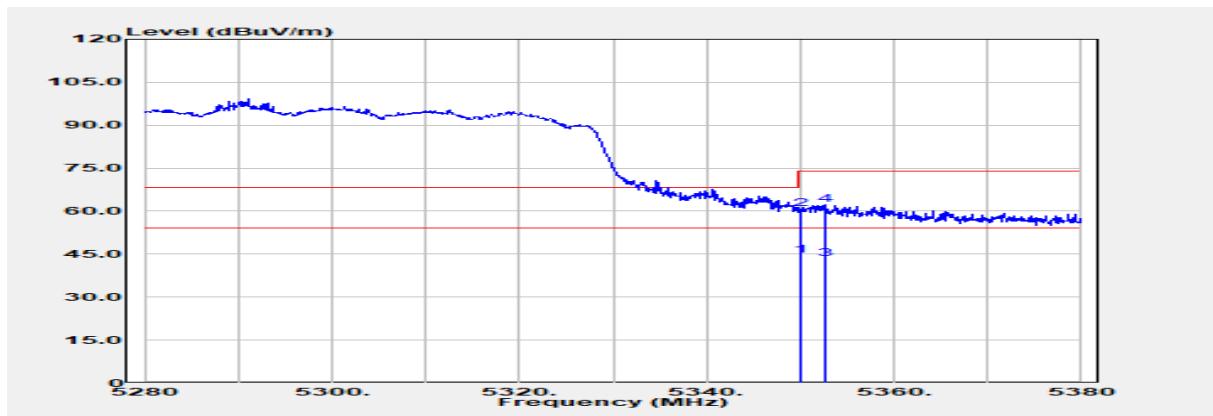
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5350.000	Average	46.52	-2.76	43.76	54.00	-10.24
5350.000	Peak	63.52	-2.76	60.76	74.00	-13.24
5351.400	Average	45.67	-2.82	42.85	54.00	-11.15
5351.400	Peak	65.05	-2.82	62.23	74.00	-11.77

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Report Number :E2/2021/60037 Test Site :966 Chamber D
Operation Mode :802.11ac80 / Band 2 Test Date :2021-06-15
Test Frequency :5290 MHz Temp./Humi. :21.3/59
Test Mode :BE CH HIGH Antenna Pol. :Horizontal
EUT Pol :NB Plane Engineer :Jack Tseng



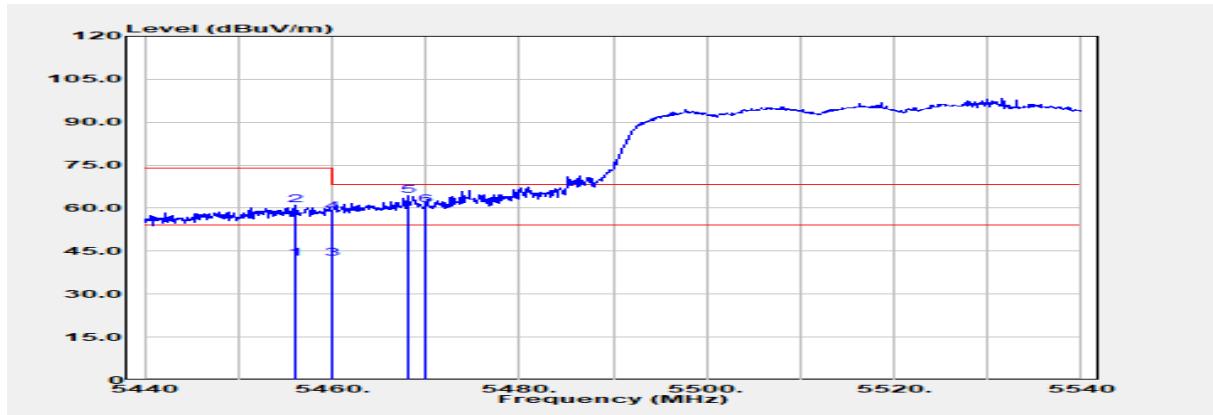
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5350.000	Average	47.25	-2.76	44.49	54.00	-9.51
5350.000	Peak	63.41	-2.76	60.65	74.00	-13.35
5352.600	Average	46.23	-2.88	43.36	54.00	-10.64
5352.600	Peak	65.20	-2.88	62.32	74.00	-11.68

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Report Number :E2/2021/60037 Test Site :966 Chamber D
Operation Mode :802.11ac80 / Band 3 Test Date :2021-06-15
Test Frequency :5530 MHz Temp./Humi. :21.3/59
Test Mode :BE CH LOW Antenna Pol. :Vertical
EUT Pol :NB Plane Engineer :Jack Tseng



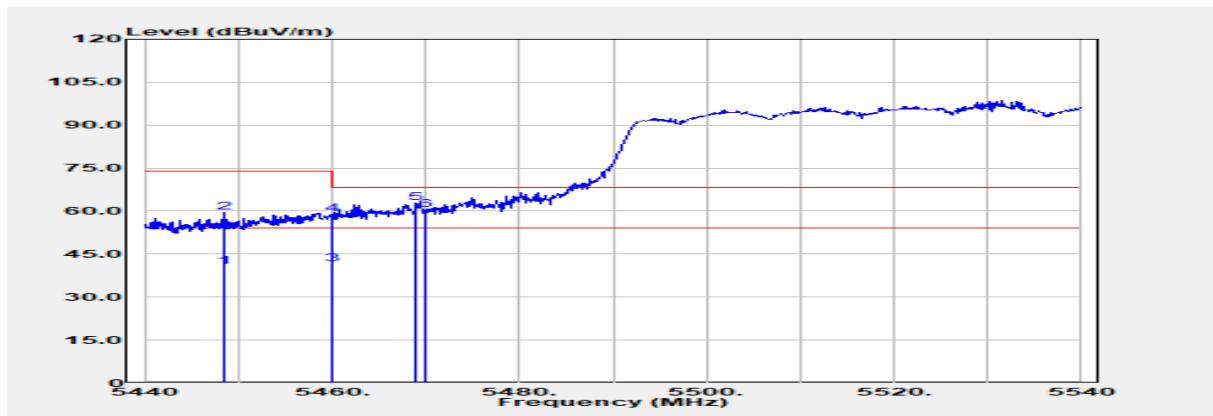
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5456.000	Average	44.55	-2.27	42.28	54.00	-11.72
5456.000	Peak	63.21	-2.27	60.93	74.00	-13.07
5460.000	Average	44.59	-2.18	42.40	54.00	-11.60
5460.000	Peak	60.76	-2.18	58.58	74.00	-15.42
5468.100	Peak	66.59	-2.32	64.28	68.20	-3.92
5470.000	Peak	63.33	-2.35	60.98	68.20	-7.22

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Report Number :E2/2021/60037 Test Site :966 Chamber D
 Operation Mode :802.11ac80 / Band 3 Test Date :2021-06-15
 Test Frequency :5530 MHz Temp./Humi. :21.3/59
 Test Mode :BE CH LOW Antenna Pol. :Horizontal
 EUT Pol :NB Plane Engineer :Jack Tseng



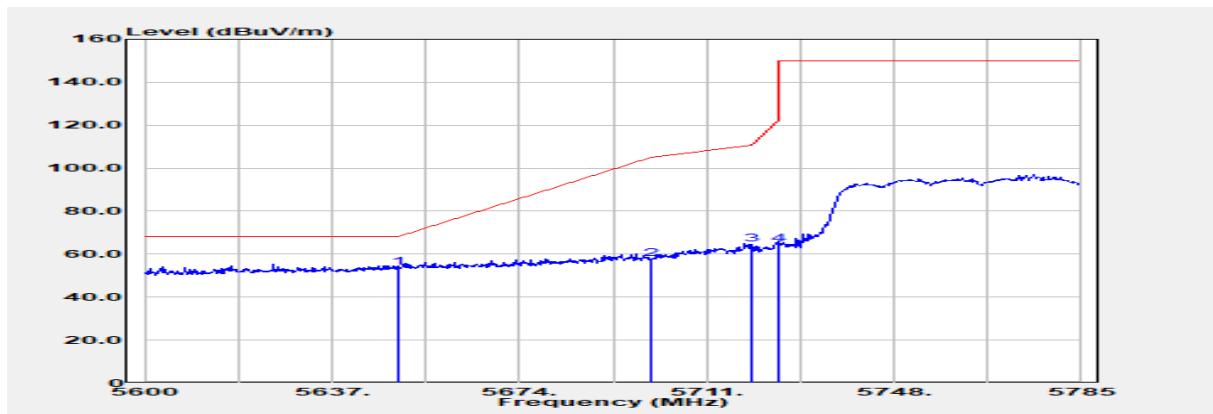
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5448.600	Average	43.06	-2.41	40.65	54.00	-13.35
5448.600	Peak	61.87	-2.41	59.46	74.00	-14.54
5460.000	Average	43.80	-2.18	41.61	54.00	-12.39
5460.000	Peak	61.20	-2.18	59.01	74.00	-14.99
5469.000	Peak	65.23	-2.33	62.90	68.20	-5.30
5470.000	Peak	62.79	-2.35	60.44	68.20	-7.76

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Report Number :E2/2021/60037
 Operation Mode :802.11ac80 / Band 4
 Test Frequency :5775 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane
 Test Site :966 Chamber D
 Test Date :2021-06-16
 Temp./Humi. :21.8/60
 Antenna Pol. :Vertical
 Engineer :Jack Tseng



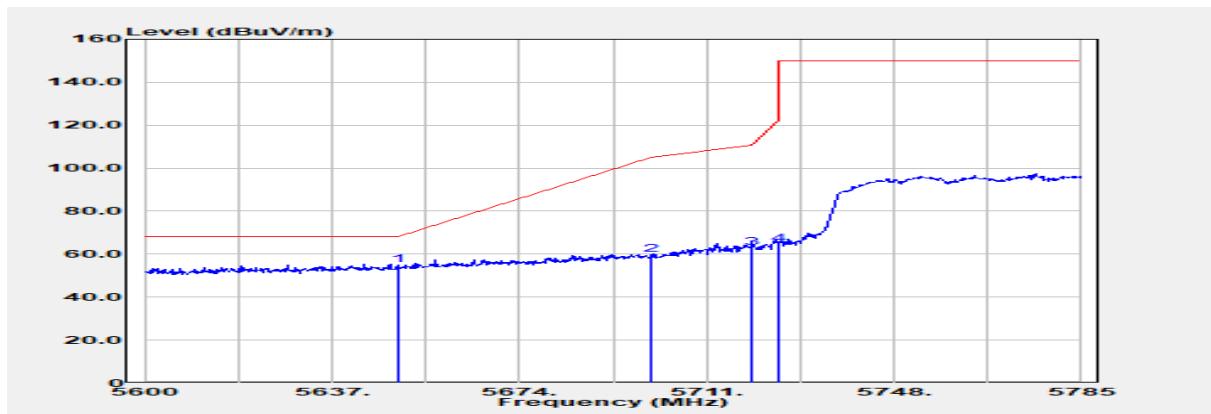
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5650.000	Peak	55.68	-2.00	53.68	68.20	-14.52
5700.000	Peak	59.97	-2.17	57.80	105.20	-47.40
5720.000	Peak	66.31	-1.70	64.62	110.80	-46.18
5725.000	Peak	66.46	-1.98	64.48	122.20	-57.72

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Report Number :E2/2021/60037
 Operation Mode :802.11ac80 / Band 4
 Test Frequency :5775 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane
 Test Site :966 Chamber D
 Test Date :2021-06-16
 Temp./Humi. :21.8/60
 Antenna Pol. :Horizontal
 Engineer :Jack Tseng



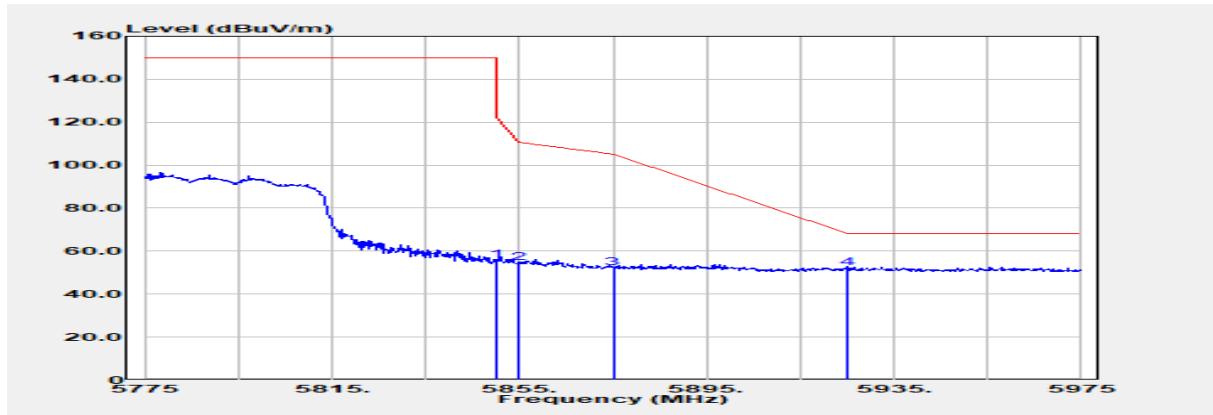
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5650.000	Peak	56.95	-2.00	54.95	68.20	-13.25
5700.000	Peak	61.82	-2.17	59.65	105.20	-45.55
5720.000	Peak	64.77	-1.70	63.07	110.80	-47.73
5725.000	Peak	66.70	-1.98	64.72	122.20	-57.48

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Report Number :E2/2021/60037 Test Site :966 Chamber D
 Operation Mode :802.11ac80 / Band 4 Test Date :2021-06-16
 Test Frequency :5775 MHz Temp./Humi. :21.8/60
 Test Mode :BE CH HIGH Antenna Pol. :Vertical
 EUT Pol :NB Plane Engineer :Jack Tseng



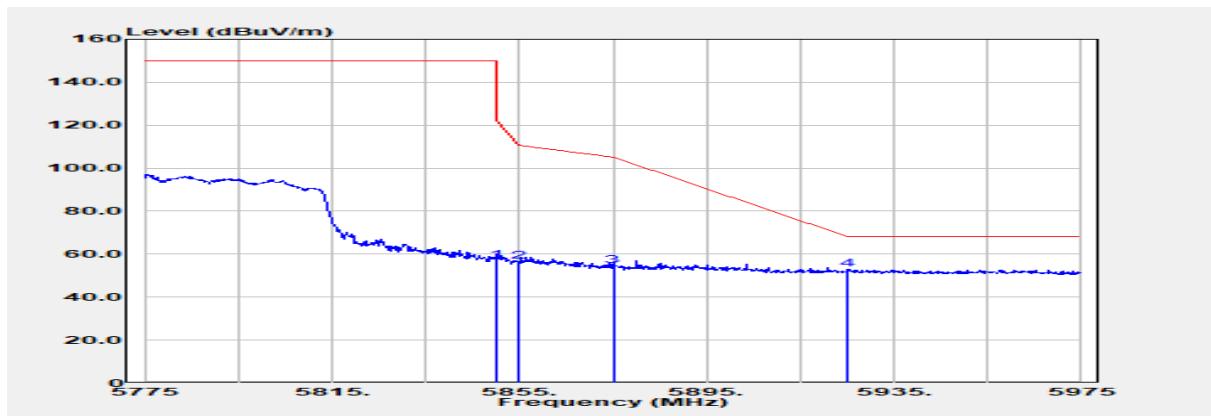
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _μ V	Factor dB	Actual FS dB _μ V/m	Limit @3m dB _μ V/m	Margin dB
5850.000	Peak	57.13	-1.57	55.56	122.20	-66.64
5855.000	Peak	56.09	-1.42	54.68	110.80	-56.12
5875.000	Peak	53.47	-1.42	52.05	105.20	-53.15
5925.000	Peak	53.12	-0.99	52.13	68.20	-16.07

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Report Number :E2/2021/60037
 Operation Mode :802.11ac80 / Band 4
 Test Frequency :5775 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane
 Test Site :966 Chamber D
 Test Date :2021-06-16
 Temp./Humi. :21.8/60
 Antenna Pol. :Horizontal
 Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5850.000	Peak	58.32	-1.57	56.75	122.20	-65.45
5855.000	Peak	57.98	-1.42	56.56	110.80	-54.24
5875.000	Peak	56.07	-1.42	54.65	105.20	-50.55
5925.000	Peak	53.96	-0.99	52.96	68.20	-15.24

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8 TRANSMISSION IN THE ABSENCE OF DATA

8.1 Standard Applicable

According to §15.407(c)

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

8.2 Result

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

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9 ANTENNA REQUIREMENT

9.1 Standard Applicable

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

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

9.2 Antenna Connected Construction

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

~ End of Report ~

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