

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT**CLASS II PC REPORT**

OF

Applicant: Acer Incorporated
8F,88, Sec. 1, Hsin Tai Wu Rd. Hsichih, Taipei Hsien Taiwan

Product Name: 7c Modular Platform

Brand Name: acer

Model No.: QSIP7180

Model Difference: N/A

Report Number: ER/2020/C0098

FCC ID HLZQSIP7180

FCC Rule Part: §15.407, Cat: NII

Issue Date: February 9, 2021

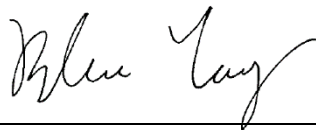
Date of Test: December 16, 2020 - February 2, 2021

Date of EUT Received: December 16, 2020

We hereby certify that:

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

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

Approved By:**Blue Yang / Asst. Manager**

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Revision History

Report Number	Revision	Description	Issue Date	Remark
ER/2020/C0098	Rev.00	Original.	February 9, 2021	Revised By: Elle Chang

Note:

1、Disclaimer

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

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1 GENERAL INFORMATION

1.1 Product Description

Product Name:	Notebook Computer
Brand Name:	<i>acer</i>
Model No. of Host:	N20Q8
Model Difference:	N/A
Hardware Version:	N/A
Software Version:	N/A
Model No. of WWAN/BT/WLAN Module:	QSIP7180
Class II Permissive change:	7c Modular Platform INSTALLED IN Notebook Computer
Power Supply:	11.25Vdc from Rechargeable Li-ion Battery or 5 / 9 / 12 / 15 / 20 Vdc from AC/DC Adapter
Transition Rate:	802.11 a: 6/9/12/18/24/36/48/54 Mbps 802.11 n_20MHz: 6.5 – 144.4Mbps 802.11 n_40MHz: 13.5 – 300.0Mbps 802.11 ac_20MHz: 6.5 –173.3Mbps 802.11 ac_40MHz: 13.5 –400.0Mbps 802.11 ac_80MHz: 29.3 – 866.7Mbps

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1.2 Antenna Designation

Antenna Type	Supplier	Main / Aux	Antenna Part No.	Freq. (MHz)	Peak Antenna Gain (dBi)	Worst Antenna Gain
PIFA	WNC	Main	N/A	5150~5250	2.56	V
				5250~5350	2.36	V
				5470~5725	2.42	
				5725~5850	2.03	V
		Aux		5150~5250	1.43	
				5250~5350	0.88	
				5470~5725	3.01	V
				5725~5850	1.68	

Note: Investigation has been done to determine the worst case scenario for the above antennas demonstrated with measurements in this report.

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1.3 FCC worst power

Wi-Fi 802.11	Frequency Range	Channels	Rated Power (Avg.) (dBm) (Worst case)	Modulation Technology
a	5150~5250	4	21.38	OFDM
	5250~5350	4	21.20	
	5470~5725	12	19.93	
	5725~5850	5	20.94	
n_HT ac_VHT 20M	5150~5250	4	HT: 21.21	OFDM
	5250~5350	4	HT: 20.90	
	5470~5725	12	HT: 20.83	
	5725~5850	5	HT: 21.14	
n_HT ac_VHT 40M	5150~5250	2	HT: 17.72	OFDM
	5250~5350	2	HT: 20.82	
	5470~5725	5	HT: 20.75	
	5725~5850	2	HT: 20.71	
ac_VHT 80M	5150~5250	1	15.63	OFDM
	5250~5350	1	14.37	
	5470~5725	2	20.53	
	5725~5850	1	20.63	

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1.4 Test Methodology of Applied Standards

FCC Part 15, Subpart E §15.407

FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

ANSI C63.10:2013

1.5 Test Facility

SGS Taiwan Ltd. Central RF Lab (TAF code 3702)

No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333

FCC Designation number: TW0028

1.6 Special Accessories

There are no special accessories used while test was conducted.

1.7 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

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

2.2 EUT Exercise

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

2.3 Test Procedure

2.3.1 Conducted 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.

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)



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	USB-RJ45 Cable	abio	CA-USB-RJ45B	NA	N/A	N/A
3	Notebook	N/A	N/A	N/A	N/A	N/A

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3 SUMMARY OF TEST RESULT

FCC Rules	Description Of Test	Result
§15.407(a)	Maximum Conducted Output Power	Compliant
§15.205 §15.209 §15.407(b)	Undesirable Radiated Emissions	Compliant

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4 DESCRIPTION OF TEST MODES

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

Operated band in 5150 MHz ~5250 MHz:

20 M		40 M		80 M	
CH	Freq (MHz)	CH	Freq (MHz)	CH	Freq (MHz)
36	5180	38	5190	42	5210
40	5200	46	5230		
44	5220				
48	5240				

Operated band in 5250 MHz ~5350 MHz

20 M		40 M		80 M	
CH	Freq (MHz)	CH	Freq (MHz)	CH	Freq (MHz)
52	5260	54	5270	58	5290
56	5280	62	5310		
60	5300				
64	5320				

Operated band in 5470 MHz ~5725 MHz:

20 M		40 M		80 M	
CH	Freq (MHz)	CH	Freq (MHz)	CH	Freq (MHz)
100	5500	102	5510	106	5530
104	5520	110	5550	122	5610
108	5540	118	5590	138	5690
112	5560	126	5630		
116	5580	134	5670		
120	5600	142	5710		
124	5620				
128	5640				
132	5660				
136	5680				
140	5700				
144	5720				

Operated band in 5745 MHz ~5850 MHz

20		40		80 M	
CH	Freq (MHz)	CH	Freq (MHz)	CH	Freq (MHz)
149	5745	151	5755	155	5775
153	5765	159	5795		
157	5785				
161	5805				
165	5825				

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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
☒ 802.11 a	☒ Ch0	☒ Ch1	☐ Ch2	☐ Ch3	☒ 1TX	☒ 2TX
☒ 802.11 n	☒ Ch0	☒ Ch1	☐ Ch2	☐ Ch3	☒ SISO	☒ MIMO
☒ 802.11 ac	☒ Ch0	☒ Ch1	☐ Ch2	☐ Ch3	☒ SISO	☒ 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)	AN-TENNA PORT
802.11a	5180~5240	36 to 48	44	OFDM	6	2TX
	5260~5320	52 to 64	60			
	5500~5720	100 to 144	116			
	5745~5825	149 to 165	157			

Note:

The field strength of radiation emission was measured as NB Plane for channel Low, Mid and High.

4.2.2 ANTENNA PORT CONDUCTED MEASUREMENT:

CONDUCTED TEST						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	AN-TENNA 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			
802.11n_HT20	5180~5240	36 to 48	36,44,48		MCS8	MIMO
	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			
802.11n_HT40	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
The Maximum Output Power Measurement	+/- 1 dB
Temperature	+/- 0.4 °C
Humidity	+/- 3.5 %
DC / AC Power Source	DC= +/- 1%, AC=+/- 1%

Radiated Spurious Emission Measurement Uncertainty			
Polarization: Vertical	+/- 2.64 dB	9kHz~30MHz: +/-2.3dB	
	+/- 4.93 dB	30MHz - 1000MHz: +/- 3.37dB	
	+/- 4.81 dB	1GHz - 18GHz: +/- 4.04dB	
	+/- 4.52 dB	18GHz - 40GHz: +/- 4.04dB	
Polarization: Horizontal	+/- 2.64 dB	9kHz~30MHz: +/-2.3dB	
	+/- 4.45 dB	30MHz - 1000MHz: +/- 4.22dB	
	+/- 4.81 dB	1GHz - 18GHz: +/- 4.08dB	
	+/- 4.52 dB	18GHz - 40GHz: +/- 4.08dB	

Note:

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

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6 MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

6.1 Standard Applicable

FCC

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

Note:

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

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

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

where

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

NSS = the number of independent spatial streams of data;

NANT = the total number of antennas

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

G_k is the gain in dBi of the kth antenna.

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

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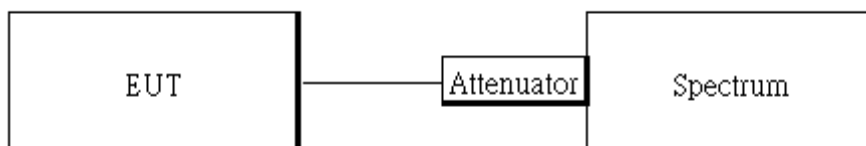
6.2 Measurement Procedure

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/duty cycle).
6. Repeat above procedures until all frequency (low, middle, and high channel) measured were complete.

6.3 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY54200716	04/01/2020	03/31/2021
Attenuator	Mini-Circuit	BW-S10W2+	2	12/16/2020	12/15/2021
DC Block	Mini-Circuits	BLK-18-S+	1	12/16/2020	12/15/2021
Power Meter	Anritsu	ML2496A	1804001	02/20/2020	02/19/2021
Power Sensor	Anritsu	MA2411B	1726104	02/20/2020	02/19/2021
Power Sensor	Anritsu	MA2411B	1726107	02/20/2020	02/19/2021

6.4 Test Set-up



6.5 Measurement Result

6.5.1 Conducted output power

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802.11a_2TX

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
36	5180	6	18.02	16.6	20.47	111.322	23.97	PASS
44	5220	6	18.72	17.79	21.38	137.337	23.97	PASS
48	5240	6	18.13	17.33	20.85	121.519	23.97	PASS
52	5260	6	17.96	17.15	20.67	116.732	23.98	PASS
60	5300	6	18.53	17.63	21.20	131.865	23.98	PASS
64	5320	6	17.43	16.66	20.16	103.755	23.98	PASS
100	5500	6	16.02	17.41	19.87	97.016	23.98	PASS
116	5580	6	15.46	17.19	19.51	89.302	23.98	PASS
140	5700	6	16.54	17.1	19.93	98.334	23.98	PASS
144	5720	6	16.59	16.81	19.71	93.577	23.98	PASS
149	5745	6	17.64	17.53	20.68	117.041	30	PASS
157	5785	6	17.9	17.6	20.85	121.636	30	PASS
165	5825	6	18.43	17.15	20.94	124.023	30	PASS

802.11n_HT20_MIMO

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
36	5180	MCS0	18.13	17.51	20.93	123.854	23.97	PASS
44	5220	MCS0	18.57	17.59	21.21	131.996	23.97	PASS
48	5240	MCS0	18.11	17.33	20.84	121.214	23.97	PASS
52	5260	MCS0	18.11	17.48	20.90	123.153	23.98	PASS
60	5300	MCS0	18.17	17.37	20.89	122.643	23.98	PASS
64	5320	MCS0	17.72	16.82	20.39	109.429	23.98	PASS
100	5500	MCS0	16.92	18.41	20.83	120.966	23.98	PASS
116	5580	MCS0	16.9	18.22	20.71	117.706	23.98	PASS
140	5700	MCS0	16.54	16.12	19.43	87.763	23.98	PASS
144	5720	MCS0	17.01	17.42	20.23	105.442	23.98	PASS
149	5745	MCS0	18.41	17.64	21.14	130.019	30	PASS
157	5785	MCS0	18.1	17.51	20.91	123.397	30	PASS
165	5825	MCS0	18.41	17.13	20.92	123.453	30	PASS

802.11ac_VHT20_MIMO

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
36	5180	MCS0	17.58	16.94	20.37	108.888	23.97	PASS
44	5220	MCS0	17.88	17.12	20.61	115.203	23.97	PASS
48	5240	MCS0	18.03	17.26	20.76	119.126	23.97	PASS
52	5260	MCS0	18.06	17.42	20.85	121.613	23.98	PASS
60	5300	MCS0	18.13	17.31	20.84	121.265	23.98	PASS
64	5320	MCS0	17.66	16.8	20.35	108.375	23.98	PASS
100	5500	MCS0	16.81	18.02	20.56	113.633	23.98	PASS
116	5580	MCS0	16.79	18.12	20.60	114.915	23.98	PASS
140	5700	MCS0	15.52	16.44	19.10	81.327	23.98	PASS
144	5720	MCS0	16.94	17.33	20.15	103.507	23.98	PASS
149	5745	MCS0	17.56	17.59	20.67	116.763	30	PASS
157	5785	MCS0	18.02	17.41	20.82	120.885	30	PASS
165	5825	MCS0	18.33	17.04	20.83	121.081	30	PASS

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802.11n_HT40_MIMO

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
38	5190	MCS0	14.86	14.18	17.72	59.168	23.97	PASS
46	5230	MCS0	17.81	16.98	20.60	114.878	23.97	PASS
54	5270	MCS0	17.92	17.33	20.82	120.854	23.98	PASS
62	5310	MCS0	11.31	10.29	14.02	25.220	23.98	PASS
102	5510	MCS0	14.32	15.97	18.41	69.350	23.98	PASS
110	5550	MCS0	16.95	18.1	20.75	118.865	23.98	PASS
134	5670	MCS0	16.61	17.43	20.23	105.364	23.98	PASS
142	5710	MCS0	17.19	17.58	20.40	109.640	23.98	PASS
151	5755	MCS0	17.43	17.31	20.56	113.710	30	PASS
159	5795	MCS0	17.8	17.22	20.71	117.686	30	PASS

802.11ac_VHT40_MIMO

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
38	5190	MCS0	13.82	13.25	16.69	46.633	23.97	PASS
46	5230	MCS0	17.77	16.93	20.51	112.535	23.97	PASS
54	5270	MCS0	17.86	17.27	20.72	117.967	23.98	PASS
62	5310	MCS0	11.12	10.11	13.79	23.916	23.98	PASS
102	5510	MCS0	14.26	15.89	18.29	67.509	23.98	PASS
110	5550	MCS0	16.87	18.03	20.63	115.643	23.98	PASS
134	5670	MCS0	16.56	17.36	20.12	102.825	23.98	PASS
142	5710	MCS0	17.26	17.52	20.40	109.705	23.98	PASS
151	5755	MCS0	17.39	17.33	20.50	112.271	30	PASS
159	5795	MCS0	17.74	17.16	20.60	114.875	30	PASS

802.11ac_VHT80_MIMO

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
42	5210	MCS0	12.68	11.89	15.63	36.546	23.97	PASS
58	5290	MCS0	11.47	10.58	14.37	27.373	23.98	PASS
106	5530	MCS0	11.86	12.98	15.78	37.857	23.98	PASS
122	5610	MCS0	16.75	17.62	20.53	113.037	23.98	PASS
138	5690	MCS0	17.15	17.57	20.38	109.028	23.98	PASS
155	5775	MCS0	17.57	17.02	20.63	115.589	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:

- 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.
- For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

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

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

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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.
2. Emission level (dBμV/m) = 20 log Emission level (dBμV/m)

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7.2 Measurement Equipment Used

966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Horn Antenna	Schwarzbeck	BBHA9120D	1341	06/22/2020	06/21/2021
EMI Test Receiver	R&S	ESU 40	100363	04/29/2020	04/28/2021
Pre-Amplifier	EMC Instruments	EMC0011830	980199	11/19/2020	11/18/2021
Attenuator	Marvelous	WATT-218FS-10	RF20	11/19/2020	11/18/2021
Band Rejection Filter	Micro-Tronics	G015	RF198	11/19/2020	11/18/2021
Band Rejection Filter	Micro-Tronics	G016	RF199	11/19/2020	11/18/2021
Band Rejection Filter	Micro-Tronics	G021	RF200	11/19/2020	11/18/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17388/4	11/19/2020	11/18/2021
Coaxial Cable	Huber Suhner	RG 214/U	W22.03	11/19/2020	11/18/2021

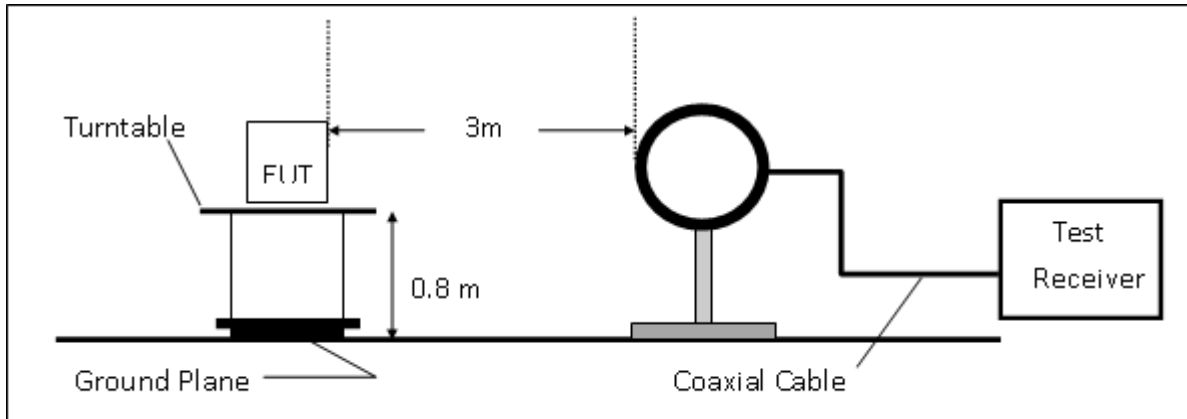
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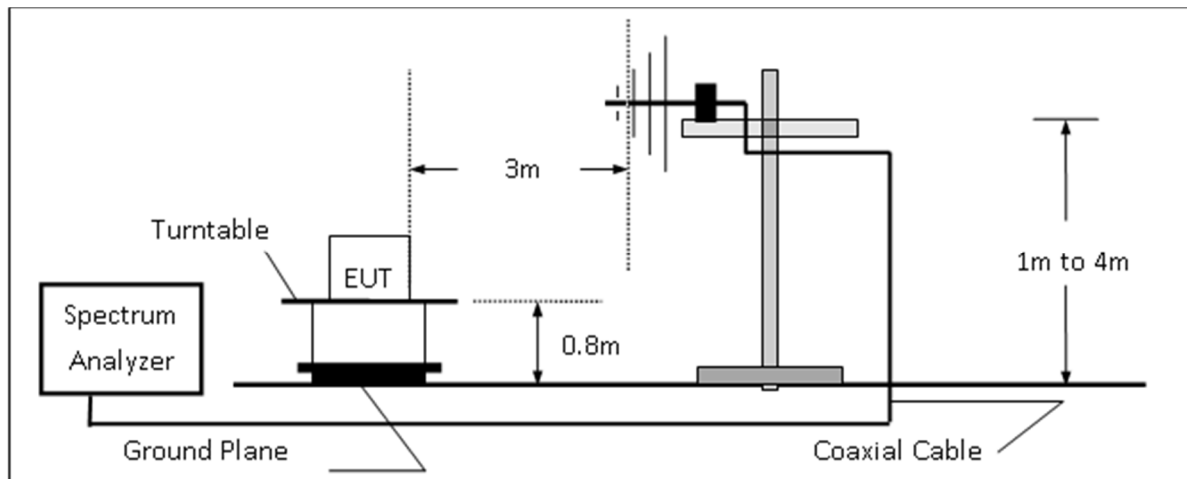
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7.3 Test SET-UP

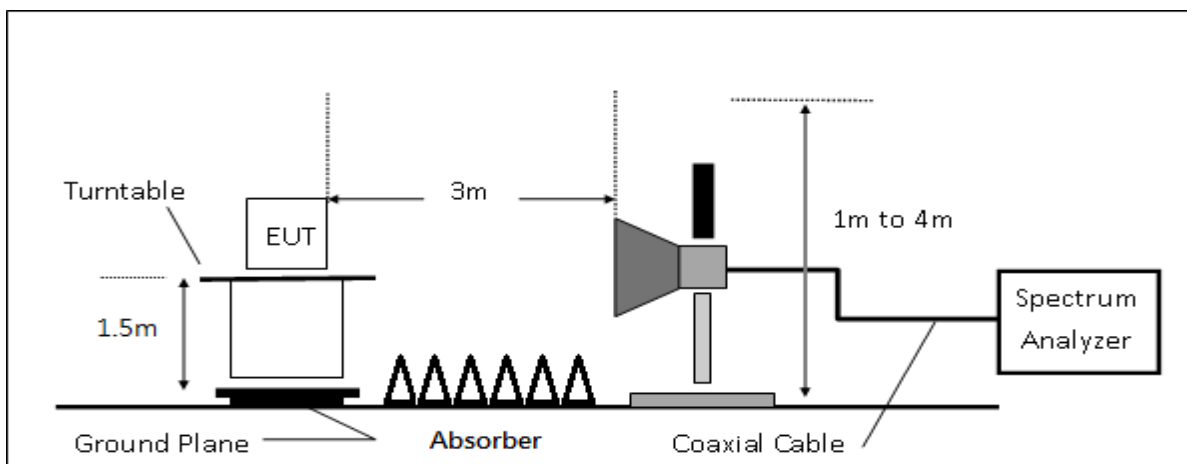
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



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



(C) Radiated Emission Test Set-UP Frequency Over 1 GHz



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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=120 kHz and VBW=300 kHz for Peak Detector (PK) and Quasi-peak (QP) at frequency below 1 GHz.
7. At frequency above 1 GHz, Set the spectrum analyzer:
 - A. RBW=1 MHz, VBW=3 MHz for **Peak** Detector.
 - B. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW ≥ 1/T (Duty cycle < 98%) for **Average** Detector.
8. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
9. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
10. Repeat above procedures until all frequency measured were complete.

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 dBuV/m, which converts $20 \cdot \log(uV/m)$

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

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

7.6 Test Results of Radiated Spurious Emissions form 9 KHz to 30 MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit per 15.31(o) & 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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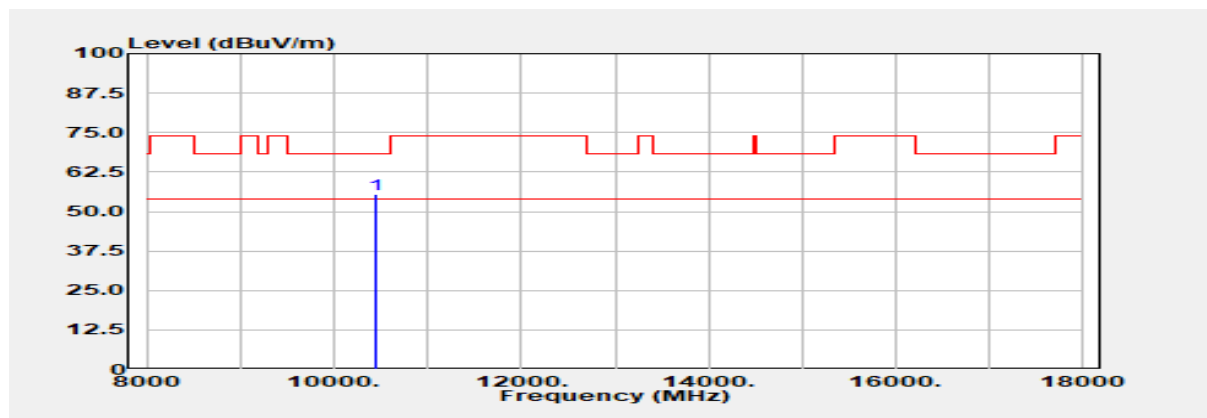
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7.7 Radiated Spurious Emission Measurement Result

7.7.1 Above 1GHz Worst-Case Data:

Report Number	:ER/2020/C0098	Test Site	:966 Chamber C
Operation Mode	:802.11a / Band 1	Test Date	:2021-01-18
Test Frequency	:5220 MHz	Temp./Humi.	:18.5/45
Test Mode	:TX CH MID	Antenna Pol.	:Vertical
EUT Pol	:NB Plane	Engineer	:Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10440.000	Peak	32.75	22.78	55.53	68.20	-12.67

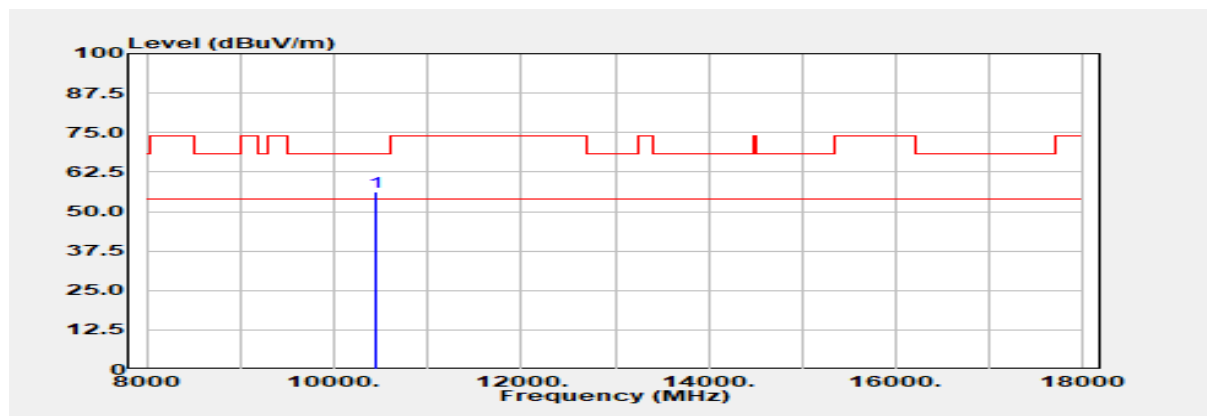
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Report Number :ER/2020/C0098
Operation Mode :802.11a / Band 1
Test Frequency :5220 MHz
Test Mode :TX CH MID
EUT Pol :NB Plane

Test Site :966 Chamber C
Test Date :2021-01-18
Temp./Humi. :18.5/45
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10440.000	Peak	33.53	22.84	56.37	68.20	-11.83

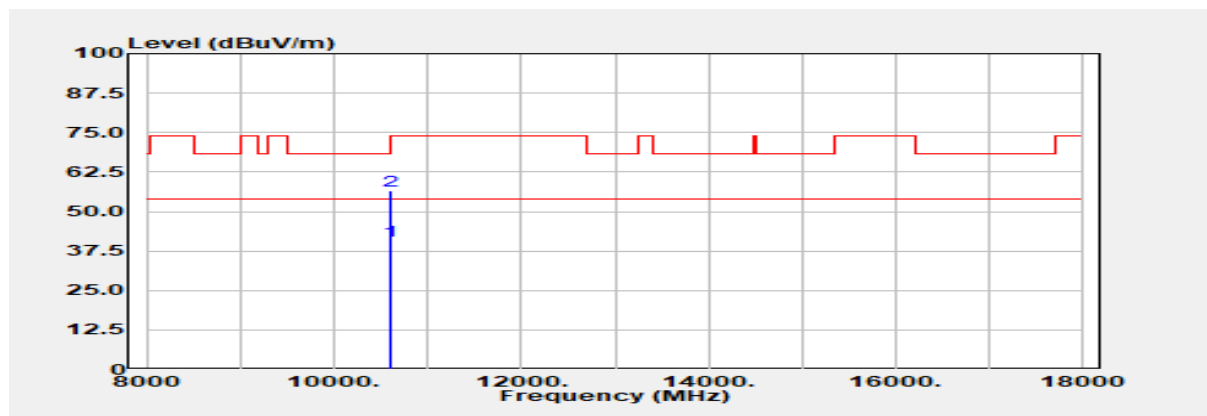
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Report Number :ER/2020/C0098
Operation Mode :802.11a / Band 2
Test Frequency :5300 MHz
Test Mode :TX CH MID
EUT Pol :NB Plane

Test Site :966 Chamber C
Test Date :2021-01-18
Temp./Humi. :18.8/45
Antenna Pol. :Vertical
Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10600.000	Average	17.60	23.31	40.91	54.00	-13.09
10600.000	Peak	33.25	23.32	56.57	68.20	-11.63

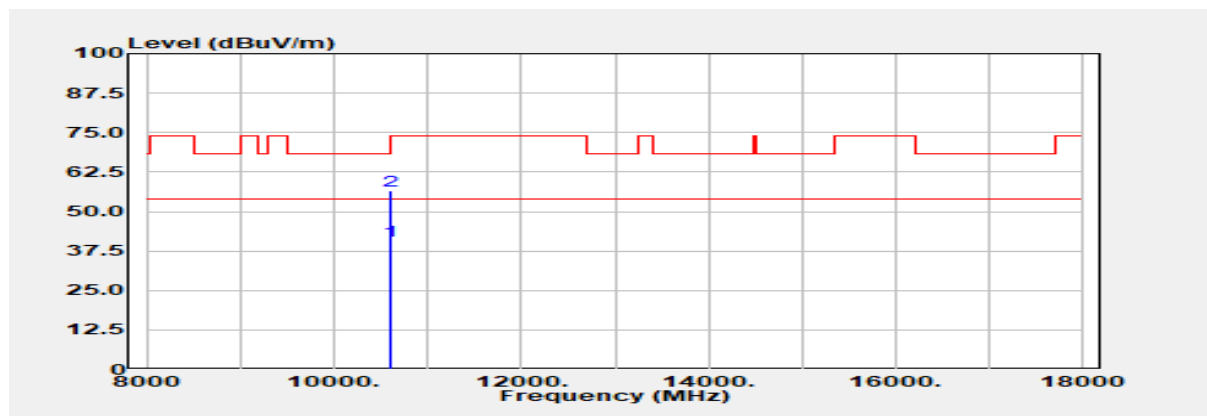
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Report Number :ER/2020/C0098
Operation Mode :802.11a / Band 2
Test Frequency :5300 MHz
Test Mode :TX CH MID
EUT Pol :NB Plane

Test Site :966 Chamber C
Test Date :2021-01-18
Temp./Humi. :18.8/45
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10600.000	Average	17.57	23.31	40.88	54.00	-13.12
10600.000	Peak	33.10	23.31	56.42	74.00	-17.58

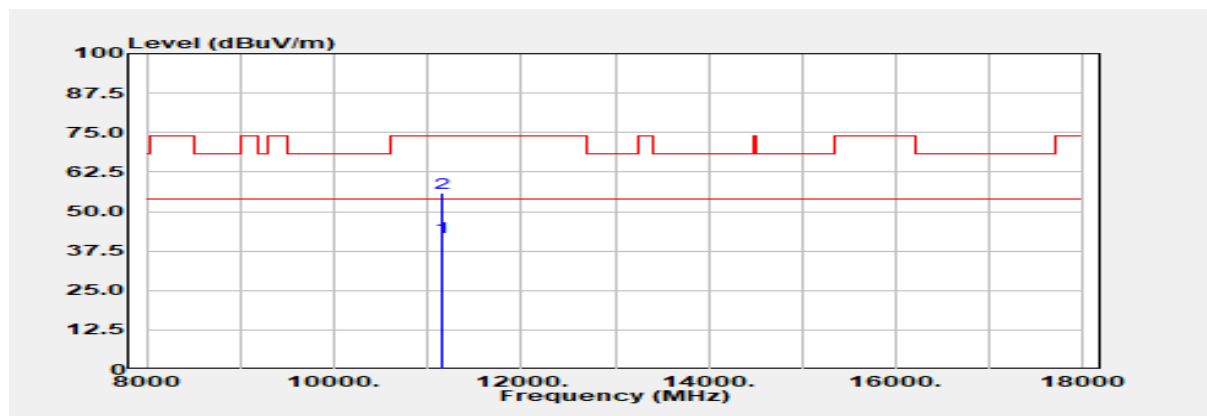
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Report Number :ER/2020/C0098
Operation Mode :802.11a / Band 3
Test Frequency :5580 MHz
Test Mode :TX CH MID
EUT Pol :NB Plane

Test Site :966 Chamber C
Test Date :2021-01-18
Temp./Humi. :18.9/45
Antenna Pol. :Vertical
Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11160.000	Average	17.73	24.09	41.82	54.00	-12.18
11160.000	Peak	31.59	24.12	55.71	74.00	-18.29

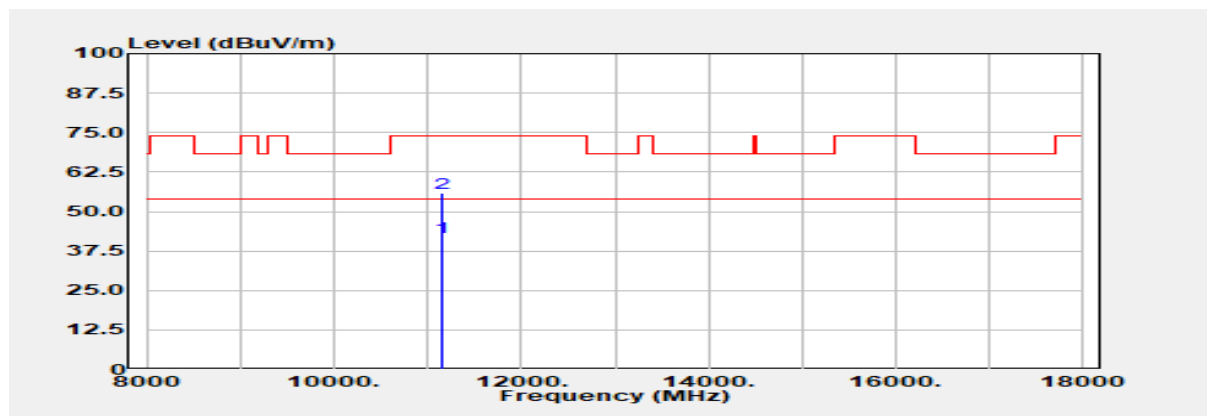
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Report Number :ER/2020/C0098
Operation Mode :802.11a / Band 3
Test Frequency :5580 MHz
Test Mode :TX CH MID
EUT Pol :NB Plane

Test Site :966 Chamber C
Test Date :2021-01-18
Temp./Humi. :18.9/45
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11160.000	Average	17.67	24.09	41.76	54.00	-12.24
11160.000	Peak	31.85	24.09	55.94	74.00	-18.06

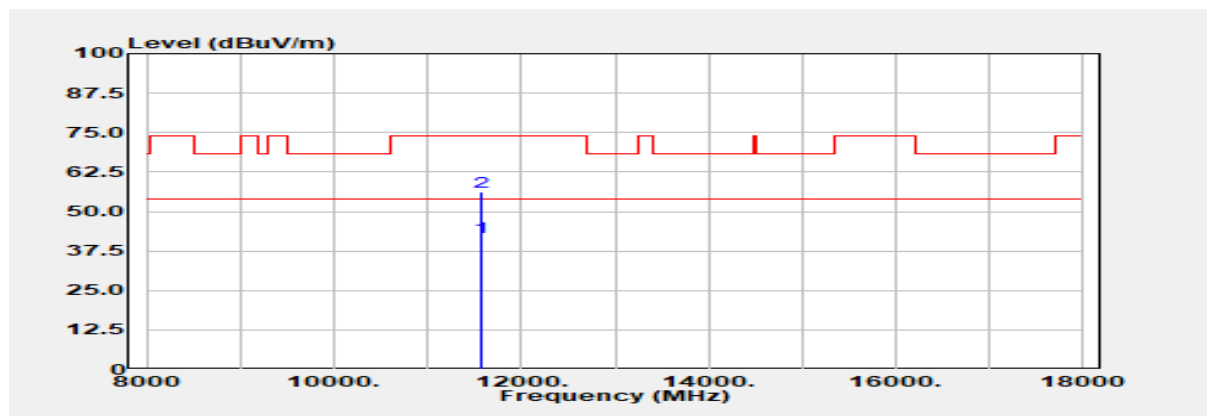
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Report Number :ER/2020/C0098
Operation Mode :802.11a / Band 4
Test Frequency :5785 MHz
Test Mode :TX CH MID
EUT Pol :NB Plane

Test Site :966 Chamber C
Test Date :2021-01-18
Temp./Humi. :19.2/45
Antenna Pol. :Vertical
Engineer :Ashton Chiu



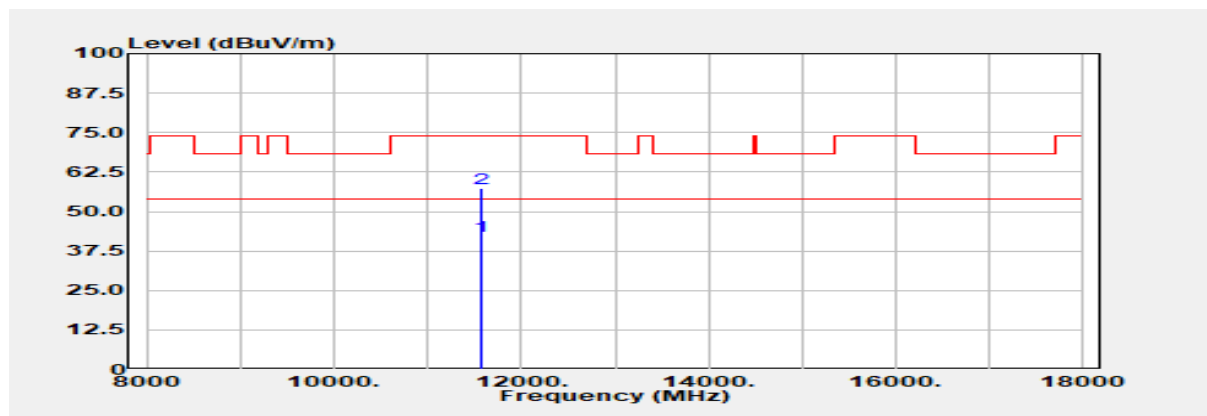
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11570.000	Average	18.07	24.00	42.07	54.00	-11.93
11570.000	Peak	32.17	24.05	56.22	74.00	-17.78

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Report Number :ER/2020/C0098
Operation Mode :802.11a / Band 4
Test Frequency :5785 MHz
Test Mode :TX CH MID
EUT Pol :NB Plane

Test Site :966 Chamber C
Test Date :2021-01-18
Temp./Humi. :19.2/45
Antenna Pol. :Horizontal
Engineer :Ashton Chiu


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11570.000	Average	18.18	24.05	42.23	54.00	-11.77
11570.000	Peak	33.42	24.05	57.47	74.00	-16.53

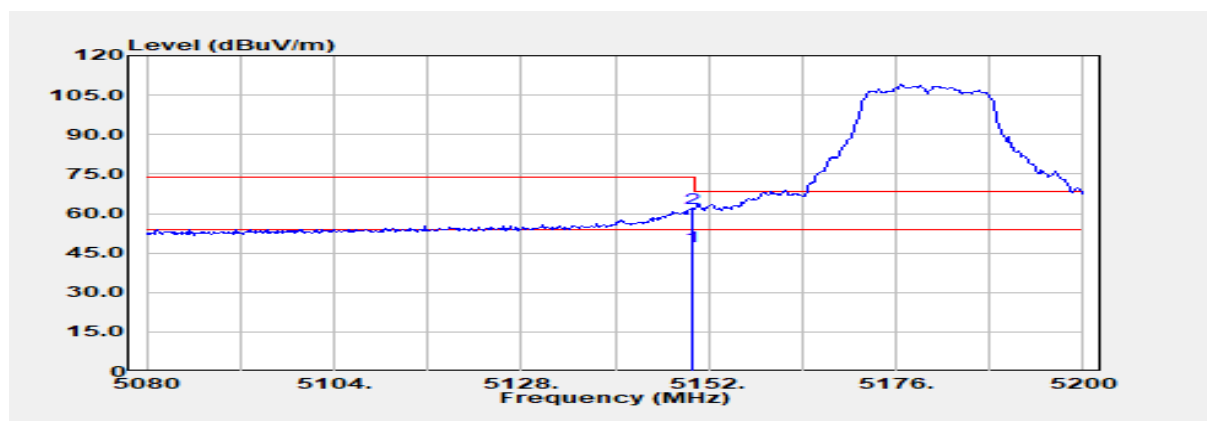
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7.7.2 Band edge falling to restricted band

Report Number	:ER/2020/C0098	Test Site	:966 Chamber C
Operation Mode	:802.11a / Band 1	Test Date	:2021-01-16
Test Frequency	:5180 MHz	Temp./Humi.	:21.6/52
Test Mode	:BE CH LOW	Antenna Pol.	:Vertical
EUT Pol	:NB Plane	Engineer	:Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5150.000	Average	37.13	10.50	47.63	54.00	-6.37
5150.000	Peak	51.45	10.50	61.94	74.00	-12.06

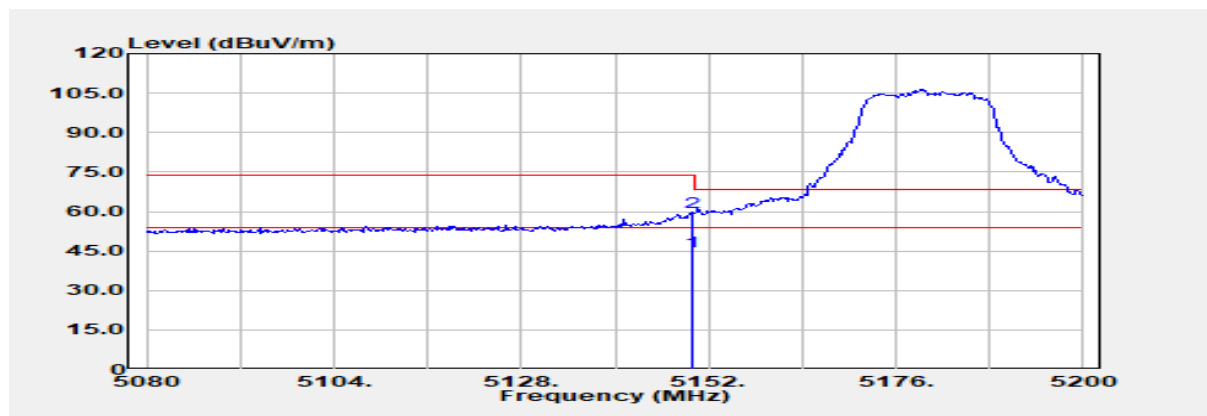
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Report Number :ER/2020/C0098
Operation Mode :802.11a / Band 1
Test Frequency :5180 MHz
Test Mode :BE CH LOW
EUT Pol :NB Plane

Test Site :966 Chamber C
Test Date :2021-01-16
Temp./Humi. :21.6/52
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5150.000	Average	34.40	10.50	44.90	54.00	-9.10
5150.000	Peak	49.25	10.50	59.75	74.00	-14.25

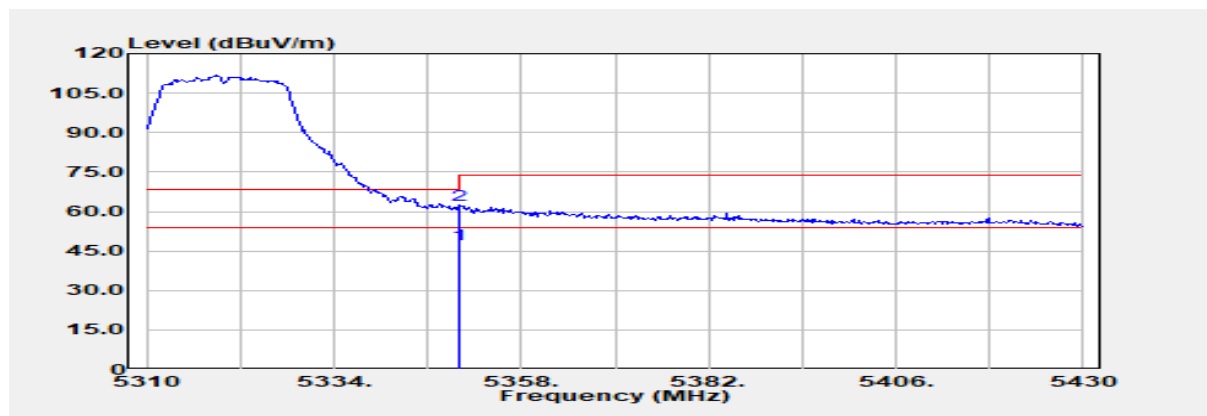
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Report Number :ER/2020/C0098
Operation Mode :802.11a / Band 2
Test Frequency :5320 MHz
Test Mode :BE CH HIGH
EUT Pol :NB Plane

Test Site :966 Chamber C
Test Date :2021-01-16
Temp./Humi. :21.7/52
Antenna Pol. :Vertical
Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.000	Average	35.87	11.74	47.61	54.00	-6.39
5350.000	Peak	50.89	11.74	62.63	74.00	-11.37

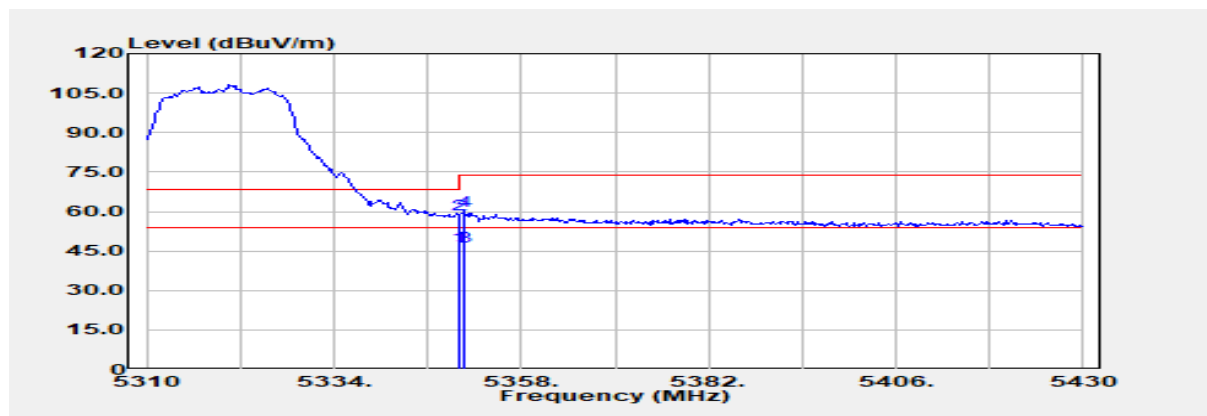
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Report Number :ER/2020/C0098
Operation Mode :802.11a / Band 2
Test Frequency :5320 MHz
Test Mode :BE CH HIGH
EUT Pol :NB Plane

Test Site :966 Chamber C
Test Date :2021-01-16
Temp./Humi. :21.7/52
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.000	Average	34.69	11.74	46.43	54.00	-7.57
5350.000	Peak	47.12	11.74	58.85	74.00	-15.15
5350.769	Average	34.73	11.74	46.47	54.00	-7.53
5350.769	Peak	48.45	11.74	60.20	74.00	-13.80

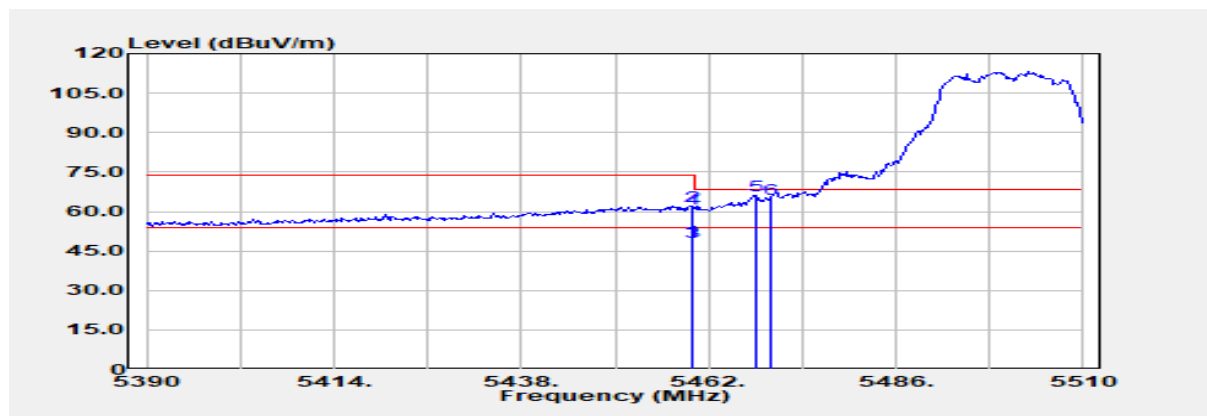
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Report Number :ER/2020/C0098
Operation Mode :802.11a / Band 3
Test Frequency :5500 MHz
Test Mode :BE CH LOW
EUT Pol :NB Plane

Test Site :966 Chamber C
Test Date :2021-01-16
Temp./Humi. :21.9/52
Antenna Pol. :Vertical
Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5459.808	Average	37.13	11.71	48.84	54.00	-5.16
5459.808	Peak	50.37	11.71	62.08	74.00	-11.92
5460.000	Average	36.93	11.70	48.63	54.00	-5.37
5460.000	Peak	49.25	11.70	60.95	74.00	-13.05
5468.077	Peak	54.30	11.79	66.09	68.20	-2.11
5470.000	Peak	53.03	11.81	64.84	68.20	-3.36

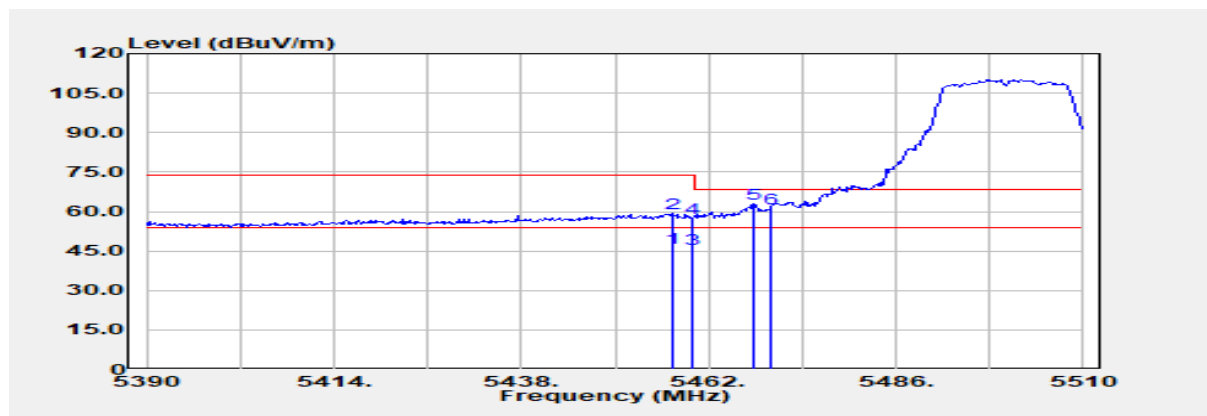
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Report Number :ER/2020/C0098
Operation Mode :802.11a / Band 3
Test Frequency :5500 MHz
Test Mode :BE CH LOW
EUT Pol :NB Plane

Test Site :966 Chamber C
Test Date :2021-01-16
Temp./Humi. :21.9/52
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5457.500	Average	34.59	11.82	46.41	54.00	-7.59
5457.500	Peak	47.32	11.82	59.14	74.00	-14.86
5460.000	Average	34.20	11.70	45.90	54.00	-8.10
5460.000	Peak	45.69	11.70	57.40	74.00	-16.60
5467.692	Peak	51.21	11.79	63.00	68.20	-5.20
5470.000	Peak	49.39	11.81	61.20	68.20	-7.00

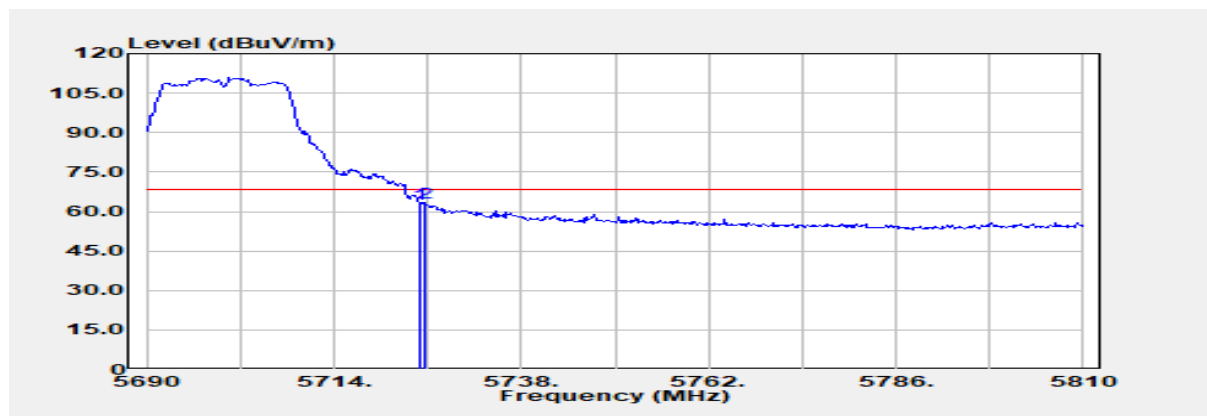
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Report Number :ER/2020/C0098
Operation Mode :802.11a / Band 3
Test Frequency :5700 MHz
Test Mode :BE CH HIGH
EUT Pol :NB Plane

Test Site :966 Chamber C
Test Date :2021-01-16
Temp./Humi. :22.0/52
Antenna Pol. :Vertical
Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.000	Peak	51.92	10.82	62.74	68.20	-5.46
5725.769	Peak	52.79	10.80	63.59	68.20	-4.61

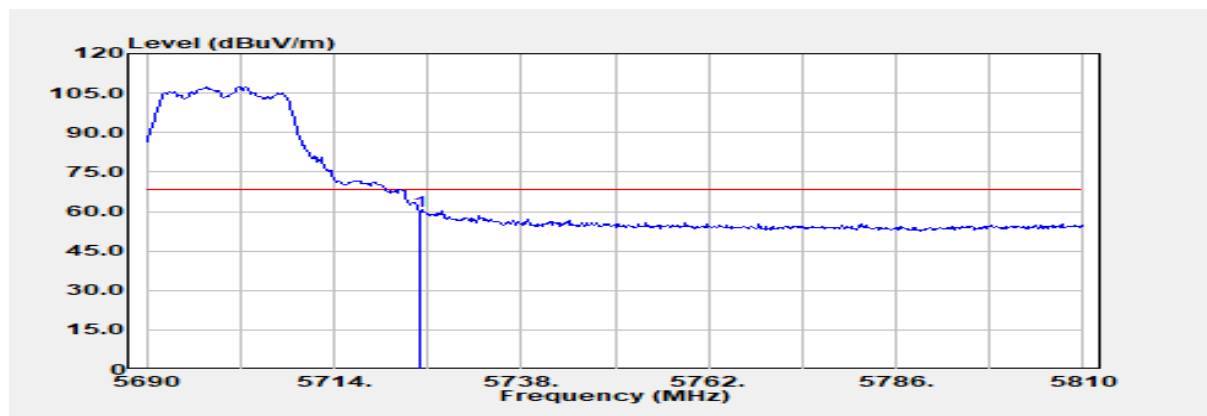
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Report Number :ER/2020/C0098
Operation Mode :802.11a / Band 3
Test Frequency :5700 MHz
Test Mode :BE CH HIGH
EUT Pol :NB Plane

Test Site :966 Chamber C
Test Date :2021-01-16
Temp./Humi. :22.0/52
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.000	Peak	49.47	10.82	60.29	68.20	-7.91

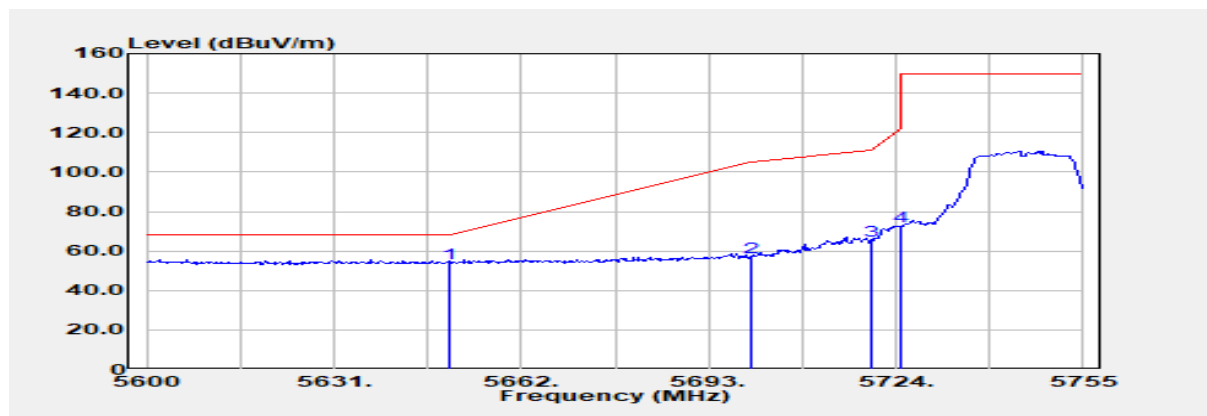
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Report Number :ER/2020/C0098
Operation Mode :802.11a / Band 4
Test Frequency :5745 MHz
Test Mode :BE CH LOW
EUT Pol :NB Plane

Test Site :966 Chamber C
Test Date :2021-01-16
Temp./Humi. :22.1/52
Antenna Pol. :Vertical
Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
5650.000	Peak	43.41	10.61	54.02	68.20	-14.18
5700.000	Peak	46.41	10.61	57.01	105.20	-48.19
5720.000	Peak	54.33	10.96	65.29	110.80	-45.51
5725.000	Peak	61.54	10.82	72.36	122.20	-49.84

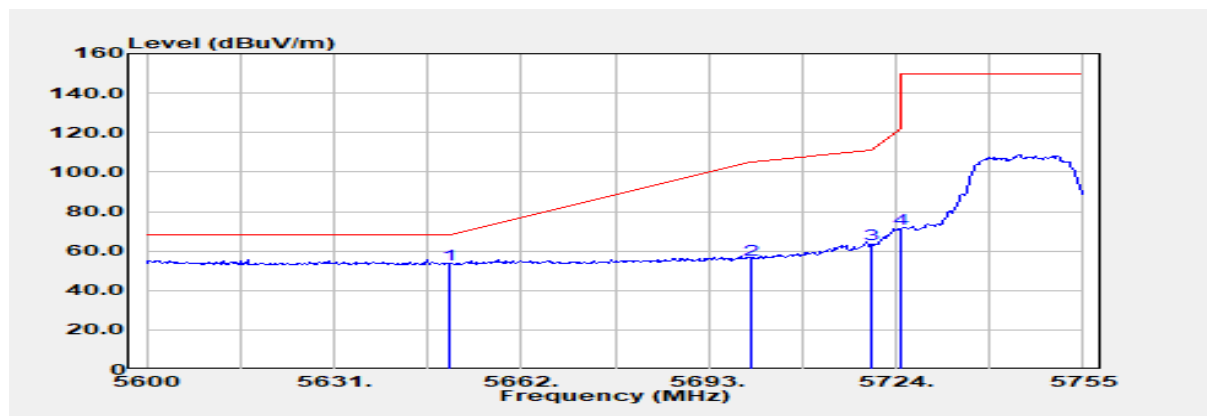
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Report Number :ER/2020/C0098
Operation Mode :802.11a / Band 4
Test Frequency :5745 MHz
Test Mode :BE CH LOW
EUT Pol :NB Plane

Test Site :966 Chamber C
Test Date :2021-01-16
Temp./Humi. :22.1/52
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.000	Peak	42.44	10.61	53.04	68.20	-15.16
5700.000	Peak	44.90	10.61	55.51	105.20	-49.69
5720.000	Peak	52.15	10.96	63.11	110.80	-47.69
5725.000	Peak	60.71	10.82	71.53	122.20	-50.67

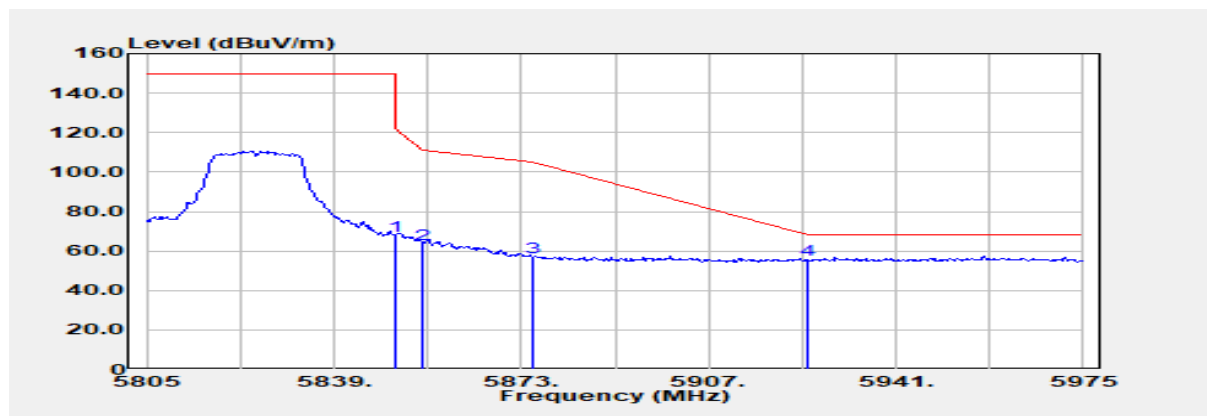
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Report Number :ER/2020/C0098
Operation Mode :802.11a / Band 4
Test Frequency :5825 MHz
Test Mode :BE CH HIGH
EUT Pol :NB Plane

Test Site :966 Chamber C
Test Date :2021-01-16
Temp./Humi. :22.2/52
Antenna Pol. :Vertical
Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5850.000	Peak	56.49	11.31	67.80	122.20	-54.40
5855.000	Peak	52.05	11.61	63.66	110.80	-47.14
5875.000	Peak	44.48	12.08	56.56	105.20	-48.64
5925.000	Peak	42.28	13.13	55.41	68.20	-12.79

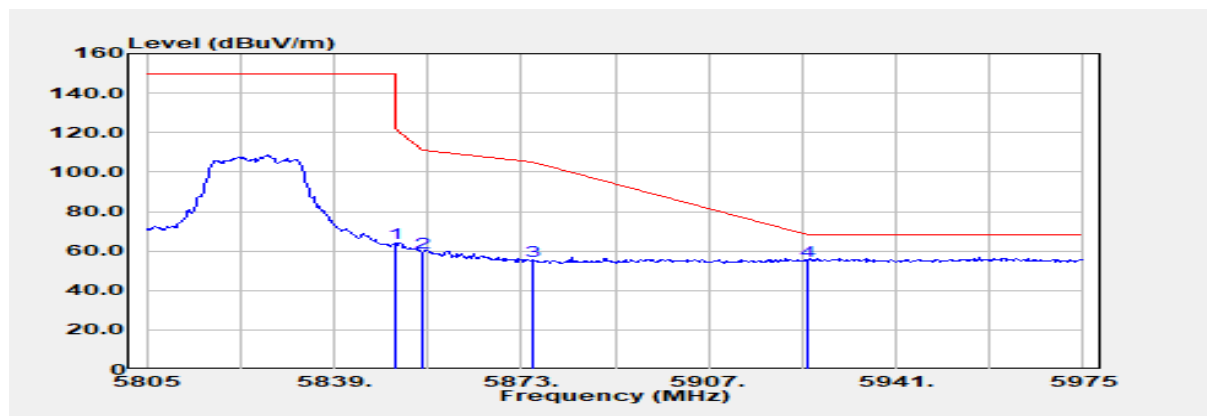
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Report Number :ER/2020/C0098
Operation Mode :802.11a / Band 4
Test Frequency :5825 MHz
Test Mode :BE CH HIGH
EUT Pol :NB Plane

Test Site :966 Chamber C
Test Date :2021-01-16
Temp./Humi. :22.2/52
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.000	Peak	52.50	11.31	63.81	122.20	-58.39
5855.000	Peak	47.48	11.61	59.09	110.80	-51.71
5875.000	Peak	42.89	12.08	54.97	105.20	-50.23
5925.000	Peak	41.99	13.13	55.12	68.20	-13.08

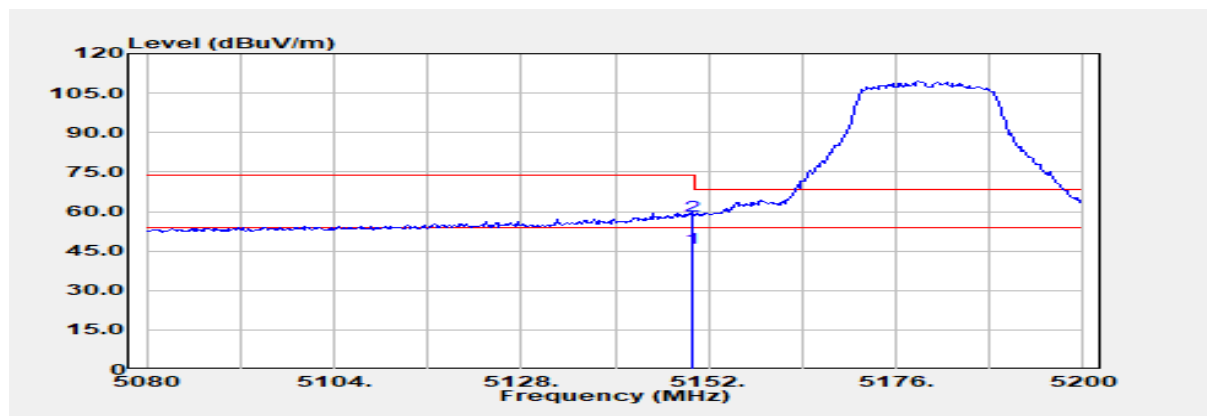
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Report Number :ER/2020/C0098
Operation Mode :802.11n20 / Band 1
Test Frequency :5180 MHz
Test Mode :BE CH LOW
EUT Pol :NB Plane

Test Site :966 Chamber C
Test Date :2021-01-16
Temp./Humi. :22.2/52
Antenna Pol. :Vertical
Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5150.000	Average	35.53	10.50	46.03	54.00	-7.97
5150.000	Peak	47.92	10.50	58.42	74.00	-15.58

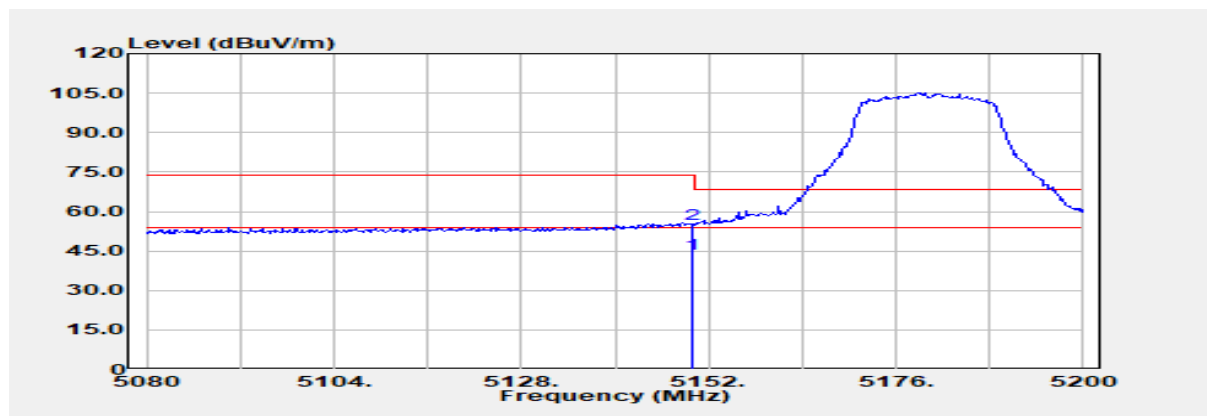
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Report Number :ER/2020/C0098
Operation Mode :802.11n20 / Band 1
Test Frequency :5180 MHz
Test Mode :BE CH LOW
EUT Pol :NB Plane

Test Site :966 Chamber C
Test Date :2021-01-16
Temp./Humi. :22.2/52
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



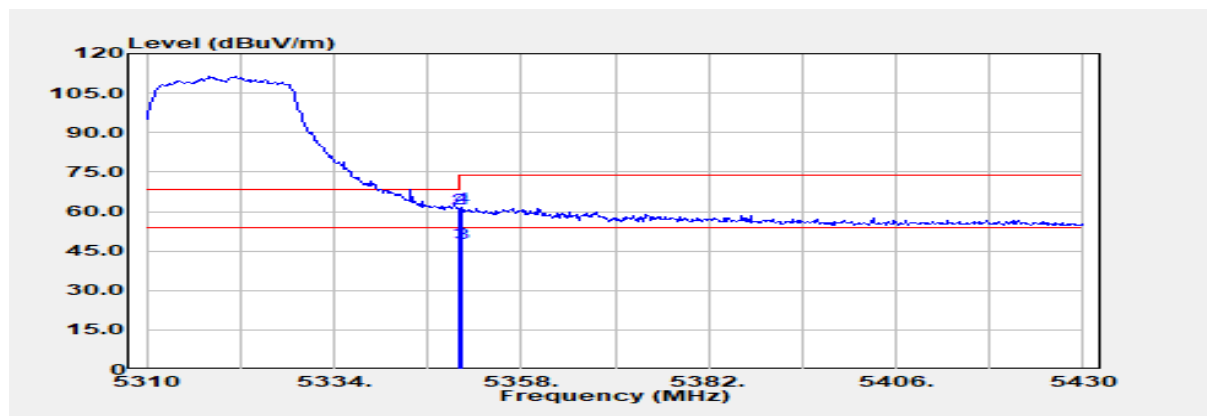
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5150.000	Average	33.42	10.50	43.92	54.00	-10.08
5150.000	Peak	44.56	10.50	55.05	74.00	-18.95

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Report Number	:ER/2020/C0098	Test Site	:966 Chamber C
Operation Mode	:802.11n20 / Band 2	Test Date	:2021-01-16
Test Frequency	:5320 MHz	Temp./Humi.	:22.3/51
Test Mode	:BE CH HIGH	Antenna Pol.	:Vertical
EUT Pol	:NB Plane	Engineer	:Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.000	Average	36.56	11.74	48.30	54.00	-5.70
5350.000	Peak	49.24	11.74	60.98	74.00	-13.02
5350.385	Average	36.40	11.74	48.14	54.00	-5.86
5350.385	Peak	49.90	11.74	61.64	74.00	-12.36

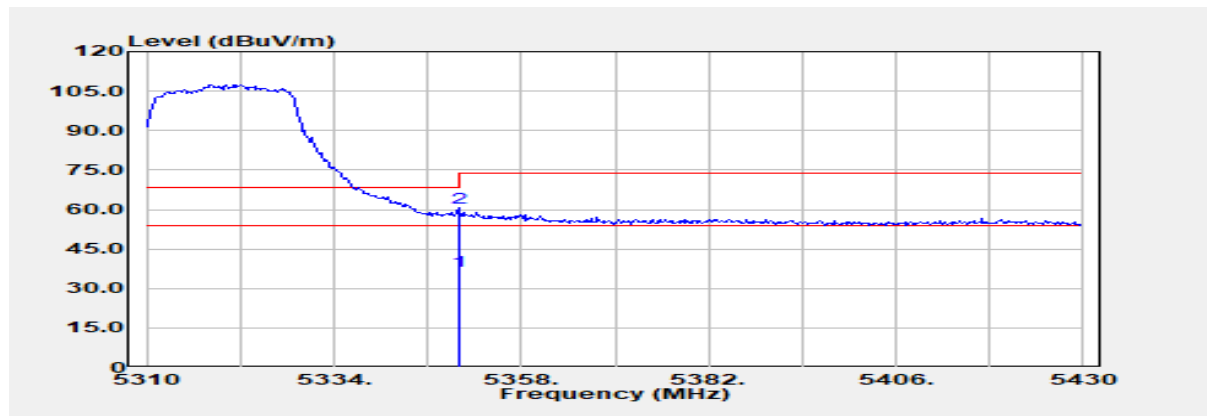
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Report Number :ER/2020/C0098
Operation Mode :802.11n20 / Band 2
Test Frequency :5320 MHz
Test Mode :BE CH HIGH
EUT Pol :NB Plane

Test Site :966 Chamber C
Test Date :2021-01-16
Temp./Humi. :22.3/51
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



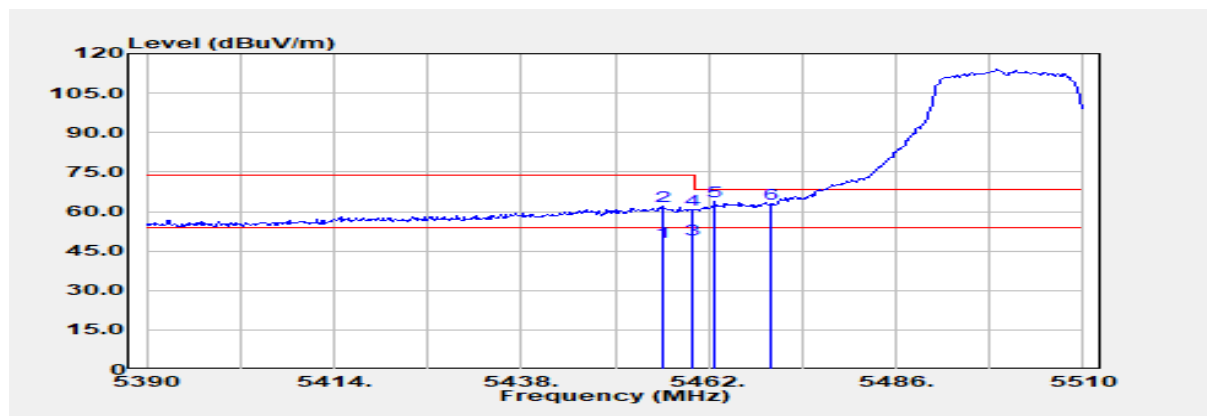
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.000	Average	24.73	11.74	36.47	54.00	-17.53
5350.000	Peak	48.78	11.74	60.52	74.00	-13.48

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Report Number	:ER/2020/C0098	Test Site	:966 Chamber C
Operation Mode	:802.11n20 / Band 3	Test Date	:2021-01-16
Test Frequency	:5500 MHz	Temp./Humi.	:22.2/50
Test Mode	:BE CH LOW	Antenna Pol.	:Vertical
EUT Pol	:NB Plane	Engineer	:Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5456.154	Average	36.42	11.89	48.31	54.00	-5.69
5456.154	Peak	50.37	11.89	62.26	74.00	-11.74
5460.000	Average	37.57	11.70	49.27	54.00	-4.73
5460.000	Peak	48.77	11.70	60.47	74.00	-13.53
5462.885	Peak	52.27	11.74	64.00	68.20	-4.20
5470.000	Peak	50.99	11.81	62.80	68.20	-5.40

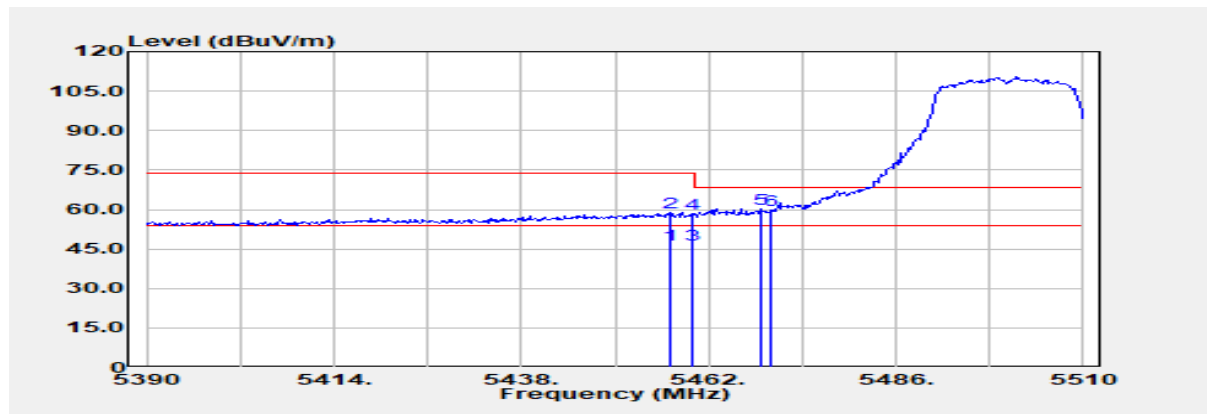
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Report Number :ER/2020/C0098
Operation Mode :802.11n20 / Band 3
Test Frequency :5500 MHz
Test Mode :BE CH LOW
EUT Pol :NB Plane

Test Site :966 Chamber C
Test Date :2021-01-16
Temp./Humi. :22.2/50
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
5457.115	Average	34.85	11.84	46.69	54.00	-7.31
5457.115	Peak	47.10	11.84	58.94	74.00	-15.06
5460.000	Average	35.08	11.70	46.78	54.00	-7.22
5460.000	Peak	46.86	11.70	58.56	74.00	-15.44
5468.654	Peak	48.48	11.80	60.28	68.20	-7.92
5470.000	Peak	47.84	11.81	59.65	68.20	-8.55

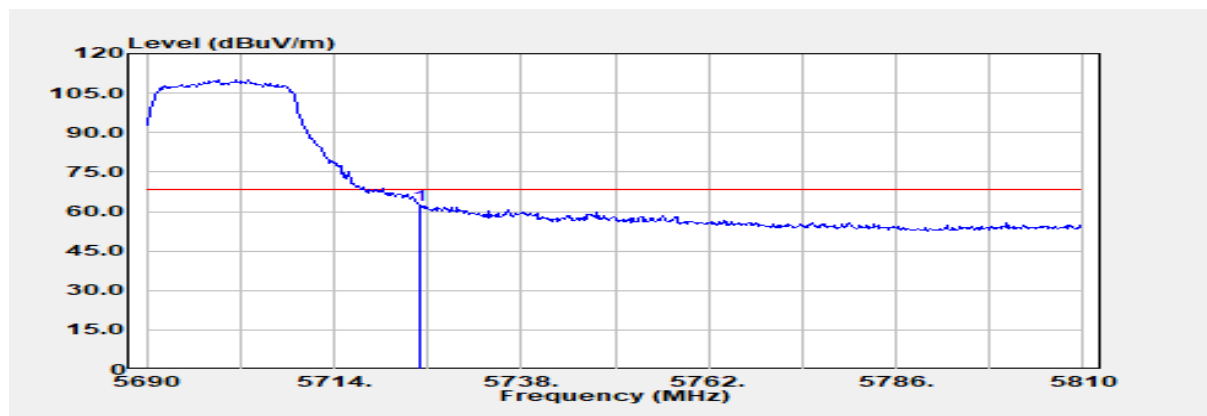
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Report Number :ER/2020/C0098
Operation Mode :802.11n20 / Band 3
Test Frequency :5700 MHz
Test Mode :BE CH HIGH
EUT Pol :NB Plane

Test Site :966 Chamber C
Test Date :2021-01-16
Temp./Humi. :22.1/49
Antenna Pol. :Vertical
Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.000	Peak	51.46	10.82	62.29	68.20	-5.91

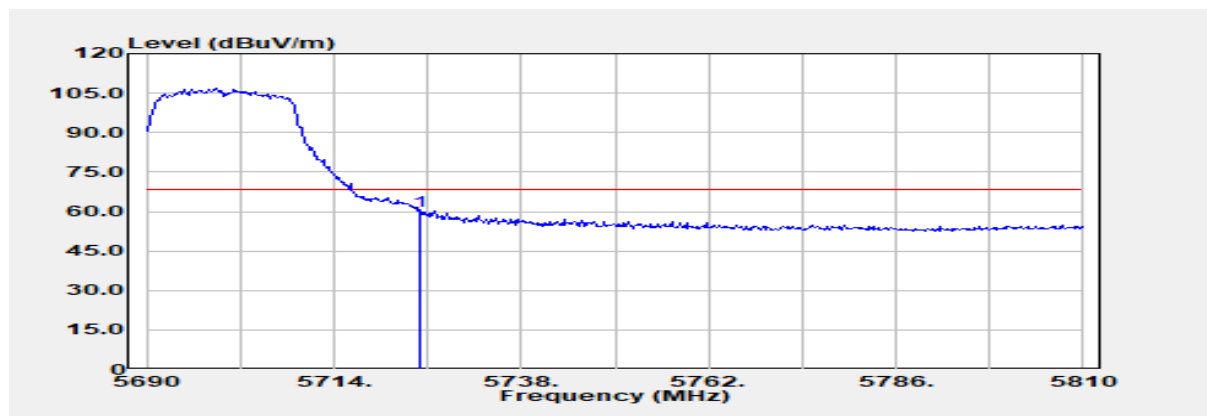
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Report Number :ER/2020/C0098
 Operation Mode :802.11n20 / Band 3
 Test Frequency :5700 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane

Test Site :966 Chamber C
 Test Date :2021-01-16
 Temp./Humi. :22.1/49
 Antenna Pol. :Horizontal
 Engineer :Ashton Chiu



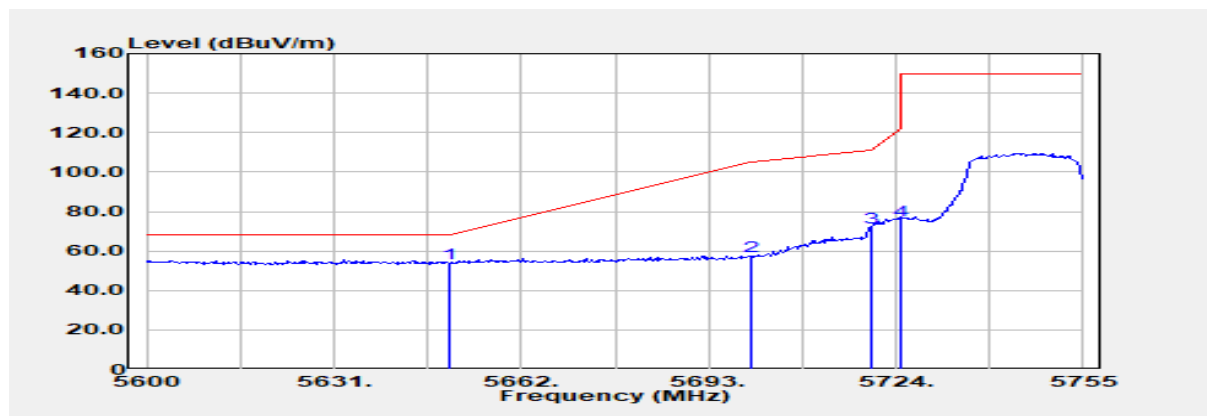
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5725.000	Peak	49.30	10.82	60.12	68.20	-8.08

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Report Number	:ER/2020/C0098	Test Site	:966 Chamber C
Operation Mode	:802.11n20 / Band 4	Test Date	:2021-01-16
Test Frequency	:5745 MHz	Temp./Humi.	:22.0/49
Test Mode	:BE CH LOW	Antenna Pol.	:Vertical
EUT Pol	:NB Plane	Engineer	:Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.000	Peak	43.29	10.61	53.89	68.20	-14.31
5700.000	Peak	46.59	10.61	57.20	105.20	-48.00
5720.000	Peak	60.81	10.96	71.77	110.80	-39.03
5725.000	Peak	64.94	10.82	75.76	122.20	-46.44

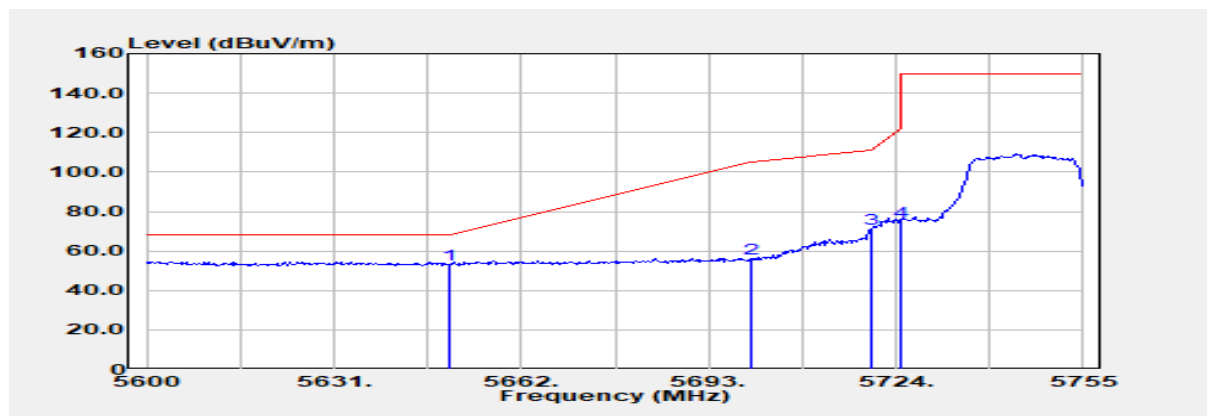
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Report Number :ER/2020/C0098
Operation Mode :802.11n20 / Band 4
Test Frequency :5745 MHz
Test Mode :BE CH LOW
EUT Pol :NB Plane

Test Site :966 Chamber C
Test Date :2021-01-16
Temp./Humi. :22.0/49
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.000	Peak	42.33	10.61	52.94	68.20	-15.26
5700.000	Peak	45.32	10.61	55.93	105.20	-49.27
5720.000	Peak	60.47	10.96	71.44	110.80	-39.36
5725.000	Peak	64.19	10.82	75.01	122.20	-47.19

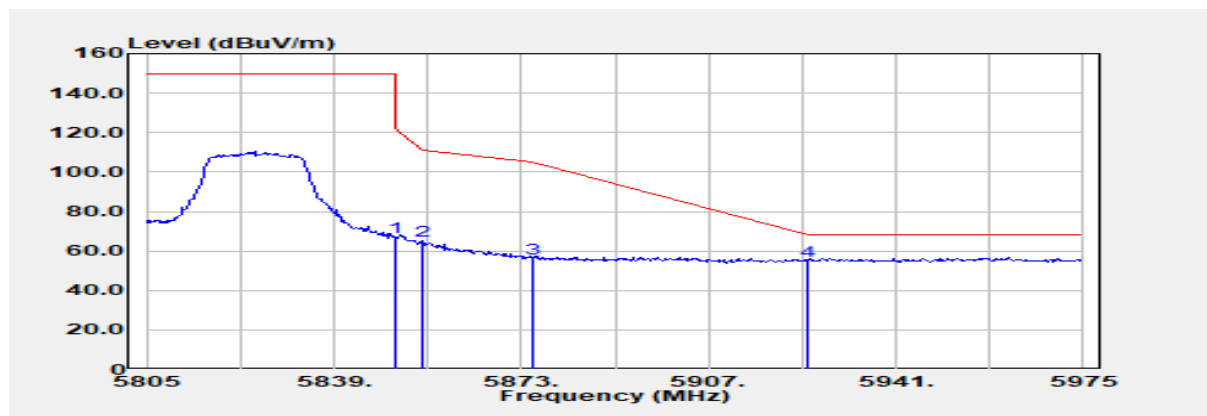
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Report Number :ER/2020/C0098
Operation Mode :802.11n20 / Band 4
Test Frequency :5825 MHz
Test Mode :BE CH HIGH
EUT Pol :NB Plane

Test Site :966 Chamber C
Test Date :2021-01-16
Temp./Humi. :22.0/49
Antenna Pol. :Vertical
Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5850.000	Peak	55.88	11.31	67.19	122.20	-55.01
5855.000	Peak	53.86	11.61	65.47	110.80	-45.33
5875.000	Peak	44.19	12.08	56.27	105.20	-48.93
5925.000	Peak	41.53	13.13	54.67	68.20	-13.53

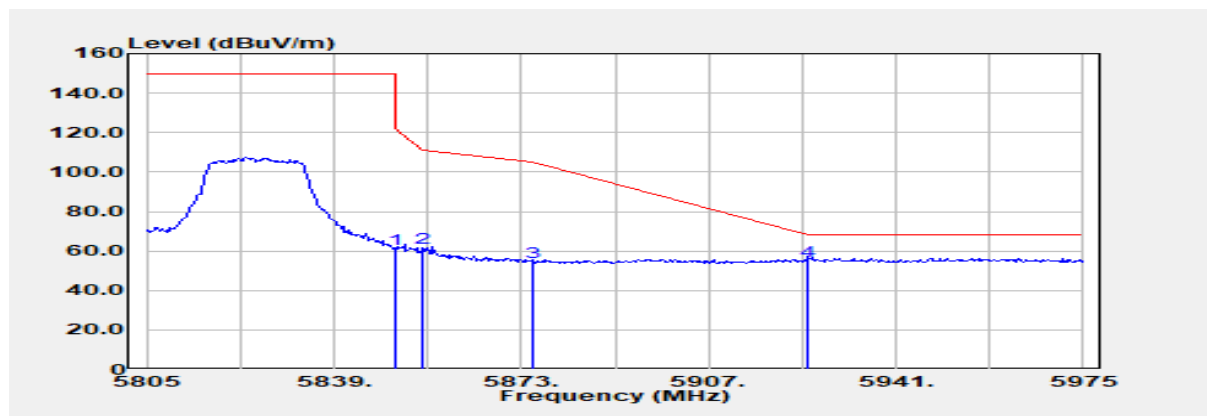
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Report Number :ER/2020/C0098
Operation Mode :802.11n20 / Band 4
Test Frequency :5825 MHz
Test Mode :BE CH HIGH
EUT Pol :NB Plane

Test Site :966 Chamber C
Test Date :2021-01-16
Temp./Humi. :22.0/49
Antenna Pol. :Vertical
Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.000	Peak	49.89	11.31	61.20	122.20	-61.00
5855.000	Peak	49.90	11.61	61.51	110.80	-49.29
5875.000	Peak	42.11	12.08	54.19	105.20	-51.01
5925.000	Peak	41.92	13.13	55.05	68.20	-13.15

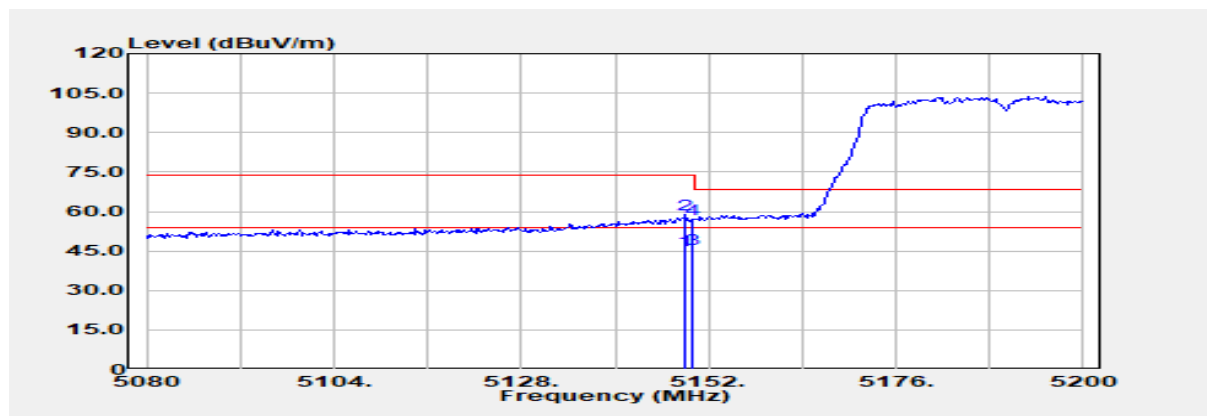
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Report Number :ER/2020/C0098
Operation Mode :802.11n40 / Band 1
Test Frequency :5190 MHz
Test Mode :BE CH LOW
EUT Pol :NB Plane

Test Site :966 Chamber C
Test Date :2021-01-16
Temp./Humi. :22.2/48
Antenna Pol. :Vertical
Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5149.039	Average	34.74	10.49	45.23	54.00	-8.77
5149.039	Peak	48.22	10.49	58.71	74.00	-15.29
5150.000	Average	35.19	10.50	45.69	54.00	-8.31
5150.000	Peak	46.49	10.50	56.99	74.00	-17.01

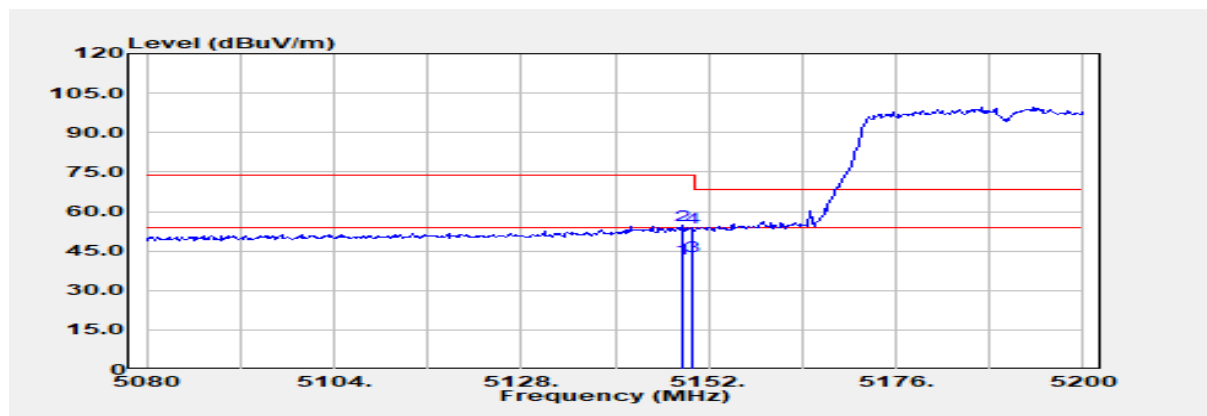
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Report Number :ER/2020/C0098
Operation Mode :802.11n40 / Band 1
Test Frequency :5190 MHz
Test Mode :BE CH LOW
EUT Pol :NB Plane

Test Site :966 Chamber C
Test Date :2021-01-16
Temp./Humi. :22.2/48
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5148.654	Average	31.78	10.48	42.26	54.00	-11.74
5148.654	Peak	44.11	10.48	54.60	74.00	-19.40
5150.000	Average	32.45	10.50	42.95	54.00	-11.05
5150.000	Peak	43.29	10.50	53.79	74.00	-20.21

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Report Number :ER/2020/C0098

Test Site :966 Chamber C

Operation Mode :802.11n40 / Band 2

Test Date :2021-01-16

Test Frequency :5310 MHz

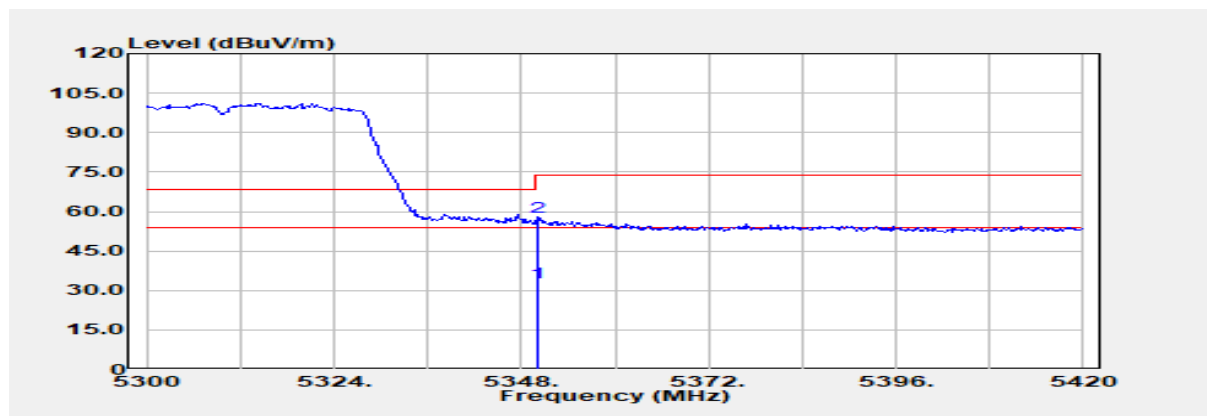
Temp./Humi. :22.6/45

Test Mode :BE CH HIGH

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.000	Average	21.28	11.74	33.02	54.00	-20.98
5350.000	Peak	46.19	11.74	57.93	74.00	-16.07

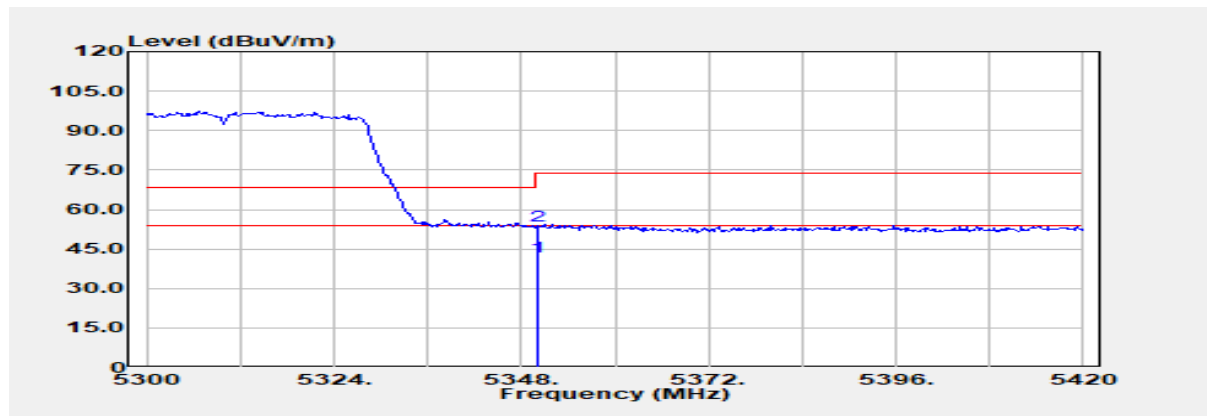
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Report Number :ER/2020/C0098
 Operation Mode :802.11n40 / Band 2
 Test Frequency :5310 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane

Test Site :966 Chamber C
 Test Date :2021-01-16
 Temp./Humi. :22.6/45
 Antenna Pol. :Horizontal
 Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.000	Average	30.22	11.74	41.96	54.00	-12.04
5350.000	Peak	42.36	11.74	54.09	74.00	-19.91

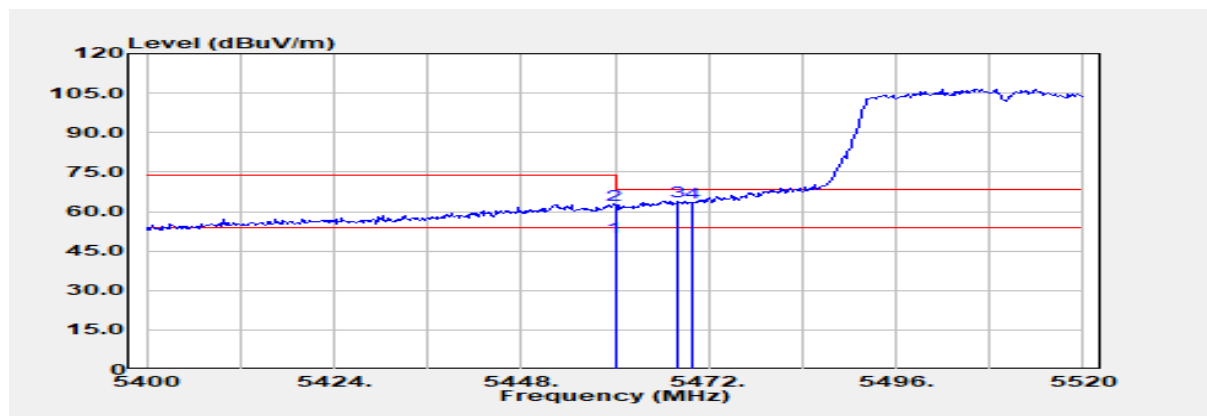
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Report Number :ER/2020/C0098
Operation Mode :802.11n40 / Band 3
Test Frequency :5510 MHz
Test Mode :BE CH LOW
EUT Pol :NB Plane

Test Site :966 Chamber C
Test Date :2021-01-16
Temp./Humi. :22.8/45
Antenna Pol. :Vertical
Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5460.000	Average	38.55	11.70	50.25	54.00	-3.75
5460.000	Peak	50.68	11.70	62.38	74.00	-11.62
5468.077	Peak	52.26	11.79	64.05	68.20	-4.15
5470.000	Peak	51.71	11.81	63.52	68.20	-4.68

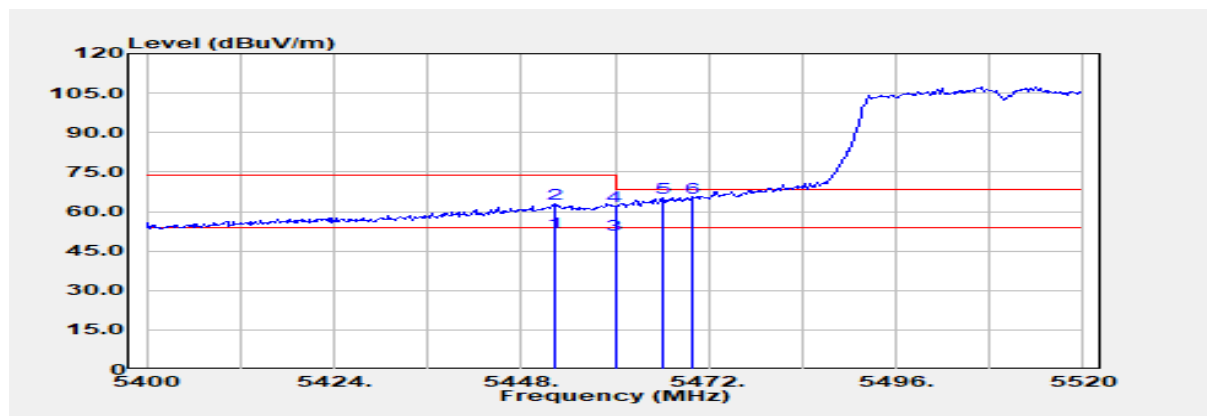
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Report Number :ER/2020/C0098
Operation Mode :802.11n40 / Band 3
Test Frequency :5510 MHz
Test Mode :BE CH LOW
EUT Pol :NB Plane

Test Site :966 Chamber C
Test Date :2021-01-16
Temp./Humi. :22.8/45
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



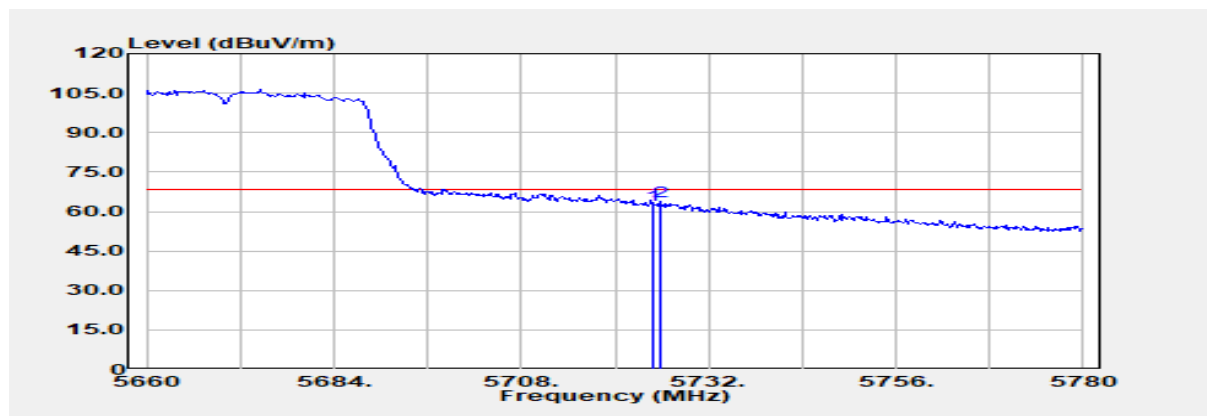
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5452.308	Average	39.86	12.08	51.94	54.00	-2.06
5452.308	Peak	50.93	12.08	63.00	74.00	-11.00
5460.000	Average	39.50	11.70	51.20	54.00	-2.80
5460.000	Peak	50.47	11.70	62.18	74.00	-11.82
5466.154	Peak	53.55	11.77	65.32	68.20	-2.88
5470.000	Peak	53.36	11.81	65.17	68.20	-3.03

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Report Number	:ER/2020/C0098	Test Site	:966 Chamber C
Operation Mode	:802.11n40 / Band 3	Test Date	:2021-01-16
Test Frequency	:5670 MHz	Temp./Humi.	:22.8/44
Test Mode	:BE CH HIGH	Antenna Pol.	:Vertical
EUT Pol	:NB Plane	Engineer	:Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5725.000	Peak	51.74	10.82	62.56	68.20	-5.64
5725.769	Peak	52.94	10.80	63.74	68.20	-4.46

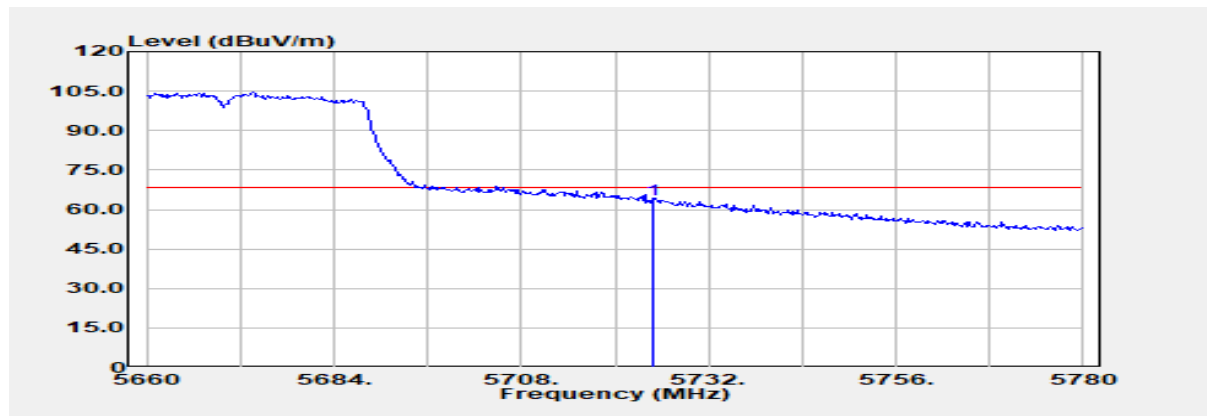
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Report Number :ER/2020/C0098
Operation Mode :802.11n40 / Band 3
Test Frequency :5670 MHz
Test Mode :BE CH HIGH
EUT Pol :NB Plane

Test Site :966 Chamber C
Test Date :2021-01-16
Temp./Humi. :22.8/44
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.000	Peak	53.13	10.82	63.95	68.20	-4.25

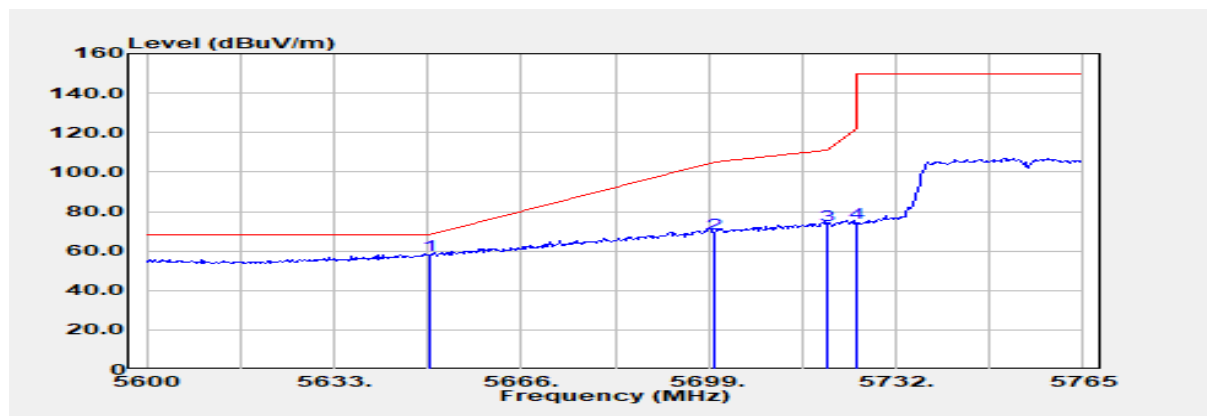
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Report Number :ER/2020/C0098
 Operation Mode :802.11n40 / Band 4
 Test Frequency :5755 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane

Test Site :966 Chamber C
 Test Date :2021-01-16
 Temp./Humi. :22.8/44
 Antenna Pol. :Vertical
 Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.000	Peak	47.17	10.61	57.78	68.20	-10.42
5700.000	Peak	58.37	10.61	68.97	105.20	-36.23
5720.000	Peak	61.96	10.96	72.92	110.80	-37.88
5725.000	Peak	63.67	10.82	74.49	122.20	-47.71

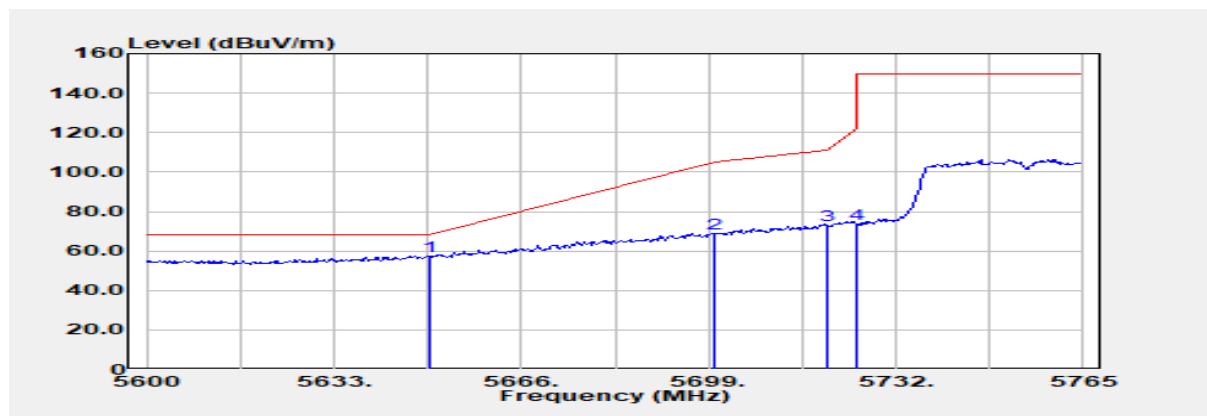
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Report Number :ER/2020/C0098
Operation Mode :802.11n40 / Band 4
Test Frequency :5755 MHz
Test Mode :BE CH LOW
EUT Pol :NB Plane

Test Site :966 Chamber C
Test Date :2021-01-16
Temp./Humi. :22.8/44
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5650.000	Peak	46.75	10.61	57.35	68.20	-10.85
5700.000	Peak	58.25	10.61	68.85	105.20	-36.35
5720.000	Peak	61.88	10.96	72.84	110.80	-37.96
5725.000	Peak	62.95	10.82	73.77	122.20	-48.43

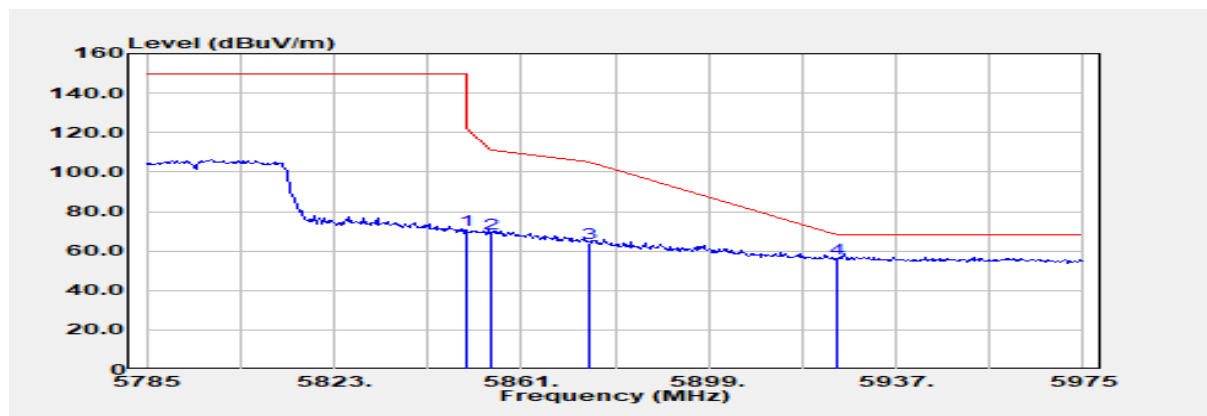
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Report Number :ER/2020/C0098
Operation Mode :802.11n40 / Band 4
Test Frequency :5795 MHz
Test Mode :BE CH HIGH
EUT Pol :NB Plane

Test Site :966 Chamber C
Test Date :2021-01-16
Temp./Humi. :23.0/45
Antenna Pol. :Vertical
Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.000	Peak	59.13	11.31	70.44	122.20	-51.76
5855.000	Peak	57.05	11.61	68.66	110.80	-42.14
5875.000	Peak	51.79	12.08	63.87	105.20	-41.33
5925.000	Peak	42.86	13.13	55.99	68.20	-12.21

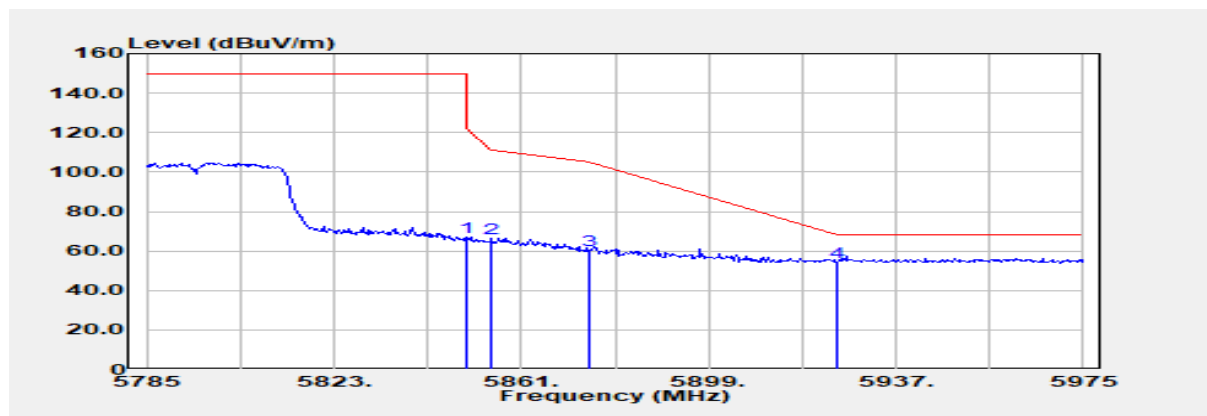
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Report Number :ER/2020/C0098
Operation Mode :802.11n40 / Band 4
Test Frequency :5795 MHz
Test Mode :BE CH HIGH
EUT Pol :NB Plane

Test Site :966 Chamber C
Test Date :2021-01-16
Temp./Humi. :23.0/45
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.000	Peak	55.81	11.31	67.12	122.20	-55.08
5855.000	Peak	54.65	11.61	66.26	110.80	-44.54
5875.000	Peak	48.54	12.08	60.62	105.20	-44.58
5925.000	Peak	41.43	13.13	54.56	68.20	-13.64

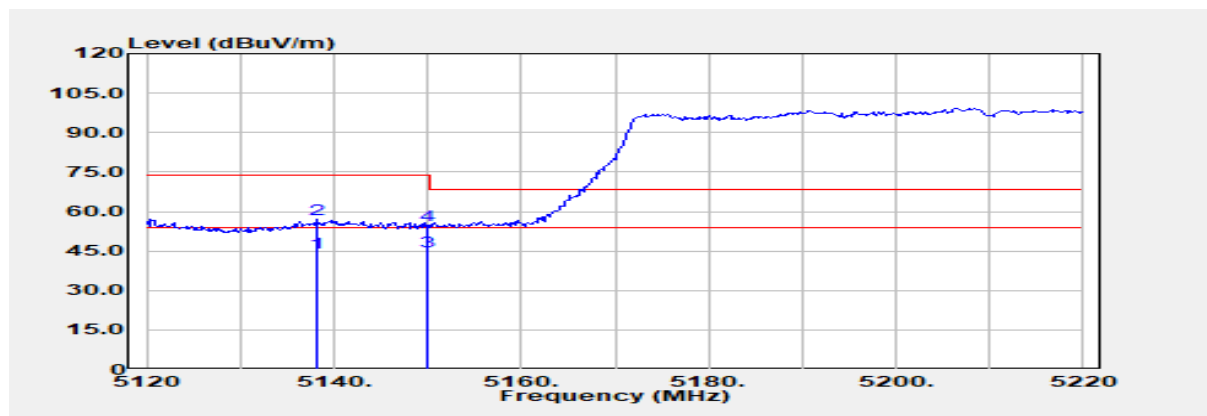
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Report Number :ER/2020/C0098
Operation Mode :802.11ac80 / Band 1
Test Frequency :5210 MHz
Test Mode :BE CH LOW
EUT Pol :NB Plane

Test Site :966 Chamber C
Test Date :2021-01-16
Temp./Humi. :23.1/45
Antenna Pol. :Vertical
Engineer :Ashton Chiu



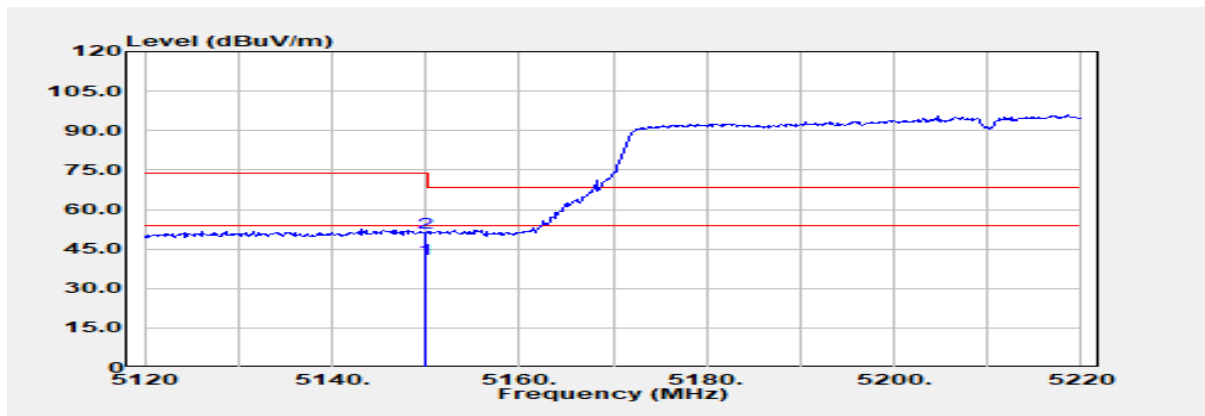
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5138.269	Average	33.96	10.31	44.27	54.00	-9.73
5138.269	Peak	46.66	10.31	56.97	74.00	-17.03
5150.000	Average	34.16	10.50	44.66	54.00	-9.34
5150.000	Peak	44.08	10.50	54.58	74.00	-19.42

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Report Number	:ER/2020/C0098	Test Site	:966 Chamber C
Operation Mode	:802.11ac80 / Band 1	Test Date	:2021-01-16
Test Frequency	:5210 MHz	Temp./Humi.	:23.1/45
Test Mode	:BE CH LOW	Antenna Pol.	:Horizontal
EUT Pol	:NB Plane	Engineer	:Ashton Chiu



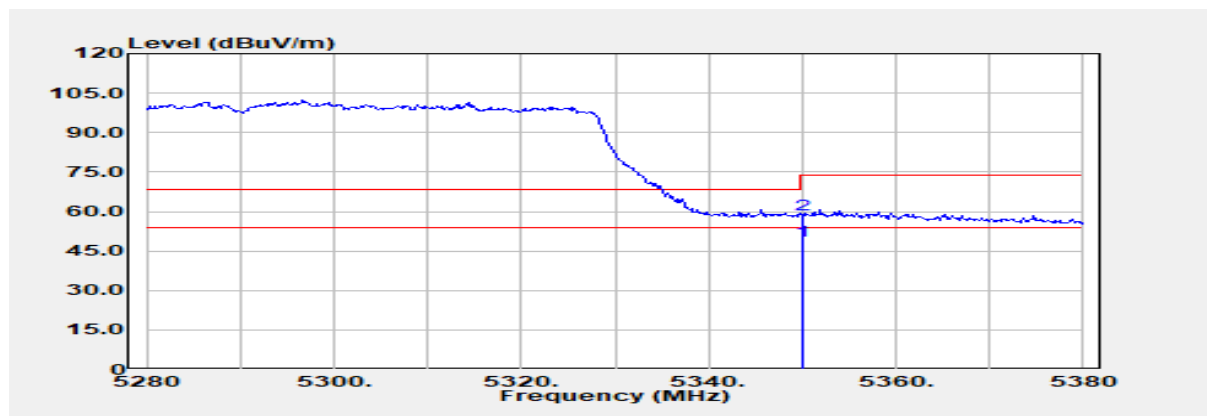
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5150.000	Average	30.72	10.50	41.22	54.00	-12.78
5150.000	Peak	40.74	10.50	51.24	74.00	-22.76

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Report Number	:ER/2020/C0098	Test Site	:966 Chamber C
Operation Mode	:802.11ac80 / Band 2	Test Date	:2021-01-16
Test Frequency	:5290 MHz	Temp./Humi.	:23.0/45
Test Mode	:BE CH HIGH	Antenna Pol.	:Vertical
EUT Pol	:NB Plane	Engineer	:Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.000	Average	37.04	11.74	48.78	54.00	-5.22
5350.000	Peak	47.32	11.74	59.06	74.00	-14.94

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Report Number :ER/2020/C0098

Test Site :966 Chamber C

Operation Mode :802.11ac80 / Band 2

Test Date :2021-01-16

Test Frequency :5290 MHz

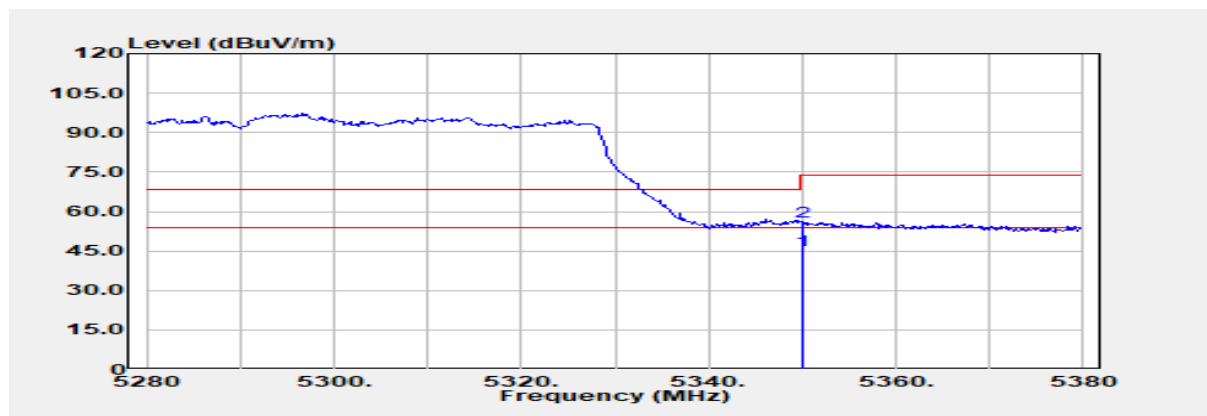
Temp./Humi. :23.0/45

Test Mode :BE CH HIGH

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.000	Average	33.69	11.74	45.43	54.00	-8.57
5350.000	Peak	44.27	11.74	56.00	74.00	-18.00

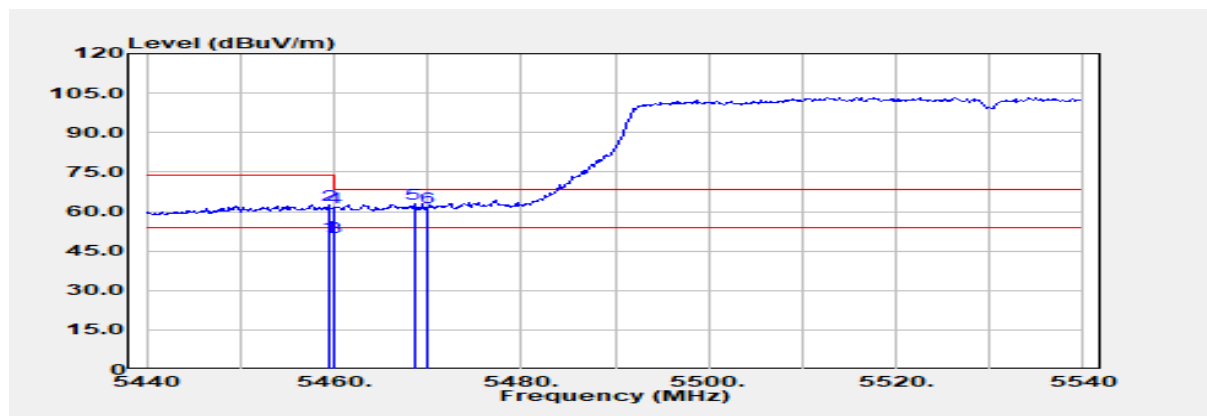
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Report Number :ER/2020/C0098
Operation Mode :802.11ac80 / Band 3
Test Frequency :5530 MHz
Test Mode :BE CH LOW
EUT Pol :NB Plane

Test Site :966 Chamber C
Test Date :2021-01-16
Temp./Humi. :22.9/45
Antenna Pol. :Vertical
Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5459.391	Average	38.86	11.73	50.59	54.00	-3.41
5459.391	Peak	50.87	11.73	62.61	74.00	-11.39
5460.000	Average	38.58	11.70	50.28	54.00	-3.72
5460.000	Peak	49.74	11.70	61.44	74.00	-12.56
5468.526	Peak	51.17	11.80	62.96	68.20	-5.24
5470.000	Peak	49.71	11.81	61.53	68.20	-6.67

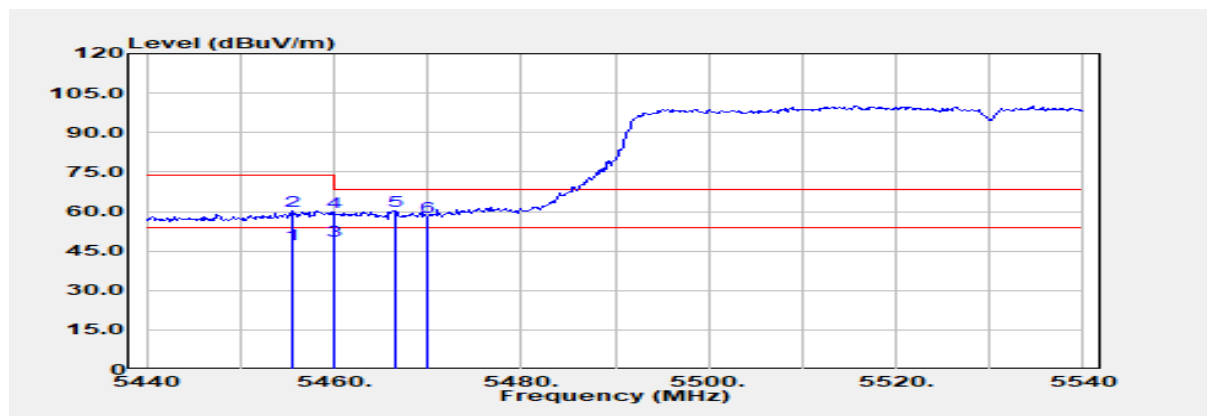
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Report Number :ER/2020/C0098
Operation Mode :802.11ac80 / Band 3
Test Frequency :5530 MHz
Test Mode :BE CH LOW
EUT Pol :NB Plane

Test Site :966 Chamber C
Test Date :2021-01-16
Temp./Humi. :22.9/45
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5455.545	Average	35.64	11.92	47.56	54.00	-6.44
5455.545	Peak	48.26	11.92	60.18	74.00	-13.82
5460.000	Average	37.05	11.70	48.75	54.00	-5.25
5460.000	Peak	47.91	11.70	59.61	74.00	-14.39
5466.442	Peak	48.32	11.77	60.09	68.20	-8.11
5470.000	Peak	46.00	11.81	57.81	68.20	-10.39

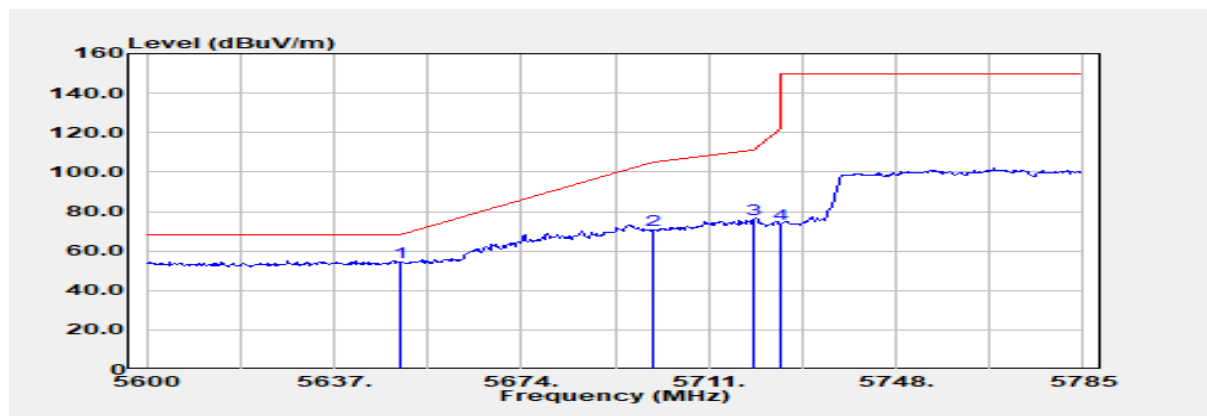
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Report Number :ER/2020/C00
Operation Mode :802.11ac80 / Band 4
Test Frequency :5775 MHz
Test Mode :BE CH LOW
EUT Pol :NB Plane

Test Site :966 Chamber C
Test Date :2021-02-02
Temp./Humi. :22.1/55
Antenna Pol. :Vertical
Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5650.000	Peak	43.58	10.51	54.09	68.20	-14.11
5700.000	Peak	60.09	10.41	70.49	105.20	-34.71
5720.000	Peak	65.35	10.76	76.11	110.80	-34.69
5725.000	Peak	63.01	10.62	73.63	122.20	-48.57

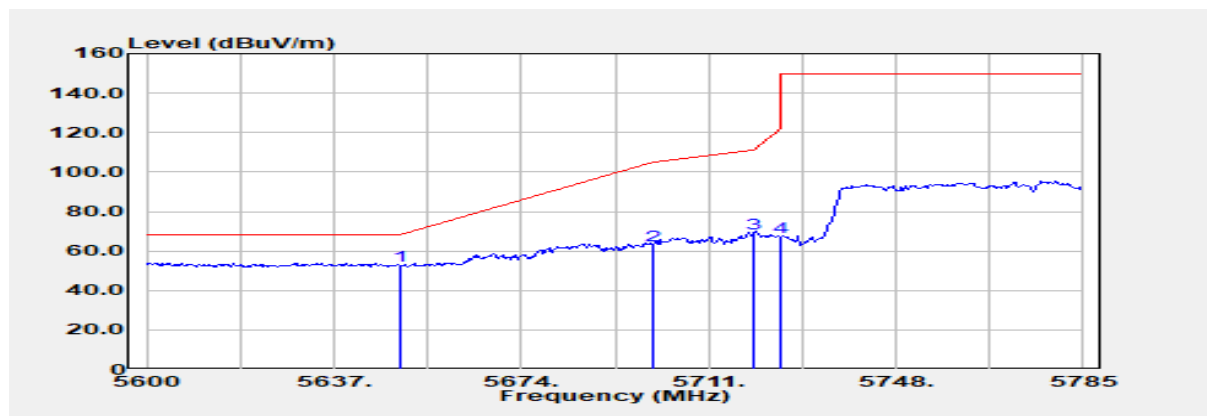
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Report Number :ER/2020/C00
Operation Mode :802.11ac80 / Band 4
Test Frequency :5775 MHz
Test Mode :BE CH LOW
EUT Pol :NB Plane

Test Site :966 Chamber C
Test Date :2021-02-02
Temp./Humi. :22.1/55
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



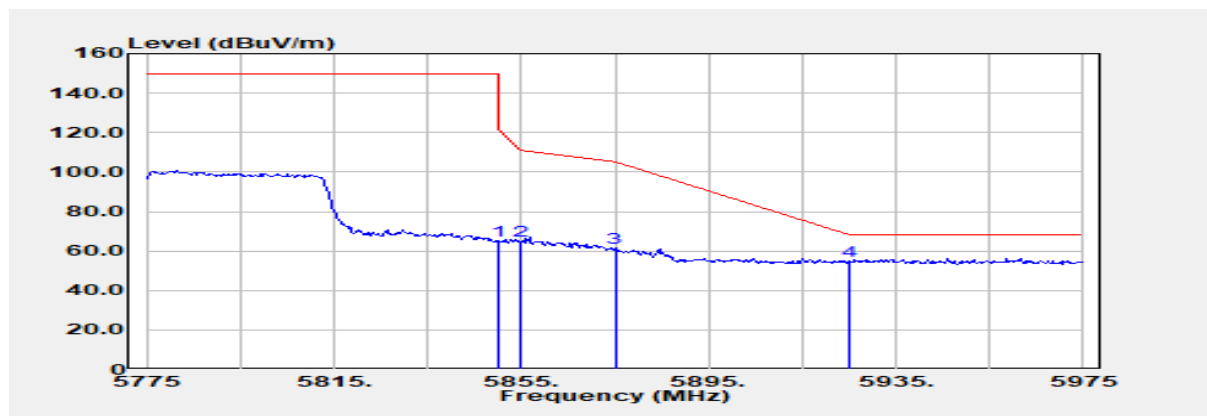
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
5650.000	Peak	42.23	10.51	52.74	68.20	-15.46
5700.000	Peak	52.35	10.41	62.76	105.20	-42.44
5720.000	Peak	58.06	10.76	68.82	110.80	-41.98
5725.000	Peak	56.27	10.62	66.89	122.20	-55.31

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Report Number	:ER/2020/C00	Test Site	:966 Chamber C
Operation Mode	:802.11ac80 / Band 4	Test Date	:2021-02-02
Test Frequency	:5775 MHz	Temp./Humi.	:22.1/55
Test Mode	:BE CH HIGH	Antenna Pol.	:Vertical
EUT Pol	:NB Plane	Engineer	:Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.000	Peak	53.91	11.31	65.22	122.20	-56.98
5855.000	Peak	53.35	11.61	64.96	110.80	-45.84
5875.000	Peak	49.49	12.08	61.57	105.20	-43.63
5925.000	Peak	41.93	12.98	54.91	68.20	-13.29

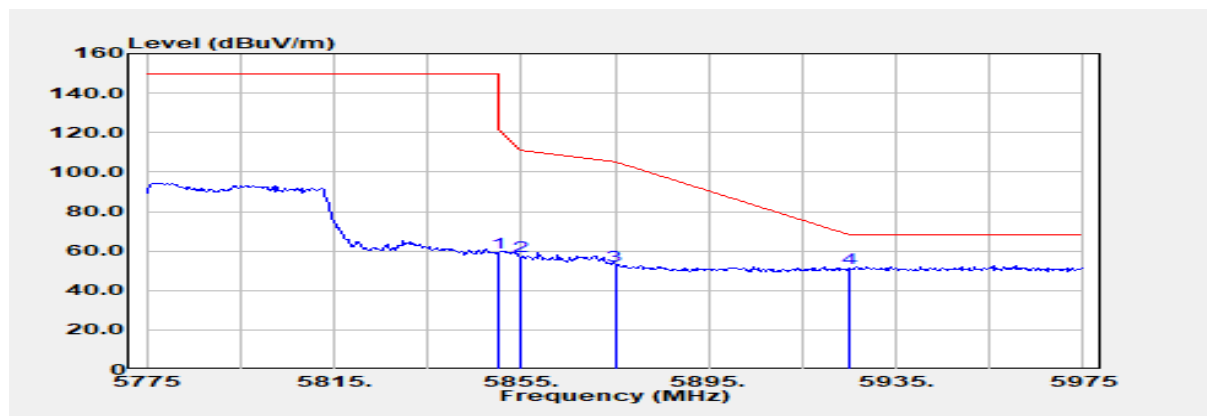
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Report Number :ER/2020/C00
Operation Mode :802.11ac80 / Band 4
Test Frequency :5775 MHz
Test Mode :BE CH HIGH
EUT Pol :NB Plane

Test Site :966 Chamber C
Test Date :2021-02-02
Temp./Humi. :22.1/55
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.000	Peak	47.90	11.31	59.21	122.20	-62.99
5855.000	Peak	45.82	11.61	57.43	110.80	-53.37
5875.000	Peak	40.18	12.08	52.26	105.20	-52.94
5925.000	Peak	38.36	12.98	51.34	68.20	-16.86

~ End of Report ~

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