

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART E REQUIREMENT

OF

Applicant: Acer Being Signage (Taiwan) Inc.
7F.-5, No.369, Fuxing N. Rd., Songshan Dist., Taipei City
105, Taiwan (R.O.C.)

Product Name: Smart Computer Stick

Brand Name: acer / BYOC

Model No.: ABS-3G1

Model Difference: N/A

FCC ID: 2APRRABS-3G1

Report Number: E2/2018/50028

FCC Rule Part: §15.407, Cat:NII

Issue Date: Jun. 08, 2018

Date of Test: Apr. 25, 2018~ Jun. 04, 2018

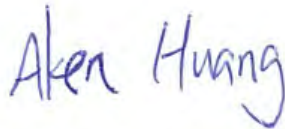
Date of EUT Received: Apr. 25, 2018

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Electronics & Communication Laboratory. 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.

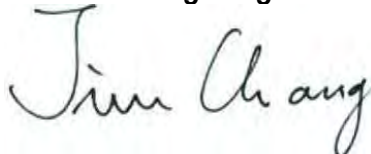
The test results of this report relate only to the tested sample identified in this report.

Tested By:



Aken Huang / Engineer

Approved By:



Jim Chang / Manager



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Revision History

Report Number	Revision	Description	Effected Page	Issue Date	Revised By
E2/2018/50028	Rev.00	Initial creation of document	All	Jun. 08, 2018	Violetta Tang

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1 GENERAL INFORMATION

1.1 Product Description

General:

Product Name:	Smart Computer Stick	
Brand Name:	acer / BYOC	
Model No.:	ABS-3G1	
Model difference:	N/A	
Hardware Version:	N/A	
Software Version:	N/A	
Power Supply:	12V from AC/DC Adapter	
	Adapter:	<ol style="list-style-type: none"> 1. Model No.: FSP036-RBBN2, Supplier: FSP GROUP INC. 2. Model No.: DA-36A12, Supplier: Asian Power Devices Inc.

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WLAN 5GHz:

Wi-Fi	Frequency Range	Channels	Avg. Power (dBm)	Modulation Technology
11a_20	5180~5240	4	17.11	OFDM
	5260~5320	4	16.82	
	5500~5720	12	15.67	
	5745-5825	6	18.94	
11n_HT / ac_VHT 20M	5180~5240	4	HT: 19.58	OFDM
	5260~5320	4	HT: 19.98	
	5500~5720	12	HT: 17.79	
	5745-5825	6	HT: 20.48	
11n_HT / ac_VHT 40M	5190~5230	2	HT: 18.02	OFDM
	5270~5310	2	HT: 18.25	
	5510~5710	6	HT: 17.33	
	5755~5795	3	HT: 20.12	
11ac VHT80M	5210	1	14.81	OFDM
	5290	1	17.21	
	5530~5690	3	17.48	
	5775	2	19.11	
Antenna Designation:	PIFA Antenna, Main Antenna: 5150~5250MHz Peak Gain: 1.92dBi 5250~5350MHz Peak Gain: 1.97dBi 5470~5725MHz Peak Gain: 2.51dBi 5725~5850MHz Peak Gain: 2.85dBi Aux Antenna: 5150~5250MHz Peak Gain: -2.43dBi 5250~5350MHz Peak Gain: -1.96dBi 5470~5725MHz Peak Gain: 0.70dBi 5725~5850MHz Peak Gain: -2.10dBi			
Modulation type	64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 802.11ac only			
Transition Rate:s	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 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

FCC KDB 644545 D03 v01 Guidance for IEEE 802.11ac

ANSI C63.10:2013

Note: All test items have been performed and record as per the above standards.

1.3 Test Facility

SGS Taiwan Ltd. Electronics & Communication Laboratory No.2, Keji 1st Rd.,
Guishan District, Taoyuan City, Taiwan 333 (TAF code 0513)

FCC Registration Numbers are: 735305 / TW0002

1.4 Special Accessories

There are no special accessories used while test was conducted.

1.5 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

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

2.2 EUT Exercise

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

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plane. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz,. The CISPR Quasi-Peak and Average detector mode is employed according to §15.207. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

2.3.2 Radiated Emissions

The EUT is a placed on as turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plan. 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

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.

Note:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

2.5 Configuration of Tested System

Fig. 2-1 Radiated & Conducted Emission Configuration

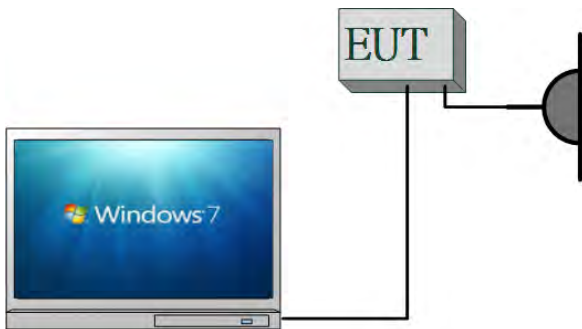


Fig.2-3 AC power line Configuration

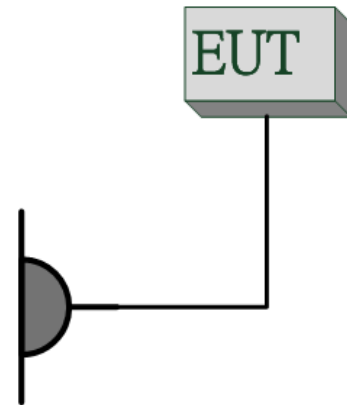


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1	WLAN Test Software	N/A	N/A	N/A	N/A	N/A
2	Notebook	Lenovo	L420	S0011721	N/A	N/A

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3 SUMMARY OF TEST RESULT

FCC Rules	Description Of Test	Result
§15.207	AC Power Line Conducted Emission	Compliant
§15.403(i) §15.407(e)	26dB & 6dB Emission Bandwidth	Compliant
§15.407(a)	Maximum Conducted Output Power	Compliant
§15.407(a)	Power Spectral Density	Compliant
§15.407(b)	Undesirable Radiated Emissions	Compliant
§15.407(c)	Transmission in case of Absence of Information	Compliant
§15.407(g)	Frequency Stability	Compliant
§15.203 §15.407(a)	Antenna Requirement	Compliant

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4 DESCRIPTION OF TEST MODES

4.1 Operated in U-NII Bands

Operated band in 5150 MHz ~5250 MHz:

4 channels are provided for 802.11a, 802.11n_HT20, 802.11ac_VHT20

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
36	5180 MHz	44	5220 MHz
40	5200 MHz	48	5240 MHz

2 channels are provided for 802.11n_HT40, 802.11ac_VHT40

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
38	5190 MHz	46	5230 MHz

1 channel is provided for 802.11ac_VHT80

CHANNEL	FREQUENCY
42	5210 MHz

Operated band in 5250 MHz ~5350 MHz:

4 channels are provided for 802.11a, 802.11n_HT20, 802.11ac_VHT20

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
52	5260 MHz	60	5300 MHz
56	5280 MHz	64	5320 MHz

2 channels are provided for 802.11n_HT40, 802.11ac_VHT40

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
54	5270 MHz	62	5310 MHz

1 channel is provided for 802.11ac_VHT80

CHANNEL	FREQUENCY
58	5290 MHz

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Operated band in 5470 MHz ~5725 MHz:

12 channels are provided for 802.11a, 802.11n_HT20, 802.11ac_VHT20

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
100	5500 MHz	124	5620 MHz
104	5520 MHz	128	5640 MHz
108	5540 MHz	132	5660 MHz
112	5560 MHz	136	5680 MHz
116	5580 MHz	140	5700 MHz
120	5600 MHz	144	5720 MHz

6 channels are provided for 802.11n_HT40, 802.11ac_VHT40

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
102	5510 MHz	126	5630 MHz
110	5550 MHz	134	5670 MHz
118	5590 MHz	142	5710 MHz

3 channels are provided for 802.11ac_VHT80

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
106	5530 MHz	138	5690 MHz
122	5610 MHz		

Operated band in 5725 MHz ~5850 MHz:

6 channels are provided for 802.11a, 802.11n_HT20, 802.11ac_VHT20

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
144	5720 MHz	157	5785 MHz
149	5745 MHz	161	5805 MHz
153	5765 MHz	165	5825 MHz

3 channels are provided for 802.11n_HT40, 802.11ac_VHT40

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
142	5710 MHz	159	5795 MHz
151	5755 MHz		

2 channel is provided for 802.11ac_VHT80

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
138	5690 MHz	155	5775 MHz

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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.
4. The given UE is pre-scanned among 802.11n and ac modes, and 802.11n yields the highest reading that generates the highest emission.
5. The given UE is pre-scanned among SISO Main, SISO Aux and MIMO modes, and MIMO mode yields the highest reading that generates the highest emission. Therefore, 802.11ac+MIMO as the mode of radiated test configuration is chosen to carry out the relevantly mandatory test items.

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RADIATED EMISSION TEST:
RADIATED EMISSION TEST (BELOW 1 GHz)

MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	44	OFDM	6	Main
802.11ac_VHT80	5210	42	42	OFDM	MCS8	MIMO
802.11a	5260~5320	52 to 64	60	OFDM	6	Main
802.11ac_VHT80	5290	58	58	OFDM	MCS8	MIMO
802.11a	5500~5720	100 to 144	116	OFDM	6	Main
802.11ac_VHT80	5530~5690	106 to 138	122	OFDM	MCS8	MIMO
802.11a	5745~5825	149 to 165	157	OFDM	6	Main
802.11ac_VHT80	5775	155	155	OFDM	MCS8	MIMO

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	36,44,48	OFDM	6	Main
802.11n_HT20				OFDM	MCS8	MIMO
802.11n_HT40	5190~5230	38 to 46	38,46	OFDM	MCS8	MIMO
802.11ac_VHT80	5210	42	42	OFDM	MCS8	MIMO
802.11a	5260~5320	52 to 64	52,60,64	OFDM	6	Main
802.11n_HT20				OFDM	MCS8	MIMO
802.11n_HT40	5270~5310	54 to 62	54,62	OFDM	MCS8	MIMO
802.11ac_VHT80	5290	58	58	OFDM	MCS8	MIMO
802.11a	5500~5720	100 to 144	100,116,140,144	OFDM	6	Main
802.11n_HT20				OFDM	MCS8	MIMO
802.11n_HT40				OFDM	MCS8	MIMO
802.11ac_VHT80	5530~5690	106 to 138	106,122,138	OFDM	MCS8	MIMO
802.11a	5745~5825	149 to 165	149,157,165	OFDM	6	Main
802.11n_HT20				OFDM	MCS8	MIMO
802.11n_HT40				OFDM	MCS8	MIMO
802.11ac_VHT80	5775	155	155	OFDM	MCS8	MIMO

Note:

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

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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	Main
802.11n_HT20 802.11ac_VHT20				OFDM	MCS8	MIMO
802.11n_HT40 802.11ac_VHT40	5190~5230	38 to 46	38,46	OFDM	MCS8	MIMO
802.11ac_VHT80	5210	42	42	OFDM	MCS8	MIMO
802.11a	5260~5320	52 to 64	52,60,64	OFDM	6	Main
802.11n_HT20 802.11ac_VHT20				OFDM	MCS8	MIMO
802.11n_HT40 802.11ac_VHT40	5270~5310	54 to 62	54,62	OFDM	MCS8	MIMO
802.11ac_VHT80	5290	58	58	OFDM	MCS8	MIMO
802.11a	5500~5720	100 to 144	100,116,140,144	OFDM	6	Main
802.11n_HT20 802.11ac_VHT20				OFDM	MCS8	MIMO
802.11n_HT40 802.11ac_VHT40	5510~5710	102 to 142	102,110,134,142	OFDM	MCS8	MIMO
802.11ac_VHT80	5530~5690	106 to 138	106,122,138	OFDM	MCS8	MIMO
802.11a	5745~5825	149 to 165	149,157,165	OFDM	6	Main
802.11n_HT20 802.11ac_VHT20				OFDM	MCS8	MIMO
802.11n_HT40 802.11ac_VHT40	5755~5795	151 to 159	151,159	OFDM	MCS8	MIMO
802.11ac_VHT80	5775	155	155	OFDM	MCS8	MIMO

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5 MEASUREMENT UNCERTAINTY

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

Radiated Spurious Emission:

Measurement uncertainty (Polarization : Vertical)	9kHz-30MHz: +/-2.87dB
	30MHz - 180MHz: +/- 3.37dB
	180MHz -417MHz: +/- 3.19dB
	0.417GHz-1GHz: +/- 3.19dB
	1GHz - 18GHz: +/- 4.04dB
	18GHz - 40GHz: +/- 4.04dB

Measurement uncertainty (Polarization : Horizontal)	9kHz-30MHz: +/-2.87dB
	30MHz - 167MHz: +/- 4.22dB
	167MHz -500MHz: +/- 3.44dB
	0.5GHz-1GHz: +/- 3.39dB
	1GHz - 18GHz: +/- 4.08dB
	18GHz - 40GHz: +/- 4.08dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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6 CONDUCTED EMISSION TEST

6.1 Standard Applicable

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

Frequency range MHz	Limits dB(uV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

Note
1.The lower limit shall apply at the transition frequencies
2.The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

6.2 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESCI 7	100950	2017/12/24	2018/12/23
Coaxial Cables	N/A	N30N30-1042-150cm	N/A	2017/08/30	2018/08/29
LISN	Schwarzbeck	NSLK 8127	8127-648	2017/06/18	2018/06/17
Test Software	Farad	EZ-EMC	Ver. SGS-03A2	N.C.R.	N.C.R.

6.3 EUT Setup

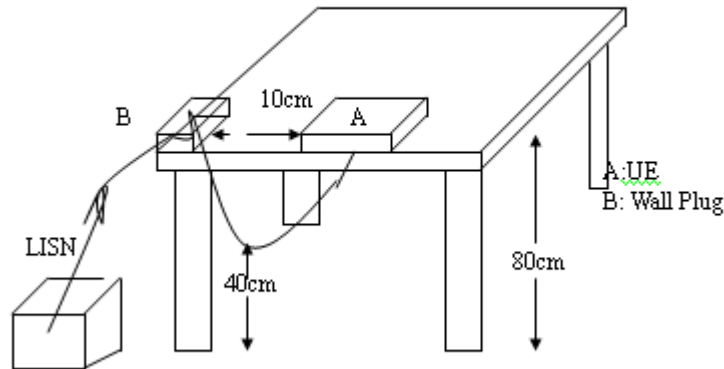
1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2013.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The rear of the EUT and peripherals were placed flushed with the rear of the tabletop.
3. The LISN was connected with 120Vac/60Hz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

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6.4 Test SET-UP



6.5 Measurement Procedure

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

6.6 Measurement Result

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

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

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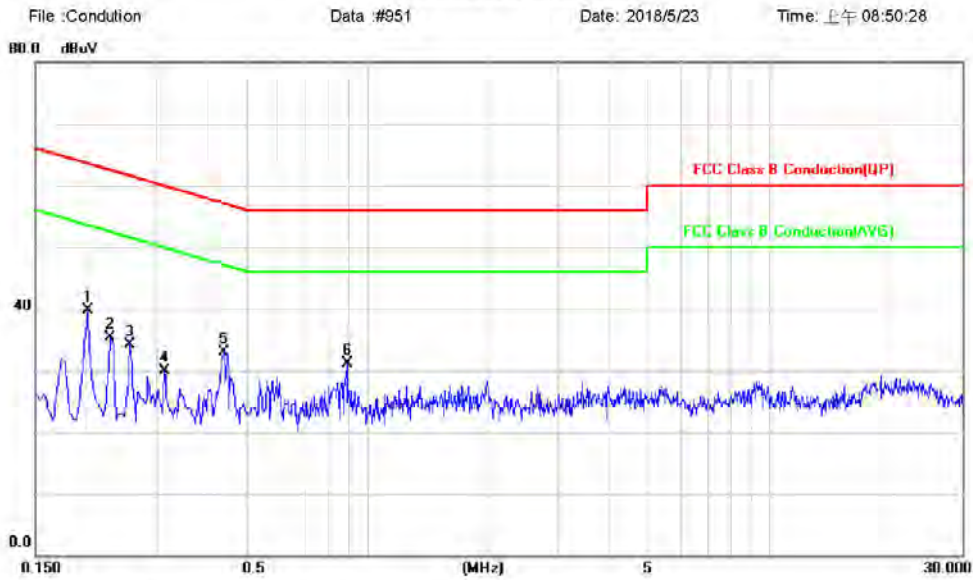
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Operation mode	Test By:	Jerry
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Site : Conduction Room	Phase: L1	Temperature: 20 ℃
Limit: FCC Class B Conduction(QP)	Power: AC 120V/60Hz	Humidity: 48 %
Mode:		
Note:		

Conducted Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.2020	20.11	19.64	39.75	63.53	-23.78	peak	
2		0.2300	15.64	19.71	35.35	62.45	-27.10	peak	
3		0.2580	14.30	19.78	34.08	61.50	-27.42	peak	
4		0.3140	10.07	19.91	29.98	59.86	-29.88	peak	
5		0.4420	12.87	20.11	32.98	57.02	-24.04	peak	
6		0.8900	11.26	19.89	31.15	56.00	-24.85	peak	

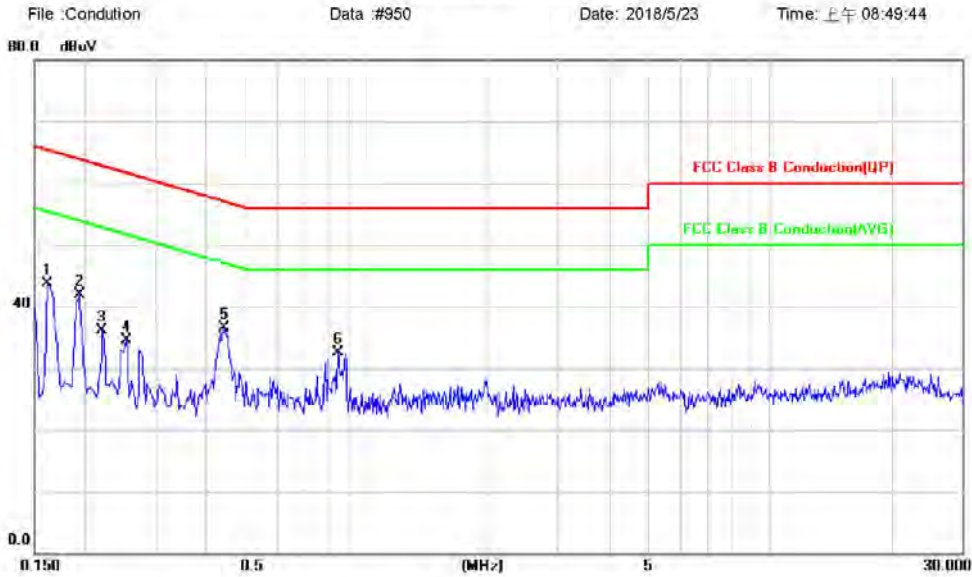
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Site : Conduction Room Phase: **N** Temperature: 20 °C
 Limit: FCC Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 48 %
 Mode:
 Note:

Conducted Emission



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1620	24.16	19.64	43.80	65.36	-21.56	peak	
2		0.1940	22.28	19.62	41.90	63.86	-21.96	peak	
3		0.2220	16.41	19.67	36.08	62.74	-26.66	peak	
4		0.2540	14.77	19.75	34.52	61.63	-27.11	peak	
5 *		0.4460	16.47	20.10	36.57	56.95	-20.38	peak	
6		0.8500	12.62	19.90	32.52	56.00	-23.48	peak	

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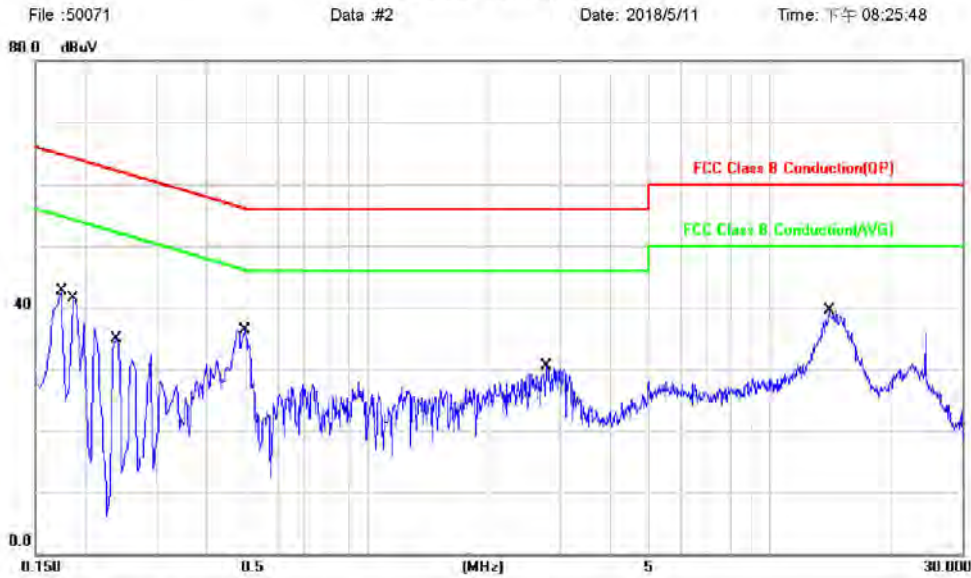
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Operation Mode:	Operation mode	Test By:	Jerry
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Site : Conduction Room Phase: **L1** Temperature: 22 °C
 Limit: FCC Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 62 %
 Mode: Mode 5
 Note:

Conducted Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1740	41.00	0.04	41.04	64.77	-23.73	QP	
2		0.1740	23.30	0.04	23.34	54.77	-31.43	AVG	
3		0.1860	39.70	0.03	39.73	64.21	-24.48	QP	
4		0.1860	23.50	0.03	23.53	54.21	-30.68	AVG	
5		0.2380	32.40	0.03	32.43	62.17	-29.74	QP	
6		0.2380	14.80	0.03	14.83	52.17	-37.34	AVG	
7		0.4980	35.00	0.04	35.04	56.03	-20.99	QP	
8	*	0.4980	28.30	0.04	28.34	46.03	-17.69	AVG	
9		2.7900	26.00	0.30	26.30	56.00	-29.70	QP	
10		2.7900	16.10	0.30	16.40	46.00	-29.60	AVG	
11		14.0620	33.10	0.81	33.91	60.00	-26.09	QP	
12		14.0620	25.00	0.81	25.81	50.00	-24.19	AVG	

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7 DUTY CYCLE TEST SIGNAL

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

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

Formula:

$$\text{Duty Cycle} = T_{on} / (T_{on} + T_{off})$$

Measurement Procedure:

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

Duty Cycle:

Mode	Duty Cycle (%)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
802.11a	97.11	0.13	0.72	1.00
802.11n_20	94.47	0.25	1.48	2.00
802.11ac_20	96.99	0.13	0.76	1.00
802.11n_40	89.92	0.46	2.87	3.00
802.11ac_40	94.30	0.25	1.53	2.00
802.11ac_80	88.97	0.51	3.09	4.00

$$\text{Duty Cycle Factor: } 10 * \log(1/0.9711) = 0.13$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.9447) = 0.25$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.9699) = 0.13$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.8992) = 0.46$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.943) = 0.25$$

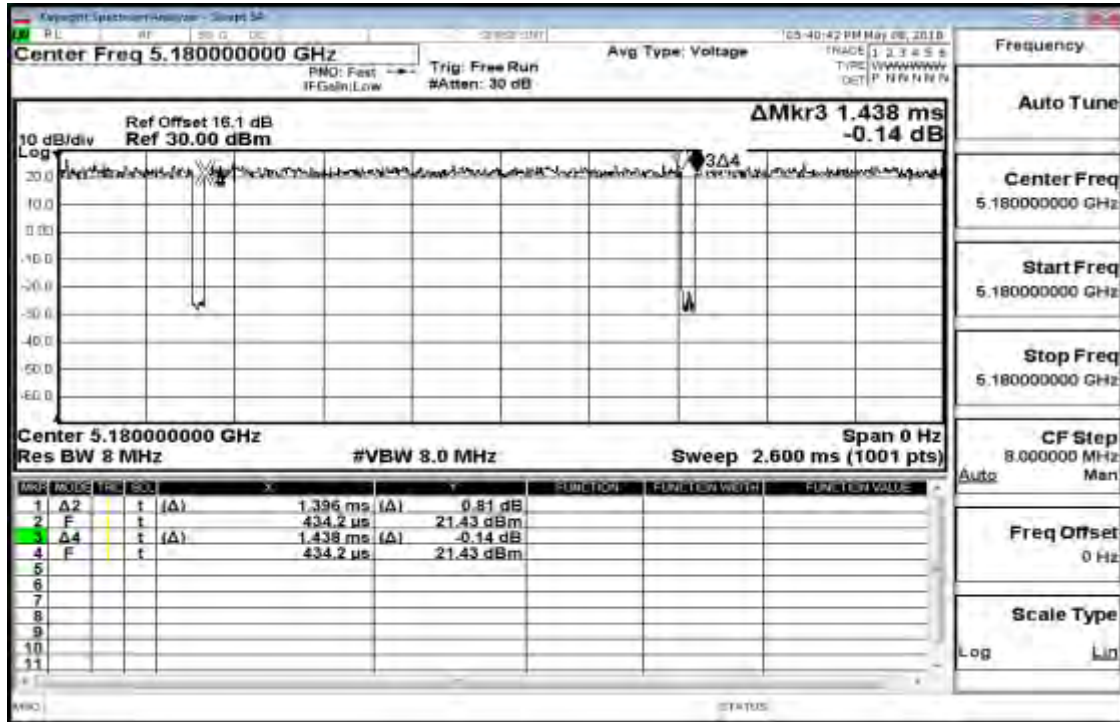
$$\text{Duty Cycle Factor: } 10 * \log(1/0.8897) = 0.51$$

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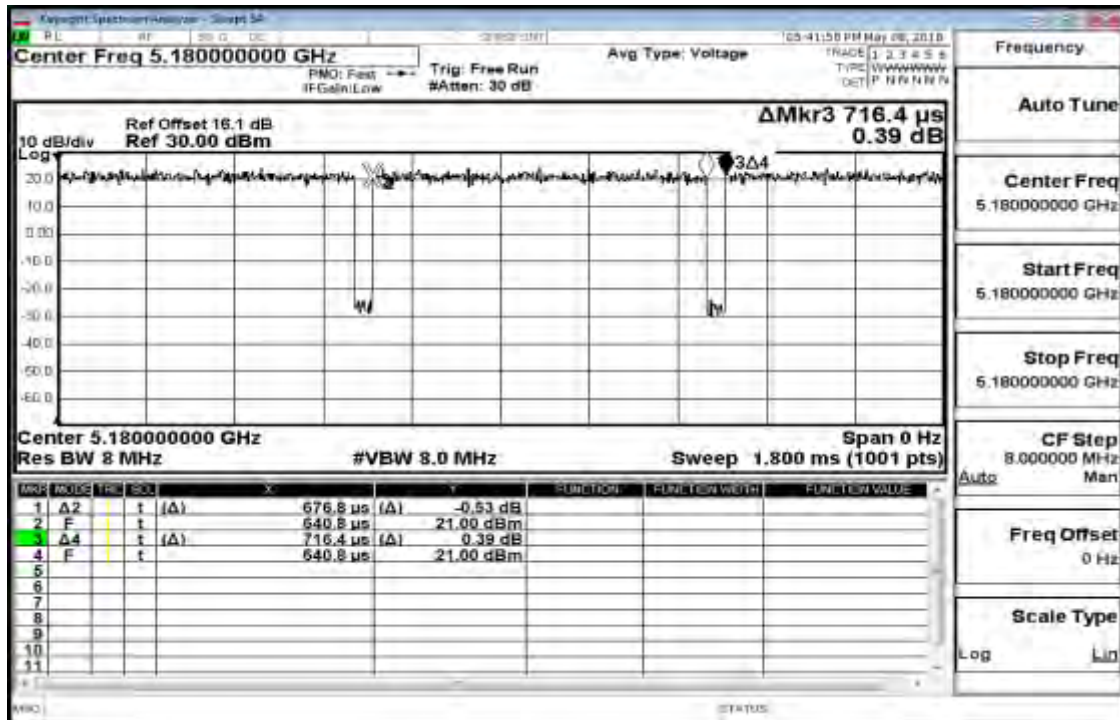
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DUTY CYCLE TEST SIGNAL Measurement Result 802.11a



802.11n HT20

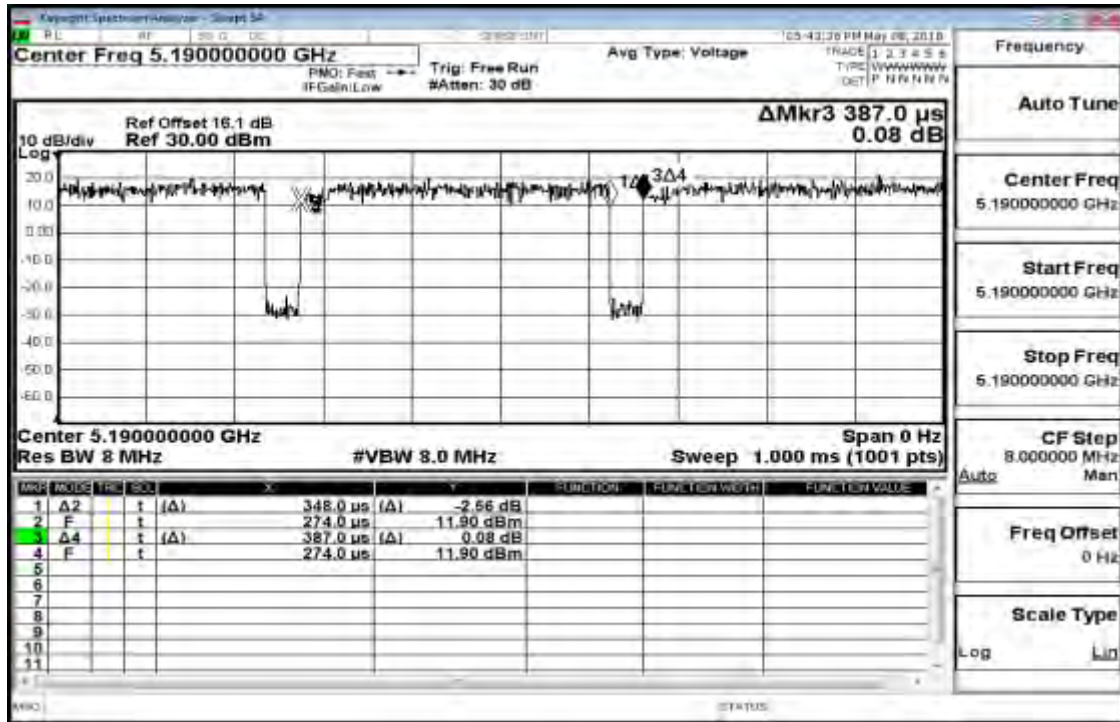


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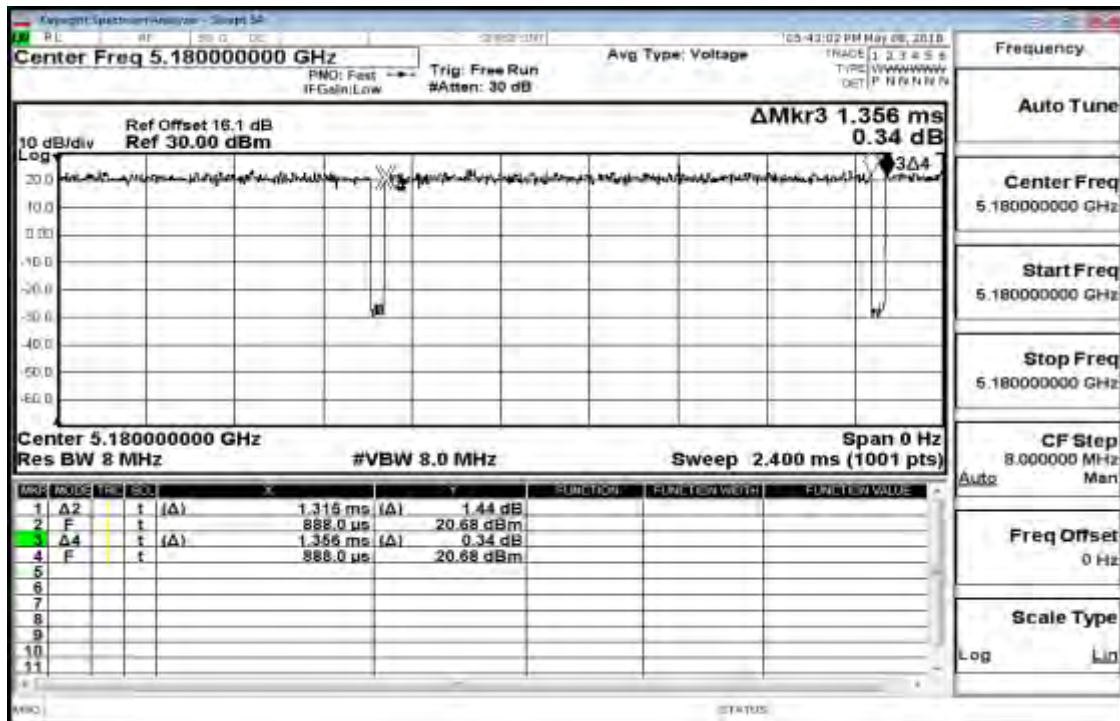
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802.11n HT 40



802.11ac VHT20

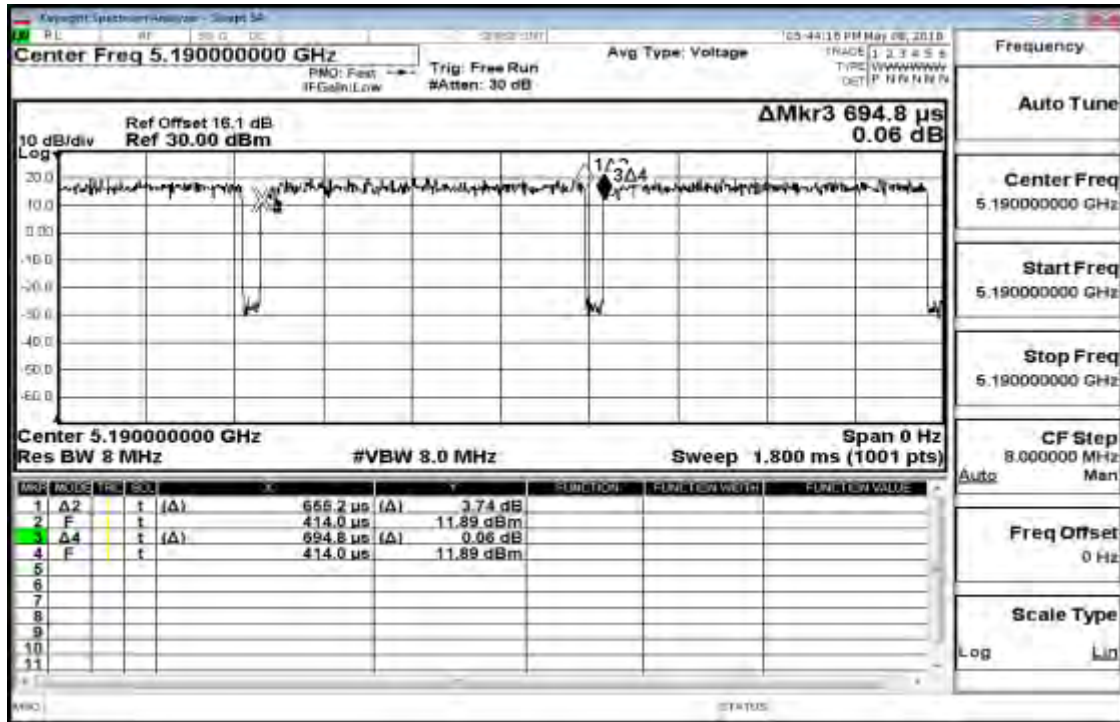


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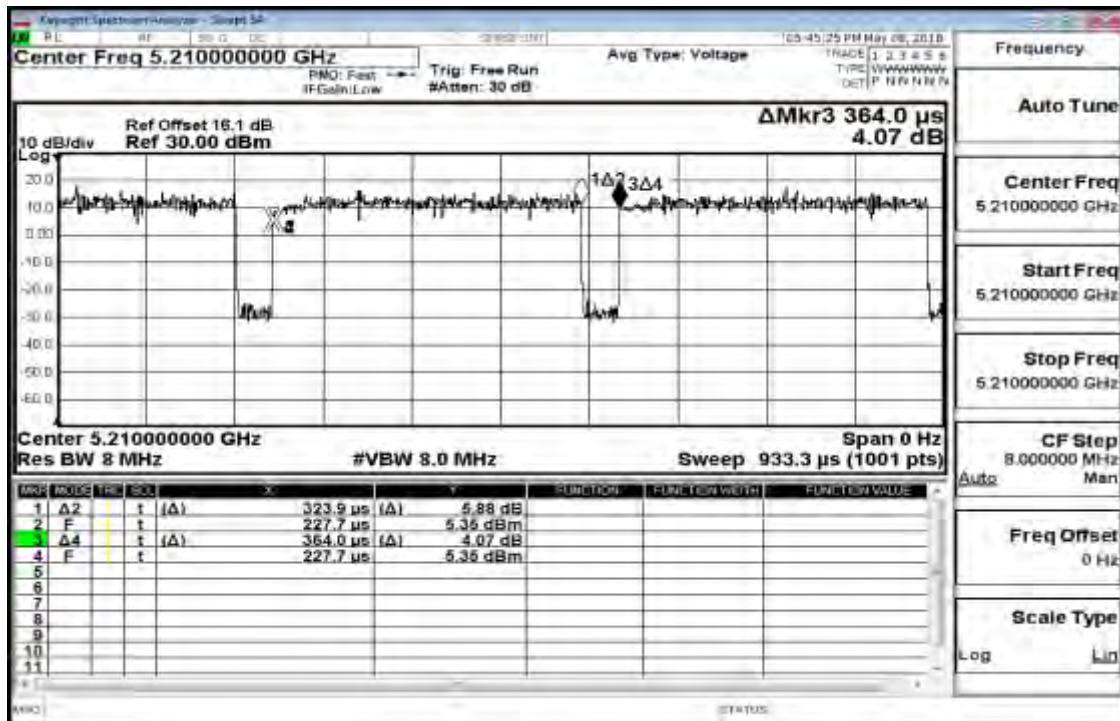
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802.11ac VHT 40



802.11 ac VHT 80



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8 26dB & 6dB EMISSION BANDWIDTH MEASUREMENT

8.1 Standard Applicable

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

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

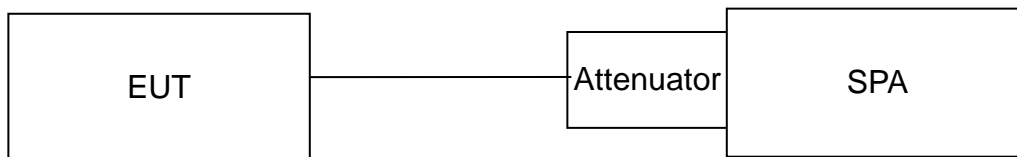
8.2 Measurement Procedure

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

8.3 Measurement Equipment Used

SGS Conducted Room					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum Analyzer	Agilent	N9010A	MY51440113	2017/06/21	2018/06/20
Attenuator	Marvelous	MVE2213-10	RF30	2017/12/26	2018/12/25
Attenuator	Marvelous	MVE2213-10	RF31	2017/12/26	2018/12/25
Notebook	Lenovo	L420	S0011721	N/A	N/A

8.4 Test Set-up



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8.5 Measurement Result

26dB and 6dB Bandwidth

802.11a_Main

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	21.41	13.305	5180	20.77	13.175
5220	21.19	13.260	5220	20.54	13.126
5240	21.50	13.323	5240	21.08	13.239
5260	21.62	13.348	5260	21.07	13.237
5300	21.45	13.314	5300	21.18	13.259
5320	21.62	13.349	5320	21.65	13.354
5500	21.56	13.336	5500	21.21	13.265
5580	21.69	13.362	5580	21.40	13.305
5700	21.32	13.287	5700	21.20	13.263
5720(U-NII 2C)	22.29	13.481	5720(U-NII 2C)	16.78	12.248
5720 (U-NII 3)	6.98	8.440	5720 (U-NII 3)	5.26	7.209

802.11a_Aux1

802.11a_Main

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	16.33	12.131	5745	16.42	12.154
5785	16.35	12.135	5785	16.36	12.138
5825	16.35	12.136	5825	16.36	12.137

802.11a_Aux1

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802.11n_HT20_Main

802.11n_HT20_Aux1

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	21.42	13.307	5180	21.39	13.302
5220	21.54	13.332	5220	21.43	13.310
5240	21.42	13.308	5240	21.49	13.322
5260	21.64	13.353	5260	21.53	13.331
5300	21.54	13.332	5300	21.72	13.369
5320	21.67	13.358	5320	20.67	13.154
5500	21.67	13.358	5500	21.48	13.321
5580	21.50	13.324	5580	21.63	13.350
5700	21.52	13.329	5700	21.35	13.294
5720(U-NII 2C)	16.16	12.084	5720(U-NII 2C)	16.09	12.066
5720 (U-NII 3)	5.55	7.443	5720 (U-NII 3)	5.52	7.419

802.11n_HT20_Main

802.11n_HT20_Aux1

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	17.62	12.461	5745	17.58	12.451
5785	17.60	12.454	5785	16.96	12.295
5825	17.59	12.451	5825	17.60	12.455

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802.11n_HT40_Main

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	39.55	15.971	5190	39.52	15.968
5230	39.75	15.994	5230	39.36	15.951
5270	39.24	15.938	5270	39.69	15.987
5310	39.47	15.963	5310	39.54	15.971
5510	39.57	15.974	5510	39.66	15.983
5550	39.25	15.939	5550	39.41	15.957
5670	39.45	15.961	5670	42.40	16.274
5710 (U-NII 2C)	38.16	15.816	5710 (U-NII 2C)	44.02	16.436
5710 (U-NII 3)	4.81	6.821	5710 (U-NII 3)	5.55	7.443

802.11n_HT40_Aux1

802.11n_HT40_Main

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	36.40	15.611	5755	36.36	15.607
5795	35.79	15.538	5795	35.78	15.536

802.11n_HT40_Aux1

802.11ac_VHT80_Main

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	81.07	19.089	5210	81.62	19.118
5290	81.19	19.095	5290	81.14	19.093
5530	80.96	19.082	5530	80.94	19.082
5610	80.40	19.053	5610	81.10	19.090
5690 (U-NII 2C)	91.26	19.603	5690 (U-NII 2C)	76.95	18.862
5690 (U-NII 3)	5.28	7.226	5690 (U-NII 3)	4.46	6.492

802.11ac_VHT80_Aux1

802.11ac_VHT80_Main

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	75.85	18.800	5775	75.53	18.781

802.11ac_VHT80_Aux1

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Band-Corssing Signals

802.11a_Main
802.11a_Aux1

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)	Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5240	5248.22	< 5250	5240	5248.19	< 5250
5745	5736.18	> 5725	5745	5736.63	> 5725

802.11n_HT20_Main
802.11n_HT20_Aux1

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)	Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5240	5248.79	< 5250	5240	5248.82	< 5250
5745	5735.91	> 5725	5745	5736.12	> 5725

802.11n_HT40_Main
802.11n_HT40_Aux1

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)	Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5230	5248.07	< 5250	5230	5248.12	< 5250
5755	5736.70	> 5725	5755	5736.80	> 5725

802.11ac_VHT80_Main
802.11n_HT80_Aux1

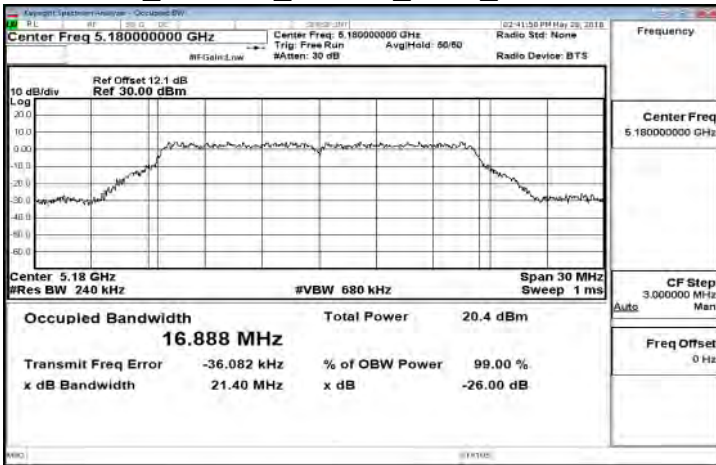
Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)	Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5210	5247.72	< 5250	5210	5247.82	< 5250
5775	5736.90	> 5725	5775	5737.10	> 5725

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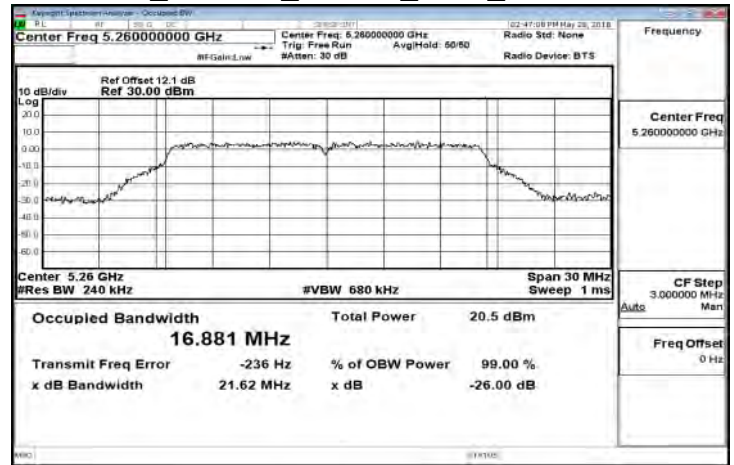
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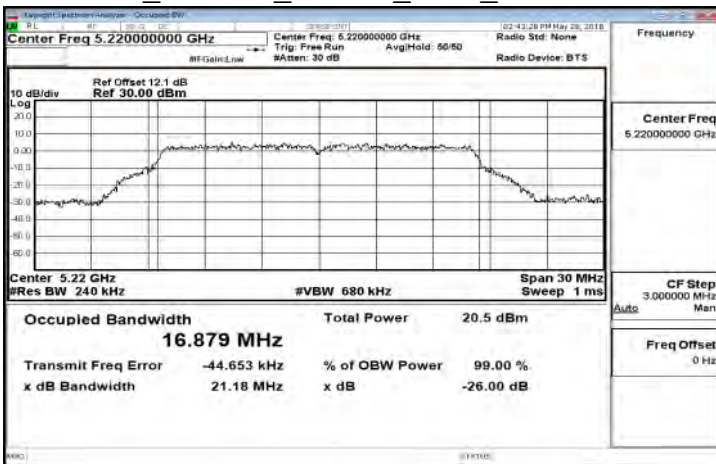
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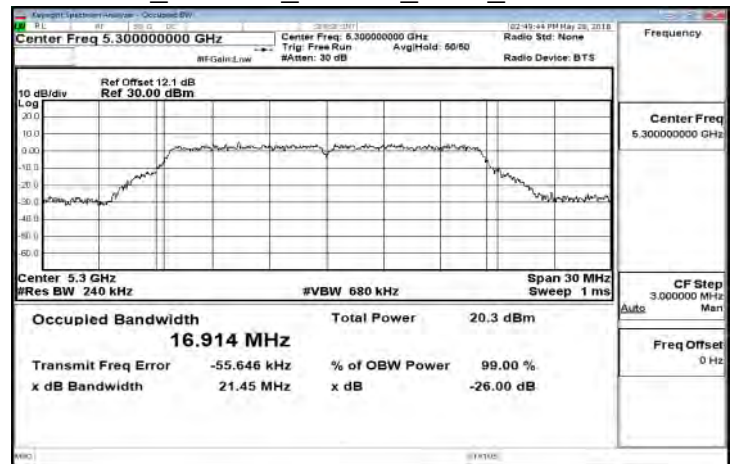
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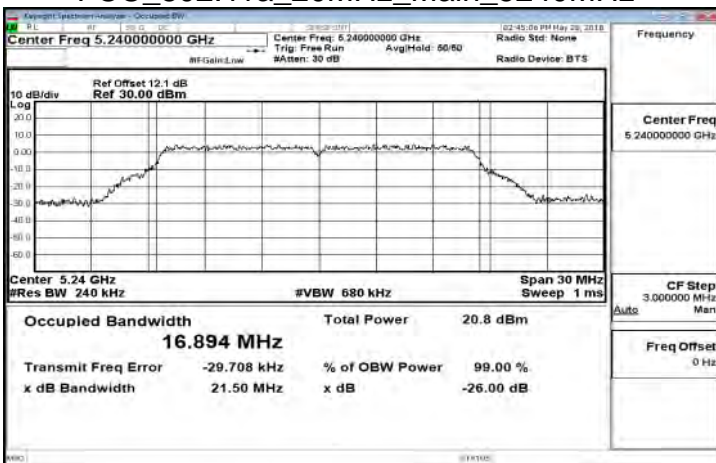
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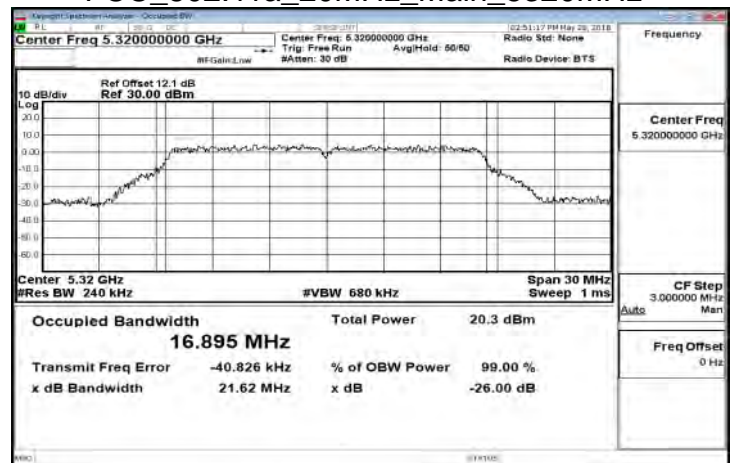
FCC_802.11a_20MHz_Main_5300MHz



FCC_802.11a_20MHz_Main_5240MHz



FCC_802.11a_20MHz_Main_5320MHz

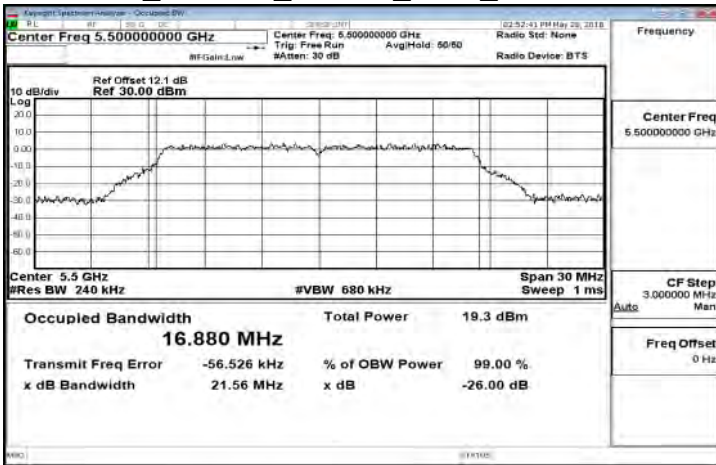


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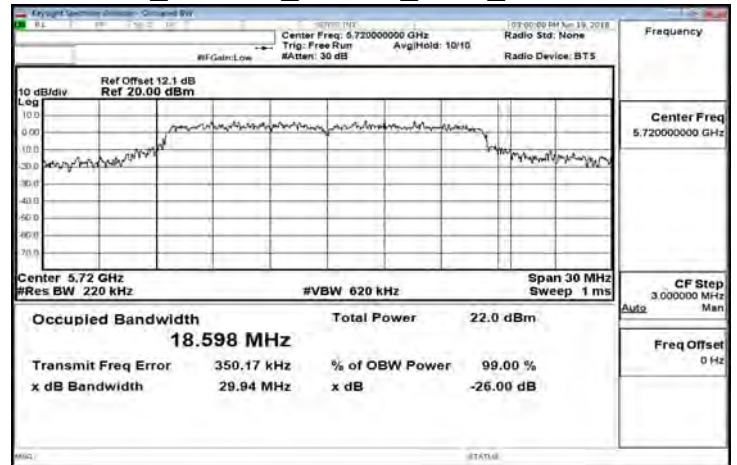
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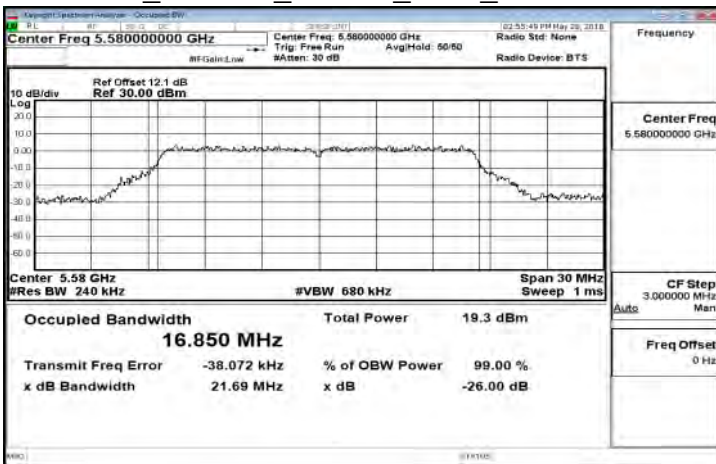
FCC_802.11a_20MHz_Main_5500MHz



FCC_802.11a_20MHz_Main_5720MHz



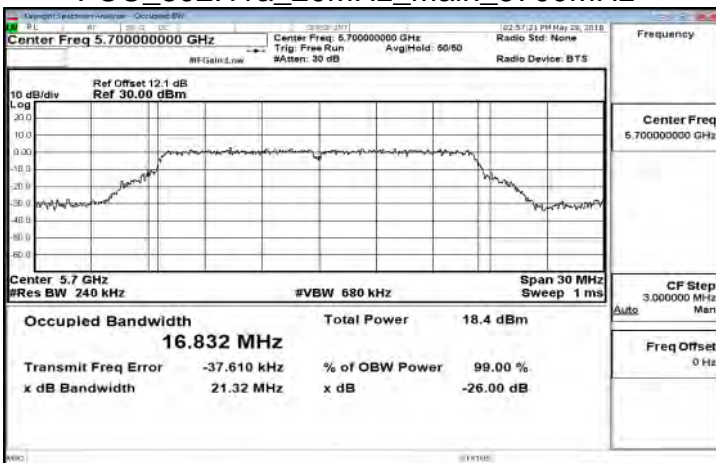
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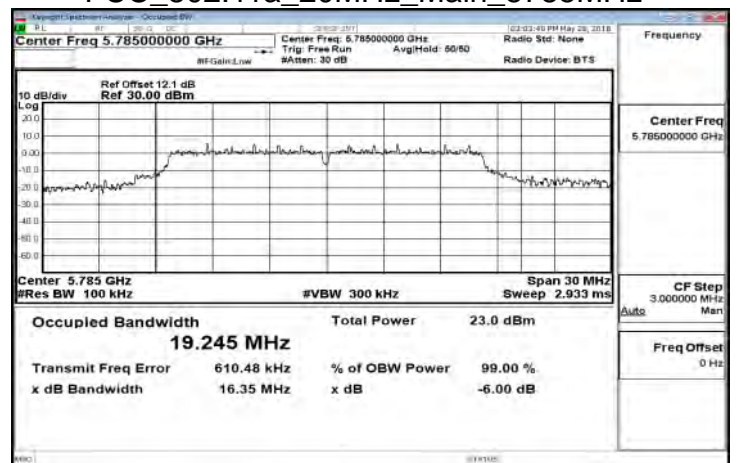
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FCC_802.11a_20MHz_Main_5700MHz



FCC_802.11a_20MHz_Main_5785MHz

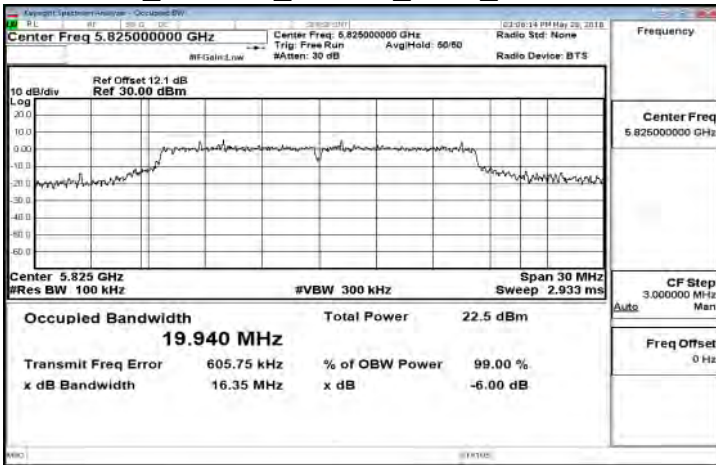


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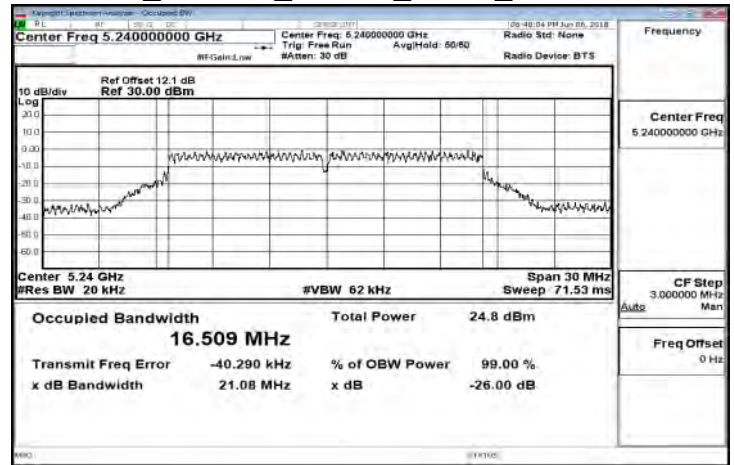
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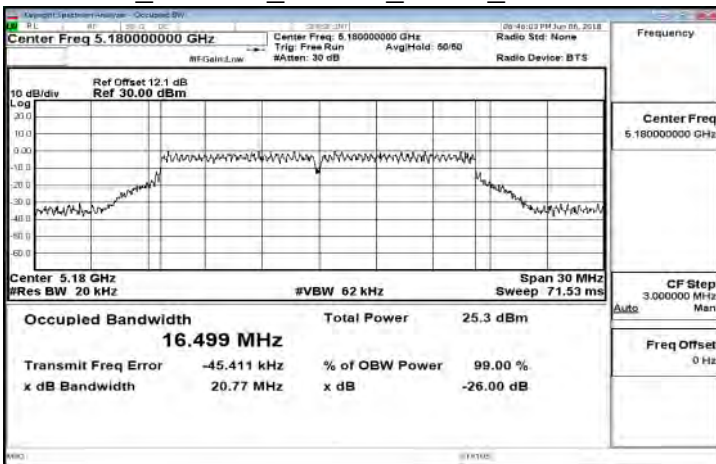
FCC 802.11a_20MHz_Main_5825MHz



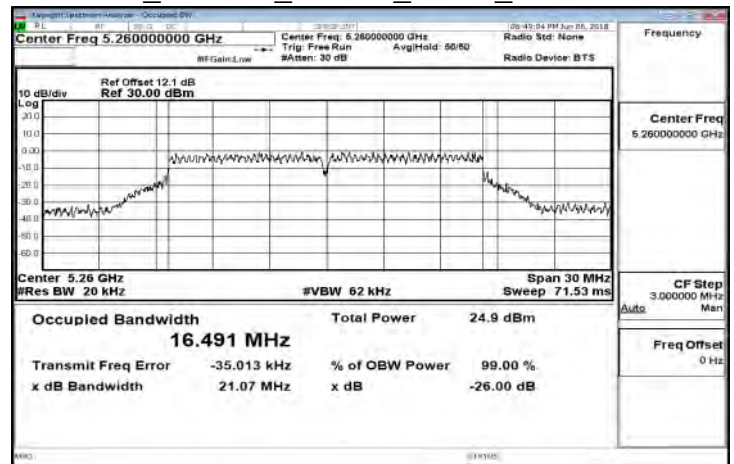
FCC 802.11a_20MHz_AUX1_5240MHz



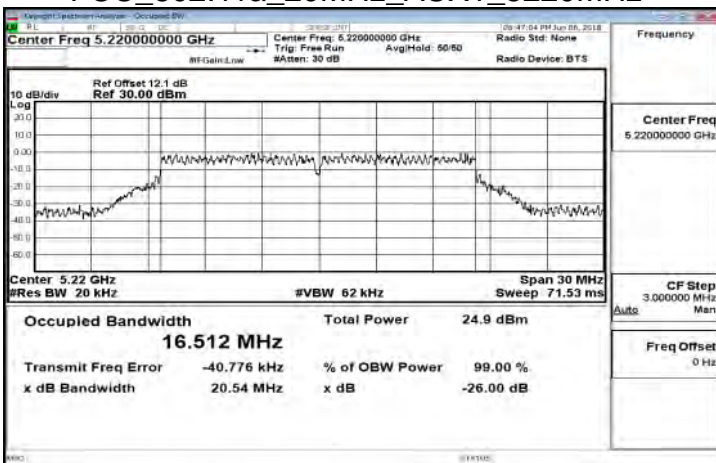
FCC 802.11a_20MHz_AUX1_5180MHz



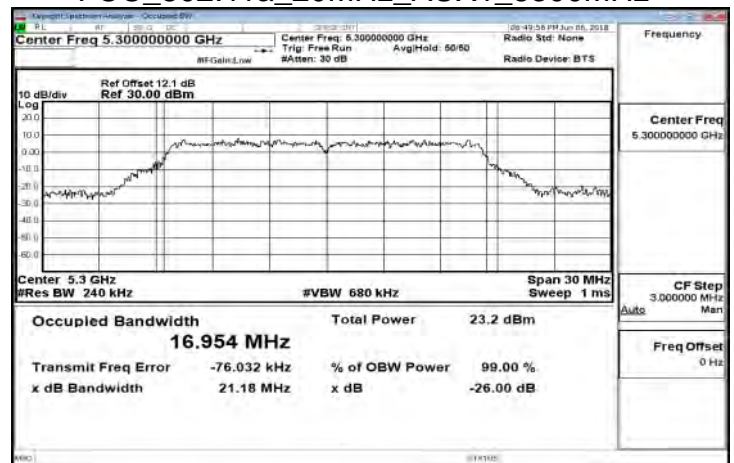
FCC 802.11a_20MHz_AUX1_5260MHz



FCC 802.11a_20MHz_AUX1_5220MHz



FCC 802.11a_20MHz_AUX1_5300MHz

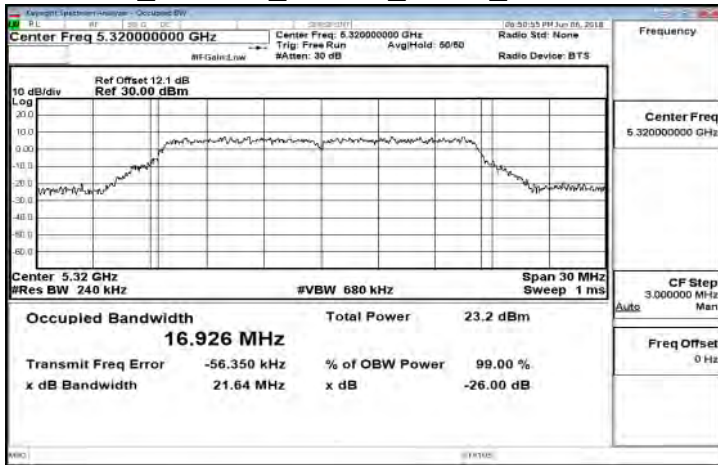


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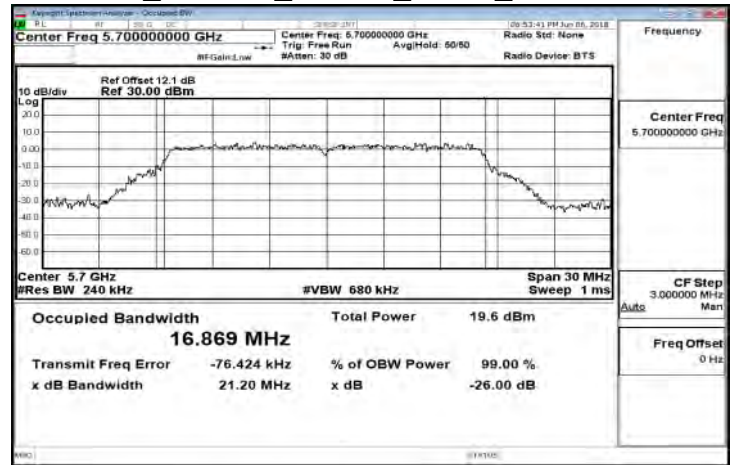
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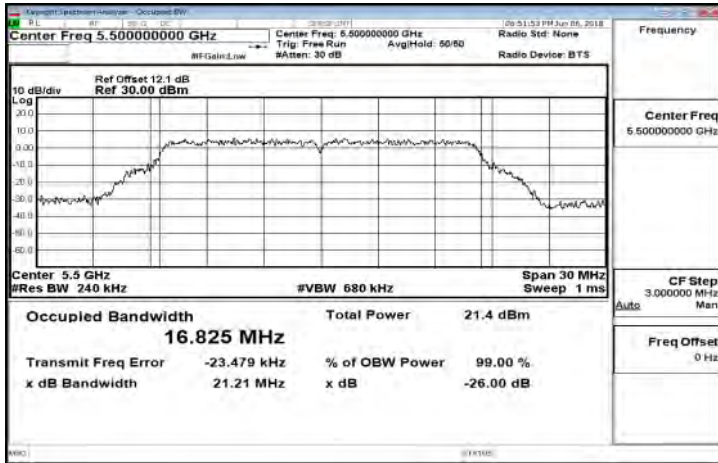
FCC_802.11a_20MHz_AUX1_5320MHz



FCC_802.11a_20MHz_AUX1_5700MHz



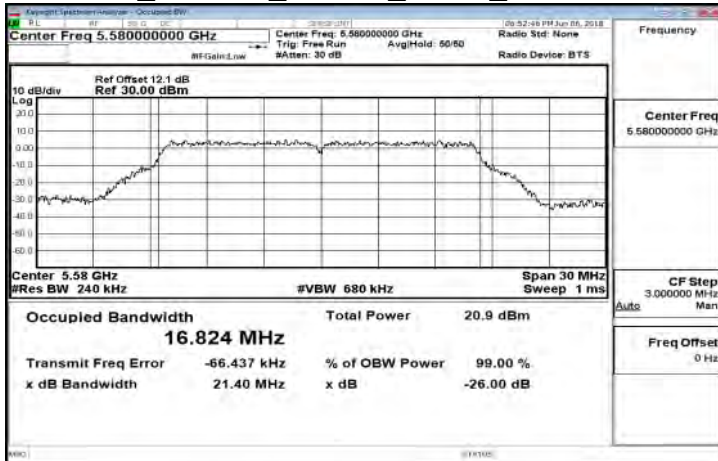
FCC_802.11a_20MHz_AUX1_5500MHz



FCC_802.11a_20MHz_AUX1_5720MHz



FCC_802.11a_20MHz_AUX1_5580MHz



FCC_802.11a_20MHz_AUX1_5745MHz

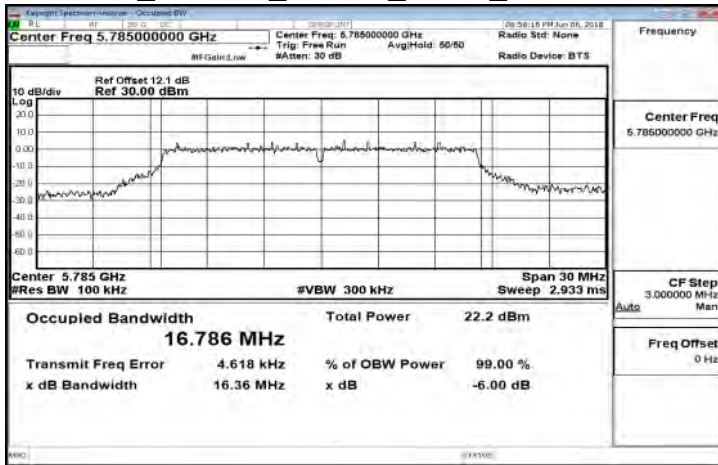


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FCC_802.11a_20MHz_AUX1_5785MHz



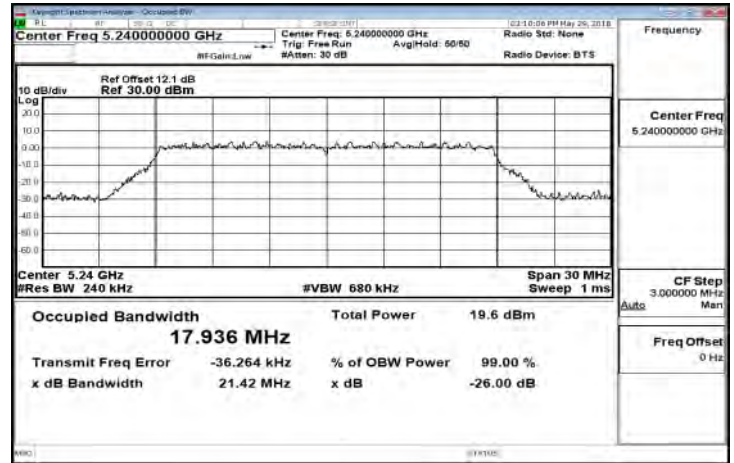
FCC_802.11n_20MHz_Main_5220MHz



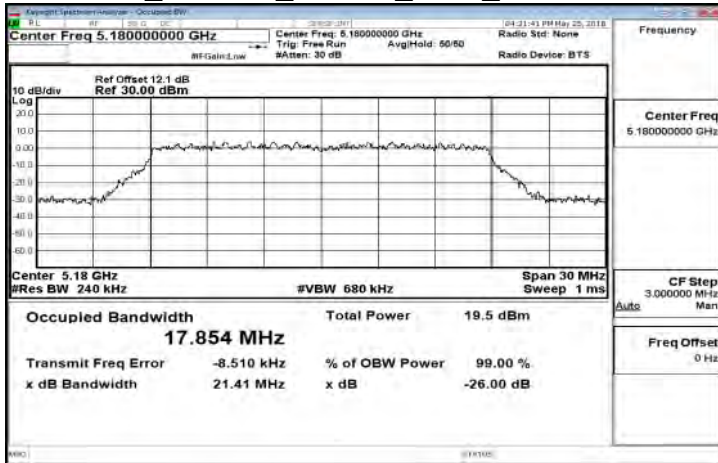
FCC_802.11a_20MHz_AUX1_5825MHz



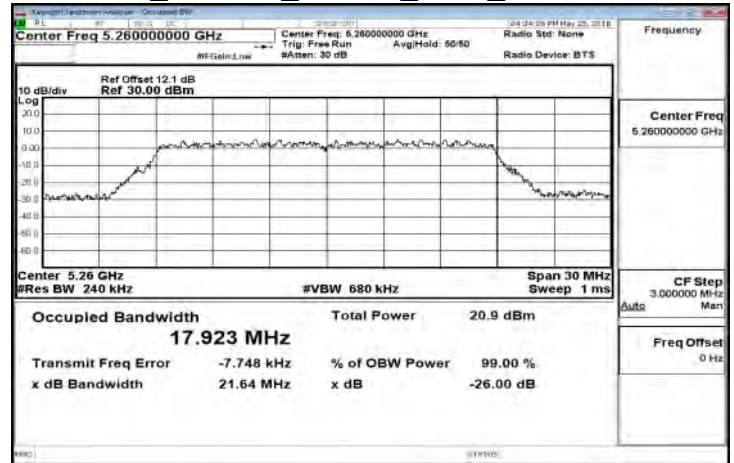
FCC_802.11n_20MHz_Main_5240MHz



FCC_802.11n_20MHz_Main_5180MHz



FCC_802.11n_20MHz_Main_5260MHz

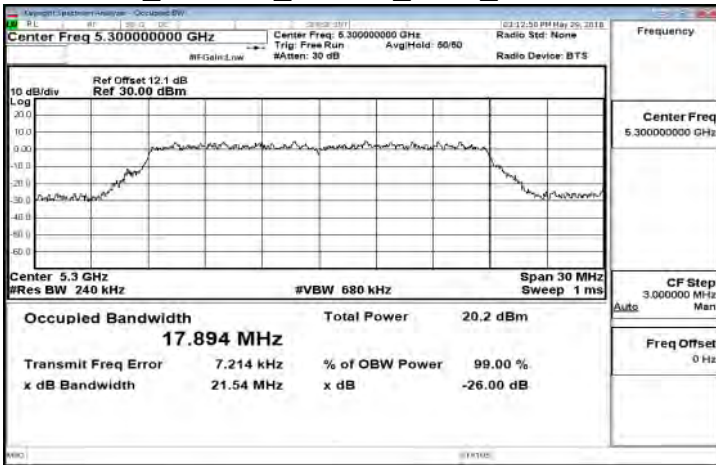


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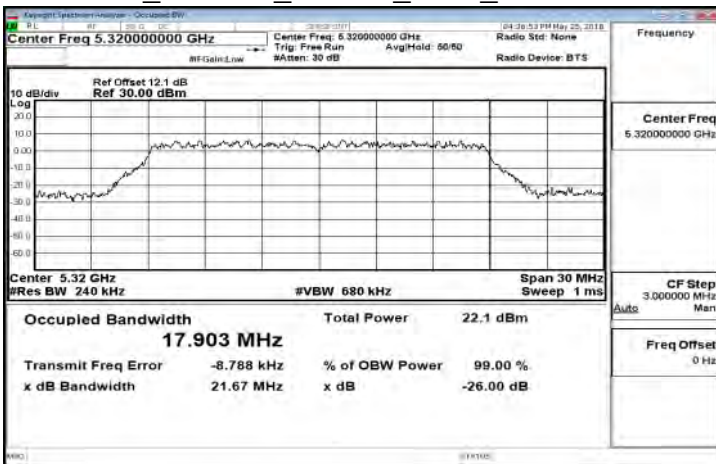
FCC_802.11n_20MHz_Main_5300MHz



FCC_802.11n_20MHz_Main_5580MHz



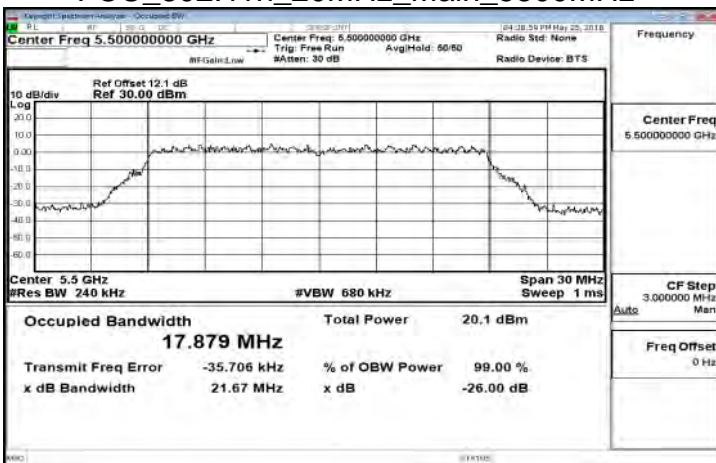
FCC_802.11n_20MHz_Main_5320MHz



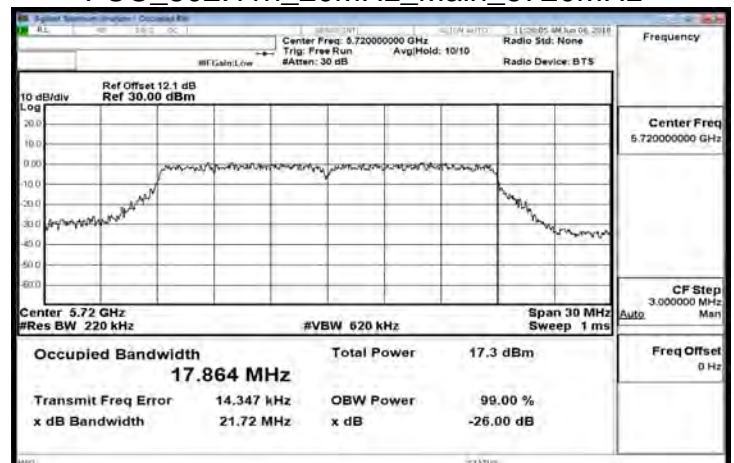
FCC_802.11n_20MHz_Main_5700MHz



FCC_802.11n_20MHz_Main_5500MHz



FCC_802.11n_20MHz_Main_5720MHz

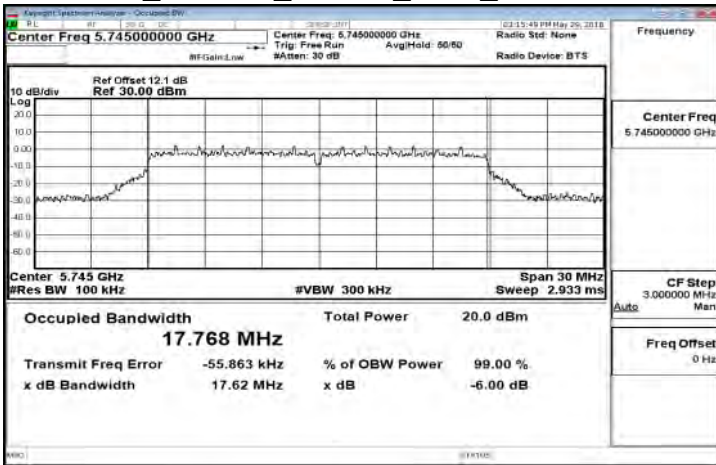


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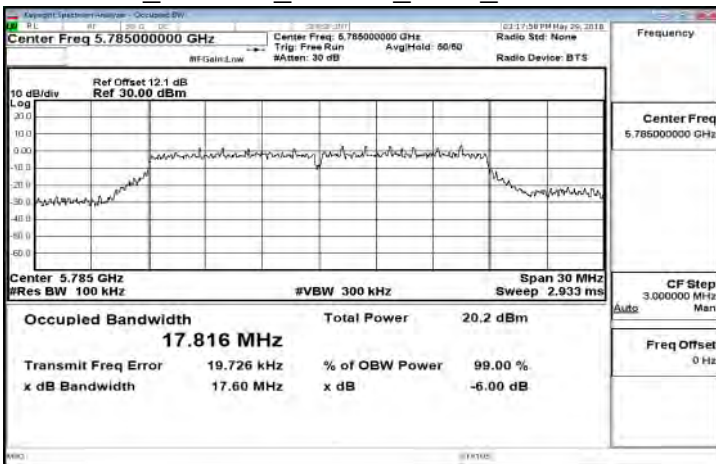
FCC_802.11n_20MHz_Main_5745MHz



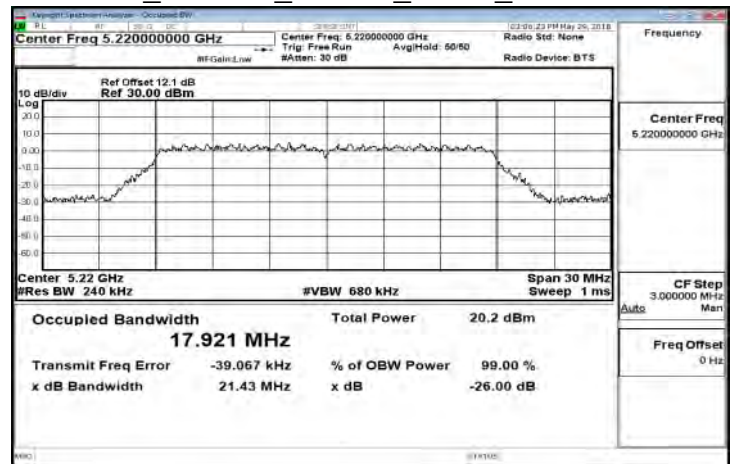
FCC_802.11n_20MHz_AUX1_5180MHz



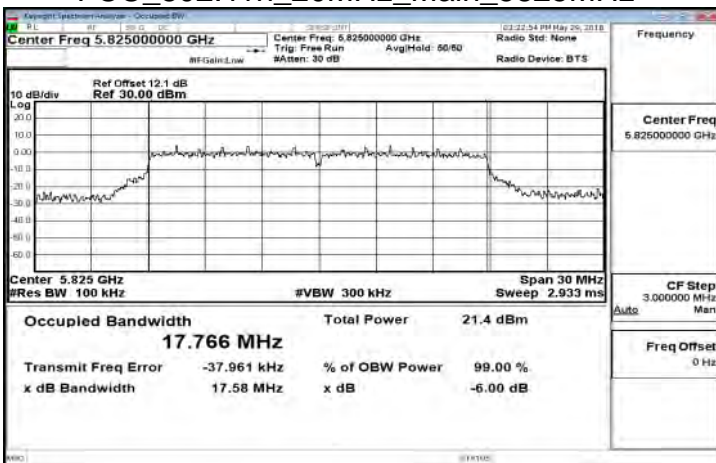
FCC_802.11n_20MHz_Main_5785MHz



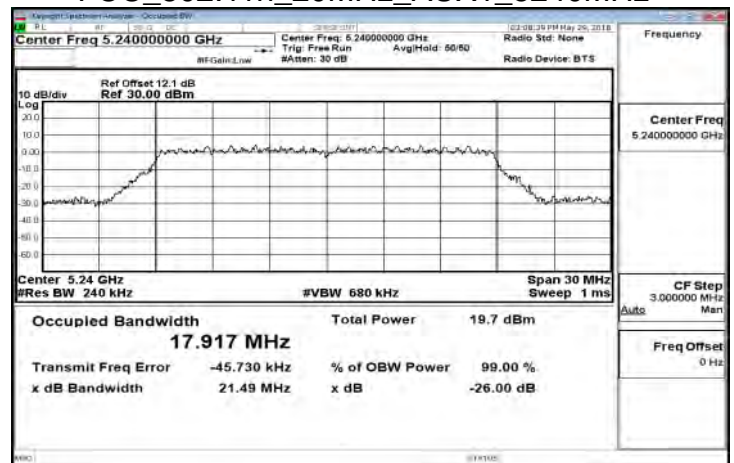
FCC_802.11n_20MHz_AUX1_5220MHz



FCC_802.11n_20MHz_Main_5825MHz



FCC_802.11n_20MHz_AUX1_5240MHz



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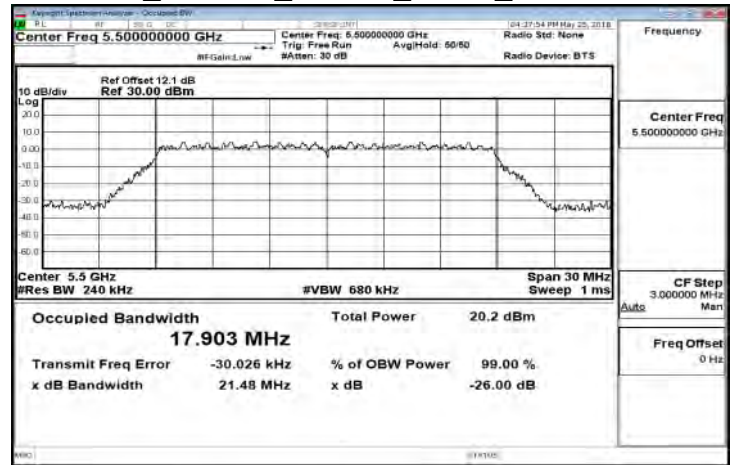
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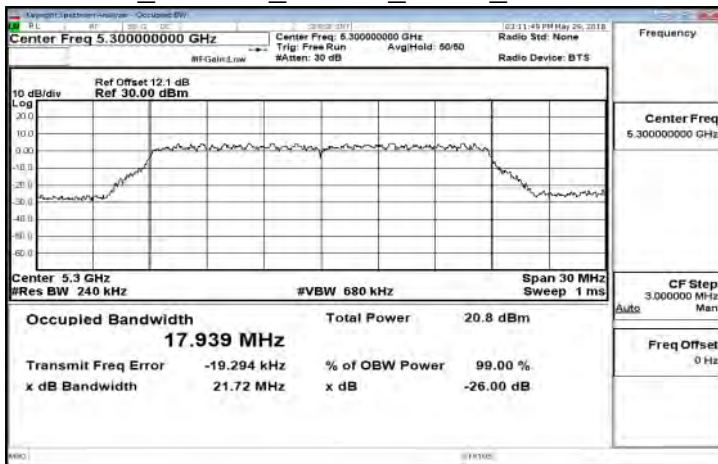
FCC_802.11n_20MHz_AUX1_5260MHz



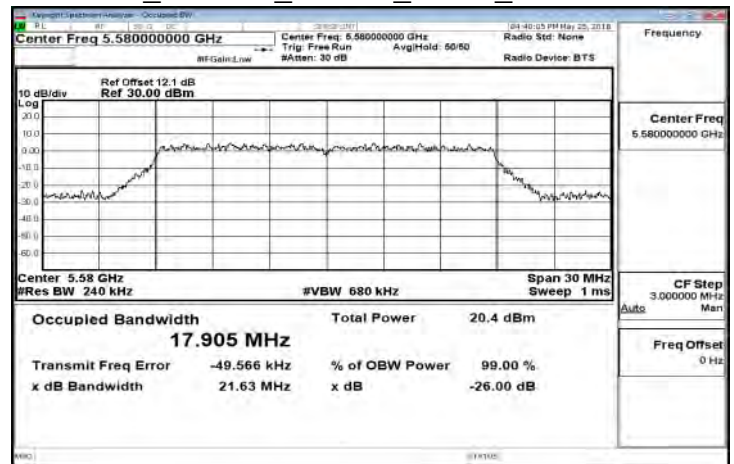
FCC_802.11n_20MHz_AUX1_5500MHz



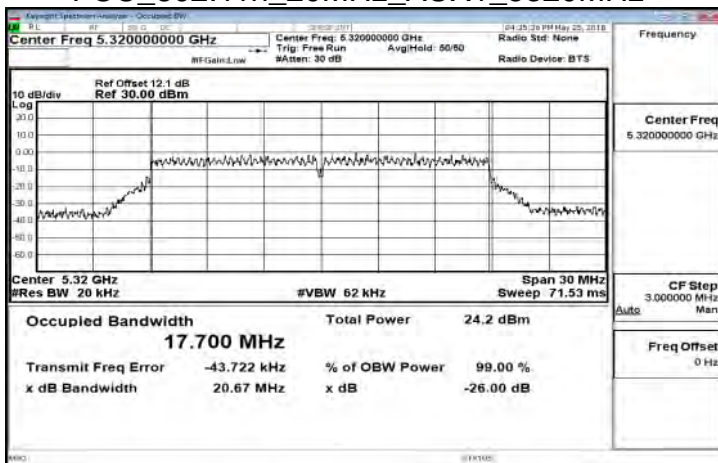
FCC_802.11n_20MHz_AUX1_5300MHz



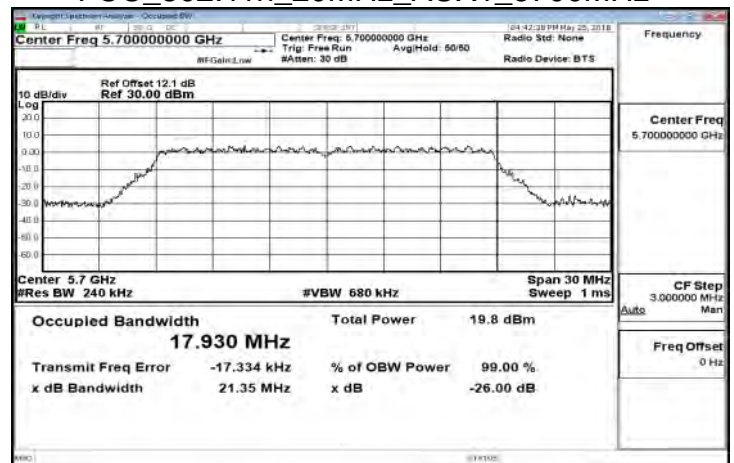
FCC_802.11n_20MHz_AUX1_5580MHz



FCC_802.11n_20MHz_AUX1_5320MHz



FCC_802.11n_20MHz_AUX1_5700MHz

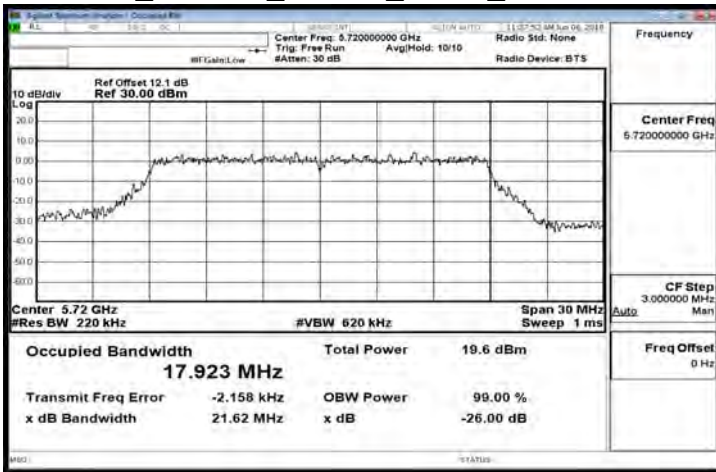


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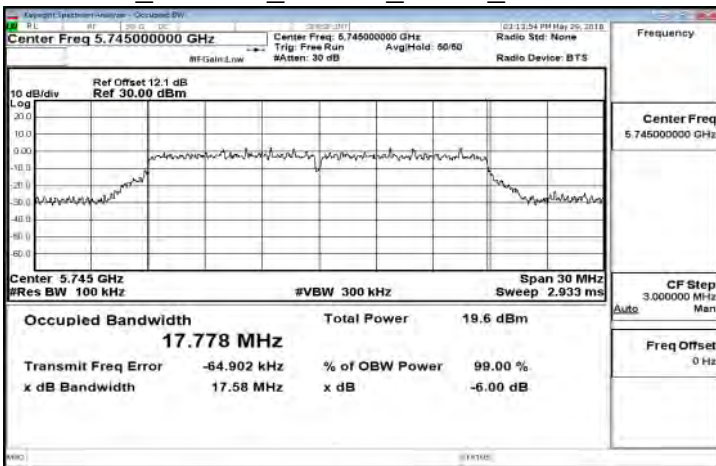
FCC_802.11n_20MHz_AUX1_5720MHz



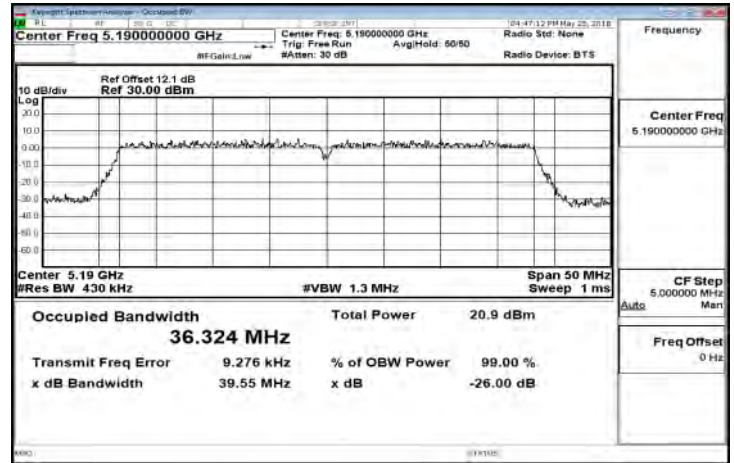
FCC_802.11n_20MHz_AUX1_5825MHz



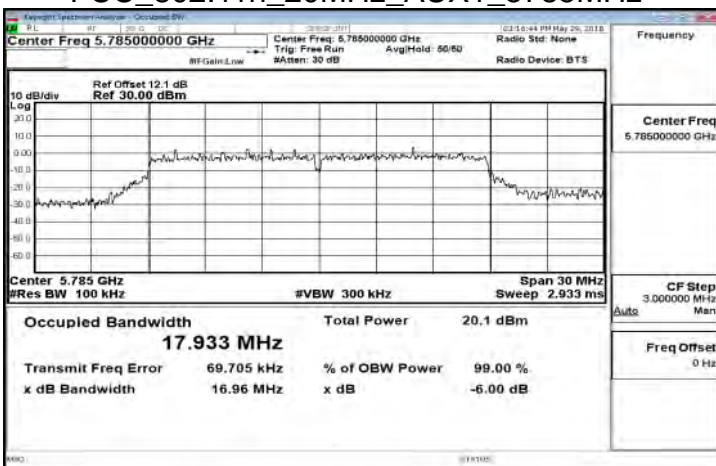
FCC_802.11n_20MHz_AUX1_5745MHz



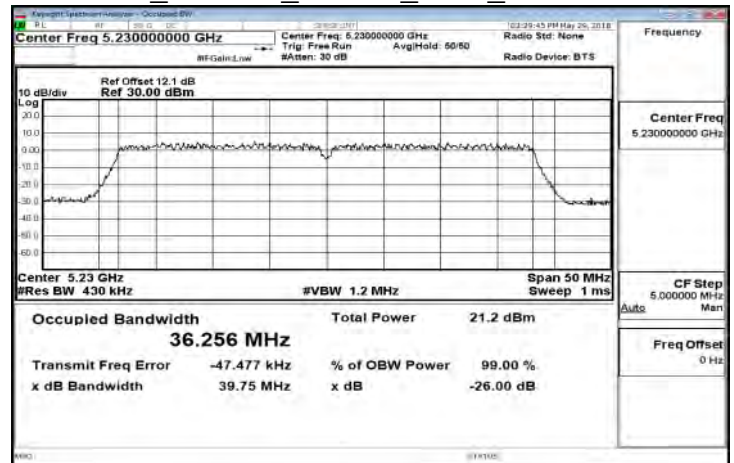
FCC_802.11n_40MHz_Main_5190MHz



FCC_802.11n_20MHz_AUX1_5785MHz



FCC_802.11n_40MHz_Main_5230MHz

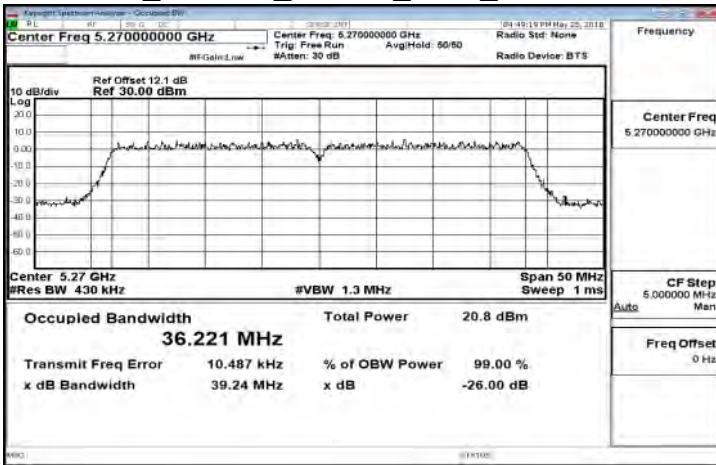


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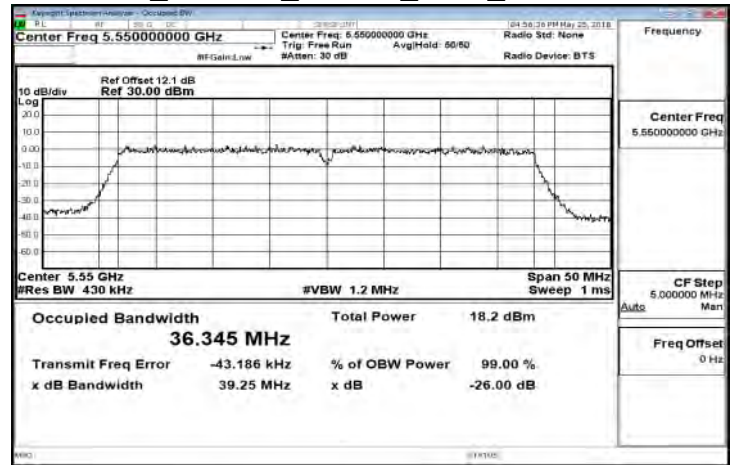
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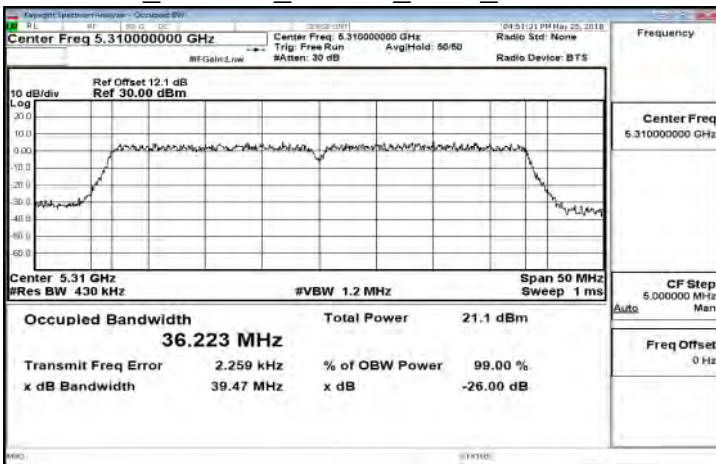
FCC 802.11n_40MHz_Main_5270MHz



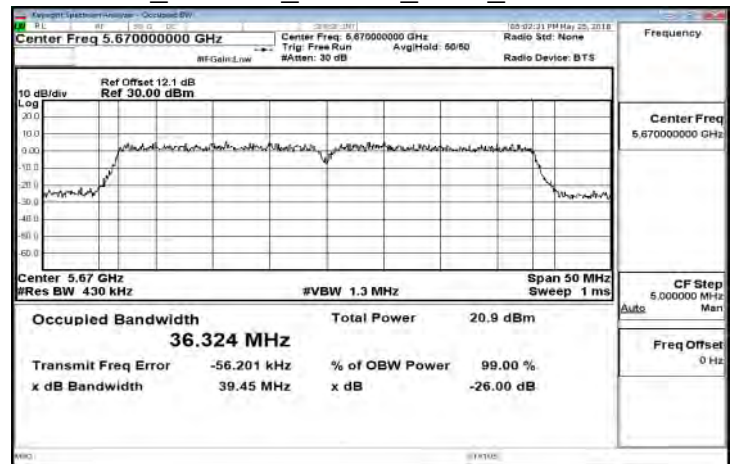
FCC 802.11n_40MHz_Main_5550MHz



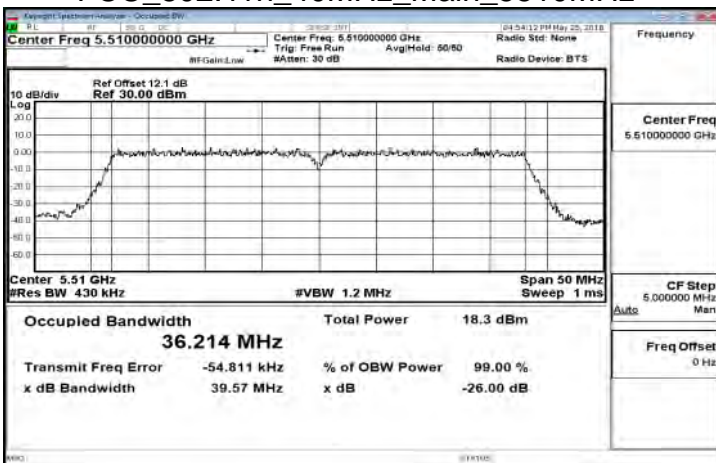
FCC 802.11n_40MHz_Main_5310MHz



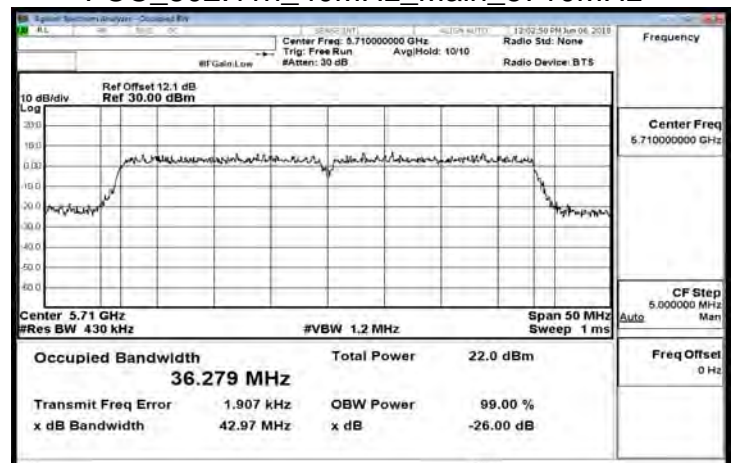
FCC 802.11n_40MHz_Main_5670MHz



FCC 802.11n_40MHz_Main_5510MHz



FCC 802.11n_40MHz_Main_5710MHz

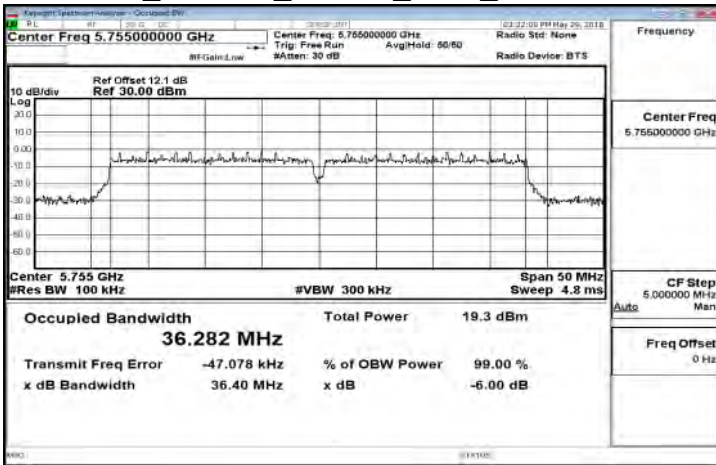


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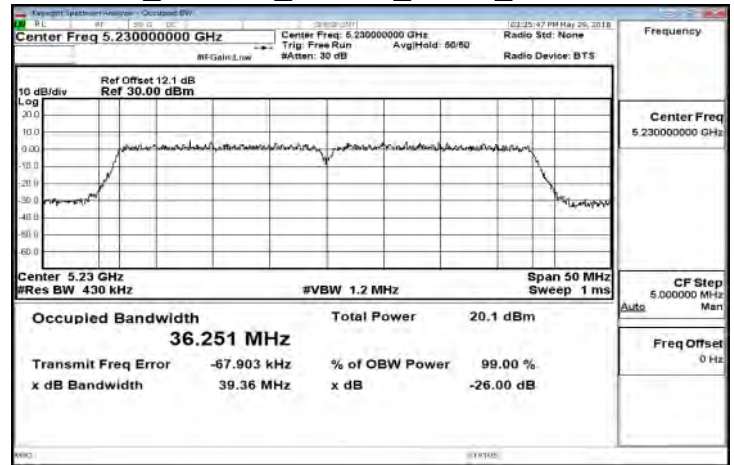
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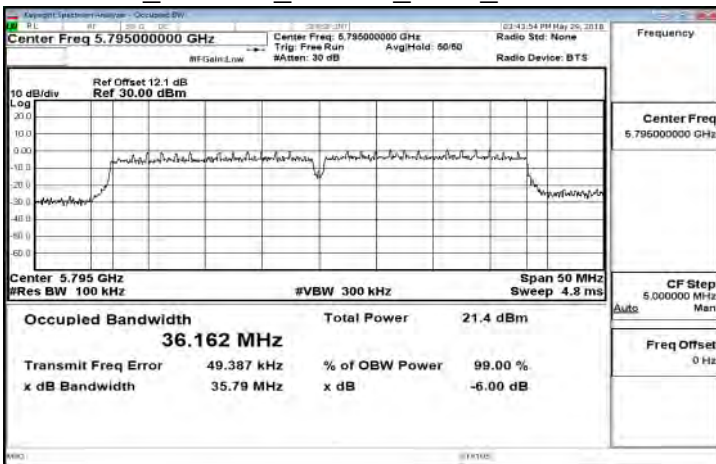
FCC_802.11n_40MHz_Main_5755MHz



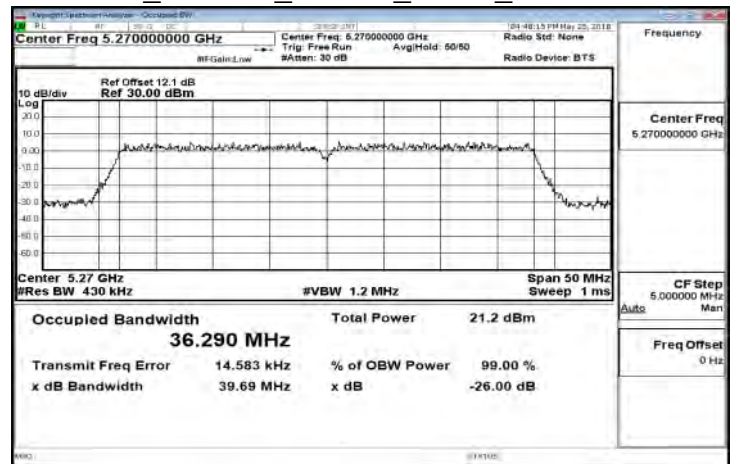
FCC_802.11n_40MHz_AUX1_5230MHz



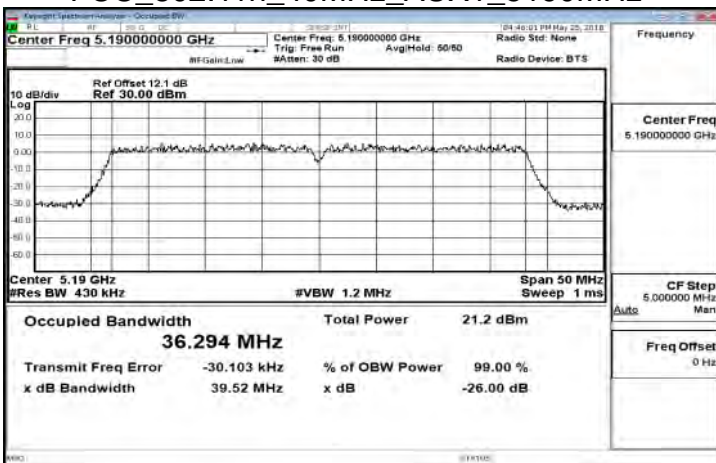
FCC_802.11n_40MHz_Main_5795MHz



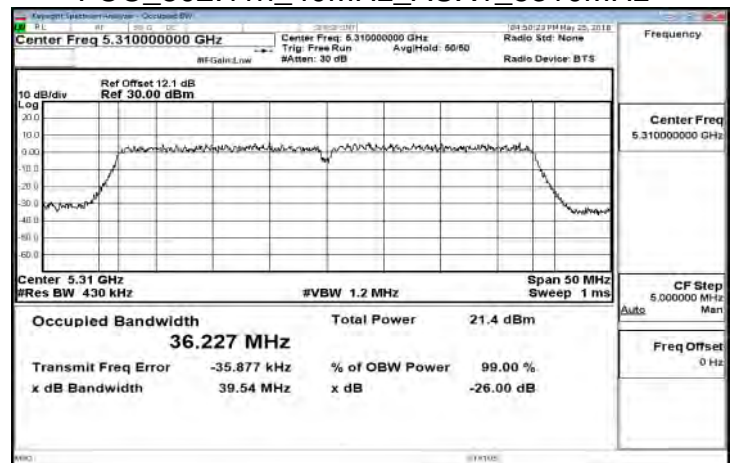
FCC_802.11n_40MHz_AUX1_5270MHz



FCC_802.11n_40MHz_AUX1_5190MHz



FCC_802.11n_40MHz_AUX1_5310MHz

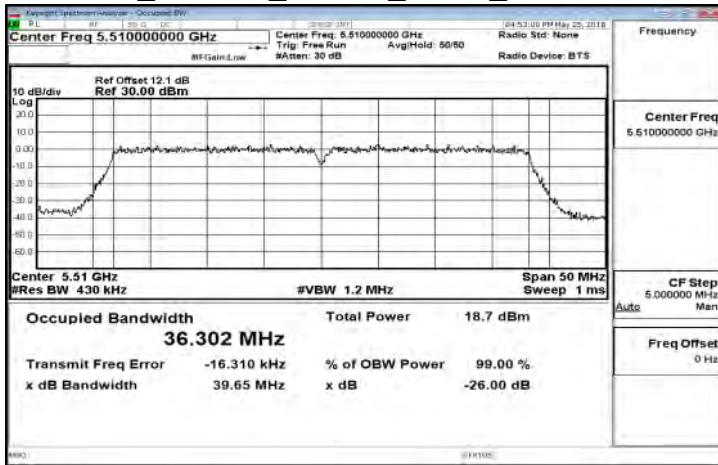


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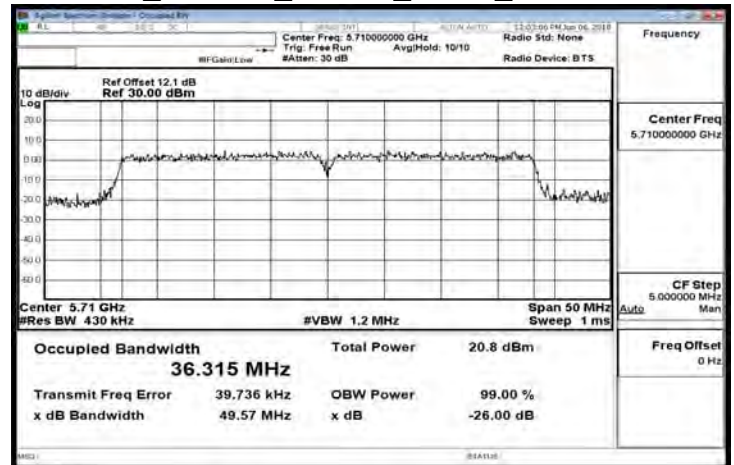
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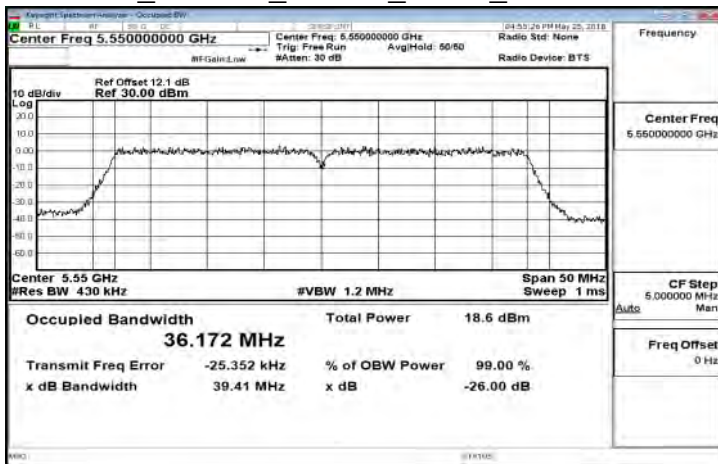
FCC_802.11n_40MHz_AUX1_5510MHz



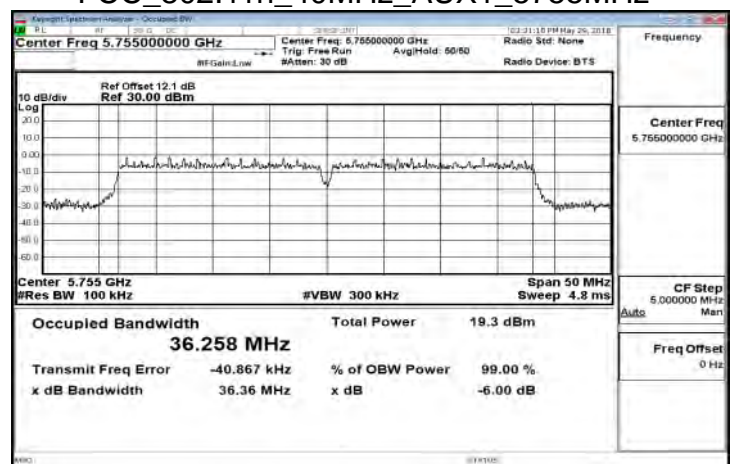
FCC_802.11n_40MHz_AUX1_5710MHz



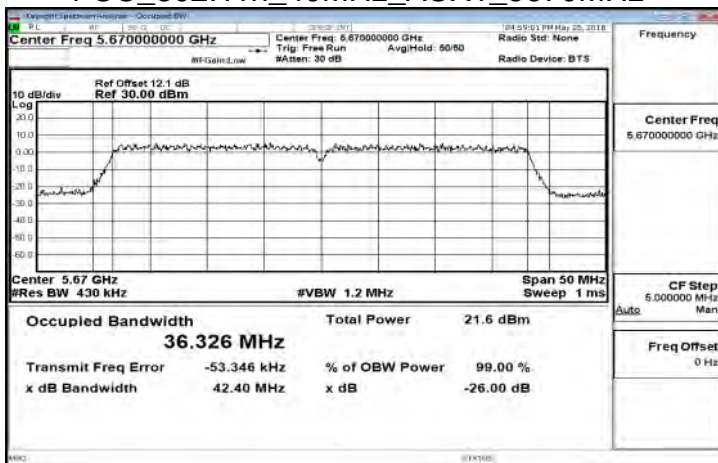
FCC_802.11n_40MHz_AUX1_5550MHz



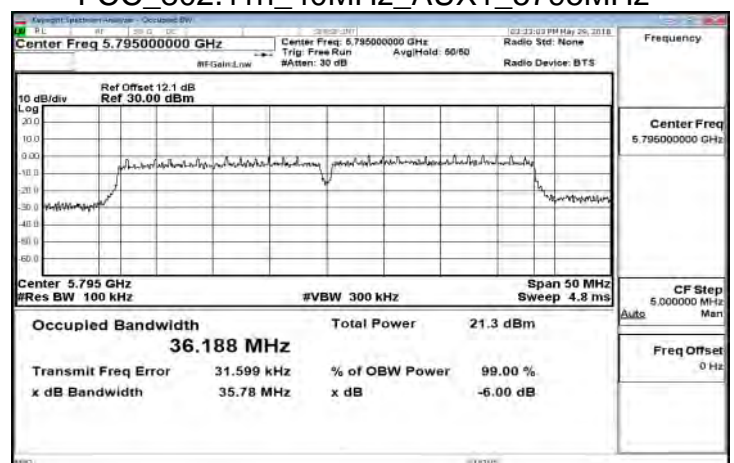
FCC_802.11n_40MHz_AUX1_5755MHz



FCC_802.11n_40MHz_AUX1_5670MHz



FCC_802.11n_40MHz_AUX1_5795MHz

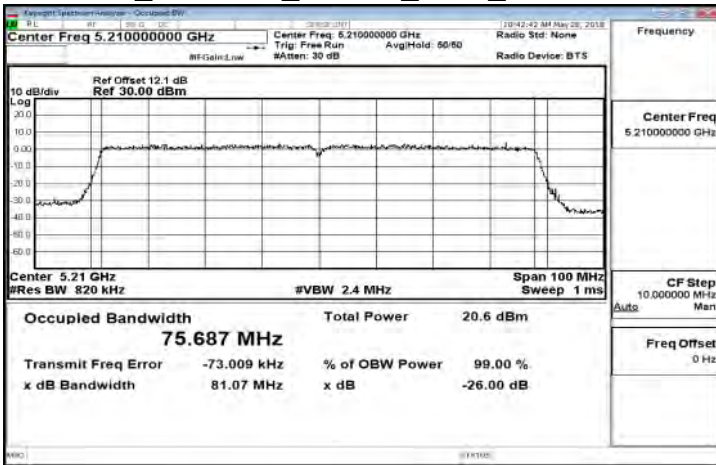


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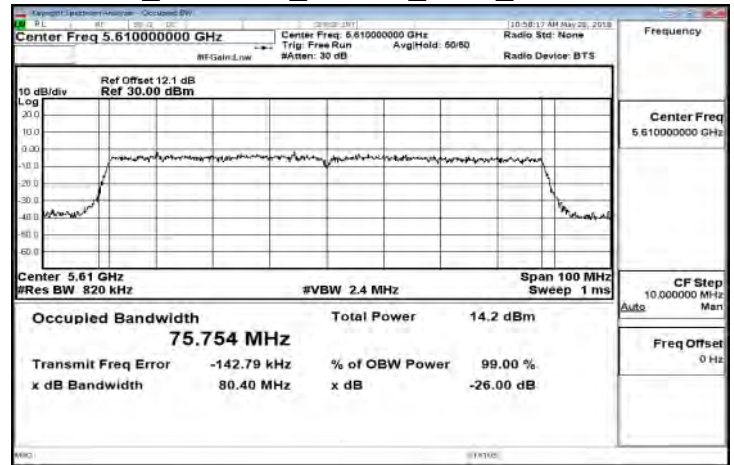
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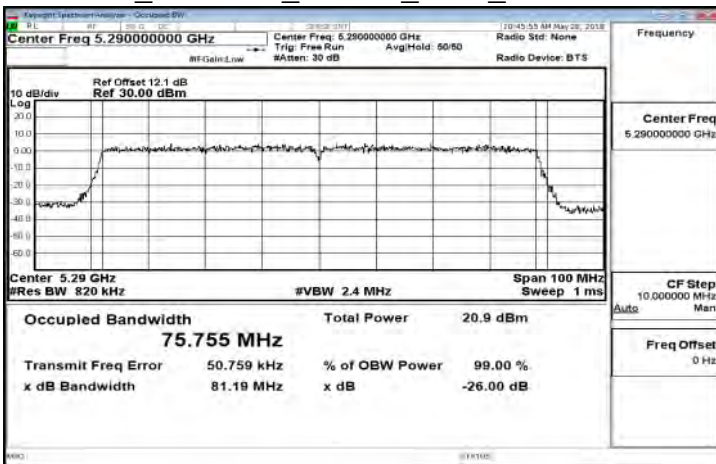
FCC_802.11ac_80MHz_Main_5210MHz



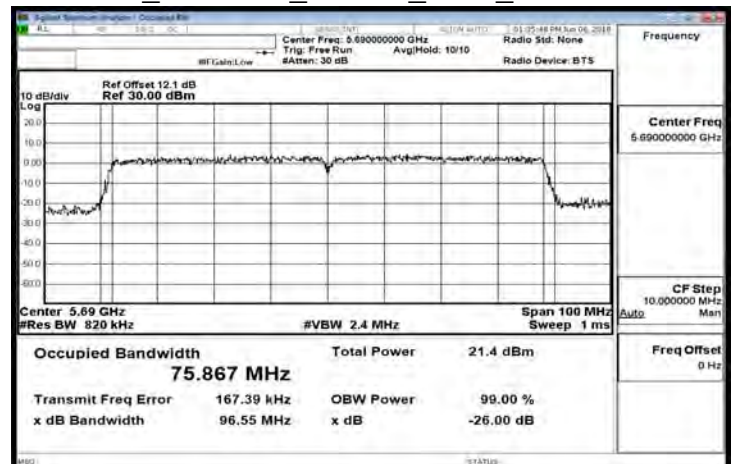
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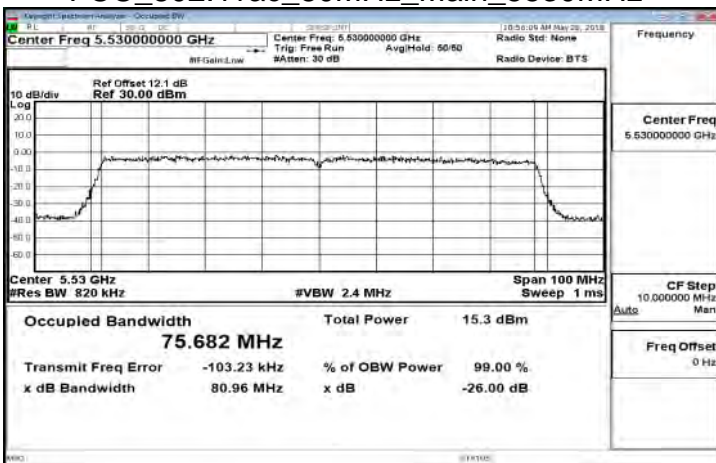
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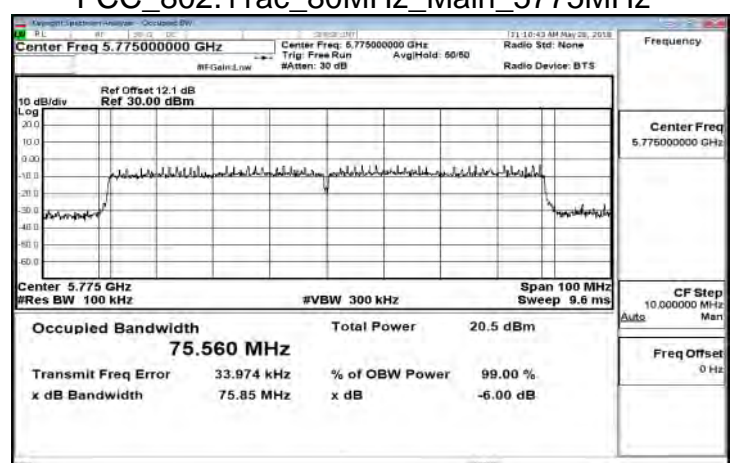
FCC_802.11ac_80MHz_Main_5690MHz



FCC_802.11ac_80MHz_Main_5530MHz



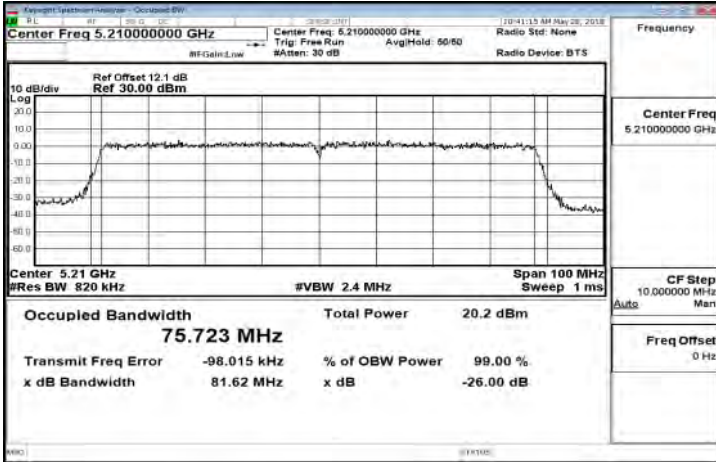
FCC_802.11ac_80MHz_Main_5775MHz



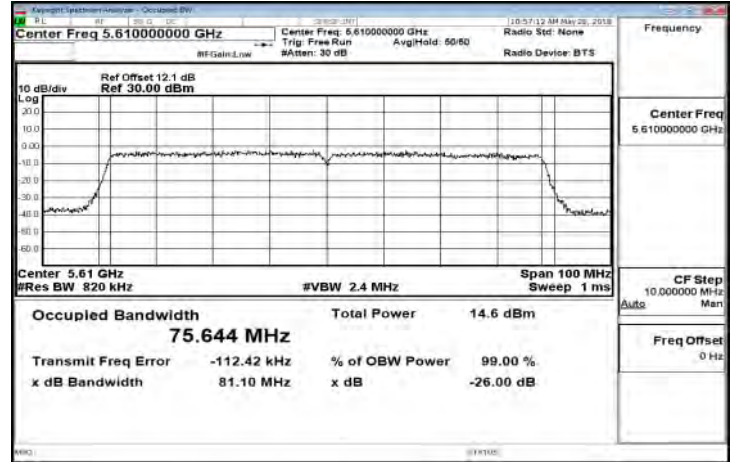
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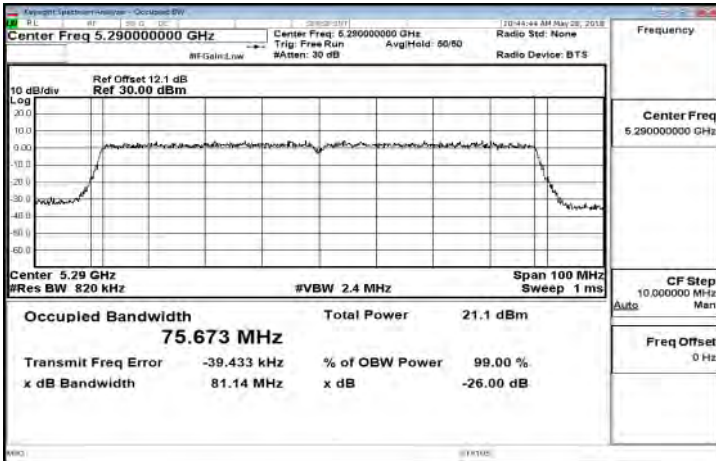
FCC_802.11ac_80MHz_AUX1_5210MHz



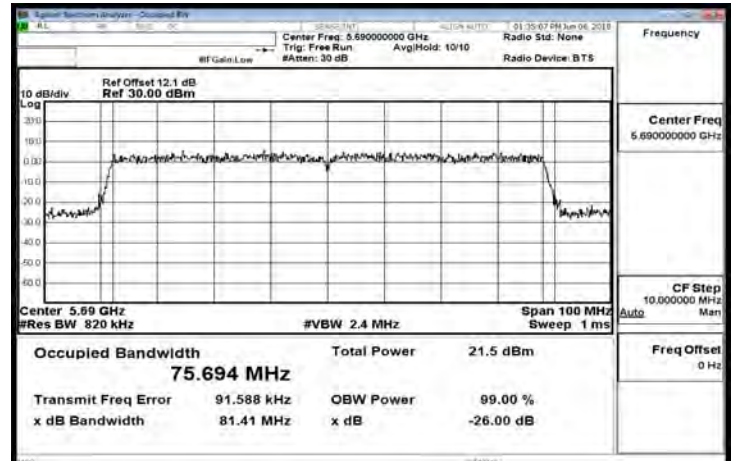
FCC_802.11ac_80MHz_AUX1_5610MHz



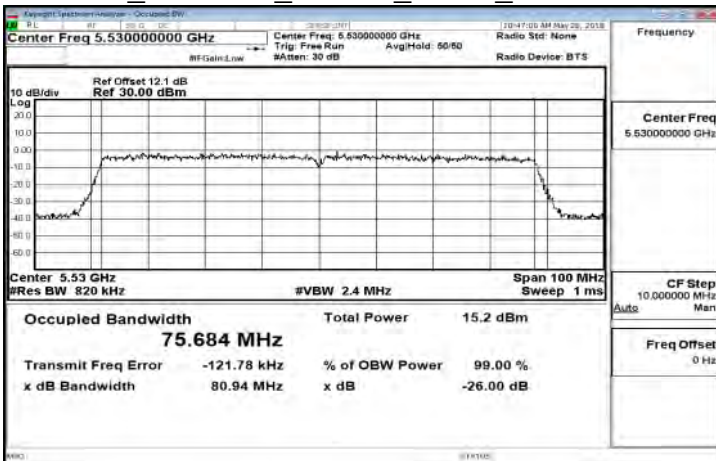
FCC_802.11ac_80MHz_AUX1_5290MHz



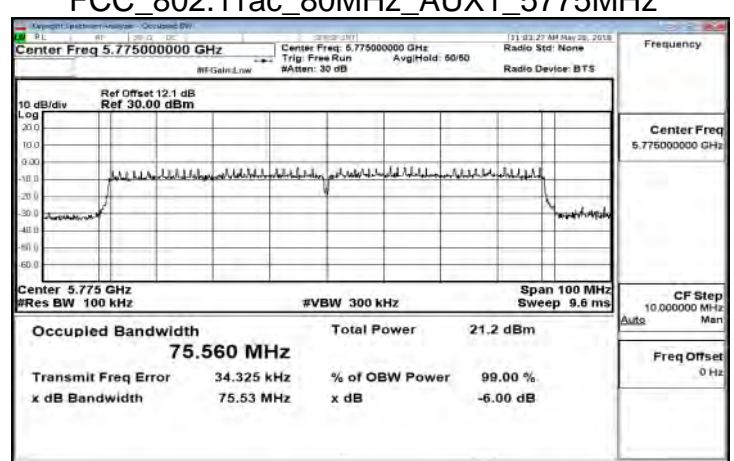
FCC_802.11ac_80MHz_AUX1_5690MHz



FCC_802.11ac_80MHz_AUX1_5530MHz



FCC_802.11ac_80MHz_AUX1_5775MHz

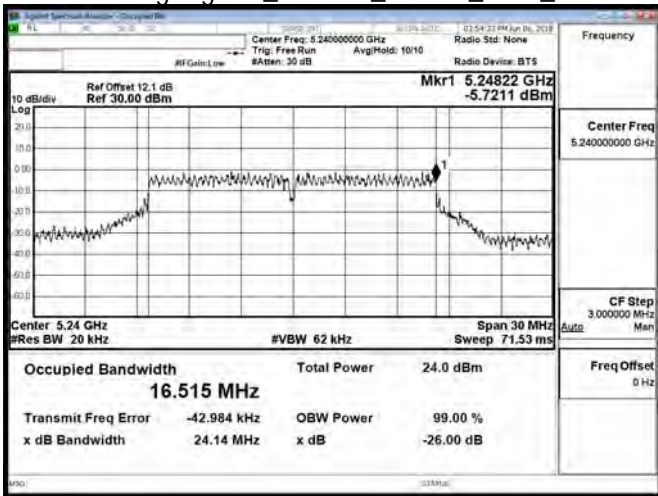


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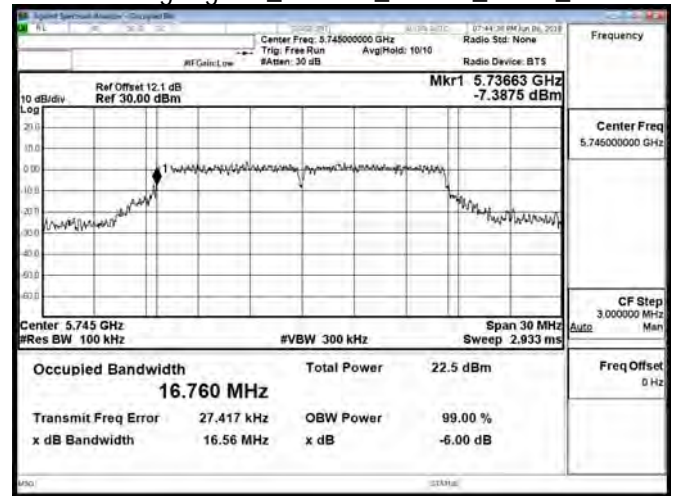
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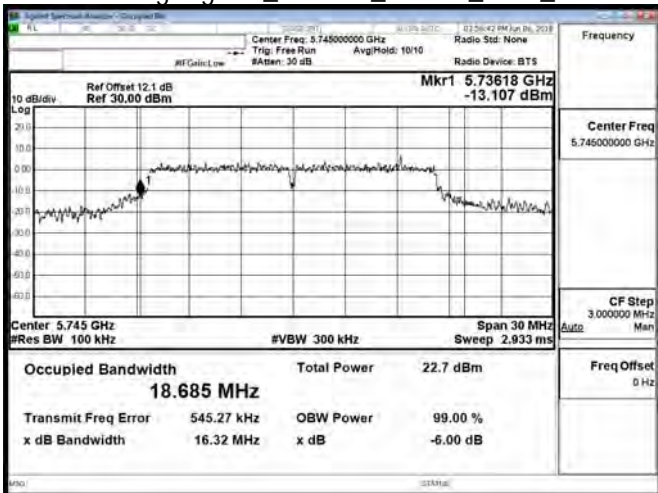
Band-Crossing Signals_802.11a_20MHz_Main_5240MHz



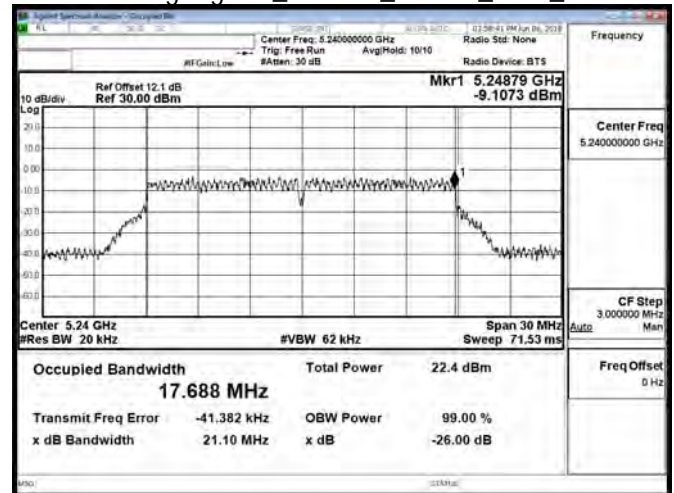
Band-Crossing Signals_802.11a_20MHz_AUX1_5745MHz



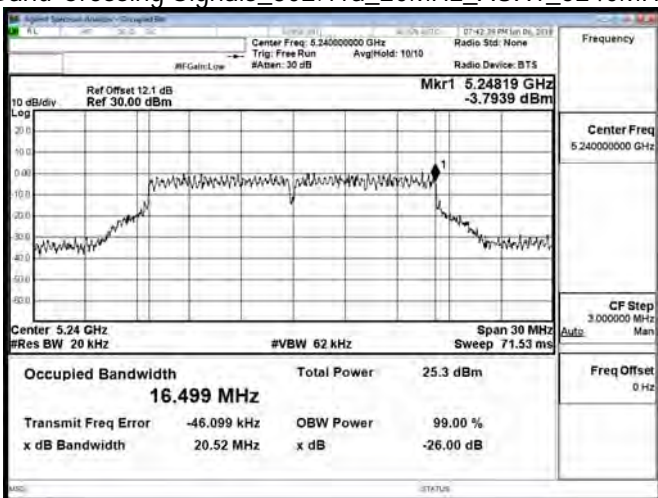
Band-Crossing Signals_802.11a_20MHz_Main_5745MHz



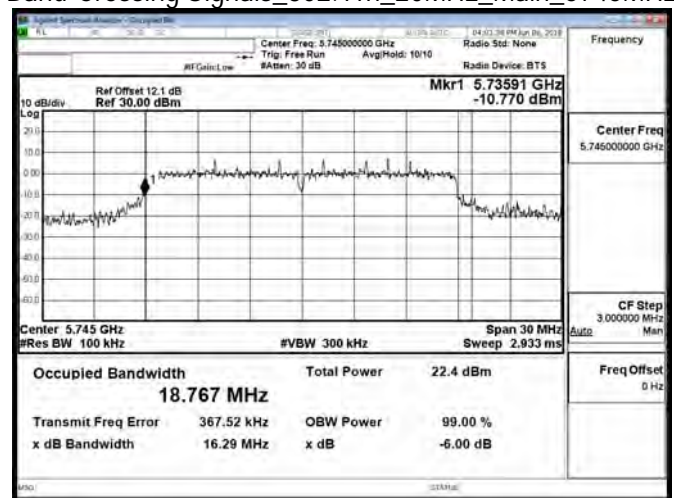
Band-Crossing Signals_802.11n_20MHz_Main_5240MHz



Band-Crossing Signals_802.11a_20MHz_AUX1_5240MHz



Band-Crossing Signals_802.11n_20MHz_Main_5745MHz

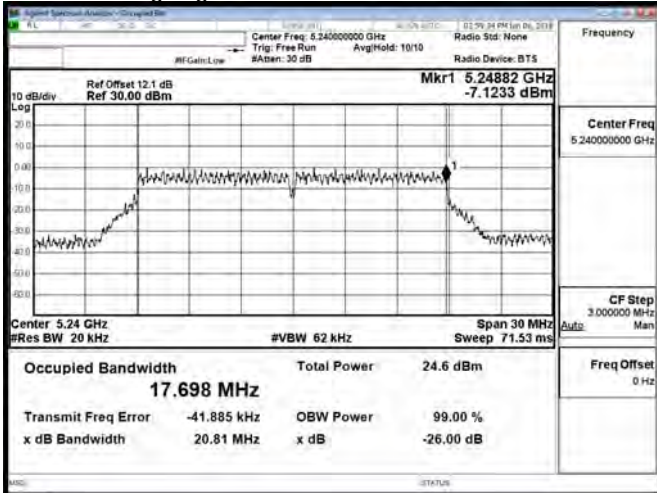


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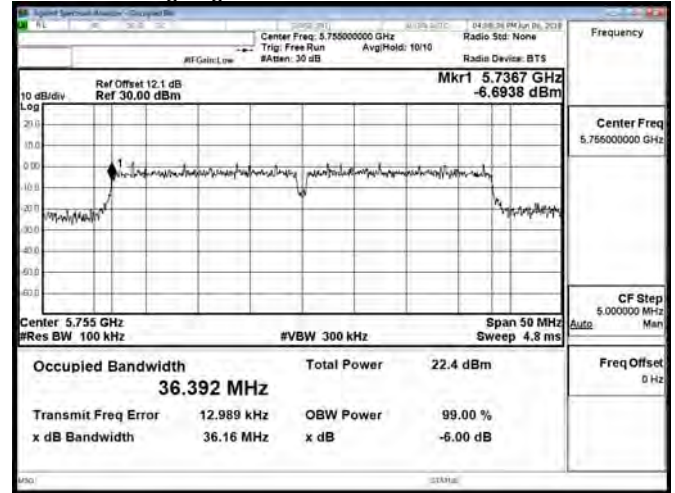
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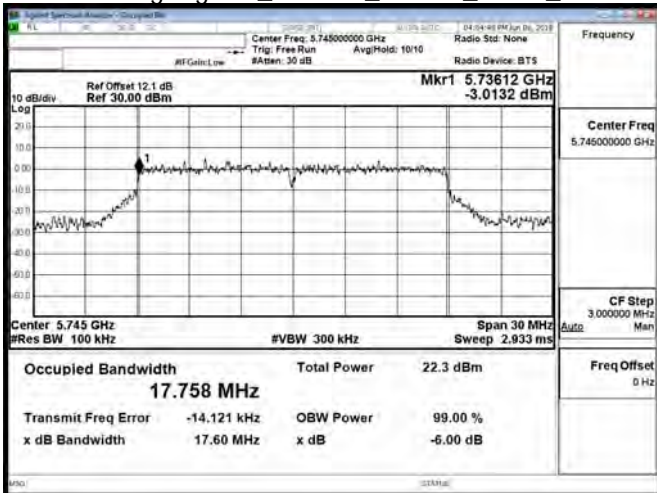
Band-Crossing Signals_802.11n_20MHz_AUX1_5240MHz



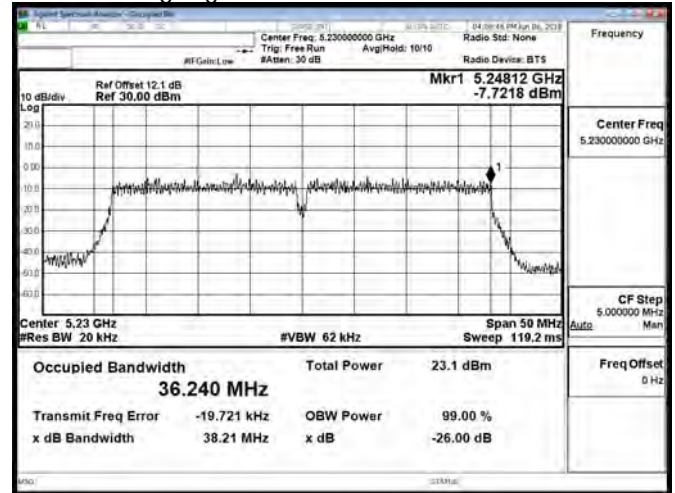
Band-Crossing Signals_802.11n_40MHz_Main_5755MHz



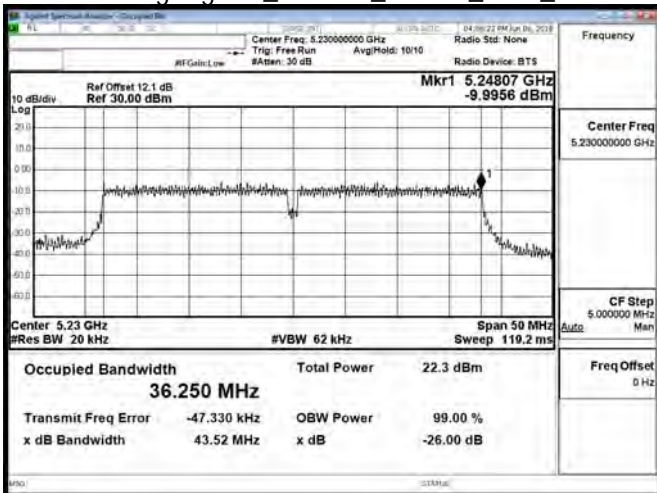
Band-Crossing Signals_802.11n_20MHz_AUX1_5745MHz



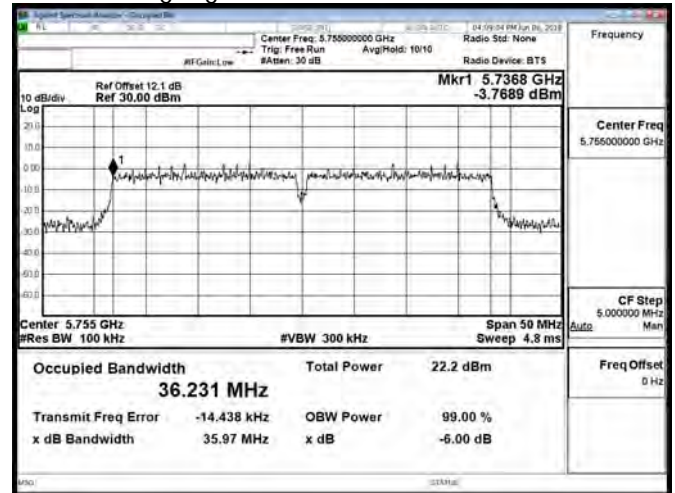
Band-Crossing Signals_802.11n_40MHz_AUX1_5230MHz



Band-Crossing Signals_802.11n_40MHz_Main_5230MHz



Band-Crossing Signals_802.11n_40MHz_AUX1_5755MHz

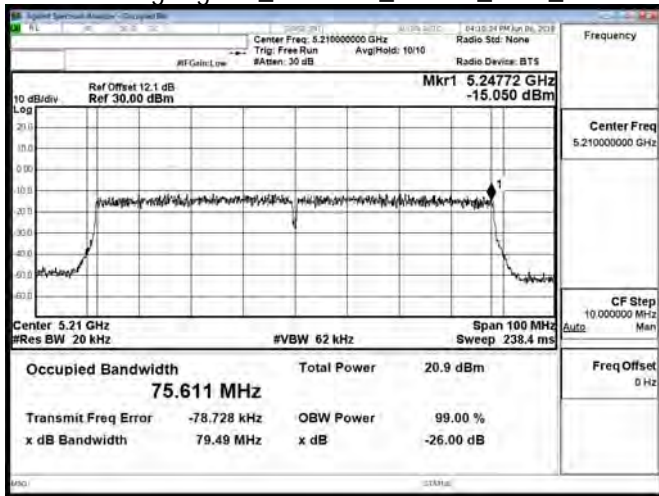


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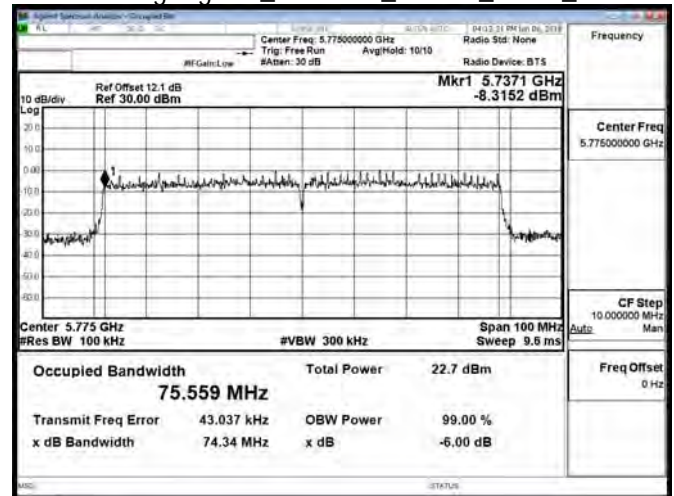
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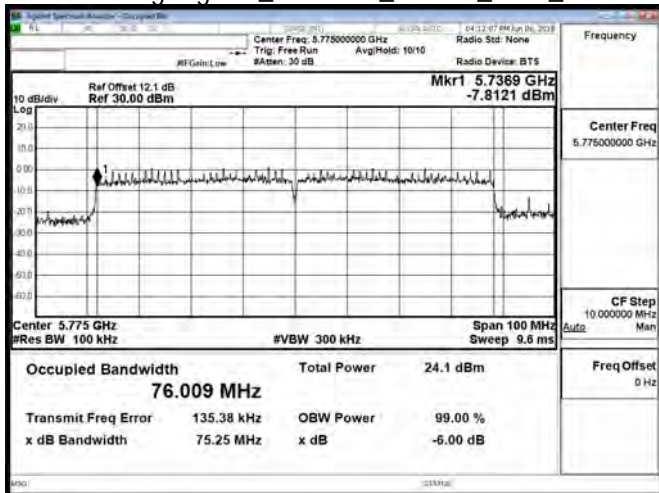
Band-Crossing Signals_802.11ac_80MHz_Main_5210MHz



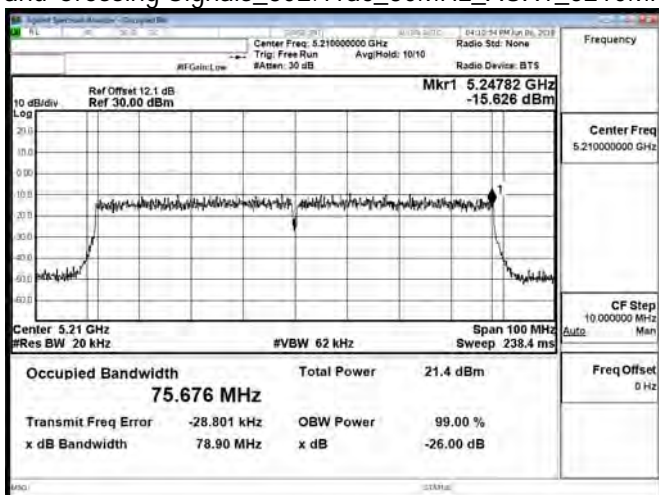
Band-Crossing Signals_802.11ac_80MHz_AUX1_5775MHz



Band-Crossing Signals_802.11ac_80MHz_Main_5775MHz



Band-Crossing Signals_802.11ac_80MHz_AUX1_5210MHz



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9 MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

9.1 Standard Applicable

FCC

OPERZTION Band	EUT CATEGORY		LIMIT
U-NII-1		Access Point (Master device)	1 Watt(30dBm)
		Fixed point-to-point Access Ponit	1 Watt(30dBm)
	√	Mobile and portable clinet 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, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the direction-al gain of the antenna exceeds 6 dBi.

Note:

As per FCC KDB 662911 D01

Unequal antenna gains, with equal transmit powers. For antenna gains given by G1, G2, ..., GN dBi.

(i) If transmit signals are correlated, then Directional gain
 $= 10 \log[(10G1 / 20 + 10G2 / 20 + \dots + 10GN / 20) 2 / NANT]$ dBi

[Note the "20"s in the denominator of each exponent and the square of the sum of terms; the object is to combine the signal levels coherently.]

	Effective Legacy Gain (dBi)
UNII-1	3.28
UNII-2A	3.45
U-NII-2C	4.71
U-NII-3	4.06

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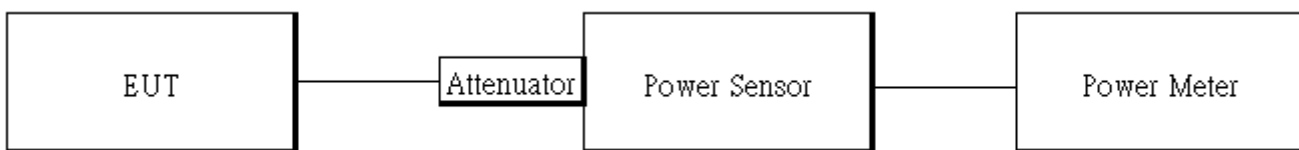
9.2 Measurement Procedure

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

9.3 Measurement Equipment Used

SGS Conducted Room					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Power Meter	Anritsu	ML2496A	1326001	2017/07/26	2018/07/25
Power Sensor	Anritsu	MA2411B	1315048	2017/07/26	2018/07/25
Power Sensor	Anritsu	MA2411B	1315049	2017/07/26	2018/07/25
Attenuator	Marvelous	MVE2213-10	RF30	2017/12/26	2018/12/25
Attenuator	Marvelous	MVE2213-10	RF31	2017/12/26	2018/12/25
Notebook	Lenovo	L420	S0011721	N/A	N/A

9.4 Test Set-up



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9.5 Measurement Result

Conducted output power (FCC)

802.11a_Main

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)		RESULT
36	5180	6	16.70	46.760	23.98		PASS
44	5220	6	17.01	50.219	23.98		PASS
48	5240	6	17.11	51.389	23.98		PASS
52	5260	6	16.82	48.070	23.98	or $11+10\log(B) = 24.35$	PASS
60	5300	6	16.60	45.695	23.98	or $11+10\log(B) = 24.31$	PASS
64	5320	6	16.54	45.068	23.98	or $11+10\log(B) = 24.35$	PASS
100	5500	6	13.89	24.483	23.98	or $11+10\log(B) = 24.34$	PASS
116	5580	6	14.68	29.368	23.98	or $11+10\log(B) = 24.36$	PASS
140	5700	6	14.22	26.416	23.98	or $11+10\log(B) = 24.29$	PASS
144	5720(U-NII 2C)	6	15.668	36.881	23.98	or $11+10\log(B) = 24.48$	PASS
144	5720 (U-NII 3)	6	1.28	1.343	30		PASS
149	5745	6	17.78	59.961	30		PASS
157	5785	6	18.50	70.773	30		PASS
165	5825	6	18.94	78.320	30		PASS

802.11n_HT20_MIMO

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)		RESULT
			CH 0	CH 1					
36	5180	MCS8	15.08	17.08	19.45	83.261	23.98		PASS
44	5220	MCS8	15.21	17.21	19.58	85.791	23.98		PASS
48	5240	MCS8	15.13	17.19	19.54	84.944	23.98		PASS
52	5260	MCS8	14.92	17.28	19.52	84.502	23.98	or $11+10\log(B) = 24.33$	PASS
60	5300	MCS8	14.98	17.63	19.76	89.420	23.98	or $11+10\log(B) = 24.33$	PASS
64	5320	MCS8	14.81	18.05	19.98	94.095	23.98	or $11+10\log(B) = 24.15$	PASS
100	5500	MCS8	12.78	15.26	17.45	52.541	23.98	or $11+10\log(B) = 24.32$	PASS
116	5580	MCS8	12.58	15.87	17.79	56.750	23.98	or $11+10\log(B) = 24.32$	PASS
140	5700	MCS8	12.09	14.76	16.88	46.103	23.98	or $11+10\log(B) = 24.29$	PASS
144	5720(U-NII 2C)	MCS8	12.222	11.85	14.47	32.004	23.98	or $11+10\log(B) = 23.07$	PASS
144	5720 (U-NII 3)	MCS8	4.1977	4.067	4.97	5.180	30		PASS
149	5745	MCS8	16.48	16.73	19.86	91.561	30		PASS
157	5785	MCS8	16.92	16.95	20.19	98.749	30		PASS
165	5825	MCS8	17.27	17.17	20.48	105.453	30		PASS

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802.11n_HT40_MIMO

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)		RESULT
			CH 0	CH 1					
38	5190	MCS8	13.71	15.21	18.00	56.686	23.98		PASS
46	5230	MCS8	13.85	15.15	18.02	57.000	23.98		PASS
54	5270	MCS8	13.99	15.45	18.25	60.136	23.98	or $11+10\log(B) = 26.94$	PASS
62	5310	MCS8	13.55	15.23	17.94	55.989	23.98	or $11+10\log(B) = 26.96$	PASS
102	5510	MCS8	9.66	12.46	14.75	26.867	23.98	or $11+10\log(B) = 26.97$	PASS
110	5550	MCS8	8.96	12.32	14.43	24.931	23.98	or $11+10\log(B) = 26.94$	PASS
134	5670	MCS8	14.66	15.65	18.65	65.970	23.98	or $11+10\log(B) = 26.96$	PASS
142	5710(U-NII 2C)	MCS8	14.182	14.31	17.33	53.150	23.98	or $11+10\log(B) = 26.82$	PASS
142	5720 (U-NII 3)	MCS8	1.7877	1.804	2.18	3.024	30		PASS
151	5755	MCS8	16.11	16.26	19.66	83.099	30		PASS
159	5795	MCS8	16.66	16.64	20.12	92.476	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	11.01	11.55	14.81	26.907	23.98		PASS
58	5290	MCS0	12.92	14.35	17.21	46.815	23.98	or $11+10\log(B) = 30.09$	PASS
106	5530	MCS0	5.3	9.17	11.17	11.649	23.98	or $11+10\log(B) = 30.08$	PASS
122	5610	MCS0	4.81	8.72	10.71	10.474	23.98	or $11+10\log(B) = 30.05$	PASS
138	5690(U-NII 2C)	MCS0	14.085	14.23	17.48	52.074	23.98	or $11+10\log(B) = 29.86$	PASS
138	5690 (U-NII 3)	MCS0	0.8149	0.824	1.01	2.415	30		PASS
155	5775	MCS0	15.7	15.49	19.11	72.553	30		PASS

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10 PEAK POWER SPECTRAL DENSITY

10.1 Standard Applicable

FCC

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

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

Note:

As per FCC KDB 662911 D01

Unequal antenna gains, with equal transmit powers. For antenna gains given by G1, G2, ..., GN dBi.

(i) If transmit signals are correlated, then Directional gain
= $10 \log[(10G1 / 20 + 10G2 / 20 + \dots + 10GN / 20) ^2 / NANT]$ dBi

[Note the “20”s in the denominator of each exponent and the square of the sum of terms; the object is to combine the signal levels coherently.]

	Effective Legacy Gain (dBi)
UNII-1	3.28
UNII-2A	3.45
U-NII-2C	4.71
U-NII-3	4.06

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10.2 Measurement Procedure

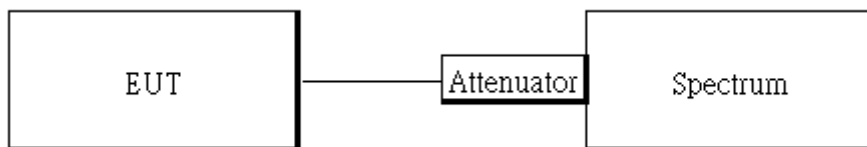
1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to Spectrum.
4. **For U-NII1, U-NII-2A, U-NII-2C Band:**
Set RBW=1MHz, VBW=3MHz, where span is enough to capture the entire bandwidth, Sweep time = Auto (601 pts), detector = sample, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)
For U-NII-3 Band:
Set RBW=500 kHz, VBW≥ 3RBW, where span is enough to capture the entire bandwidth, Sweep time = Auto (601 pts), detector = sample, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)
5. Use the cursor on spectrum to peak search the highest level of trace
6. Record the max. reading and add 10 log(1/duty cycle).
7. Repeat above procedures until all default test channel (low, middle, and high) was complete.

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

10.3 Measurement Equipment Used

SGS Conducted Room					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum Analyzer	Agilent	N9010A	MY51440113	2017/06/21	2018/06/20
Attenuator	Marvelous	MVE2213-10	RF31	2017/12/26	2018/12/25
DC Block	PASTERNAK	PE8210	RF81	2017/12/26	2018/12/25
Notebook	Lenovo	L430	P0000195	N/A	N/A

10.4 Test Set-up



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10.5 Measurement Result

POWER DENSITY 802.11a MODE						
Frequency (MHz)	PPSD W/O Duty Factor (dBm)	Offset	Duty Factor	PPSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5180	2.33	12.10	0.13	2.46	11	-8.54
5220	2.98	12.10	0.13	3.11	11	-7.89
5240	2.53	12.10	0.13	2.66	11	-8.34
5260	2.31	12.10	0.13	2.44	11	-8.56
5300	3.99	12.10	0.13	4.12	11	-6.88
5320	1.82	12.10	0.13	1.95	11	-9.05
5500	1.82	12.10	0.13	1.95	11	-9.05
5580	1.28	12.10	0.13	1.41	11	-9.59
5700	0.89	12.10	0.13	1.02	11	-9.98
5720 (U-NII 2C)	5.10	12.10	0.13	5.23	11	-5.77
5720 (U-NII 3)	2.00	12.10	0.13	2.13	30	-27.87
5745	8.17	12.10	0.13	8.17	30	-21.83
5785	8.65	12.10	0.13	8.65	30	-21.35
5825	9.15	12.10	0.13	9.15	30	-20.85
POWER DENSITY 802.11n HT20 MODE						
Frequency (MHz)	PPSD W/O Duty Factor (dBm)	Offset	Duty Factor	PPSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5180	4.07	15.10	0.25	4.32	11	-6.68
5220	4.23	15.10	0.25	4.48	11	-6.52
5240	3.81	15.10	0.25	4.06	11	-6.94
5260	5.64	15.10	0.25	5.89	11	-5.11
5300	4.56	15.10	0.25	4.81	11	-6.19
5320	6.28	15.10	0.25	6.53	11	-4.47
5500	4.24	15.10	0.25	4.49	11	-6.51
5580	4.10	15.10	0.25	4.35	11	-6.65
5700	3.72	15.10	0.25	3.97	11	-7.03
5720 (U-NII 2C)	4.96	15.10	0.25	5.21	11	-5.79
5720 (U-NII 3)	-1.74	15.10	0.25	-1.49	30	-31.49
5745	10.69	15.10	0.25	10.69	30	-19.31
5785	11.16	15.10	0.25	11.16	30	-18.84
5825	12.30	15.10	0.25	12.30	30	-17.70

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POWER DENSITY 802.11n HT40 MODE						
Frequency (MHz)	PPSD W/O Duty Factor (dBm)	Offset	Duty Factor	PPSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5190	-1.18	15.10	0.46	-0.72	11	-11.72
5230	-2	15.10	0.46	-1.54	11	-12.54
5270	-0.2	15.10	0.46	0.26	11	-10.74
5310	-1.16	15.10	0.46	-0.70	11	-11.70
5510	-2.2	15.10	0.46	-1.74	11	-12.74
5550	-1.44	15.10	0.46	-0.98	11	-11.98
5670	-1.01	15.10	0.46	-0.55	11	-11.55
5710 (U-NII 2C)	-0.17	15.10	0.46	0.29	11	-10.71
5710 (U-NII 3)	-4.37	15.10	0.46	-3.90	30	-33.90
5755	6.81	15.10	0.46	6.81	30	-23.19
5795	9.25	15.10	0.46	9.25	30	-20.75

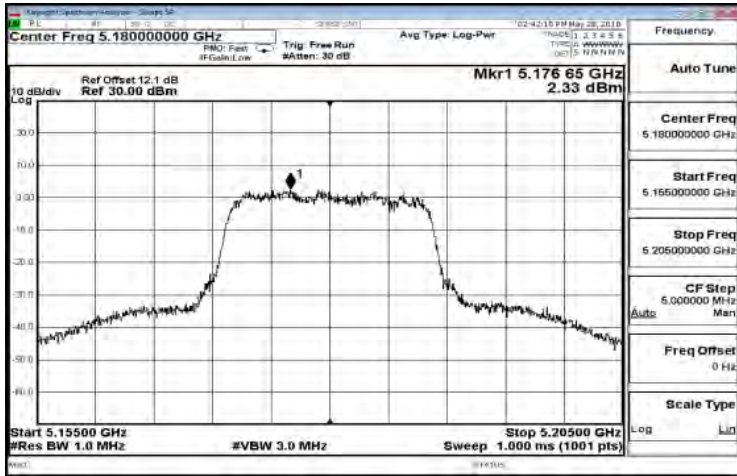
POWER DENSITY 802.11ac VHT80 MODE						
Frequency (MHz)	PPSD W/O Duty Factor (dBm)	Offset	Duty Factor	PPSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5210	-5.01	15.10	0.51	-4.50	11	-15.50
5290	-2.34	15.10	0.51	-1.83	11	-12.83
5530	-9.74	15.10	0.51	-9.23	11	-20.23
5610	-10.38	15.10	0.51	-9.87	11	-20.87
5690 (U-NII 2C)	-3.40	15.10	0.51	-2.90	11	-13.90
5690 (U-NII 3)	-7.66	15.10	0.51	-7.15	30	-37.15
5775	3.30	15.10	0.51	3.30	30	-26.70

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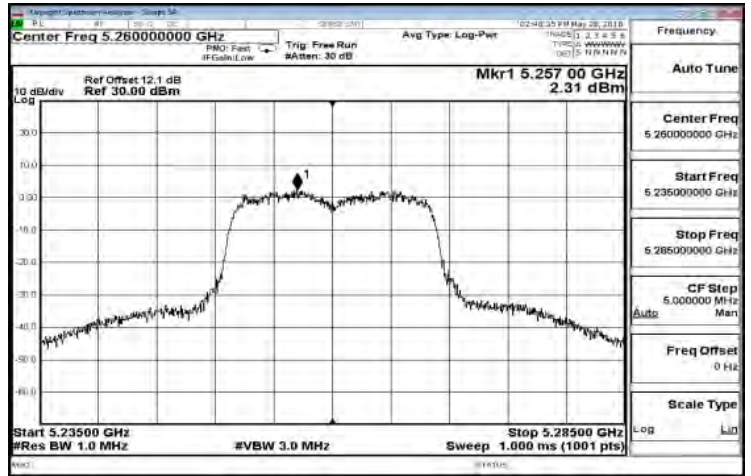
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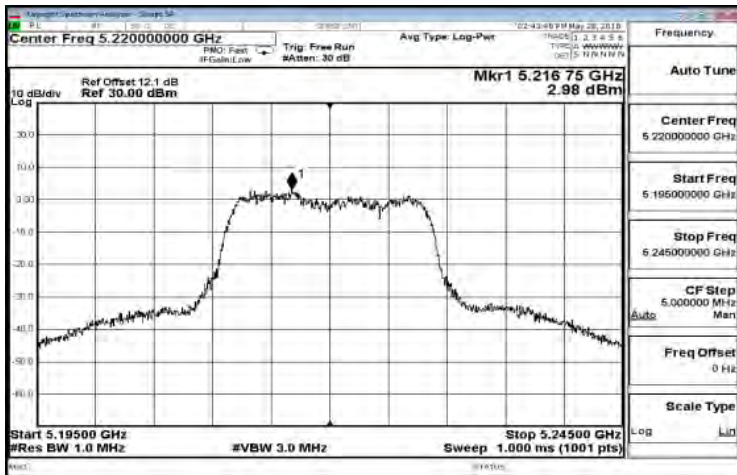
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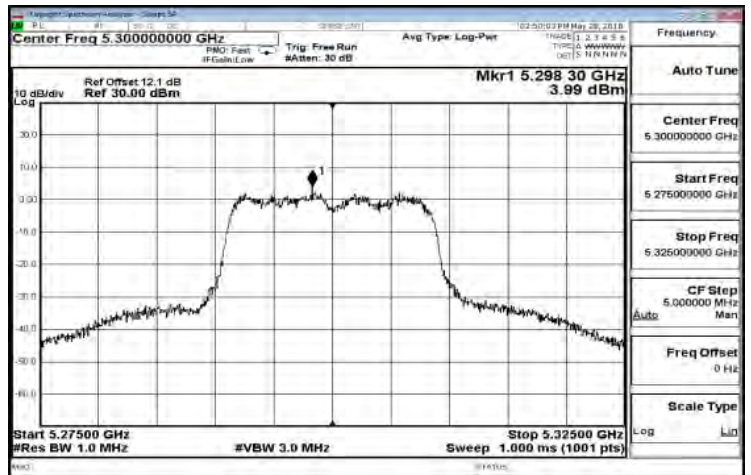
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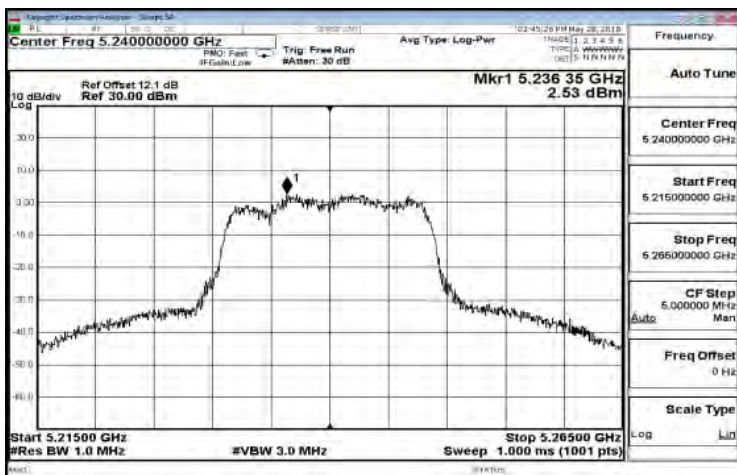
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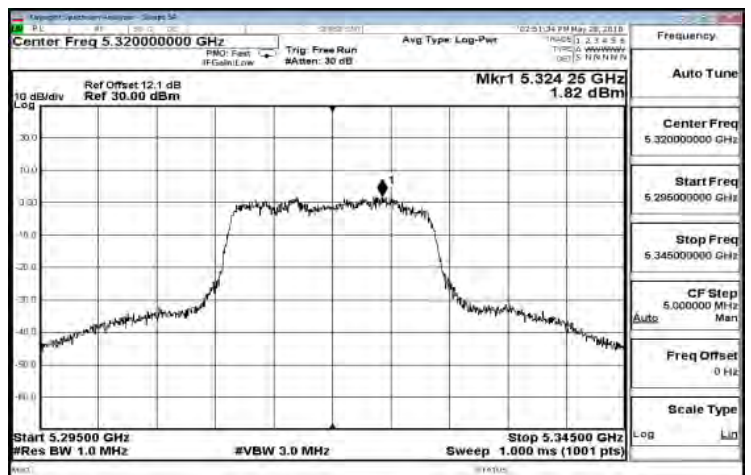
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802.11a_20MHz_5240MHz



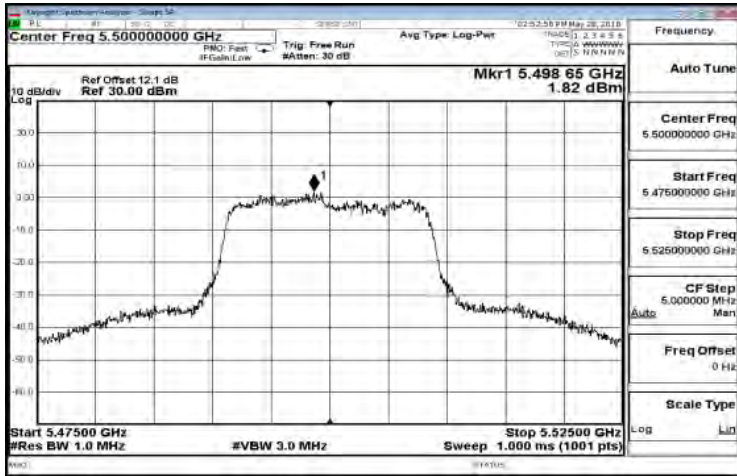
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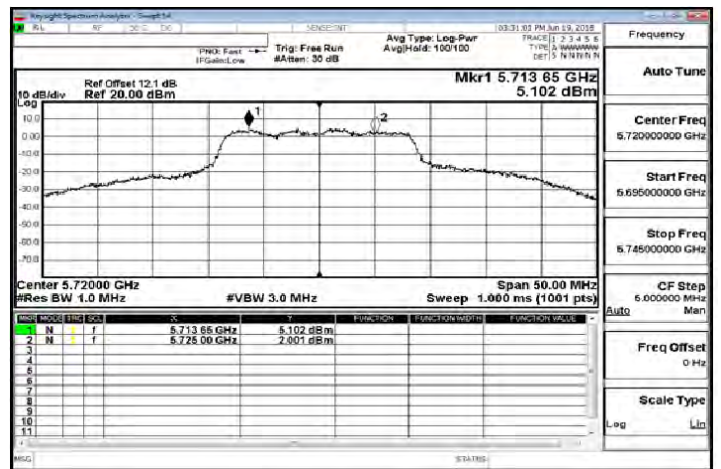
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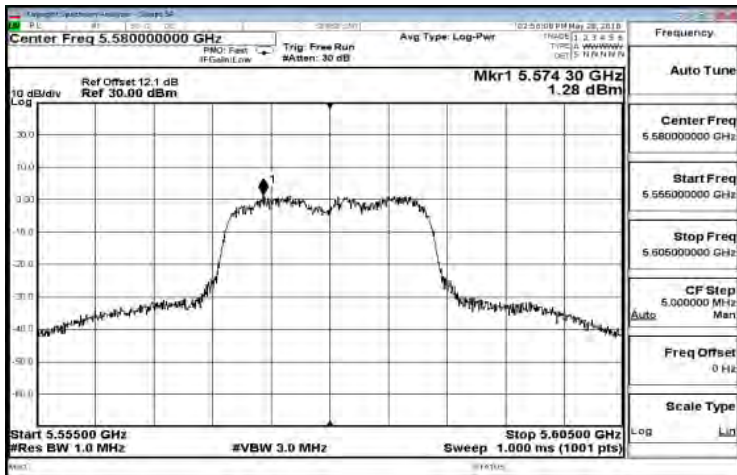
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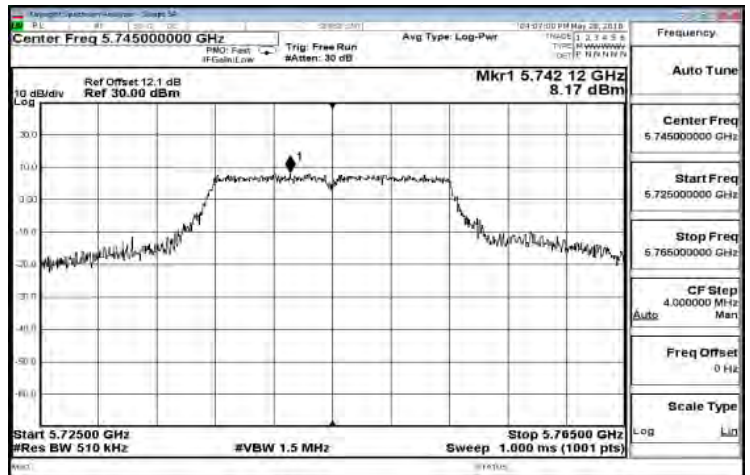
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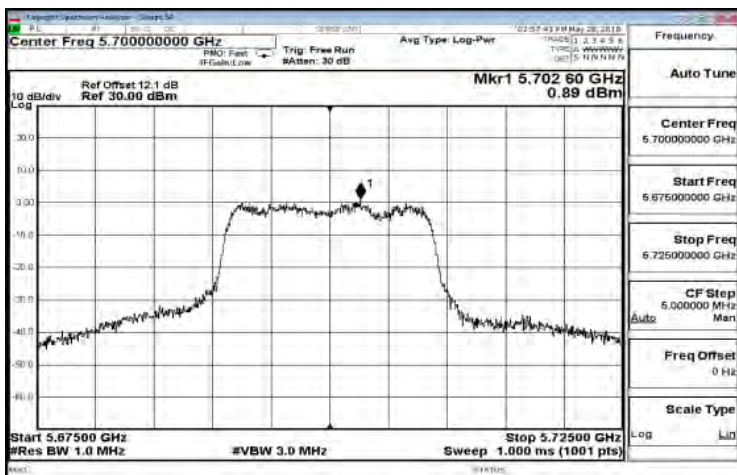
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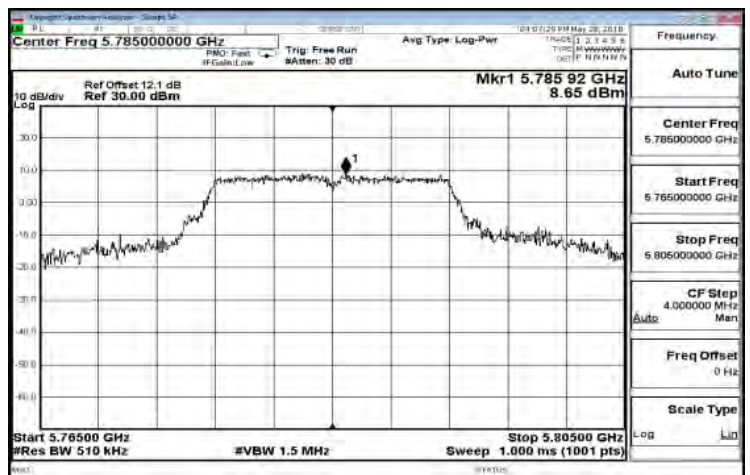
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802.11a_20MHz_5700MHz



802.11a_20MHz_5785MHz

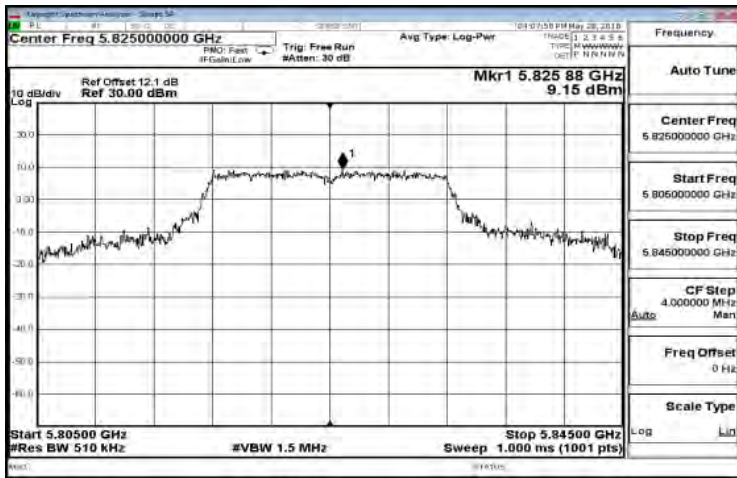


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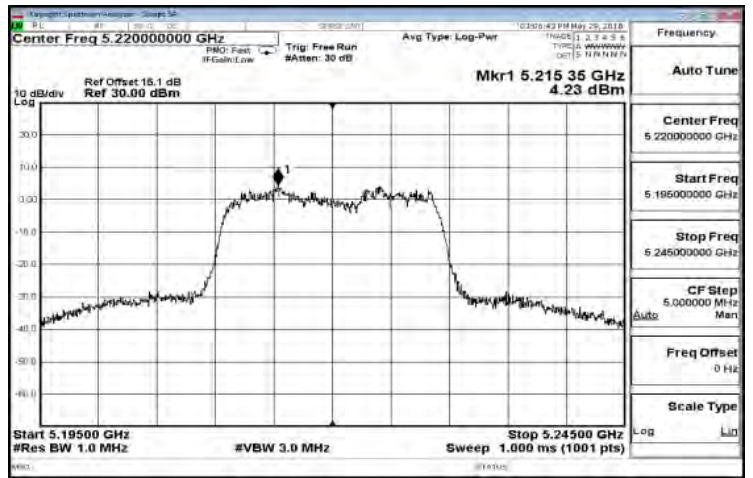
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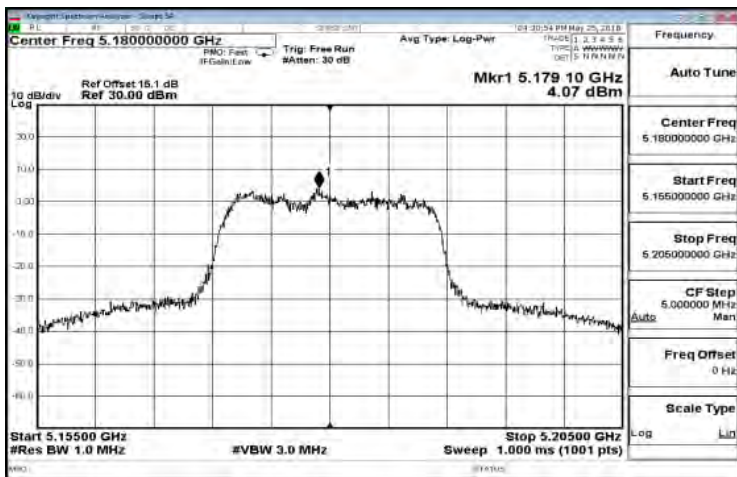
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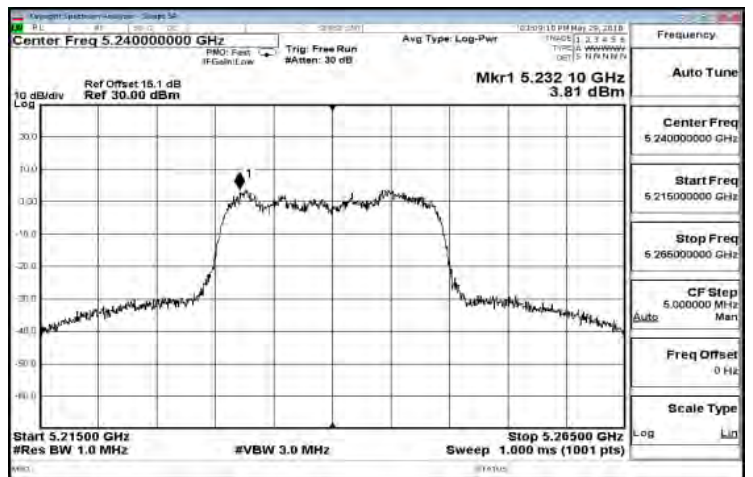
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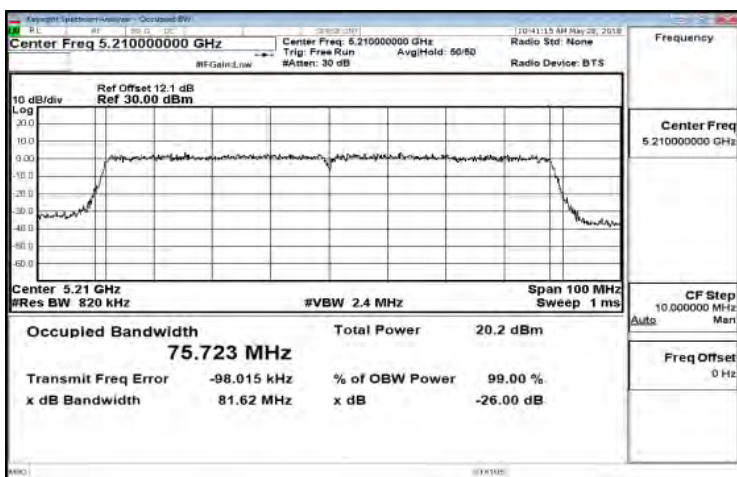
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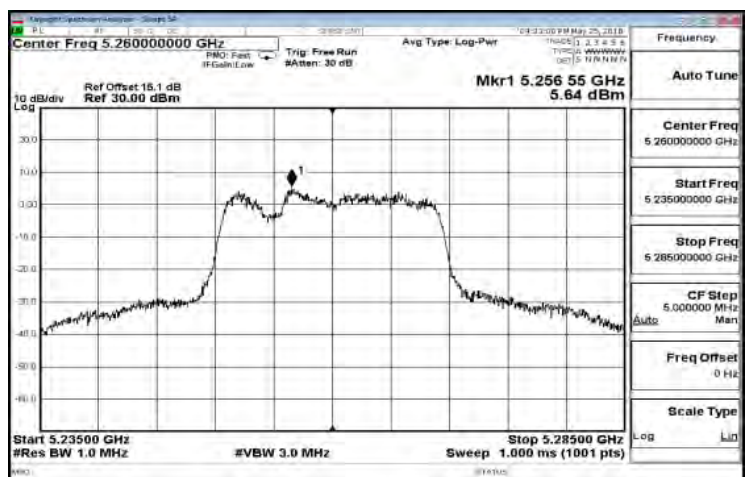
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802.11n_20MHz_5210MHz



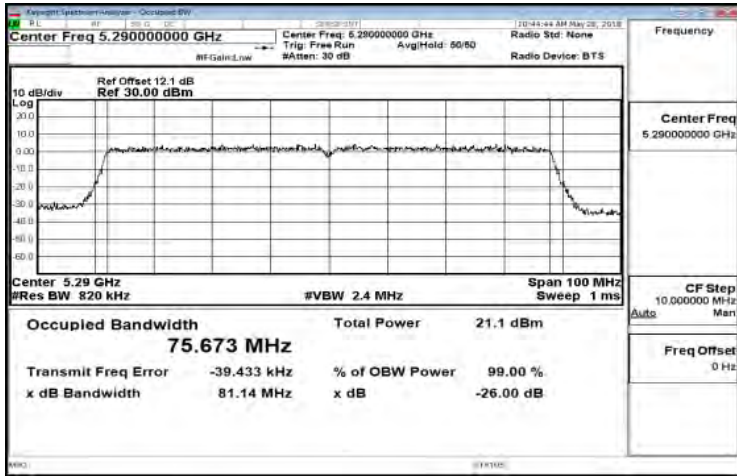
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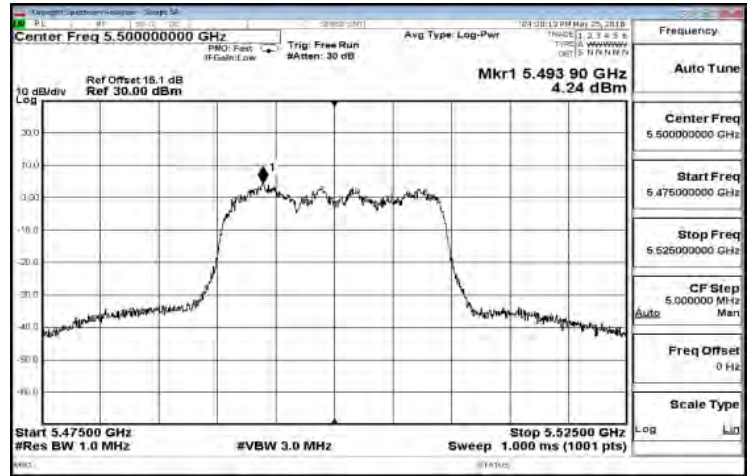
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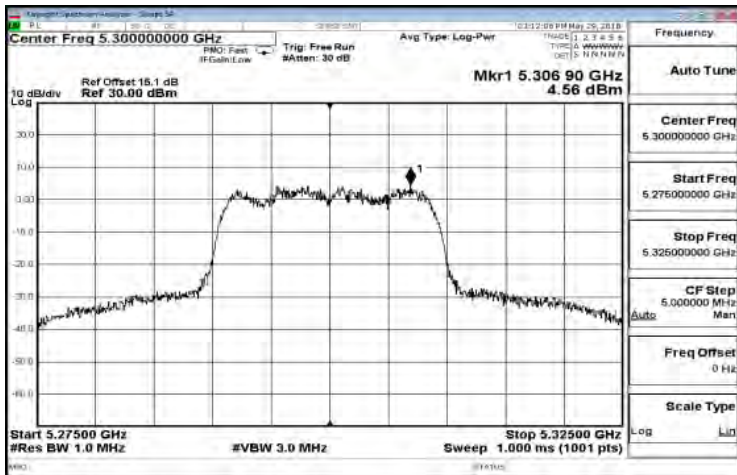
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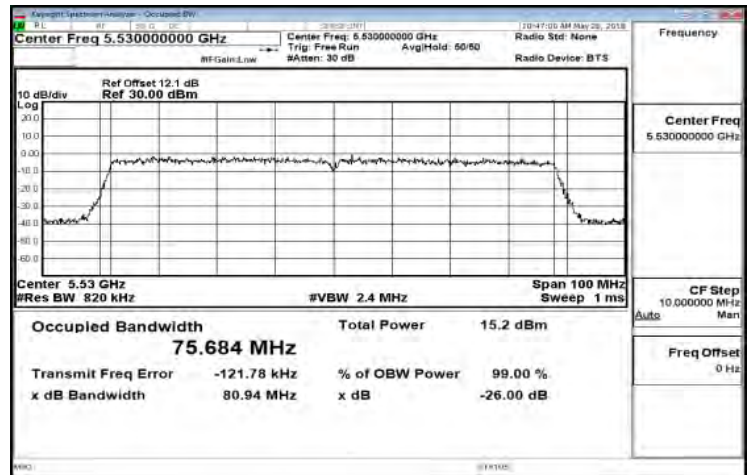
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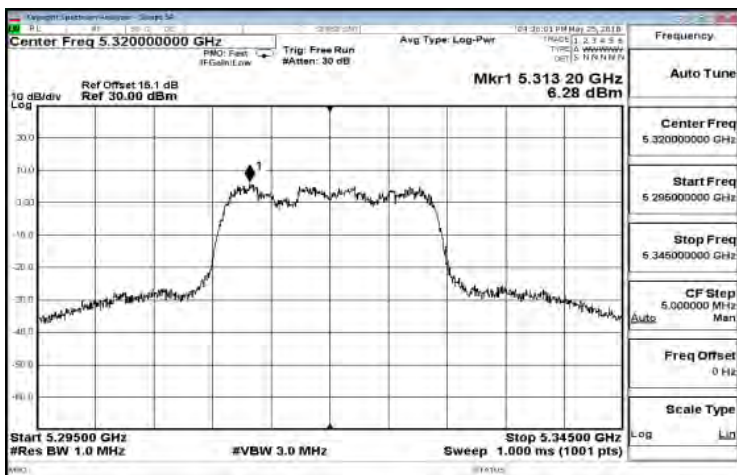
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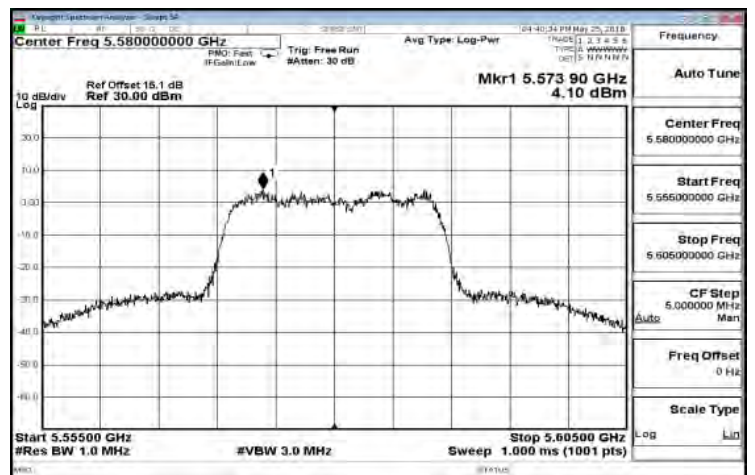
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802.11n_20MHz_5320MHz



802.11n_20MHz_5580MHz



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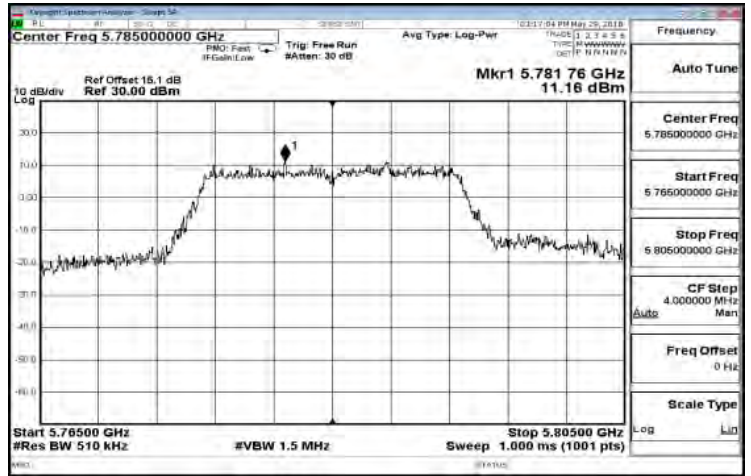
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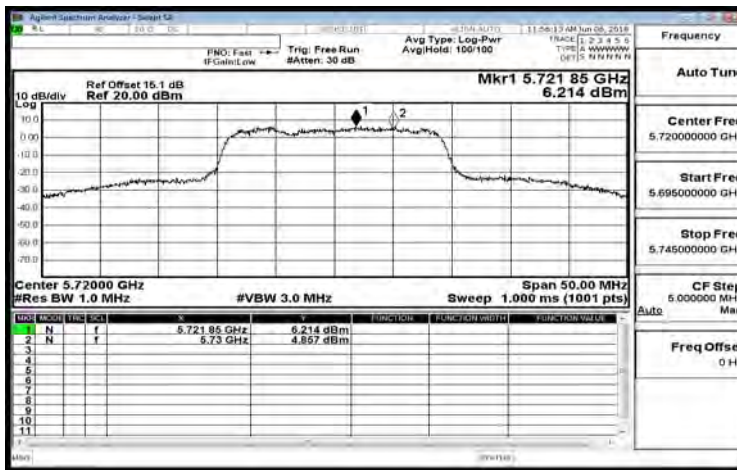
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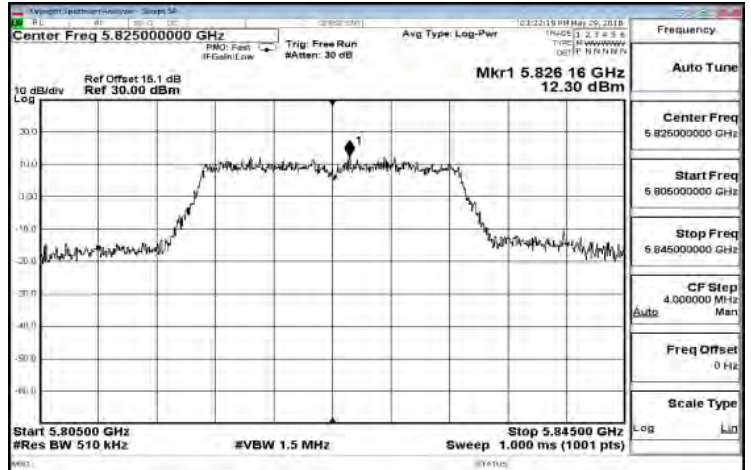
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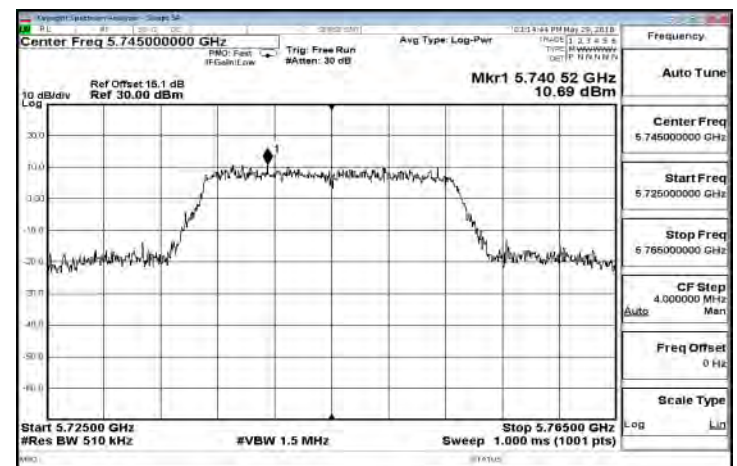
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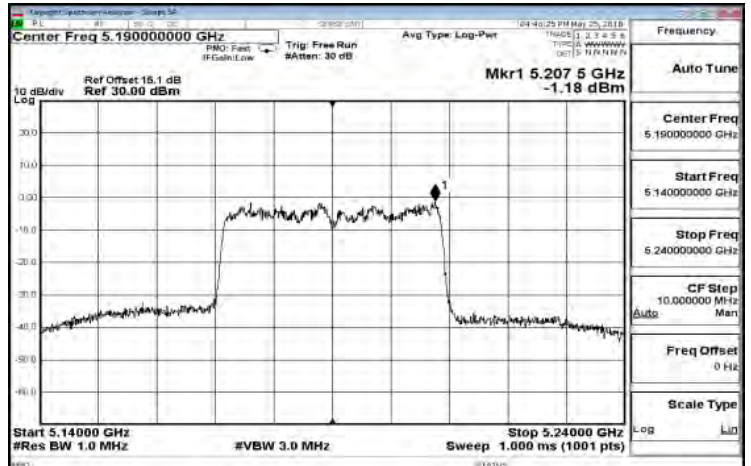
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802.11n_20MHz_5745MHz



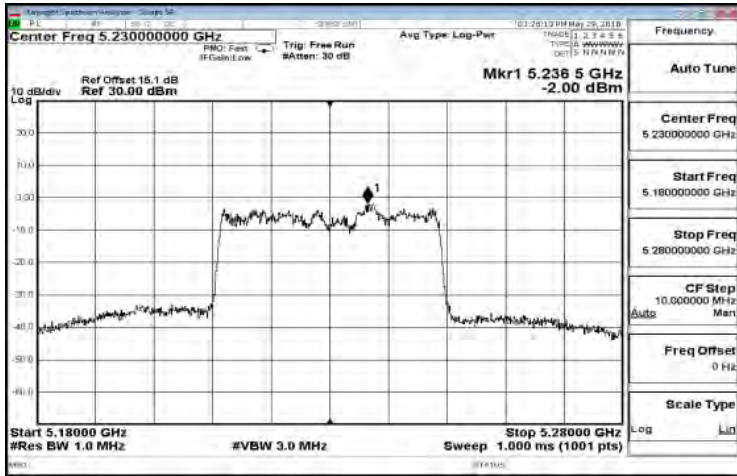
802.11n_40MHz_5190MHz



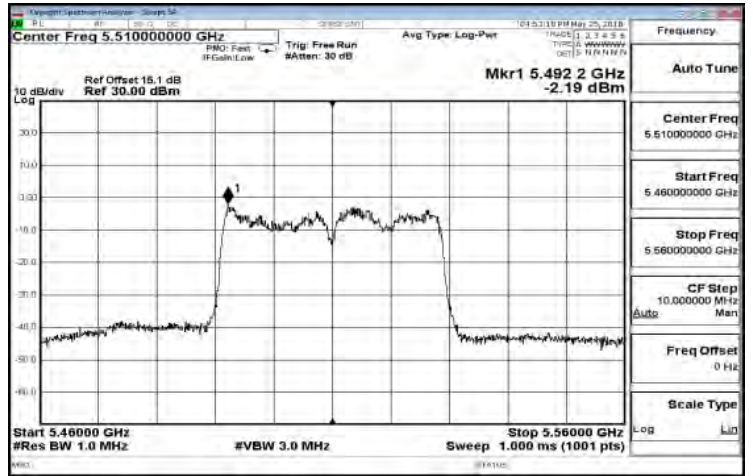
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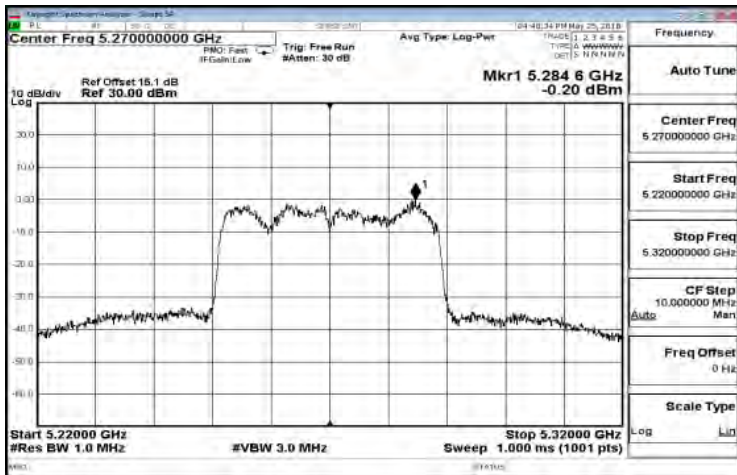
802.11n_40MHz_5230MHz



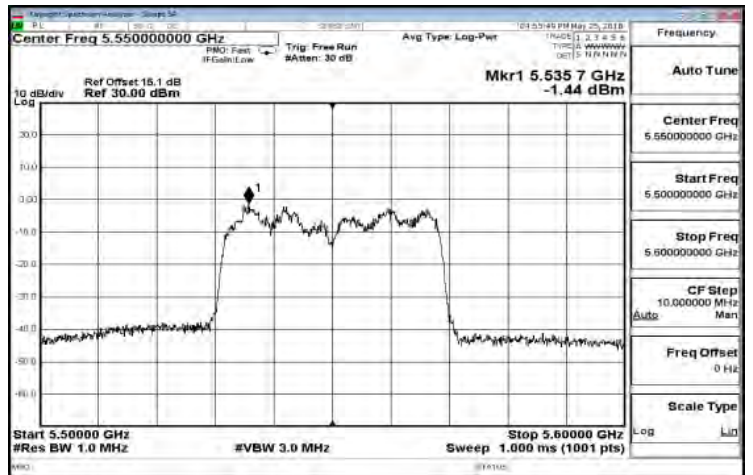
802.11n_40MHz_5510MHz



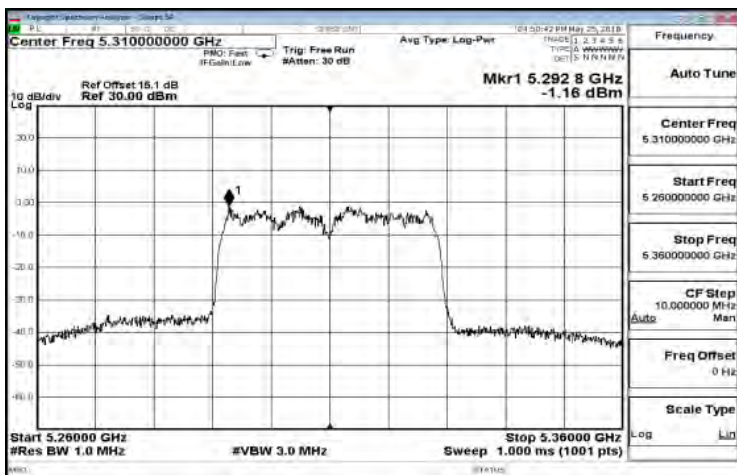
802.11n_40MHz_5270MHz



802.11n_40MHz_5550MHz



802.11n_40MHz_5310MHz



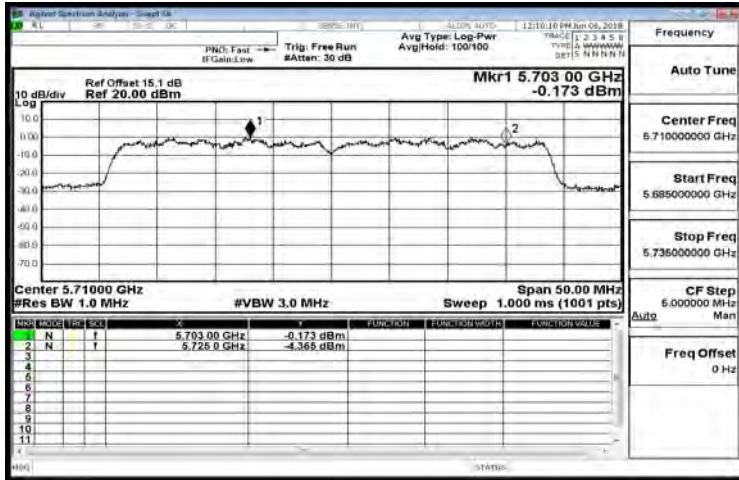
802.11n_40MHz_5670MHz



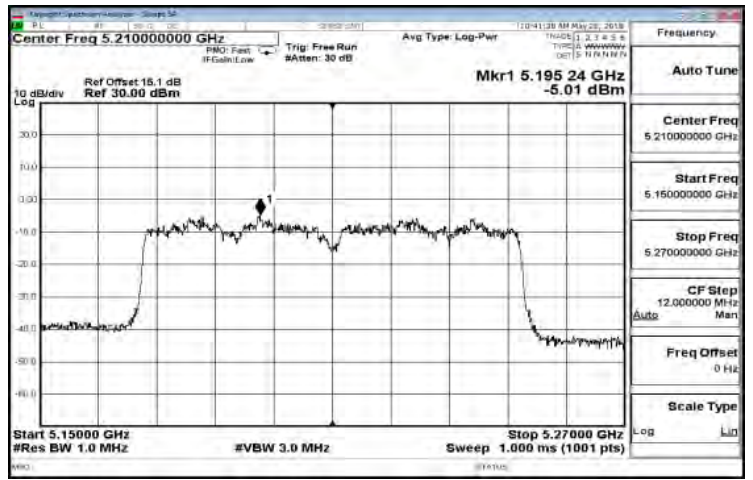
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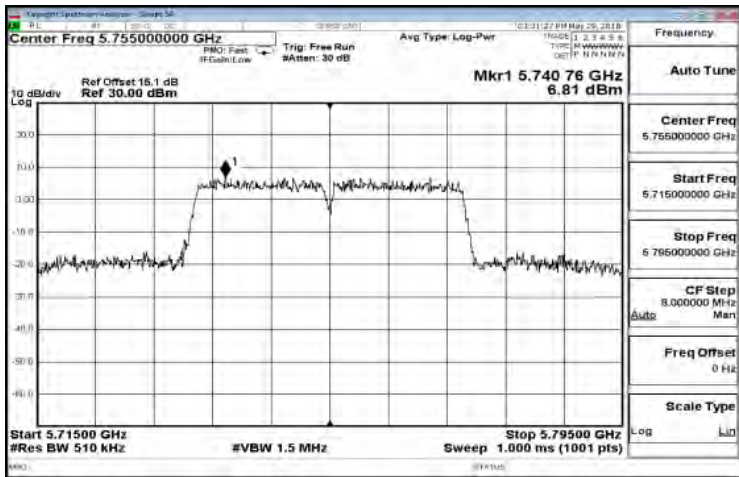
802.11n_40MHz_5710MHz



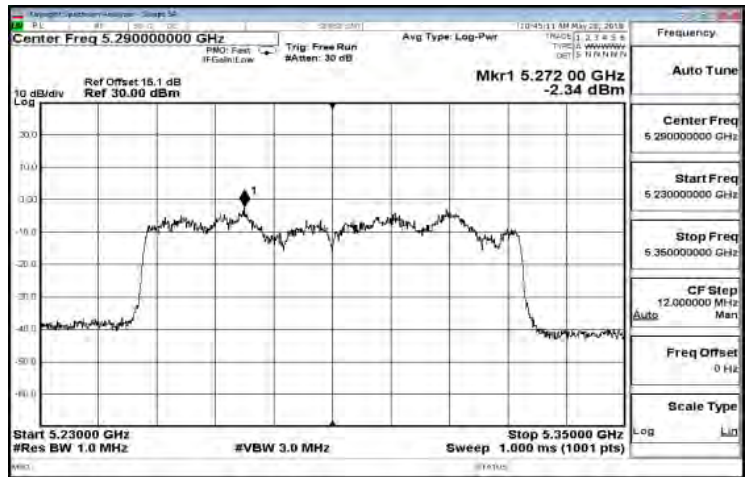
802.11ac_80MHz_5210MHz



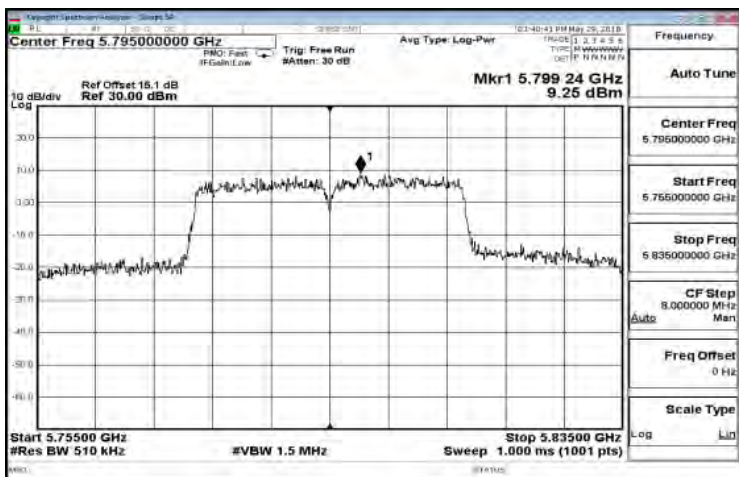
802.11n_40MHz_5755MHz



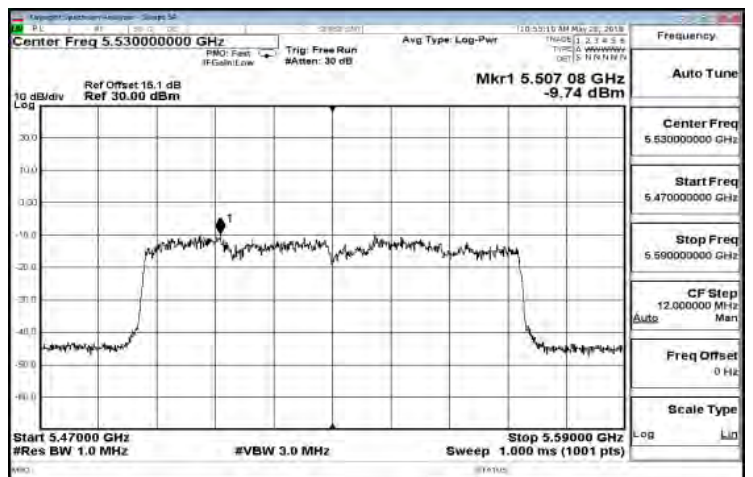
802.11ac_80MHz_5290MHz



802.11n_40MHz_5795MHz



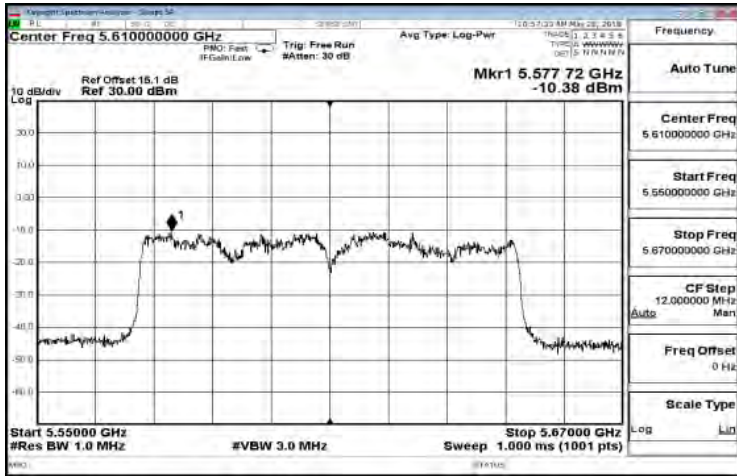
802.11ac_80MHz_5530MHz



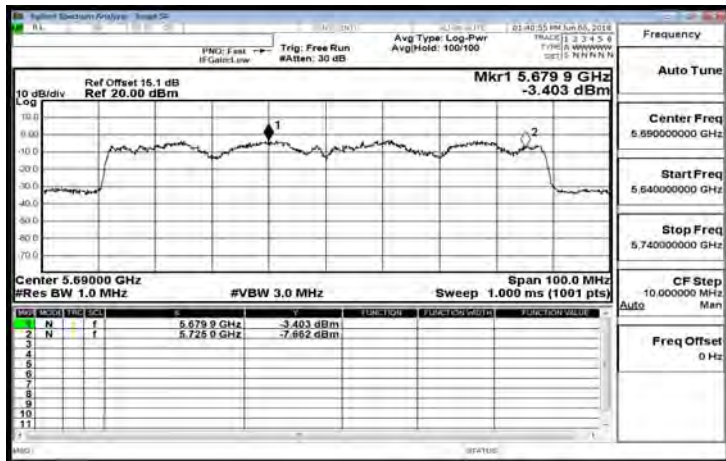
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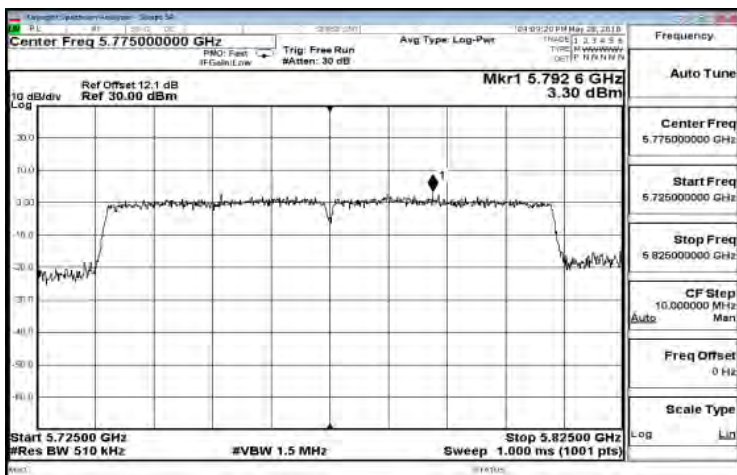
802.11ac_80MHz_5610MHz



802.11ac_80MHz_5690MHz



802.11ac_80MHz_5775MHz



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11 UNDESIRABLE RADIATED EMISSION MEASUREMENT

11.1 Standard Applicable

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	LIMIT	
FCC KDB 789033 D02 General UNII Test Procedures New Rules	FIELD STRENGTH AT 3m	
	PK: 74 (dBµV/m)	AV 54 (dBµV/m)
APPLICABLE TO	EIRP LIMIT	FIELD STRENGTH AT 3m
15.407(b)(1)	PK: -27 (dBm/MHz)	PK: 68.3 (dBµV/m)
15.407(b)(2)		
15.407(b)(3)		
15.407(b)(4)(i)	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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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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11.2 Measurement Equipment Used

SGS SAC-III					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Broadband Antenna	TESEQ	CBL 6112D	35243	2017/11/10	2018/11/09
Horn Antenna	Schwarzbeck	BBHA9120D	1187	2018/01/04	2019/01/03
Horn Antenna	SCHWAZBECK	BBHA9170	184	2017/12/12	2018/12/11
Loop Antenna	ETS.LINDGREN	6502	148045	2017/09/26	2018/09/25
EMI Test Receiver	R&S	ESU 40	100363	2018/04/11	2019/04/10
Pre-Amplifier	EMC Instruments	EMC330	980096	2017/12/26	2018/12/25
Pre-Amplifier	EMC Instruments	EMC0011830	980199	2017/12/26	2018/12/25
Pre-Amplifier	EMC Instruments	EMC184045B	980135	2017/10/27	2018/10/26
Coaxial Cable	Huber+Suhner	RG 214/U	W21.01	2017/12/26	2018/12/25
Coaxial Cable	Huber Suhner	EMC106-SM-SM-7200	150703	2017/12/26	2018/12/25
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17388/4	2017/12/26	2018/12/25

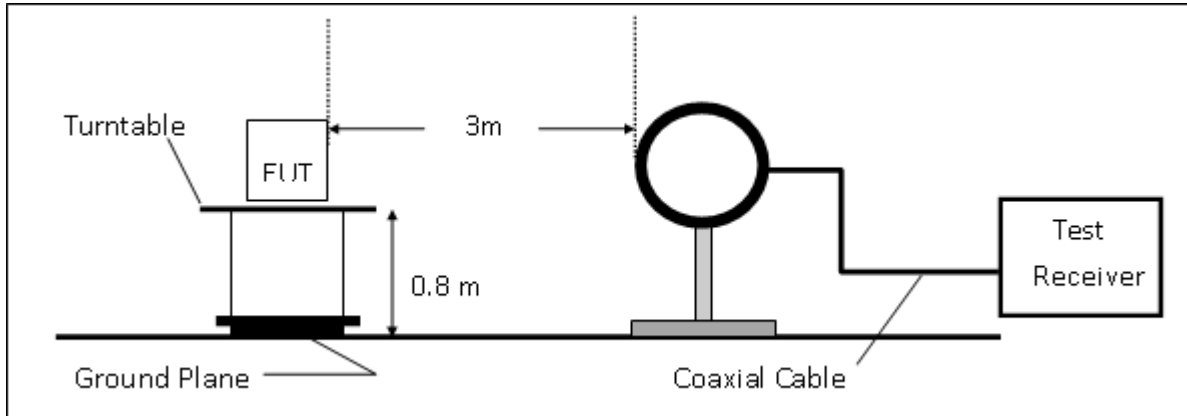
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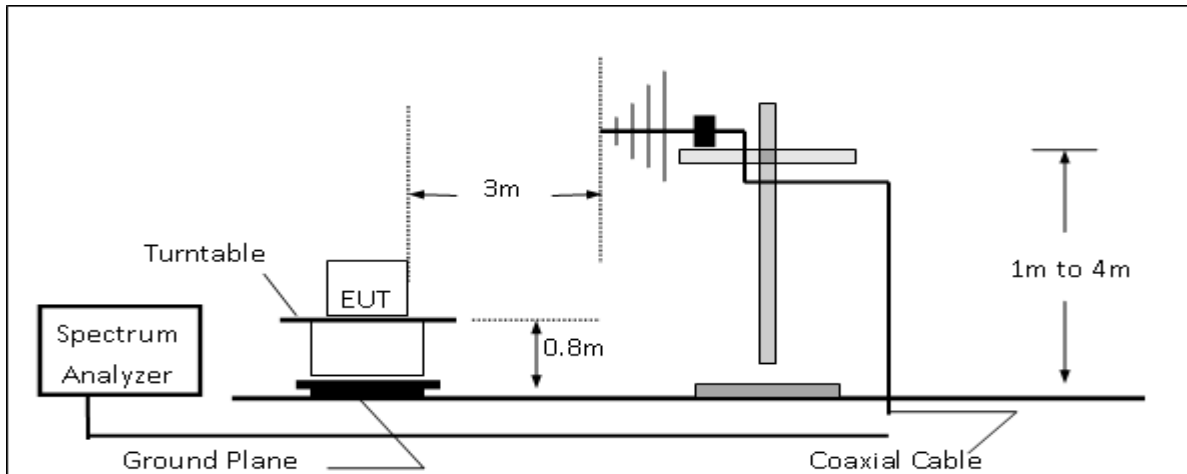
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11.3 Test SET-UP

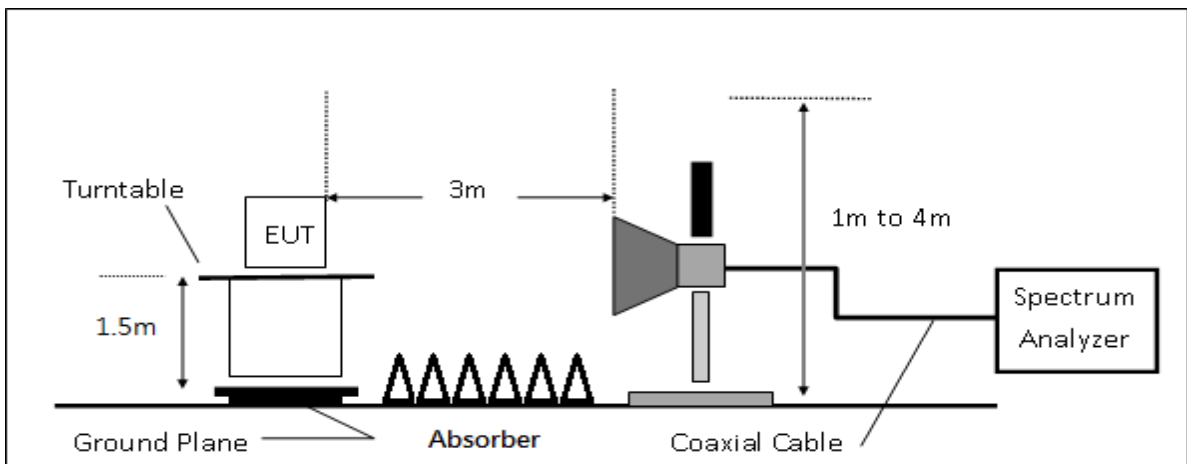
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



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



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



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11.4 Measurement Procedure

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
3. The EUT was placed on a turn table with 0.8m for frequency< 1GHz and 1.5m for frequency> 1GHz above ground plane.
4. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
5. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
6. Set the spectrum analyzer as RBW=120 kHz and VBW=300 kHz for Peak Detector (PK) and Quasi-peak (QP) at frequency below 1 GHz.
7. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Peak Detector at frequency above 1 GHz.
8. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW ≥ 1/T (Duty cycle < 98%) for Average Detector at frequency above 1 GHz.
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.

11.5 Field Strength Calculation

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

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

Where FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	AG = Amplifier Gain
AF = Antenna Factor	

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

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

11.6 Test Results of Radiated Spurious Emissions form 9 kHz to 30 MHz

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

11.7 Measurement Result

Refer to next page for tabular data sheets.

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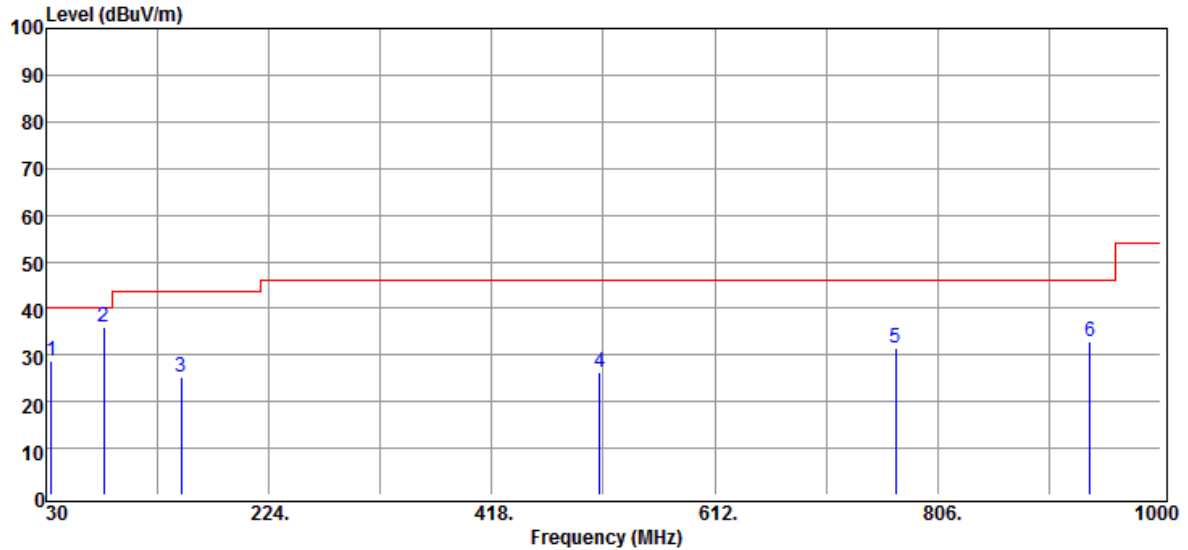
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Radiated Spurious Emission Measurement Result

Below 1GHz Worst-Case Data:

Operation Mode	:802.11a / Band 1	Test Date	:2018-05-29
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5220 MHz	Engineer	:Ashton



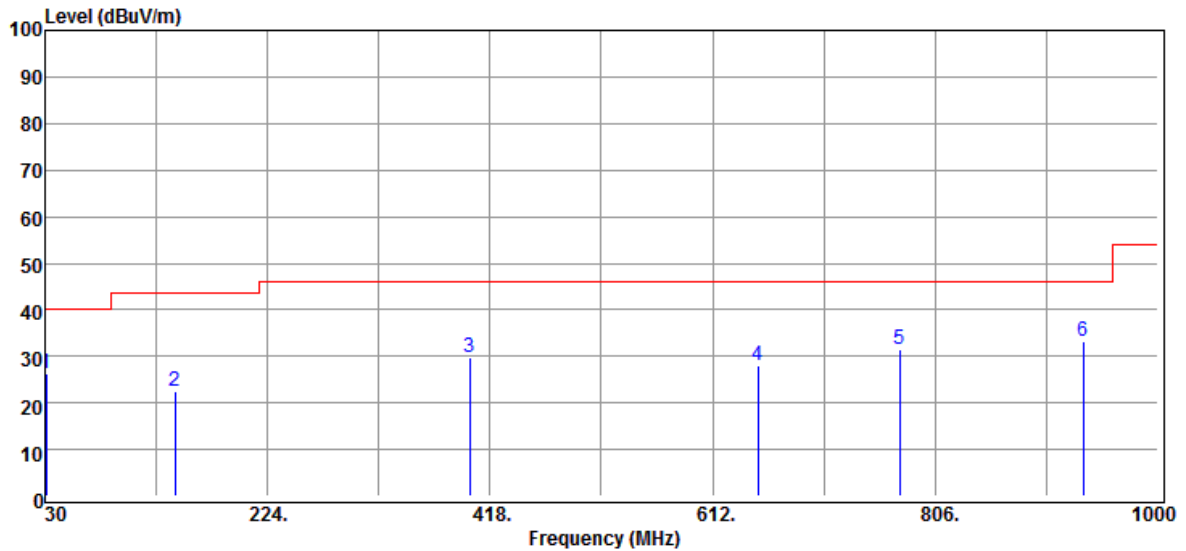
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
34.85	Peak	35.09	-6.23	28.86	40.00	-11.14
80.44	Peak	52.78	-16.84	35.94	40.00	-4.06
147.37	Peak	37.70	-12.50	25.20	43.50	-18.30
512.09	Peak	30.13	-3.94	26.19	46.00	-19.81
769.14	Peak	32.32	-0.96	31.36	46.00	-14.64
938.89	Peak	30.91	1.86	32.77	46.00	-13.23

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Operation Mode	:802.11a / Band 1	Test Date	:2018-05-29
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5220 MHz	Engineer	:Ashton



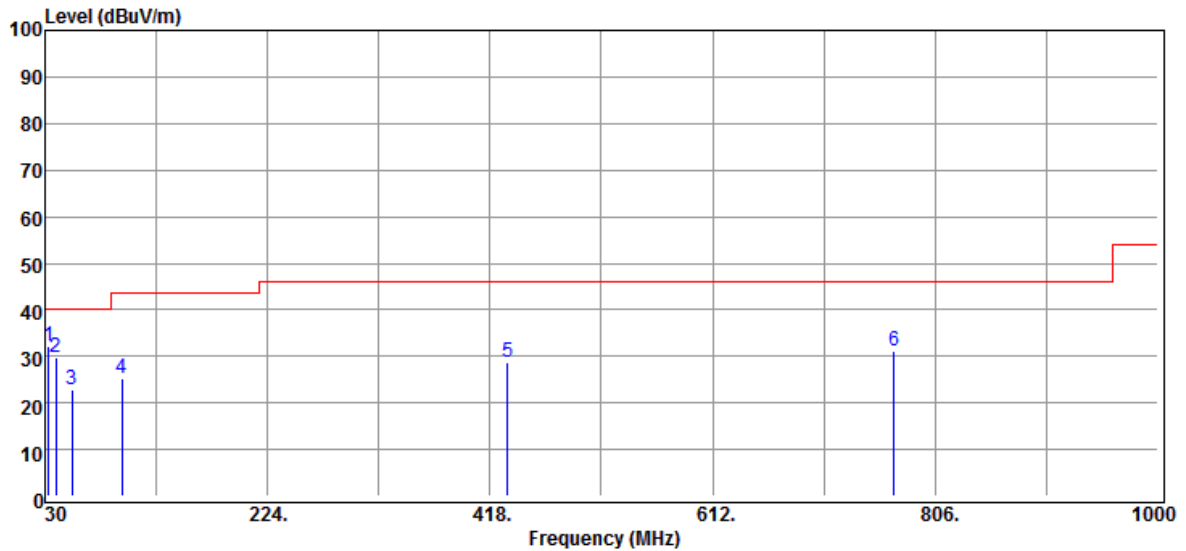
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
30.97	Peak	30.45	-4.16	26.29	40.00	-13.71
143.49	Peak	34.70	-12.18	22.52	43.50	-20.98
400.54	Peak	35.72	-6.01	29.71	46.00	-16.29
651.77	Peak	30.28	-2.33	27.95	46.00	-18.05
774.96	Peak	32.18	-0.84	31.34	46.00	-14.66
935.01	Peak	31.53	1.79	33.32	46.00	-12.68

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Operation Mode	:802.11a / Band 2	Test Date	:2018-05-29
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5300 MHz	Engineer	:Ashton



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
32.91	Peak	37.58	-5.23	32.35	40.00	-7.65
39.70	Peak	38.15	-8.50	29.65	40.00	-10.35
53.28	Peak	40.23	-17.25	22.98	40.00	-17.02
96.93	Peak	40.64	-15.26	25.38	43.50	-18.12
433.52	Peak	34.62	-5.90	28.72	46.00	-17.28
770.11	Peak	32.14	-0.95	31.19	46.00	-14.81

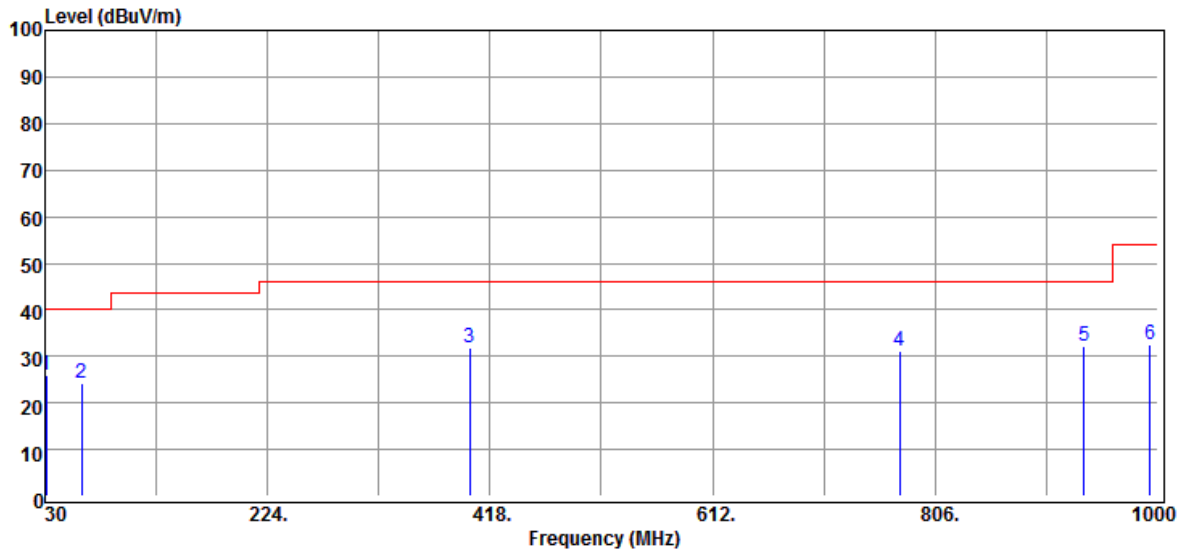
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Operation Mode :802.11a / Band 2
 Test Mode :TX CH MID
 EUT Pol :E1 Plan
 Test Channel :5300 MHz

Test Date :2018-05-29
 Temp./Humi. :25/60
 Antenna Pol. :HORIZONTAL
 Engineer :Ashton



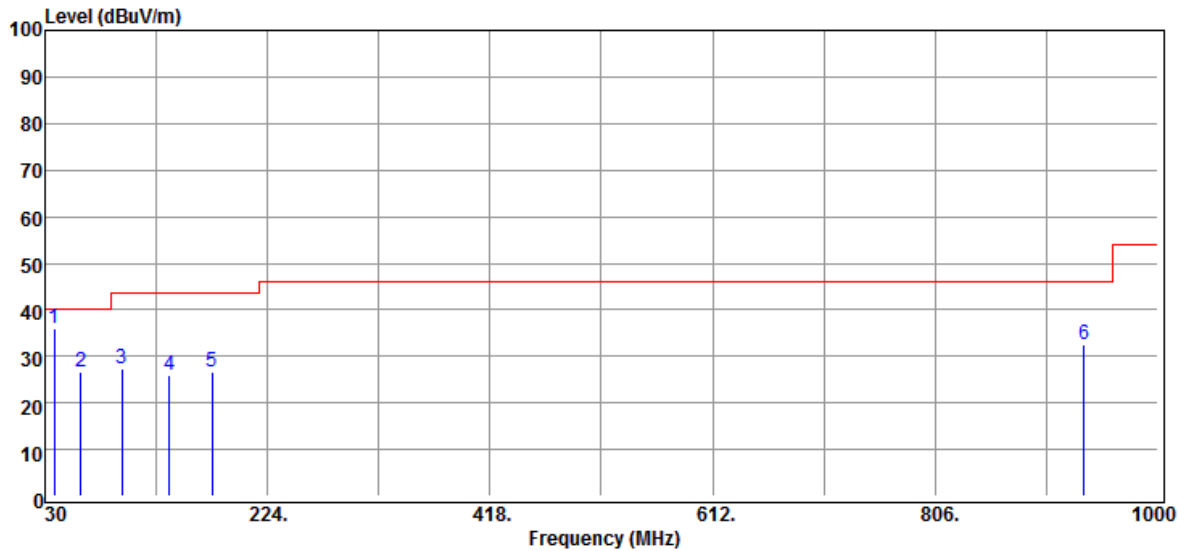
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
30.97	Peak	30.22	-4.16	26.06	40.00	-13.94
62.01	Peak	43.67	-19.35	24.32	40.00	-15.68
400.54	Peak	38.00	-6.01	31.99	46.00	-14.01
774.96	Peak	31.98	-0.84	31.14	46.00	-14.86
935.98	Peak	30.43	1.81	32.24	46.00	-13.76
993.21	Peak	29.44	3.14	32.58	54.00	-21.42

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Operation Mode	:802.11a / Band 3	Test Date	:2018-05-29
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5580 MHz	Engineer	:Ashton



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
37.76	Peak	43.63	-7.62	36.01	40.00	-3.99
61.04	Peak	46.15	-19.54	26.61	40.00	-13.39
96.93	Peak	42.72	-15.26	27.46	43.50	-16.04
138.64	Peak	37.64	-11.82	25.82	43.50	-17.68
175.50	Peak	40.82	-14.10	26.72	43.50	-16.78
935.98	Peak	30.65	1.81	32.46	46.00	-13.54

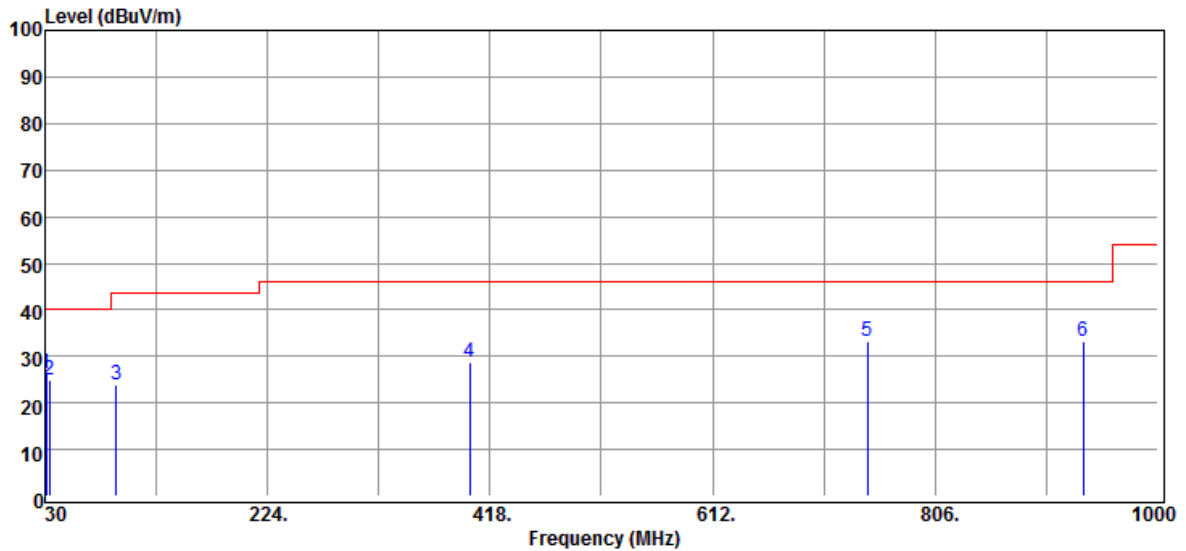
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Operation Mode :802.11a / Band 3
 Test Mode :TX CH MID
 EUT Pol :E1 Plan
 Test Channel :5580 MHz

Test Date :2018-05-29
 Temp./Humi. :25/60
 Antenna Pol. :HORIZONTAL
 Engineer :Ashton



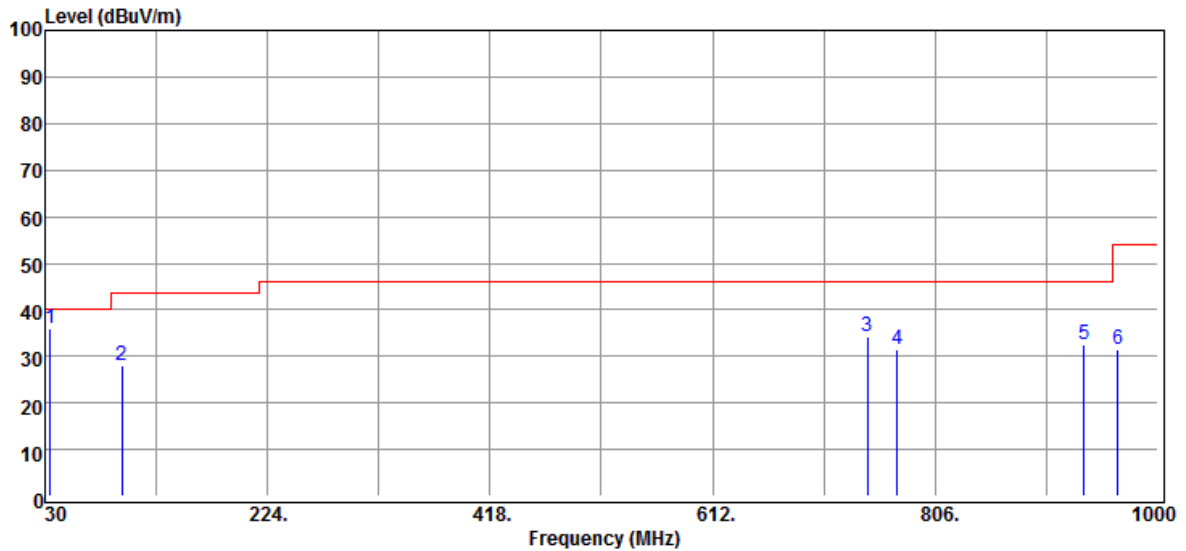
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
30.97	Peak	30.37	-4.16	26.21	40.00	-13.79
33.88	Peak	30.77	-5.73	25.04	40.00	-14.96
92.08	Peak	40.02	-16.03	23.99	43.50	-19.51
400.54	Peak	34.64	-6.01	28.63	46.00	-17.37
746.83	Peak	34.47	-1.38	33.09	46.00	-12.91
935.01	Peak	31.53	1.79	33.32	46.00	-12.68

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Operation Mode	:802.11a / Band 4	Test Date	:2018-05-29
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5785 MHz	Engineer	:Ashton



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
34.85	Peak	42.26	-6.23	36.03	40.00	-3.97
96.93	Peak	43.35	-15.26	28.09	43.50	-15.41
746.83	Peak	35.77	-1.38	34.39	46.00	-11.61
773.02	Peak	32.35	-0.88	31.47	46.00	-14.53
935.98	Peak	30.66	1.81	32.47	46.00	-13.53
965.08	Peak	29.03	2.43	31.46	54.00	-22.54

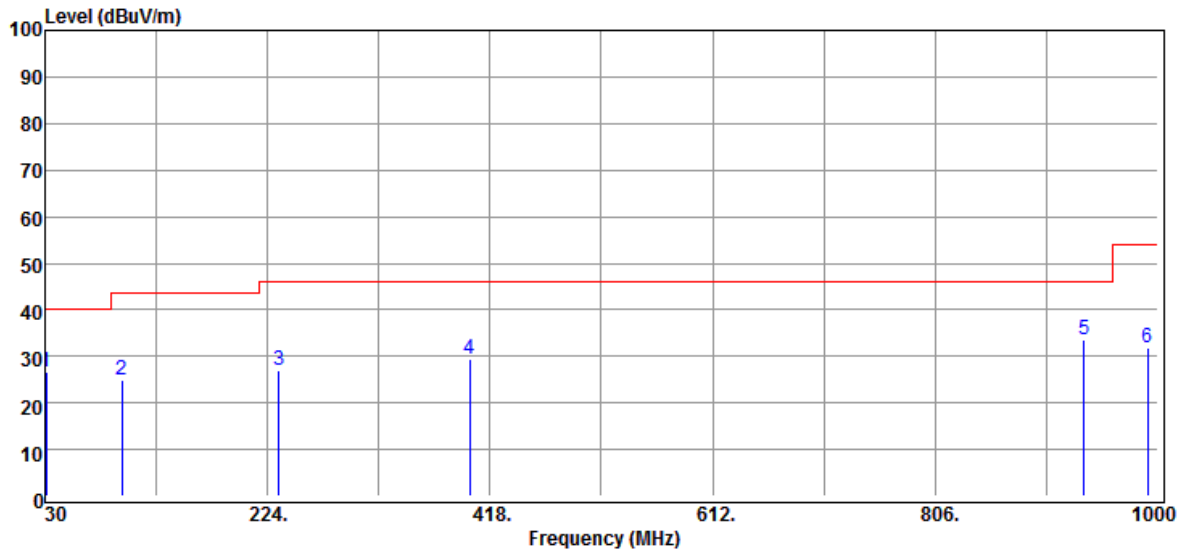
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Operation Mode :802.11a / Band 4
 Test Mode :TX CH MID
 EUT Pol :E1 Plan
 Test Channel :5785 MHz

Test Date :2018-05-29
 Temp./Humi. :25/60
 Antenna Pol. :HORIZONTAL
 Engineer :Ashton



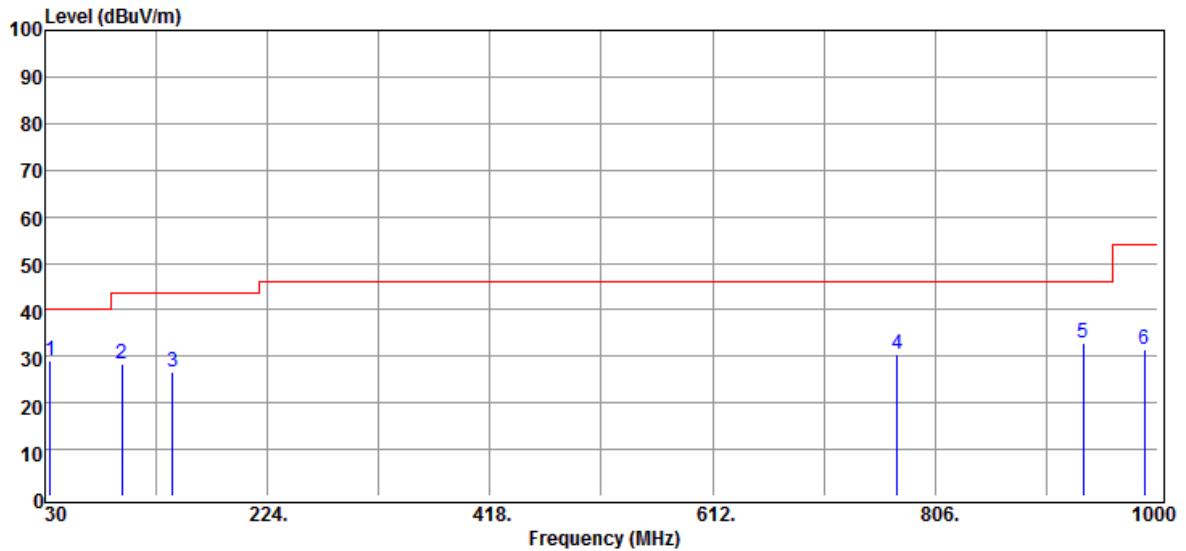
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
30.97	Peak	30.66	-4.16	26.50	40.00	-13.50
96.93	Peak	40.12	-15.26	24.86	43.50	-18.64
233.70	Peak	39.02	-12.15	26.87	46.00	-19.13
400.54	Peak	35.56	-6.01	29.55	46.00	-16.45
935.98	Peak	31.72	1.81	33.53	46.00	-12.47
991.27	Peak	28.90	3.09	31.99	54.00	-22.01

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Operation Mode	:802.11ac80 / Band 1	Test Date	:2018-05-29
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5210 MHz	Engineer	:Ashton



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
34.85	Peak	35.44	-6.23	29.21	40.00	-10.79
96.93	Peak	43.59	-15.26	28.33	43.50	-15.17
141.55	Peak	38.70	-12.01	26.69	43.50	-16.81
773.02	Peak	31.41	-0.88	30.53	46.00	-15.47
935.01	Peak	31.10	1.79	32.89	46.00	-13.11
988.36	Peak	28.44	3.01	31.45	54.00	-22.55

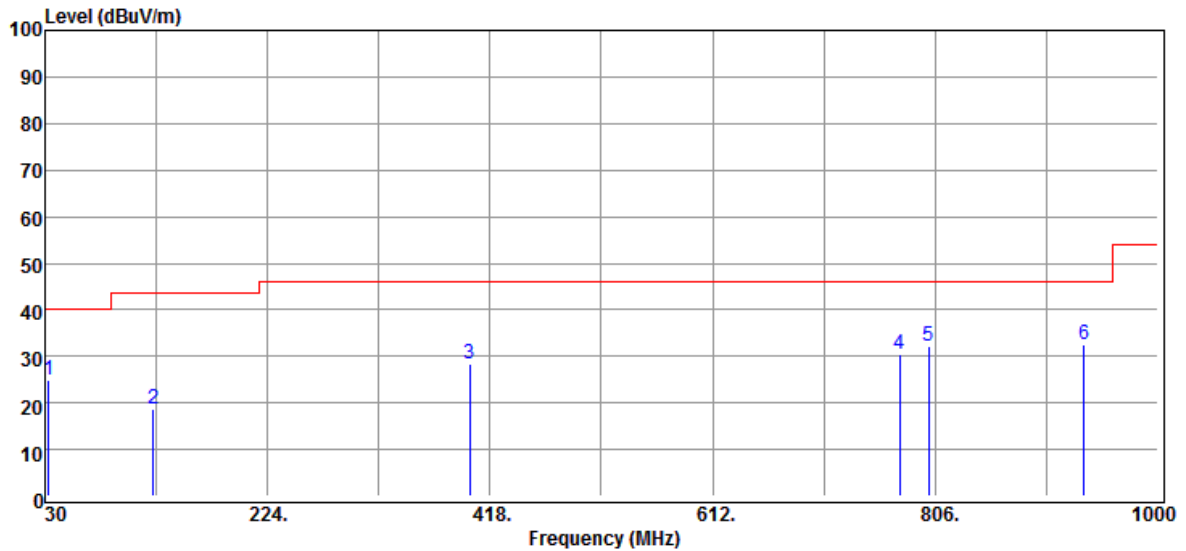
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Operation Mode :802.11ac80 / Band 1
 Test Mode :TX CH LOW
 EUT Pol :E1 Plan
 Test Channel :5210 MHz

Test Date :2018-05-29
 Temp./Humi. :25/60
 Antenna Pol. :HORIZONTAL
 Engineer :Ashton



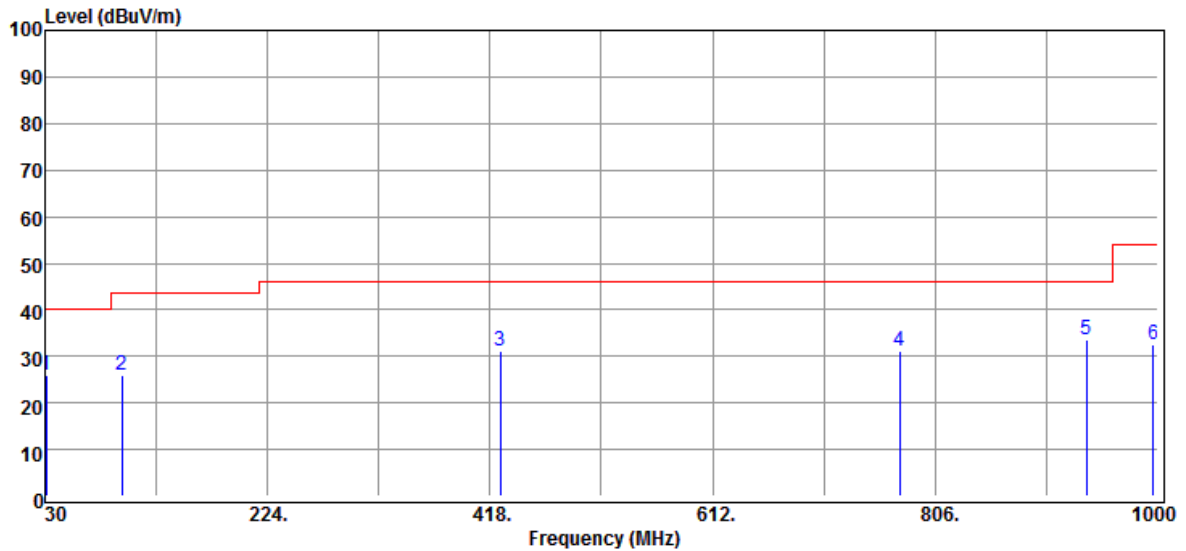
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
32.91	Peak	30.26	-5.23	25.03	40.00	-14.97
124.09	Peak	30.66	-11.84	18.82	43.50	-24.68
400.54	Peak	34.50	-6.01	28.49	46.00	-17.51
774.96	Peak	31.24	-0.84	30.40	46.00	-15.60
800.18	Peak	32.46	-0.33	32.13	46.00	-13.87
935.98	Peak	30.57	1.81	32.38	46.00	-13.62

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Operation Mode	:802.11ac80 / Band 2	Test Date	:2018-05-29
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5290 MHz	Engineer	:Ashton



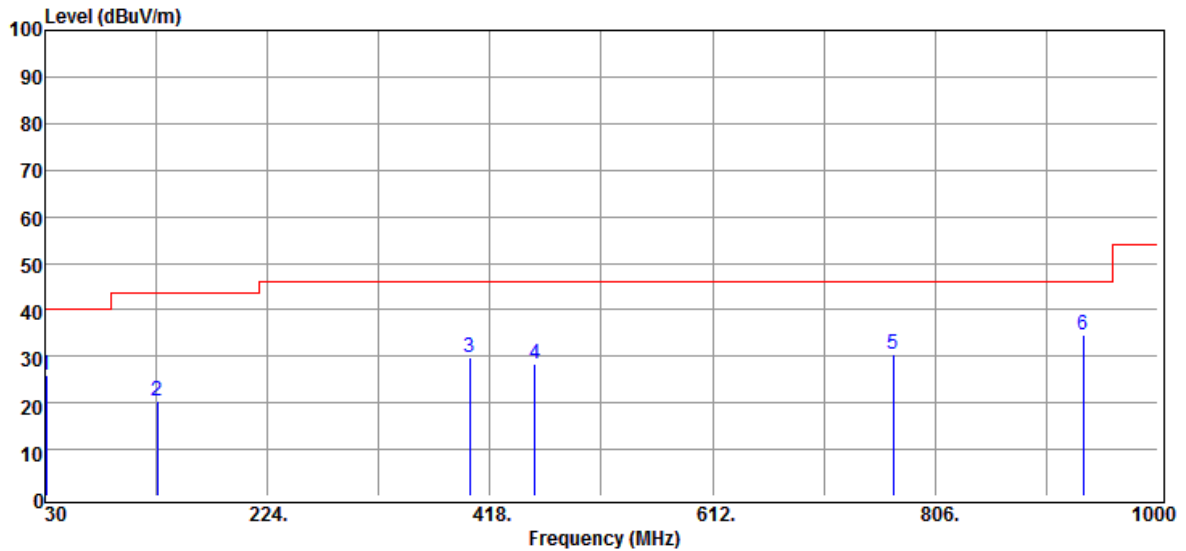
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
30.97	Peak	30.25	-4.16	26.09	40.00	-13.91
96.93	Peak	41.24	-15.26	25.98	43.50	-17.52
426.73	Peak	36.98	-5.94	31.04	46.00	-14.96
774.96	Peak	32.13	-0.84	31.29	46.00	-14.71
937.92	Peak	31.62	1.85	33.47	46.00	-12.53
996.12	Peak	29.19	3.20	32.39	54.00	-21.61

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Operation Mode	:802.11ac80 / Band 2	Test Date	:2018-05-29
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5290 MHz	Engineer	:Ashton



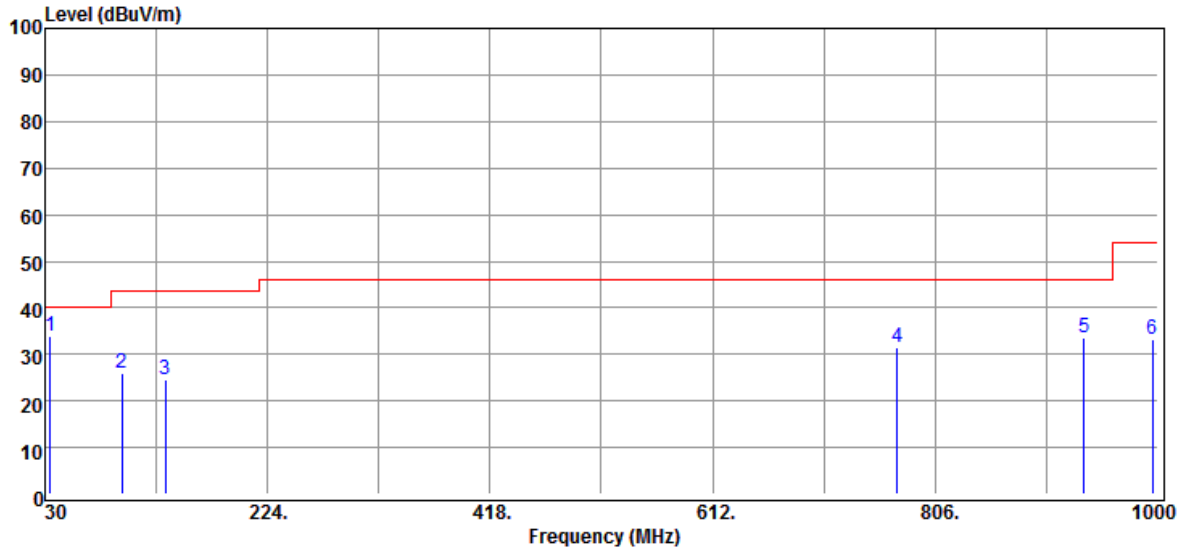
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
30.97	Peak	30.06	-4.16	25.90	40.00	-14.10
127.97	Peak	31.86	-11.58	20.28	43.50	-23.22
400.54	Peak	35.92	-6.01	29.91	46.00	-16.09
456.80	Peak	33.73	-5.20	28.53	46.00	-17.47
769.14	Peak	31.51	-0.96	30.55	46.00	-15.45
935.01	Peak	32.65	1.79	34.44	46.00	-11.56

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Operation Mode	:802.11ac80 / Band 3	Test Date	:2018-05-29
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5610 MHz	Engineer	:Ashton



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
34.85	Peak	40.25	-6.23	34.02	40.00	-5.98
96.93	Peak	41.06	-15.26	25.80	43.50	-17.70
134.76	Peak	36.06	-11.65	24.41	43.50	-19.09
773.02	Peak	32.31	-0.88	31.43	46.00	-14.57
935.98	Peak	31.84	1.81	33.65	46.00	-12.35
995.15	Peak	30.03	3.17	33.20	54.00	-20.80

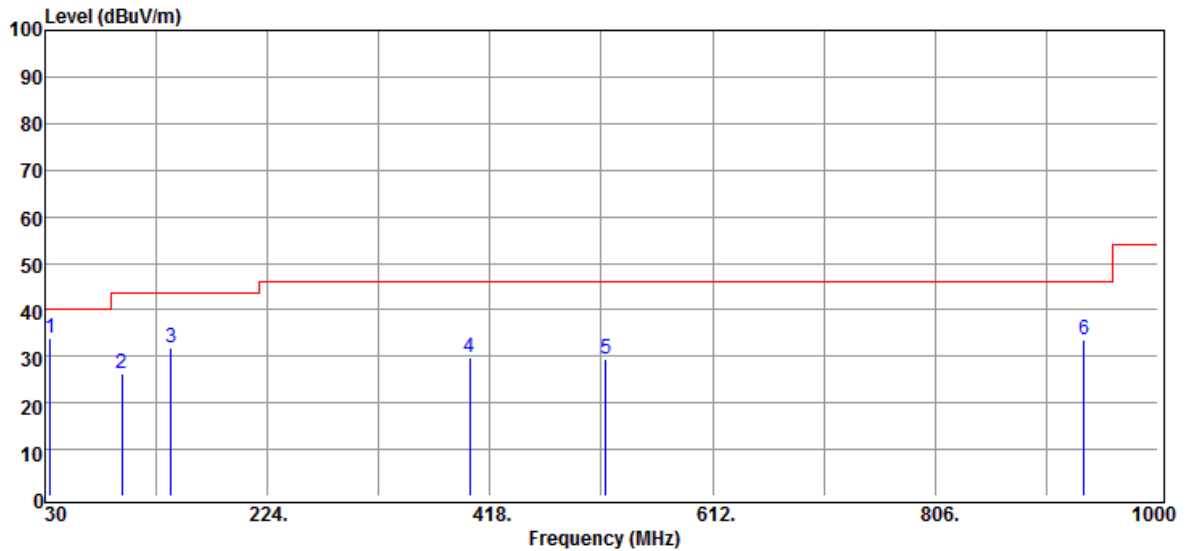
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Operation Mode :802.11ac80 / Band 3
 Test Mode :TX CH MID
 EUT Pol :E1 Plan
 Test Channel :5610 MHz

Test Date :2018-05-29
 Temp./Humi. :25/60
 Antenna Pol. :HORIZONTAL
 Engineer :Ashton



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
34.85	Peak	40.25	-6.23	34.02	40.00	-5.98
96.93	Peak	41.45	-15.26	26.19	43.50	-17.31
139.61	Peak	43.73	-11.86	31.87	43.50	-11.63
400.54	Peak	35.68	-6.01	29.67	46.00	-16.33
518.88	Peak	33.32	-3.79	29.53	46.00	-16.47
935.98	Peak	31.84	1.81	33.65	46.00	-12.35

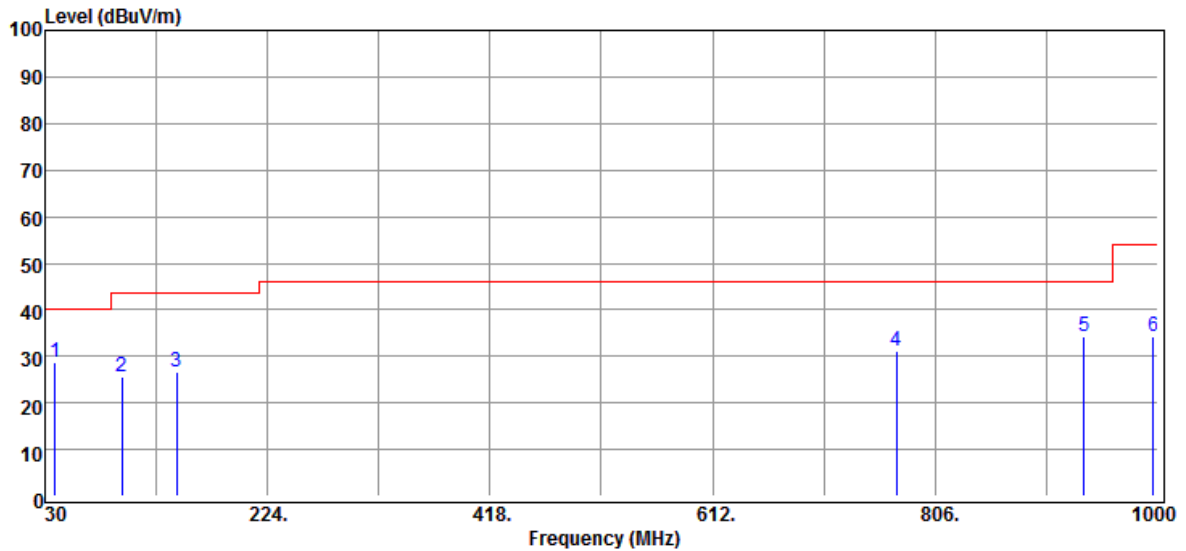
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Operation Mode :802.11ac80 / Band 4
 Test Mode :TX CH LOW
 EUT Pol :E1 Plan
 Test Channel :5775 MHz

Test Date :2018-05-29
 Temp./Humi. :25/60
 Antenna Pol. :VERTICAL
 Engineer :Ashton



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
38.73	Peak	36.72	-8.07	28.65	40.00	-11.35
96.93	Peak	40.78	-15.26	25.52	43.50	-17.98
144.46	Peak	38.73	-12.26	26.47	43.50	-17.03
772.05	Peak	32.09	-0.90	31.19	46.00	-14.81
935.98	Peak	32.42	1.81	34.23	46.00	-11.77
996.12	Peak	31.04	3.20	34.24	54.00	-19.76

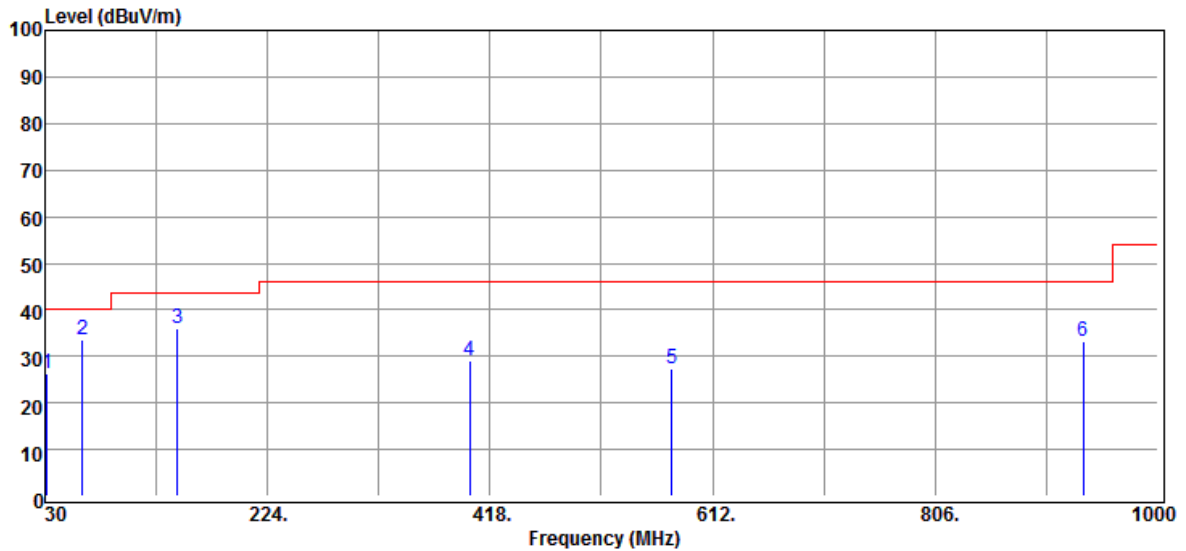
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Operation Mode :802.11ac80 / Band 4
 Test Mode :TX CH LOW
 EUT Pol :E1 Plan
 Test Channel :5775 MHz

Test Date :2018-05-29
 Temp./Humi. :25/60
 Antenna Pol. :HORIZONTAL
 Engineer :Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
31.94	Peak	31.13	-4.71	26.42	40.00	-13.58
62.98	Peak	52.73	-19.17	33.56	40.00	-6.44
145.43	Peak	48.38	-12.34	36.04	43.50	-7.46
400.54	Peak	35.16	-6.01	29.15	46.00	-16.85
576.11	Peak	30.54	-3.18	27.36	46.00	-18.64
935.01	Peak	31.31	1.79	33.10	46.00	-12.90

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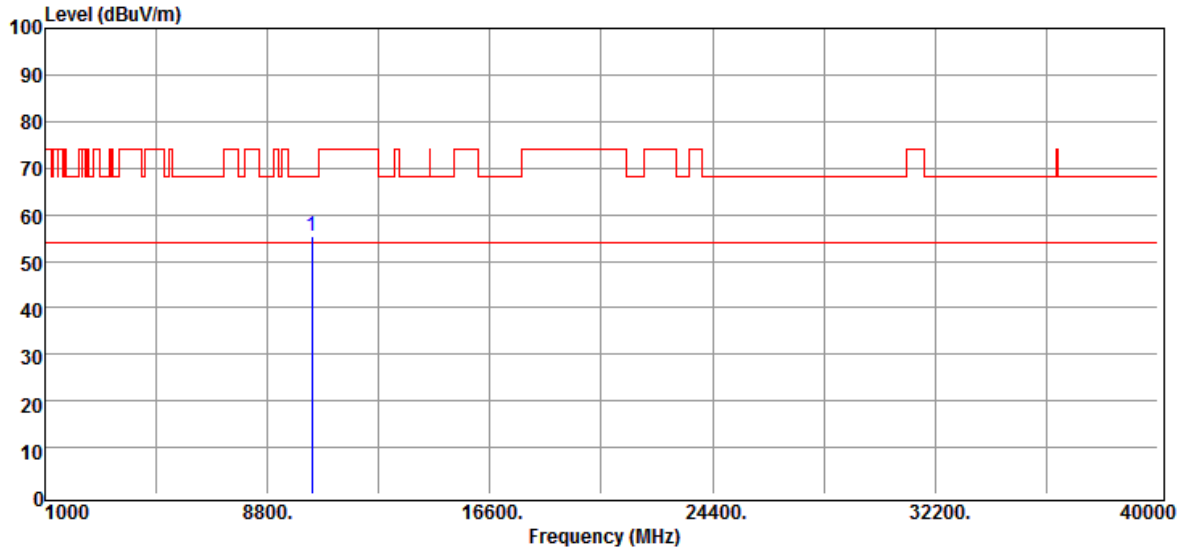
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Above 1GHz Worst-Case Data:

Radiated Spurious Emission Measurement Result 802.11a, 5150~5250 MHz

Operation Mode	:802.11a / Band 1	Test Date	:2018-05-24
Test Mode	:TX CH LOW	Temp./Humi.	:24/64
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5180 MHz	Engineer	:Enzo



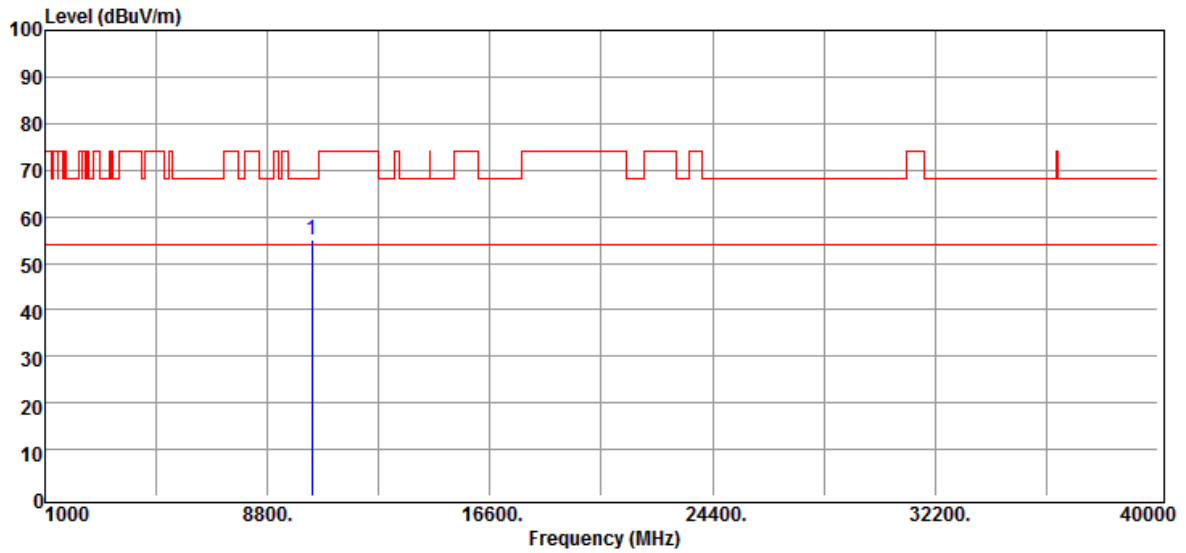
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10360.00	Peak	28.72	26.61	55.33	68.20	-12.87

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Operation Mode	:802.11a / Band 1	Test Date	:2018-05-24
Test Mode	:TX CH LOW	Temp./Humi.	:24/64
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5180 MHz	Engineer	:Enzo



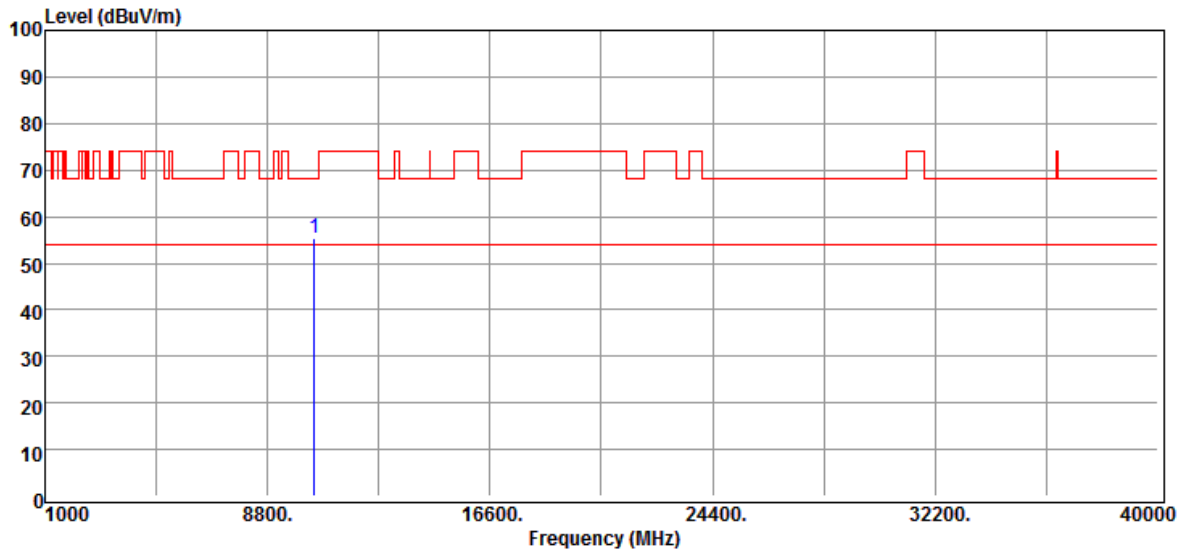
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10360.00	Peak	28.51	26.61	55.12	68.20	-13.08

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Operation Mode	:802.11a / Band 1	Test Date	:2018-05-24
Test Mode	:TX CH MID	Temp./Humi.	:24/64
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5220 MHz	Engineer	:Enzo



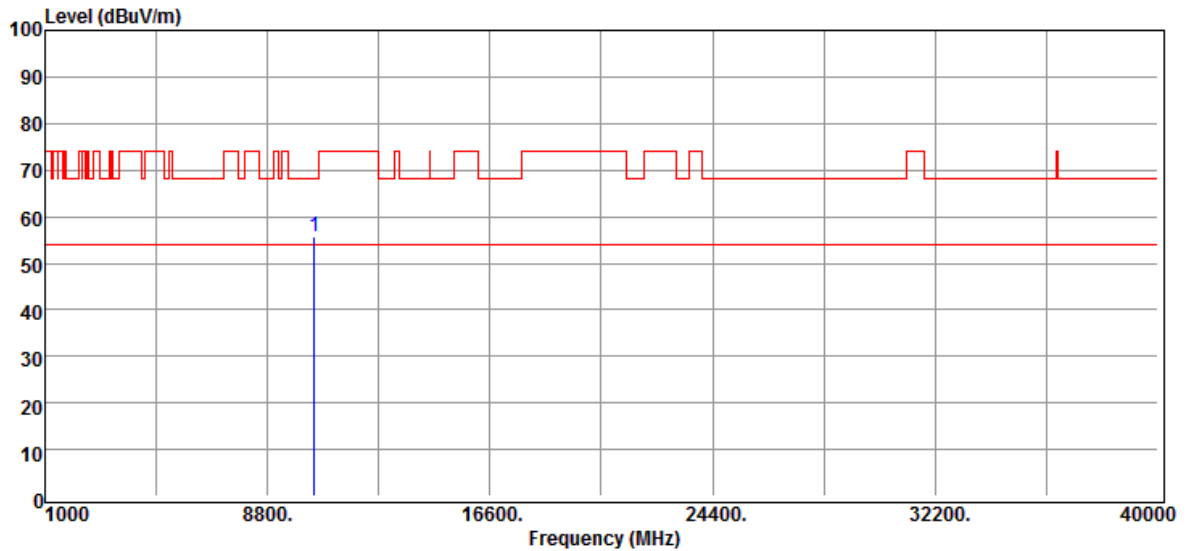
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10440.00	Peak	28.54	26.98	55.52	68.20	-12.68

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Operation Mode	:802.11a / Band 1	Test Date	:2018-05-24
Test Mode	:TX CH MID	Temp./Humi.	:24/64
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5220 MHz	Engineer	:Enzo



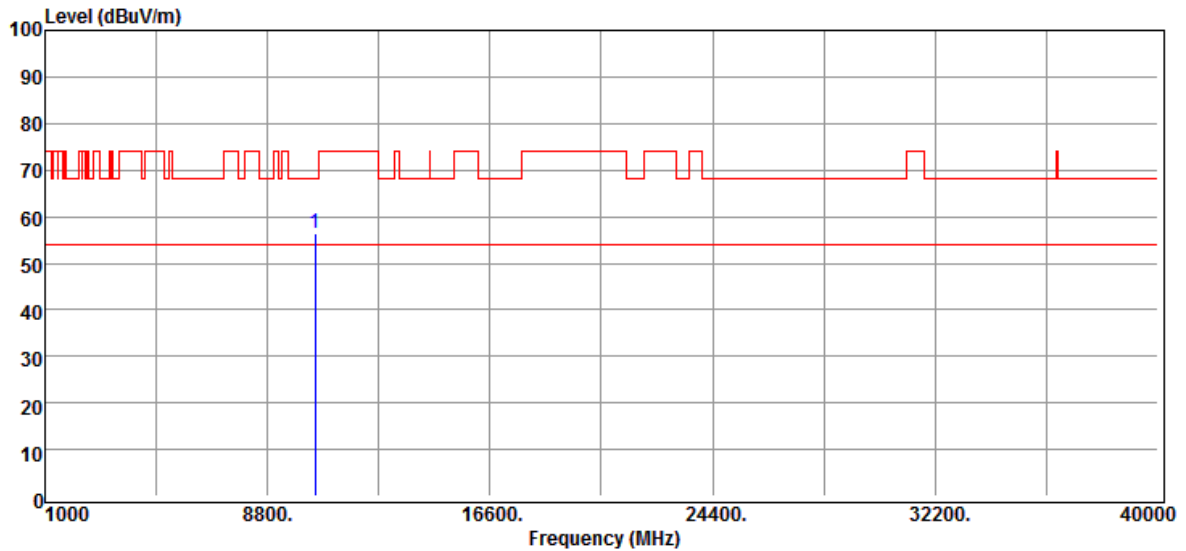
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10440.00	Peak	28.80	26.98	55.78	68.20	-12.42

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Operation Mode	:802.11a / Band 1	Test Date	:2018-05-24
Test Mode	:TX CH HIGH	Temp./Humi.	:24/64
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5240 MHz	Engineer	:Enzo



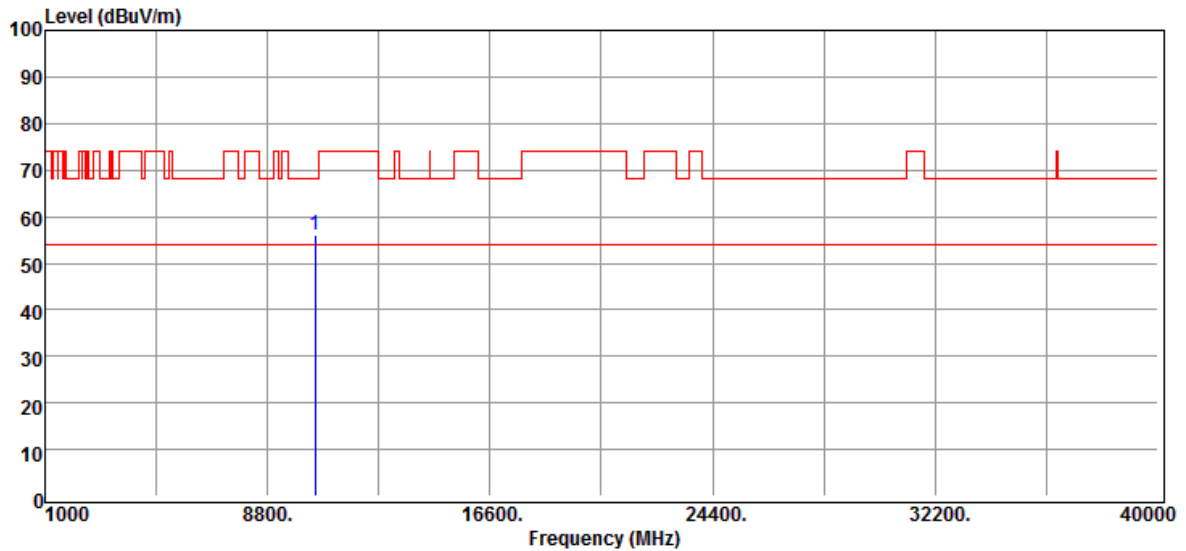
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10480.00	Peak	29.15	27.16	56.31	68.20	-11.89

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Operation Mode	:802.11a / Band 1	Test Date	:2018-05-24
Test Mode	:TX CH HIGH	Temp./Humi.	:24/64
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5240 MHz	Engineer	:Enzo



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
10480.00	Peak	29.04	27.16	56.20	68.20	-12.00

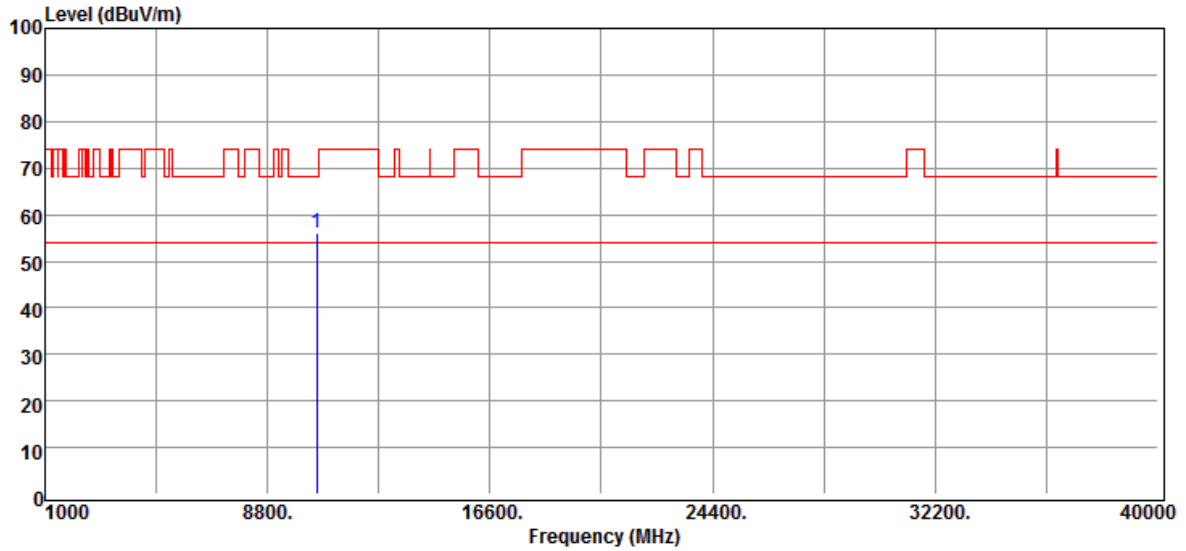
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Radiated Spurious Emission Measurement Result 802.11a, 5250MHz-5350MHz

Operation Mode	:802.11a / Band 2	Test Date	:2018-05-24
Test Mode	:TX CH LOW	Temp./Humi.	:24/64
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5260 MHz	Engineer	:Enzo



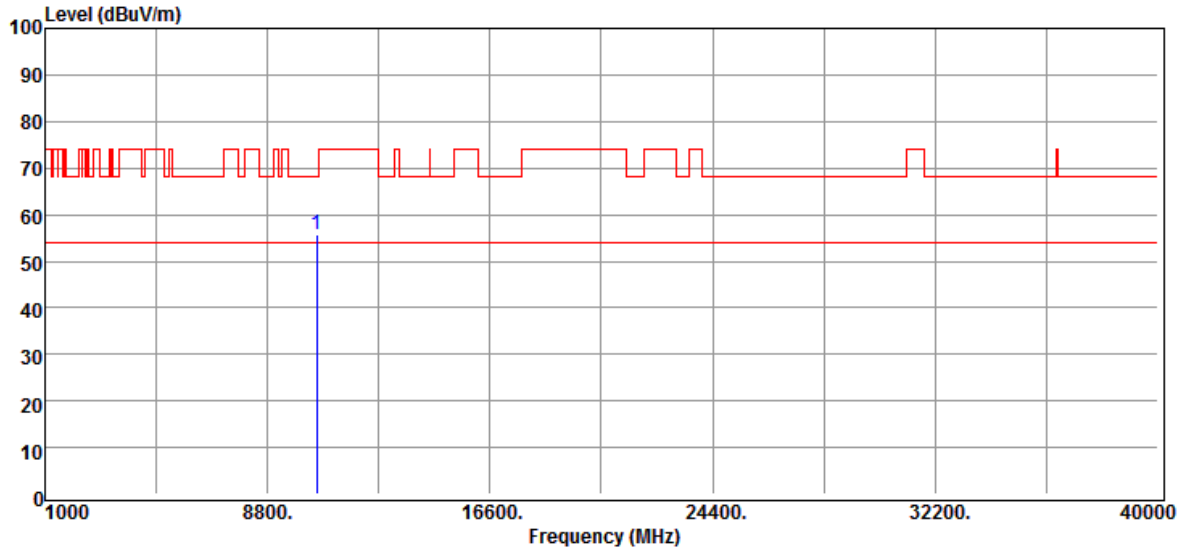
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10520.00	Peak	28.92	27.23	56.15	68.20	-12.05

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Operation Mode	:802.11a / Band 2	Test Date	:2018-05-24
Test Mode	:TX CH LOW	Temp./Humi.	:24/64
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5260 MHz	Engineer	:Enzo



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
10520.00	Peak	28.39	27.23	55.62	68.20	-12.58

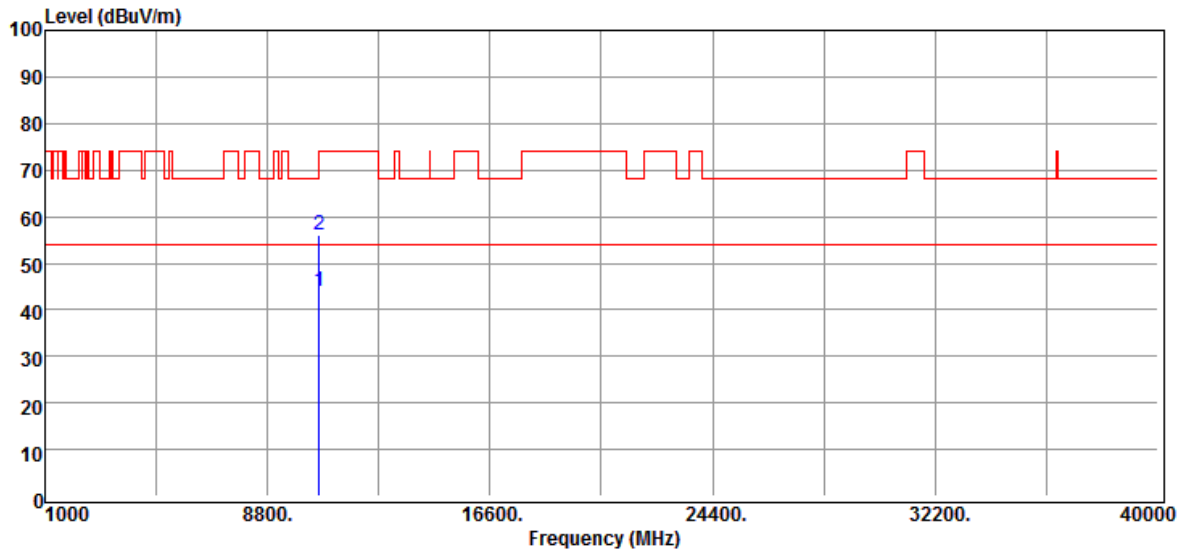
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Operation Mode :802.11a / Band 2
 Test Mode :TX CH MID
 EUT Pol :E1 Plan
 Test Channel :5300 MHz

Test Date :2018-05-24
 Temp./Humi. :24/64
 Antenna Pol. :VERTICAL
 Engineer :Enzo



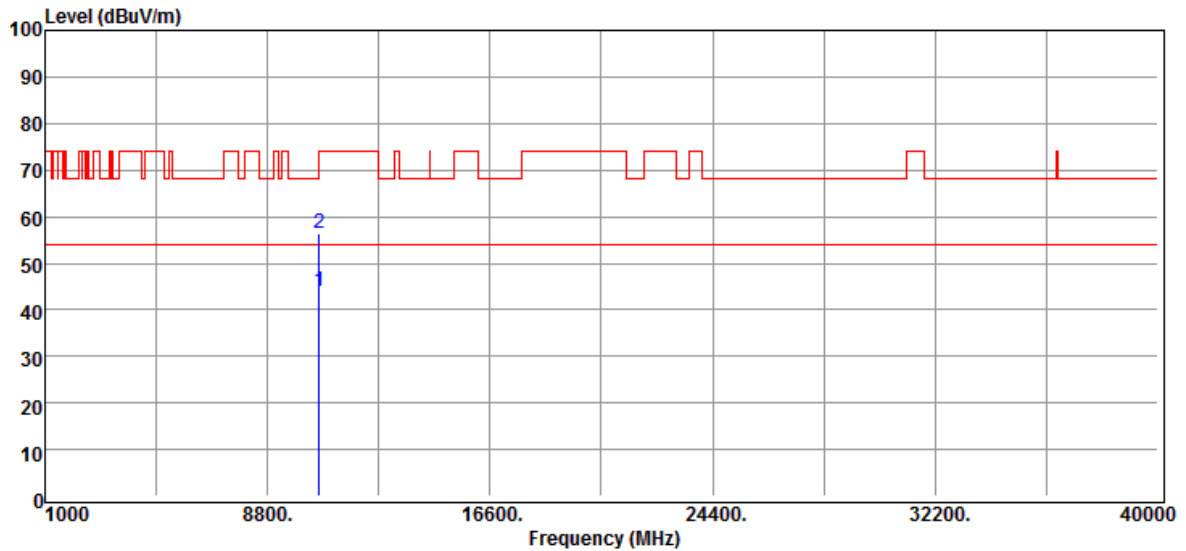
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10600.00	Average	16.81	27.21	44.02	54.00	-9.98
10600.00	Peak	28.70	27.21	55.91	68.20	-12.29

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Operation Mode	:802.11a / Band 2	Test Date	:2018-05-24
Test Mode	:TX CH MID	Temp./Humi.	:24/64
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5300 MHz	Engineer	:Enzo



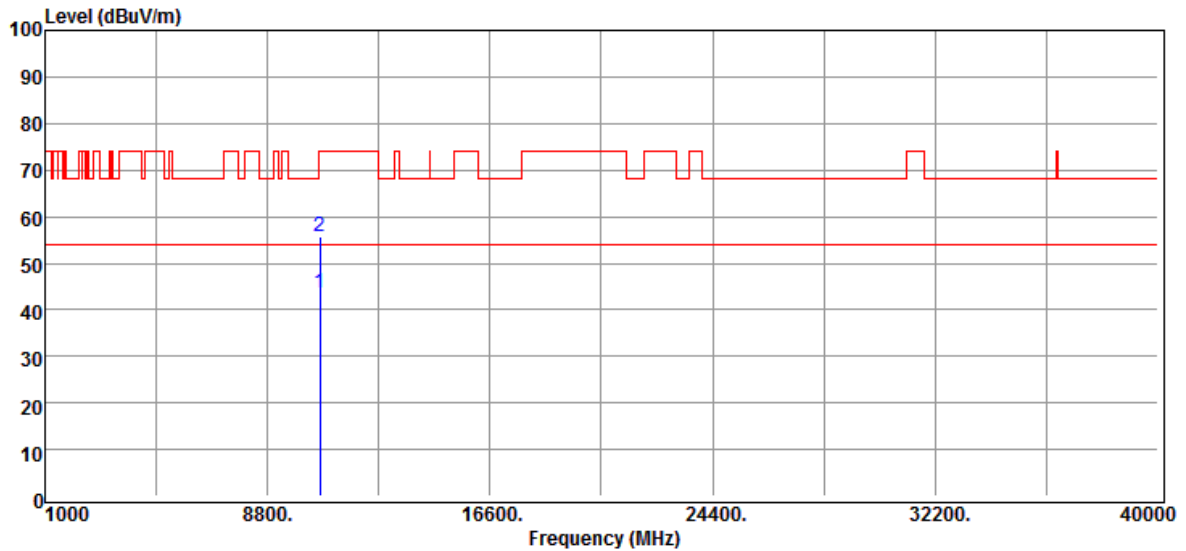
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10600.00	Average	16.76	27.21	43.97	54.00	-10.03
10600.00	Peak	29.26	27.21	56.47	68.20	-11.73

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Operation Mode	:802.11a / Band 2	Test Date	:2018-05-24
Test Mode	:TX CH HIGH	Temp./Humi.	:24/64
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5320 MHz	Engineer	:Enzo



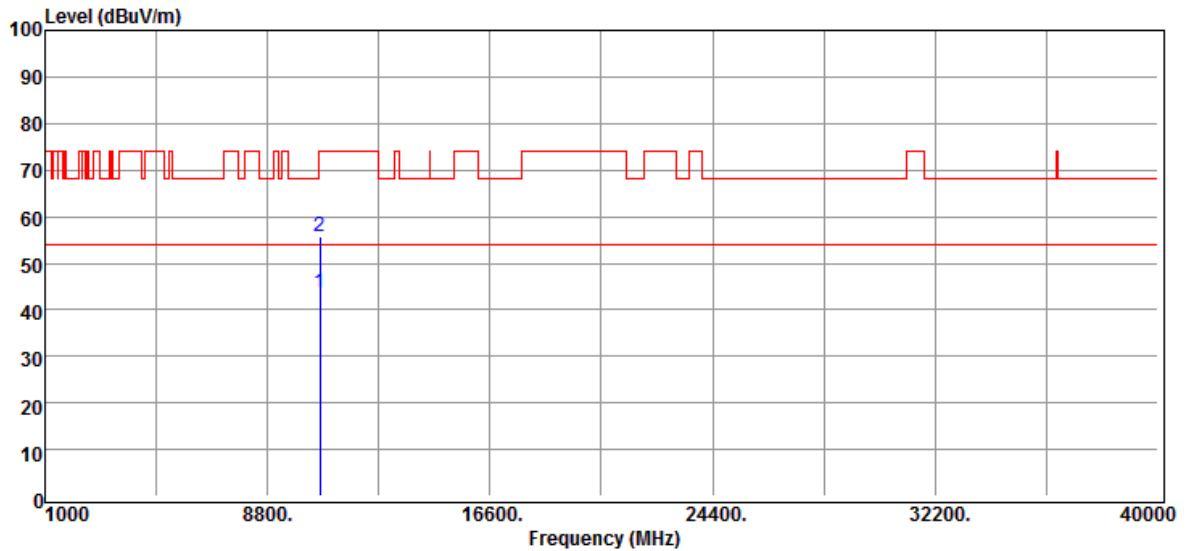
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10640.00	Average	16.55	27.20	43.75	54.00	-10.25
10640.00	Peak	28.54	27.20	55.74	74.00	-18.26

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Operation Mode	:802.11a / Band 2	Test Date	:2018-05-24
Test Mode	:TX CH HIGH	Temp./Humi.	:24/64
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5320 MHz	Engineer	:Enzo



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
10640.00	Average	16.42	27.20	43.62	54.00	-10.38
10640.00	Peak	28.44	27.20	55.64	74.00	-18.36

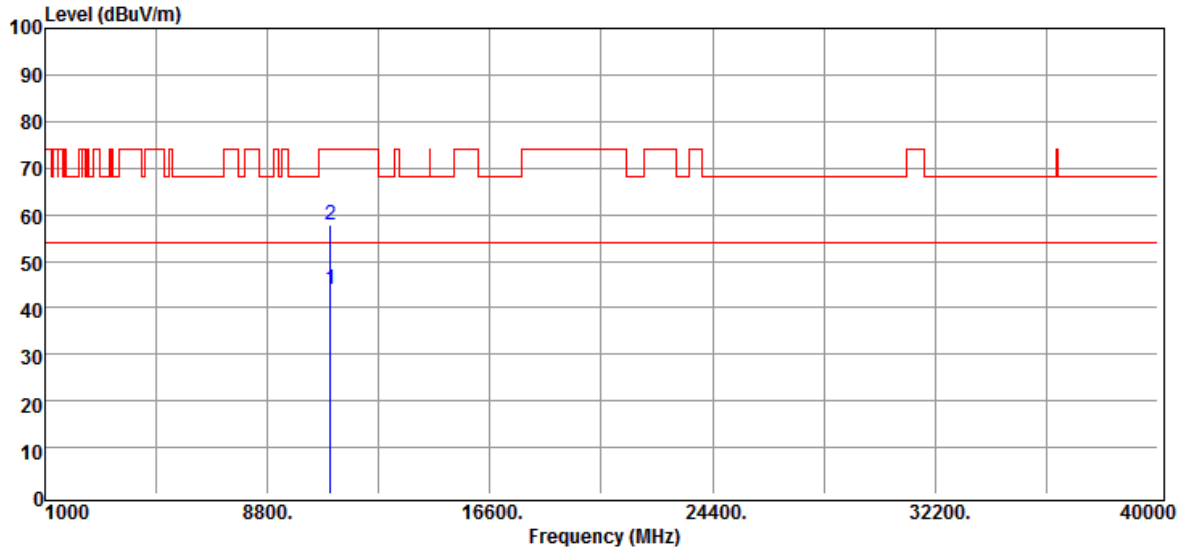
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Radiated Spurious Emission Measurement Result 802.11a, 5470~5725 MHz

Operation Mode	:802.11a / Band 3	Test Date	:2018-05-24
Test Mode	:TX CH LOW	Temp./Humi.	:24/64
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5500 MHz	Engineer	:Enzo



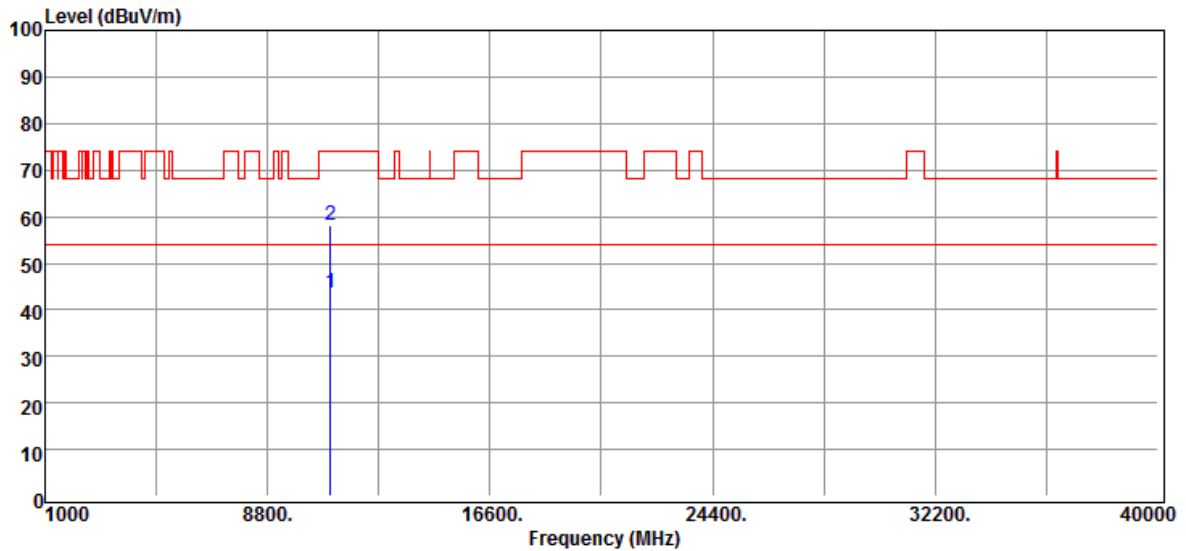
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11000.00	Average	16.75	27.09	43.84	54.00	-10.16
11000.00	Peak	30.64	27.09	57.73	74.00	-16.27

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Operation Mode	:802.11a / Band 3	Test Date	:2018-05-24
Test Mode	:TX CH LOW	Temp./Humi.	:24/64
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5500 MHz	Engineer	:Enzo



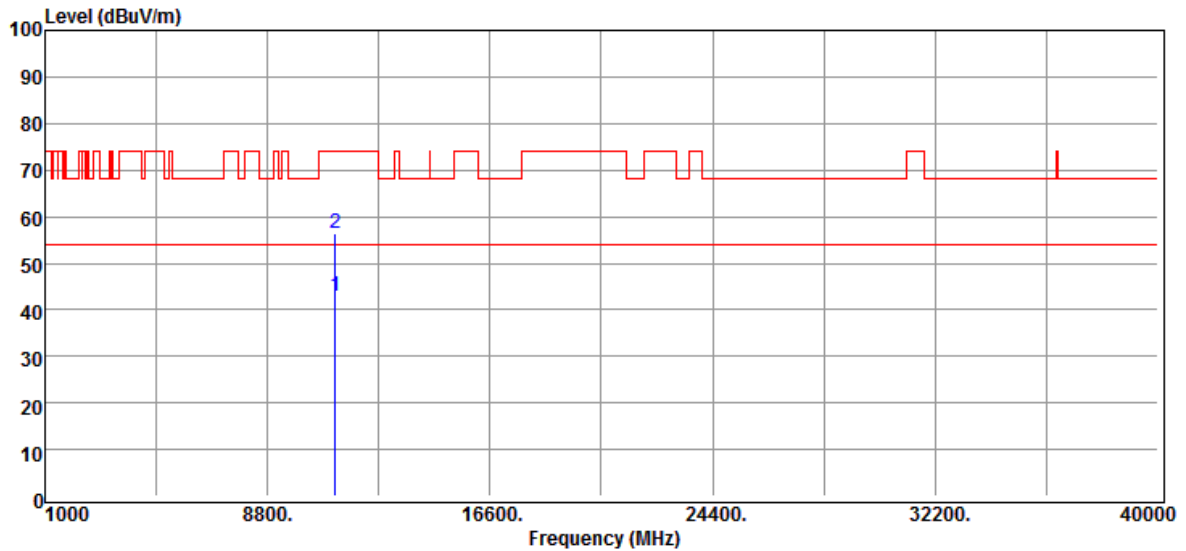
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11000.00	Average	16.58	27.09	43.67	54.00	-10.33
11000.00	Peak	31.07	27.09	58.16	74.00	-15.84

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Operation Mode	:802.11a / Band 3	Test Date	:2018-05-24
Test Mode	:TX CH MID	Temp./Humi.	:24/64
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5580 MHz	Engineer	:Enzo



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
11160.00	Average	16.39	26.67	43.06	54.00	-10.94
11160.00	Peak	29.64	26.67	56.31	74.00	-17.69

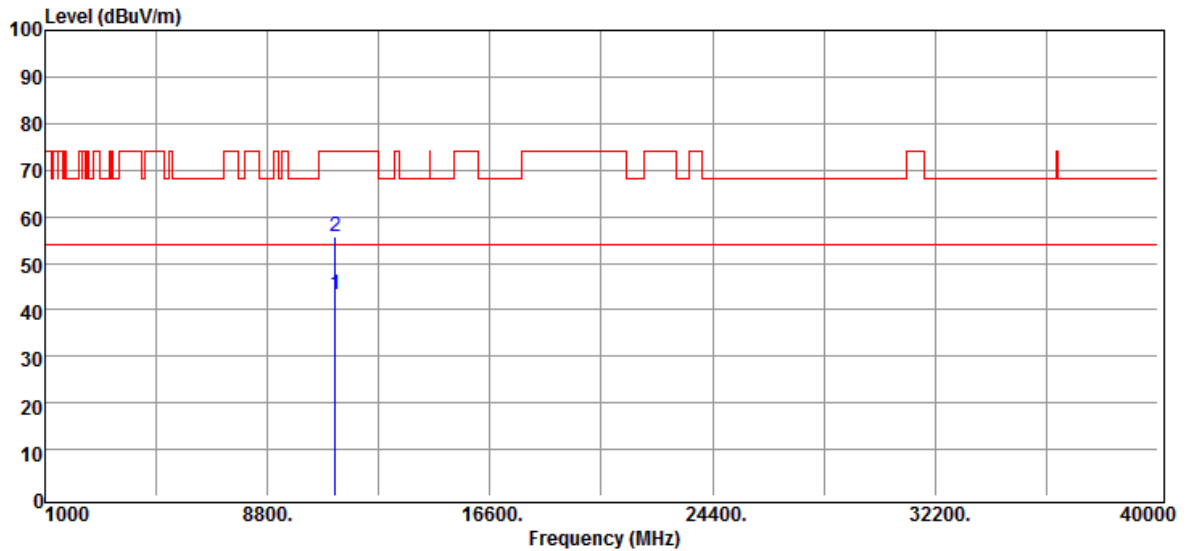
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Operation Mode :802.11a / Band 3
 Test Mode :TX CH MID
 EUT Pol :E1 Plan
 Test Channel :5580 MHz

Test Date :2018-05-24
 Temp./Humi. :24/64
 Antenna Pol. :HORIZONTAL
 Engineer :Enzo



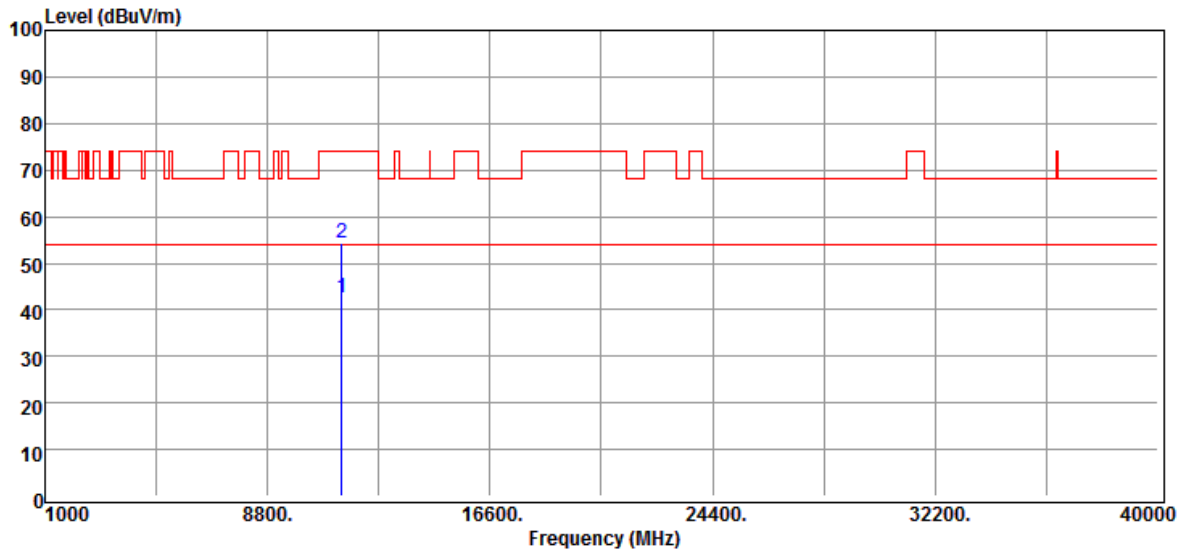
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11160.00	Average	16.65	26.67	43.32	54.00	-10.68
11160.00	Peak	28.93	26.67	55.60	74.00	-18.40

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Operation Mode	:802.11a / Band 3	Test Date	:2018-05-24
Test Mode	:TX CH HIGH	Temp./Humi.	:24/64
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5700 MHz	Engineer	:Enzo



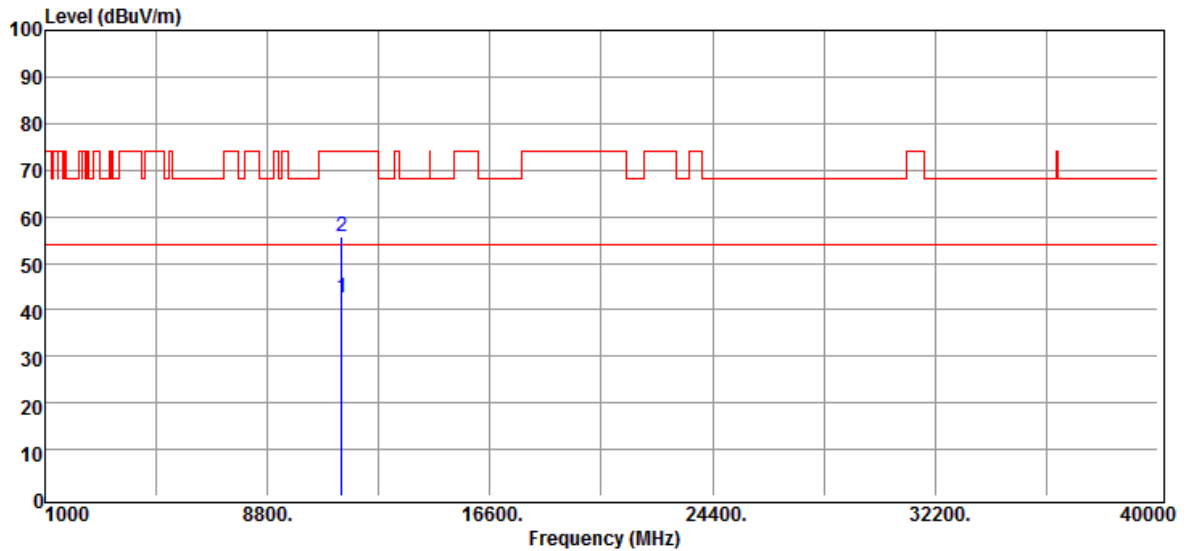
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11400.00	Average	16.53	26.07	42.60	54.00	-11.40
11400.00	Peak	28.35	26.07	54.42	74.00	-19.58

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Operation Mode	:802.11a / Band 3	Test Date	:2018-05-24
Test Mode	:TX CH HIGH	Temp./Humi.	:24/64
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5700 MHz	Engineer	:Enzo



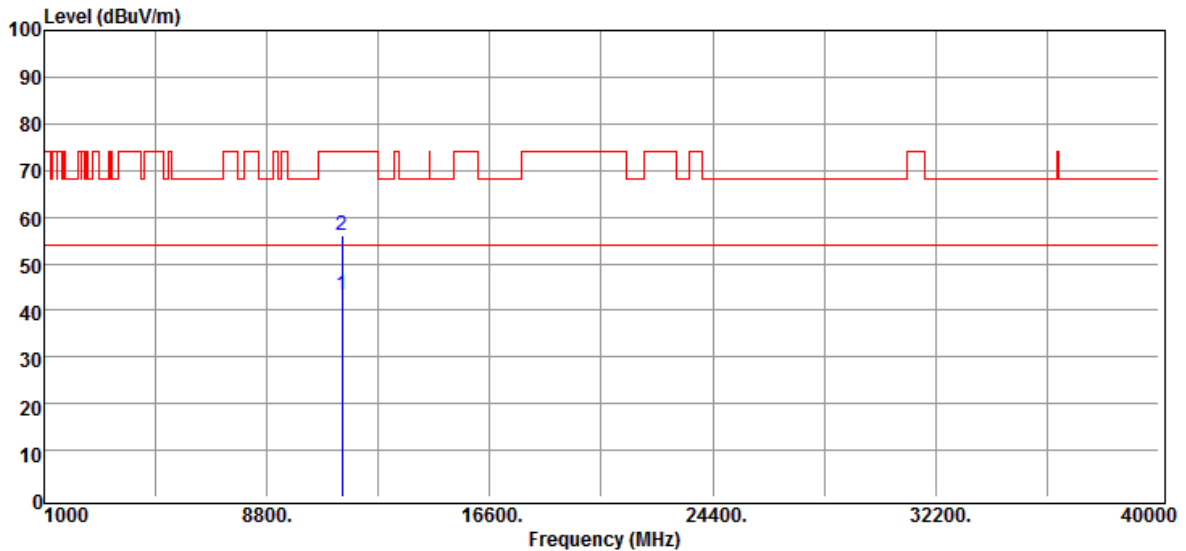
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11400.00	Average	16.60	26.07	42.67	54.00	-11.33
11400.00	Peak	29.56	26.07	55.63	74.00	-18.37

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Operation Mode	:802.11a / Band 3-4	Test Date	:2018-06-20
Test Mode	:TX CH MID	Temp./Humi.	:24/64
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5720 MHz	Engineer	:Enzo



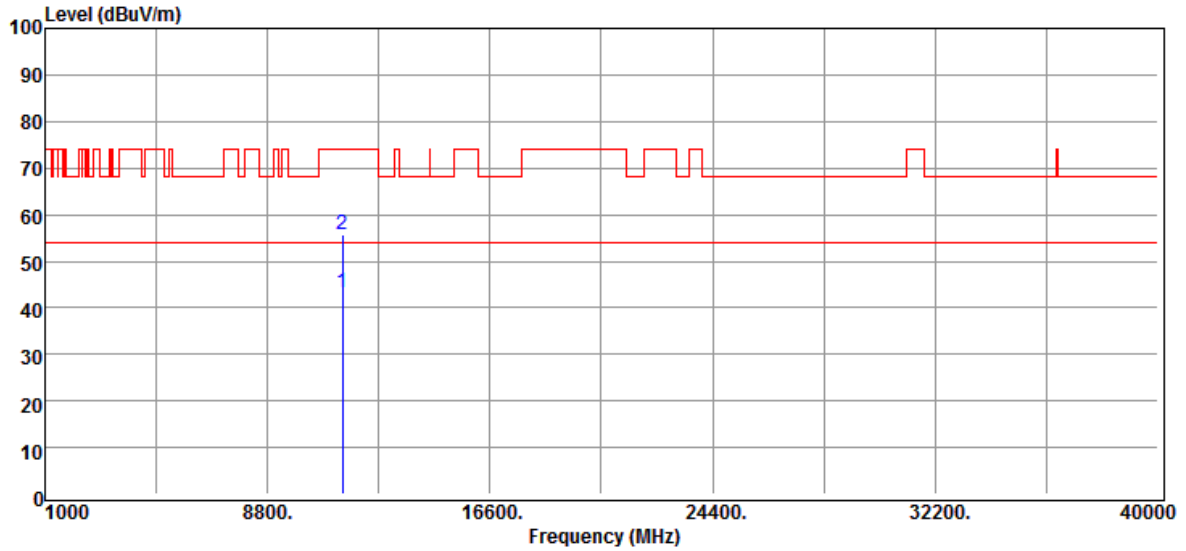
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11440.00	Average	17.31	25.96	43.27	54.00	-10.73
11440.00	Peak	30.12	25.96	56.08	74.00	-17.92

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Operation Mode	:802.11a / Band 3-4	Test Date	:2018-06-20
Test Mode	:TX CH MID	Temp./Humi.	:24/64
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5720 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11440.00	Average	17.16	25.96	43.12	54.00	-10.88
11440.00	Peak	29.87	25.96	55.83	74.00	-18.17

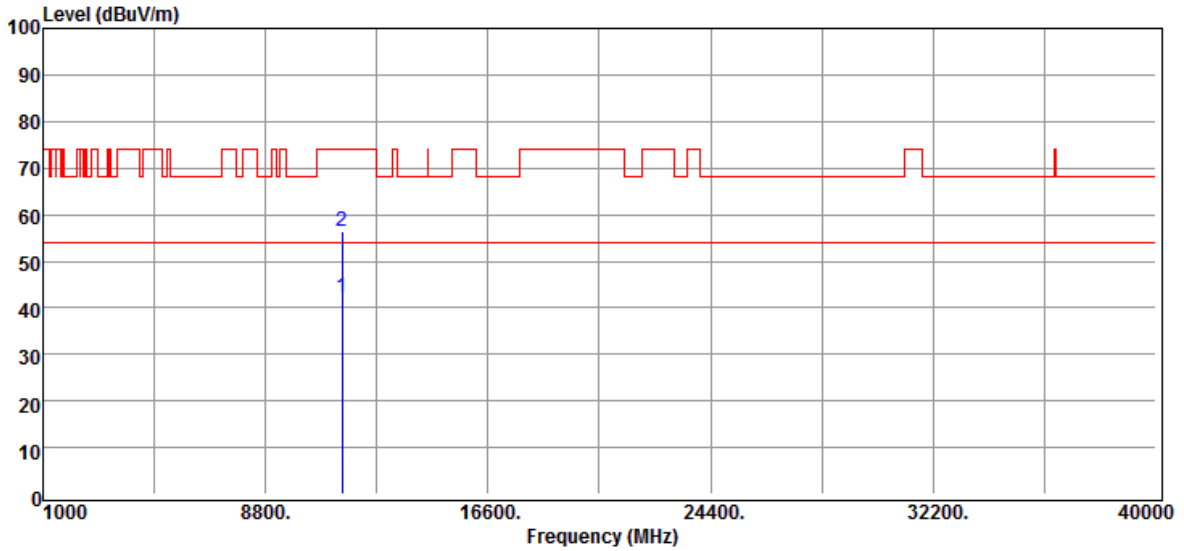
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Radiated Spurious Emission Measurement Result 802.11a, 5725~5850 MHz

Operation Mode	:802.11a / Band 4	Test Date	:2018-05-24
Test Mode	:TX CH LOW	Temp./Humi.	:24/64
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5745 MHz	Engineer	:Enzo



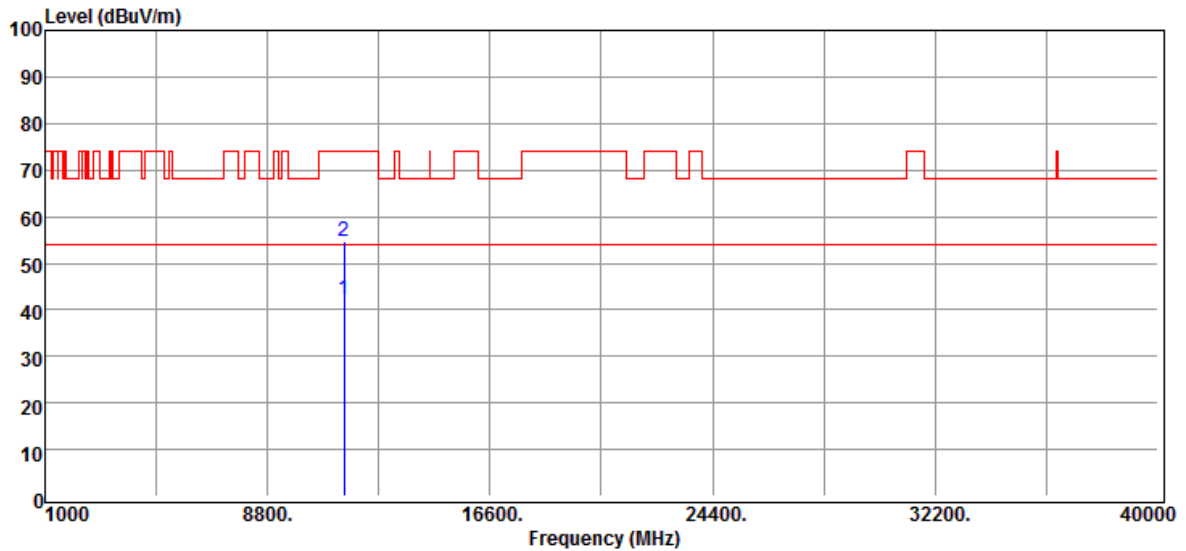
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11490.00	Average	16.53	25.83	42.36	54.00	-11.64
11490.00	Peak	30.53	25.83	56.36	74.00	-17.64

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Operation Mode	:802.11a / Band 4	Test Date	:2018-05-24
Test Mode	:TX CH LOW	Temp./Humi.	:24/64
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5745 MHz	Engineer	:Enzo



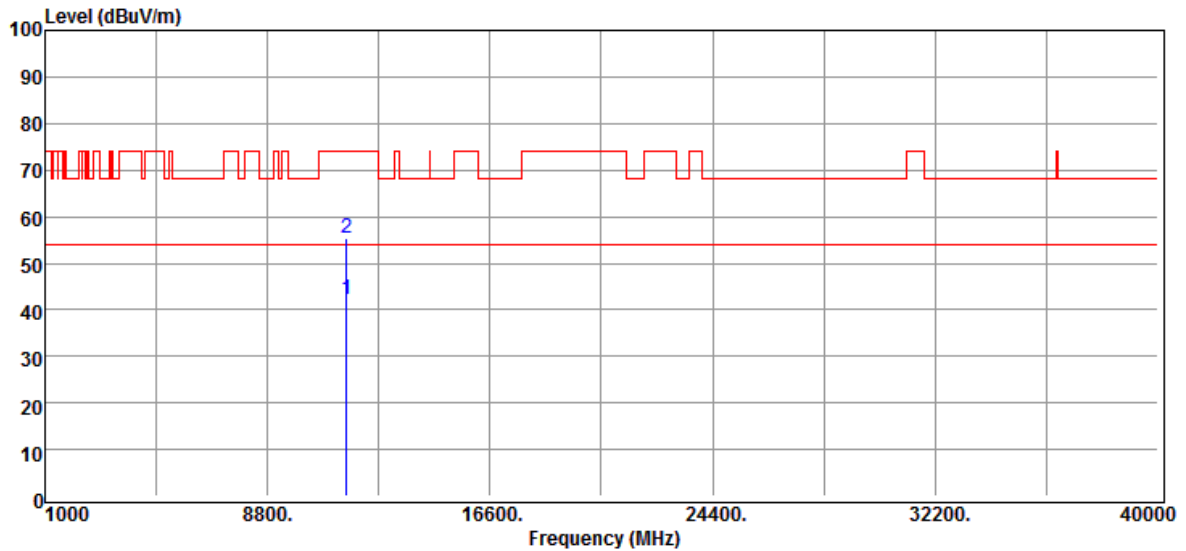
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11490.00	Average	16.44	25.83	42.27	54.00	-11.73
11490.00	Peak	28.89	25.83	54.72	74.00	-19.28

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Operation Mode	:802.11a / Band 4	Test Date	:2018-05-24
Test Mode	:TX CH MID	Temp./Humi.	:24/64
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5785 MHz	Engineer	:Enzo



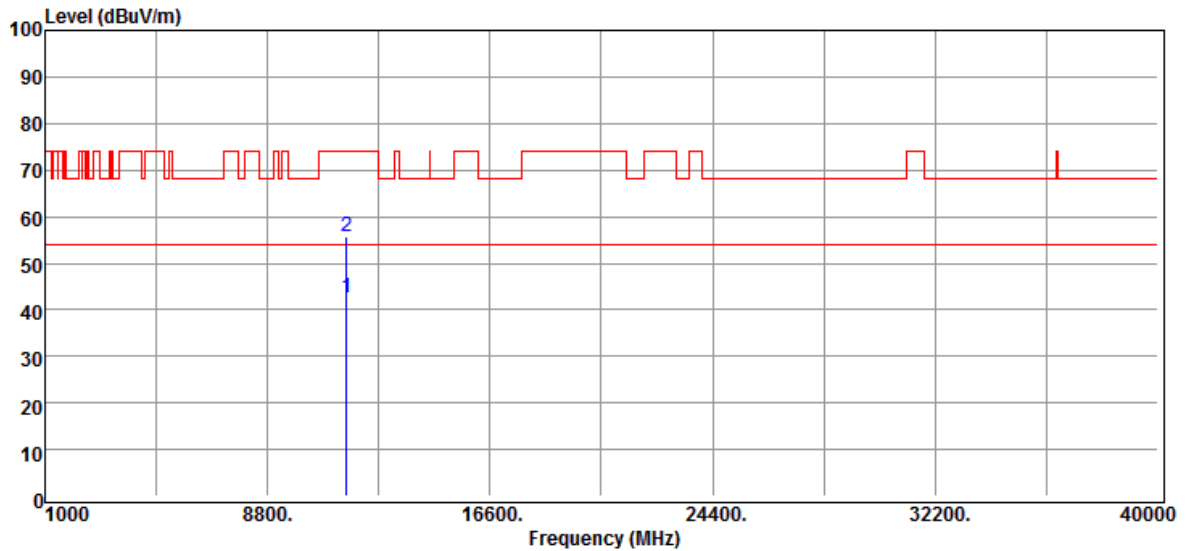
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11570.00	Average	16.38	25.87	42.25	54.00	-11.75
11570.00	Peak	29.33	25.87	55.20	74.00	-18.80

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Operation Mode	:802.11a / Band 4	Test Date	:2018-05-24
Test Mode	:TX CH MID	Temp./Humi.	:24/64
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5785 MHz	Engineer	:Enzo



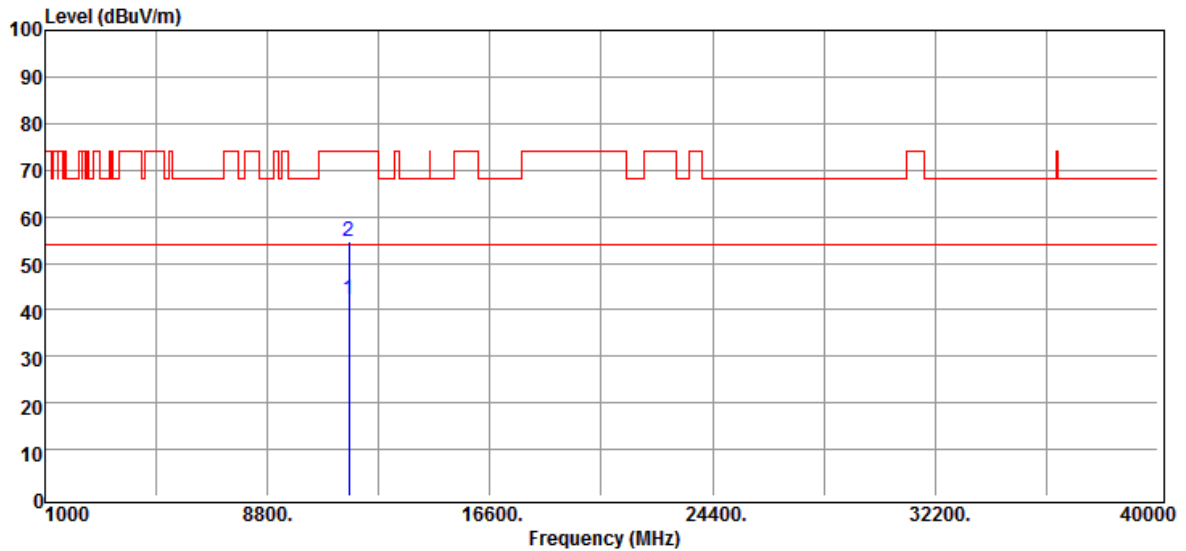
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11570.00	Average	16.57	25.87	42.44	54.00	-11.56
11570.00	Peak	29.70	25.87	55.57	74.00	-18.43

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Operation Mode	:802.11a / Band 4	Test Date	:2018-05-24
Test Mode	:TX CH HIGH	Temp./Humi.	:24/64
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5825 MHz	Engineer	:Enzo



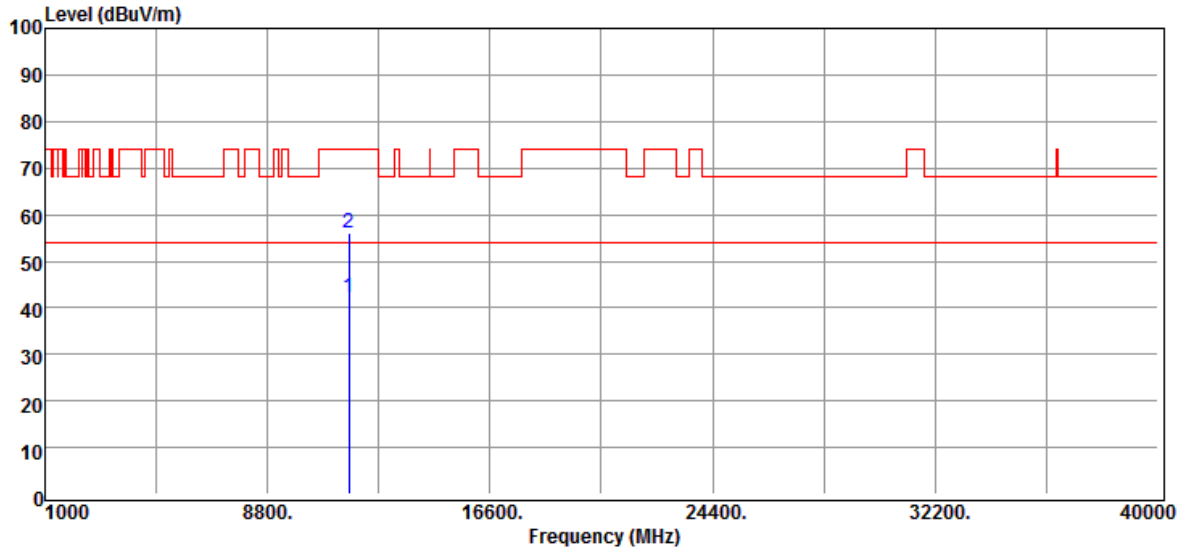
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11650.00	Average	16.44	25.94	42.38	54.00	-11.62
11650.00	Peak	28.68	25.94	54.62	74.00	-19.38

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Operation Mode	:802.11a / Band 4	Test Date	:2018-05-24
Test Mode	:TX CH HIGH	Temp./Humi.	:24/64
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5825 MHz	Engineer	:Enzo



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
11650.00	Average	16.38	25.94	42.32	54.00	-11.68
11650.00	Peak	30.26	25.94	56.20	74.00	-17.80

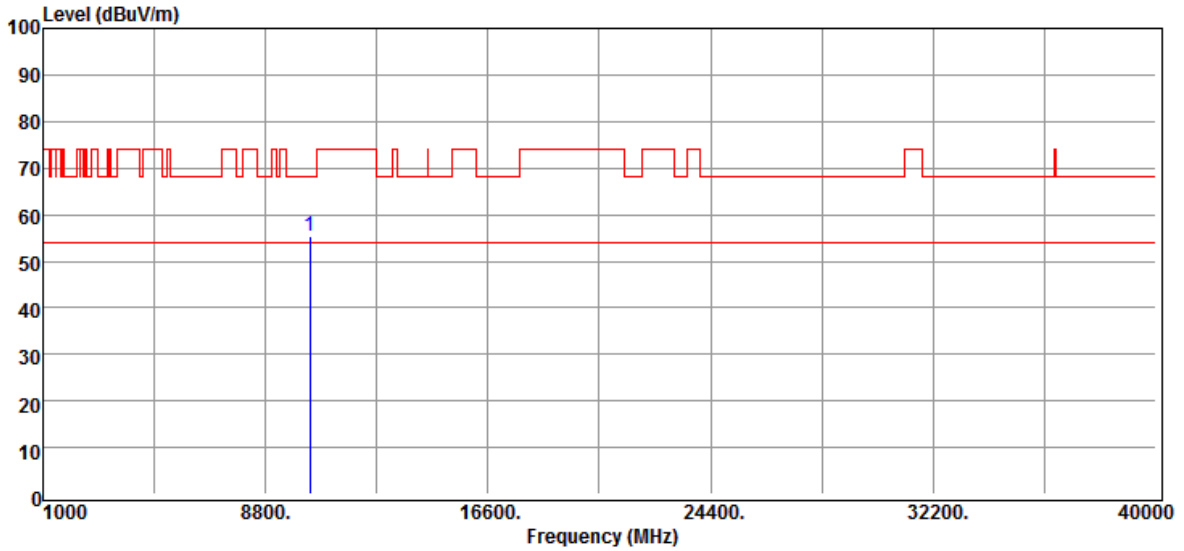
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5150~5250 MHz

Operation Mode	:802.11n20 / Band 1	Test Date	:2018-05-24
Test Mode	:TX CH LOW	Temp./Humi.	:24/64
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5180 MHz	Engineer	:Enzo



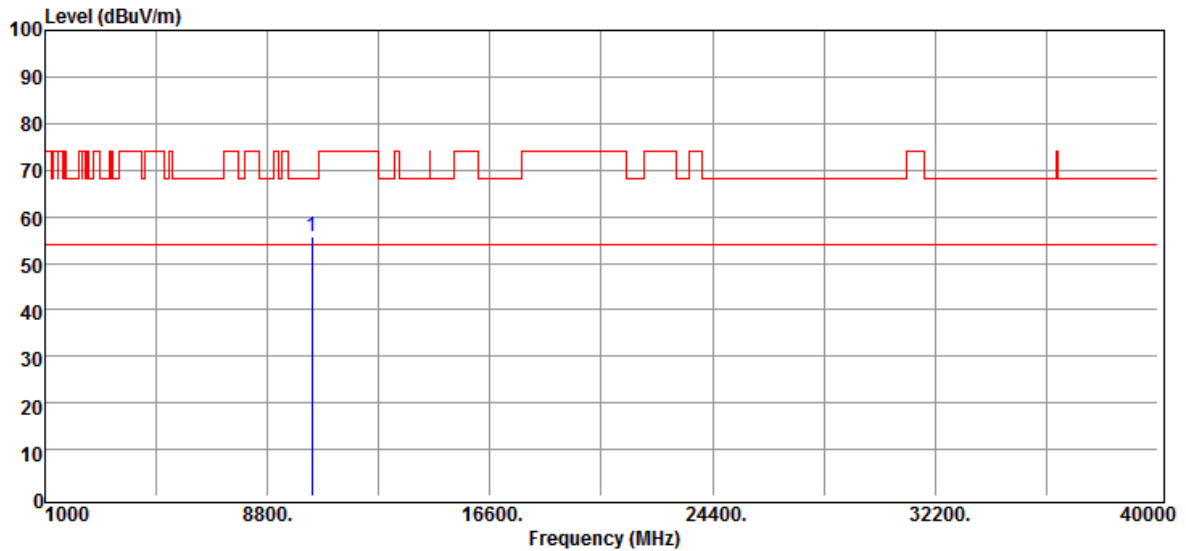
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10360.00	Peak	28.80	26.61	55.41	68.20	-12.79

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Operation Mode	:802.11n20 / Band 1	Test Date	:2018-05-24
Test Mode	:TX CH LOW	Temp./Humi.	:24/64
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5180 MHz	Engineer	:Enzo



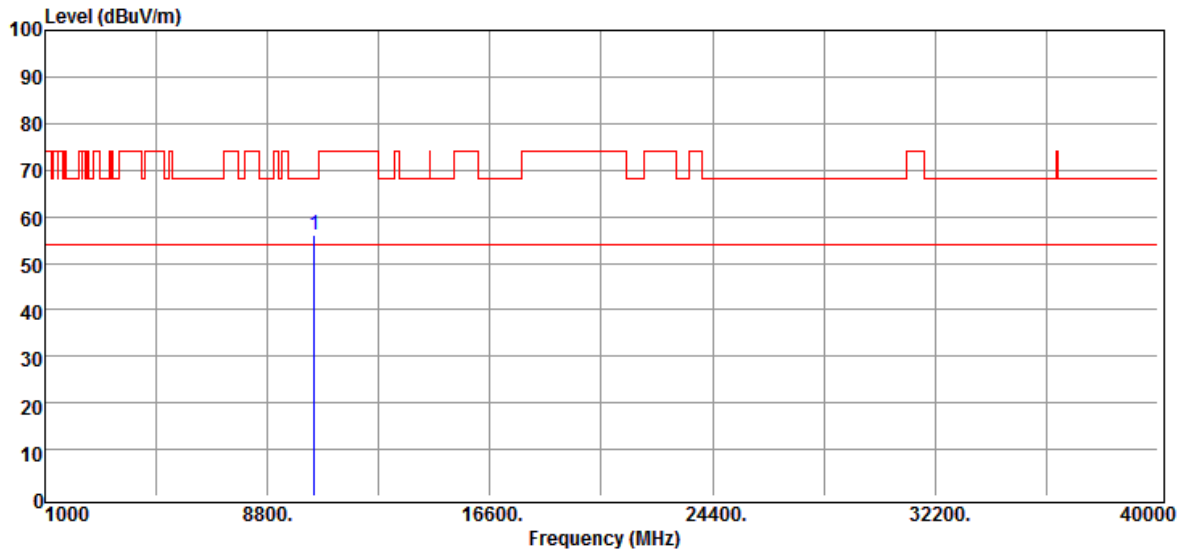
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10360.00	Peak	29.00	26.61	55.61	68.20	-12.59

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Operation Mode	:802.11n20 / Band 1	Test Date	:2018-05-24
Test Mode	:TX CH MID	Temp./Humi.	:24/64
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5220 MHz	Engineer	:Enzo



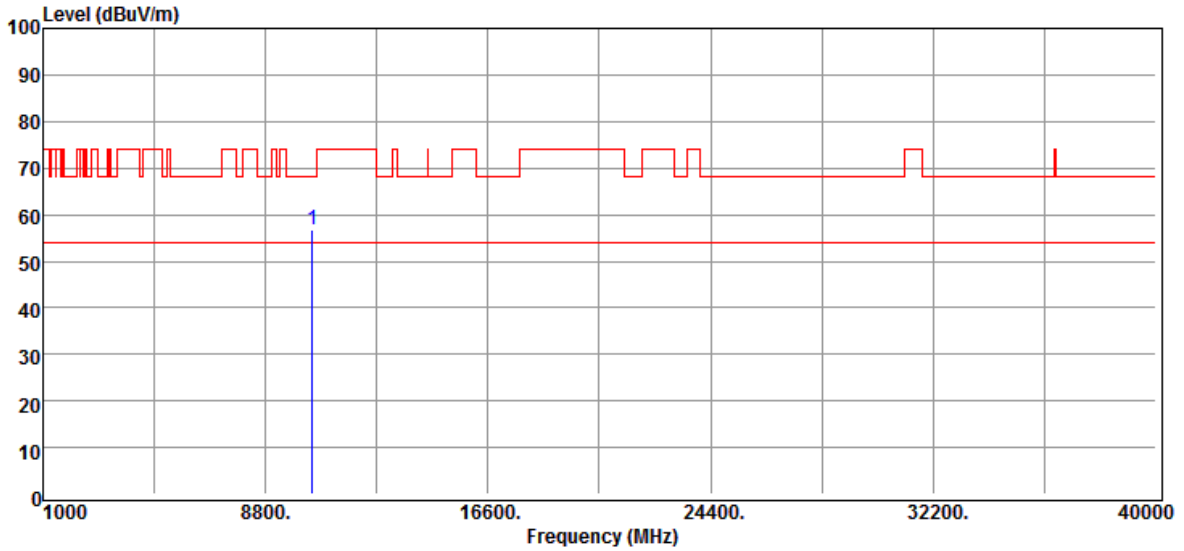
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10440.00	Peak	29.11	26.98	56.09	68.20	-12.11

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Operation Mode	:802.11n20 / Band 1	Test Date	:2018-05-24
Test Mode	:TX CH MID	Temp./Humi.	:24/64
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5220 MHz	Engineer	:Enzo



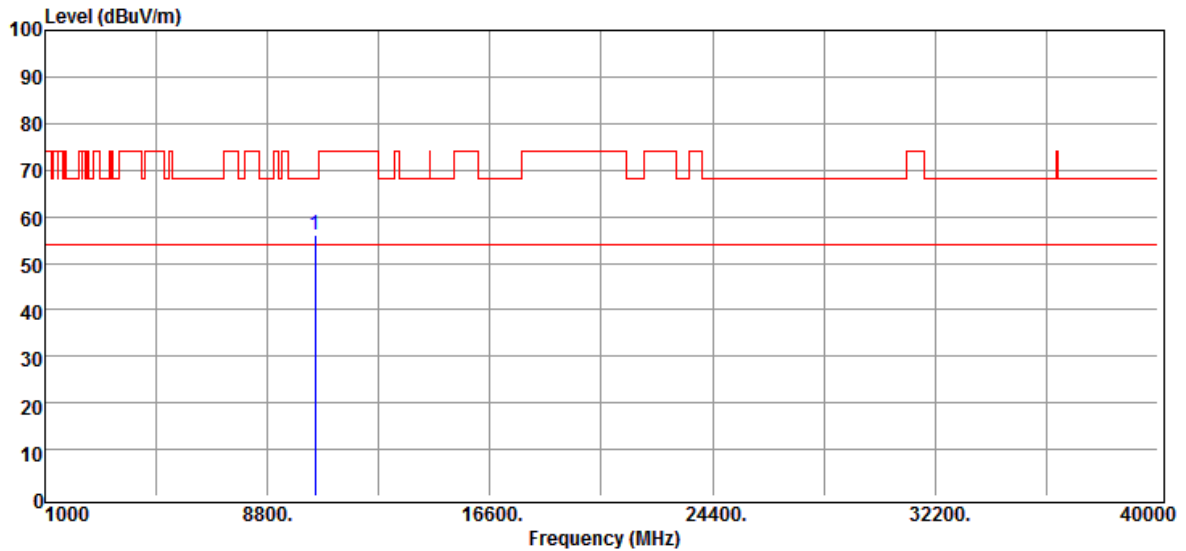
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10440.00	Peak	29.69	26.98	56.67	68.20	-11.53

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Operation Mode	:802.11n20 / Band 1	Test Date	:2018-05-24
Test Mode	:TX CH HIGH	Temp./Humi.	:24/64
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5240 MHz	Engineer	:Enzo



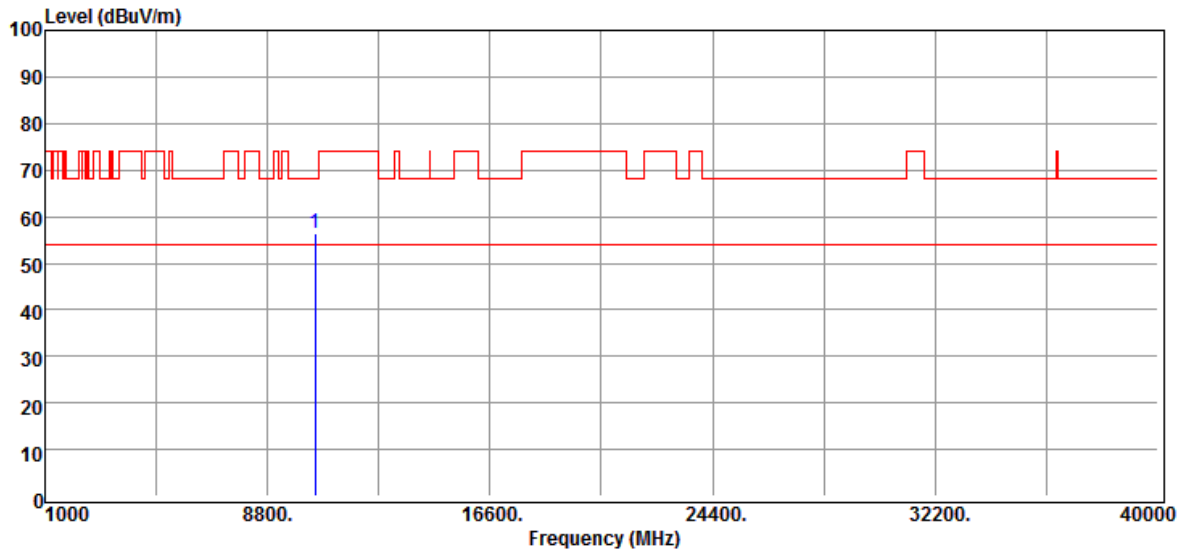
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10480.00	Peak	28.95	27.16	56.11	68.20	-12.09

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Operation Mode	:802.11n20 / Band 1	Test Date	:2018-05-24
Test Mode	:TX CH HIGH	Temp./Humi.	:24/64
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5240 MHz	Engineer	:Enzo



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
10480.00	Peak	29.15	27.16	56.31	68.20	-11.89

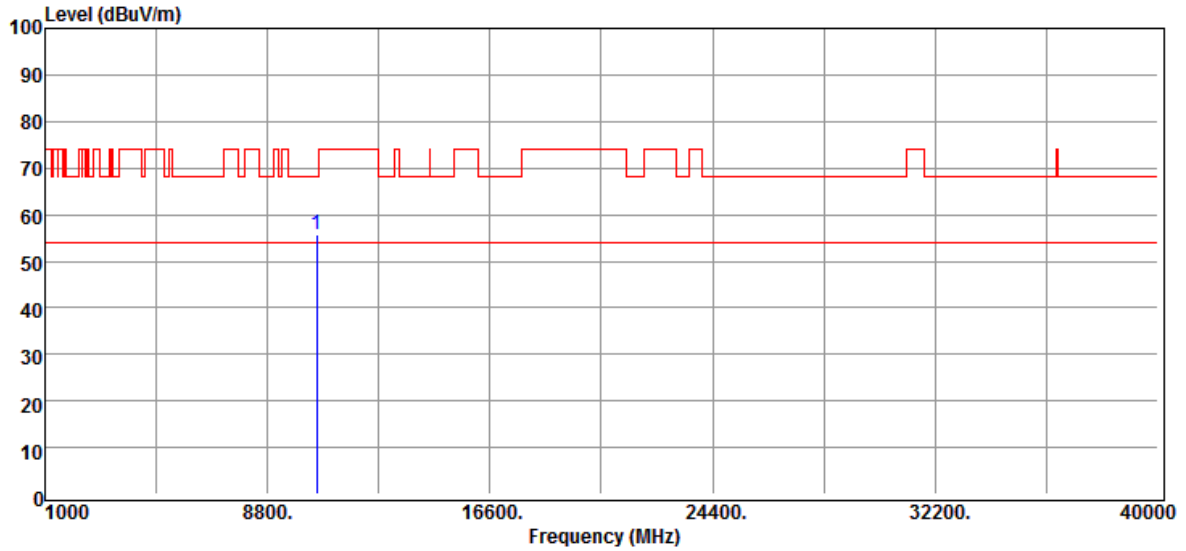
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5250~5350 MHz

Operation Mode	:802.11n20 / Band 2	Test Date	:2018-05-24
Test Mode	:TX CH LOW	Temp./Humi.	:24/64
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5260 MHz	Engineer	:Enzo



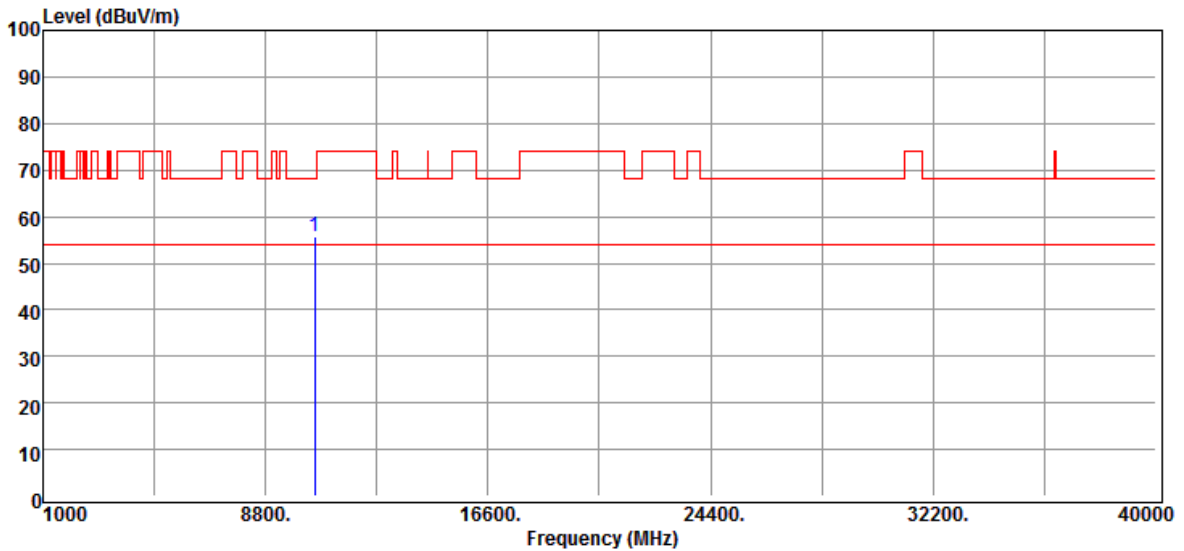
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10520.00	Peak	28.52	27.23	55.75	68.20	-12.45

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Operation Mode	:802.11n20 / Band 2	Test Date	:2018-05-24
Test Mode	:TX CH LOW	Temp./Humi.	:24/64
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5260 MHz	Engineer	:Enzo



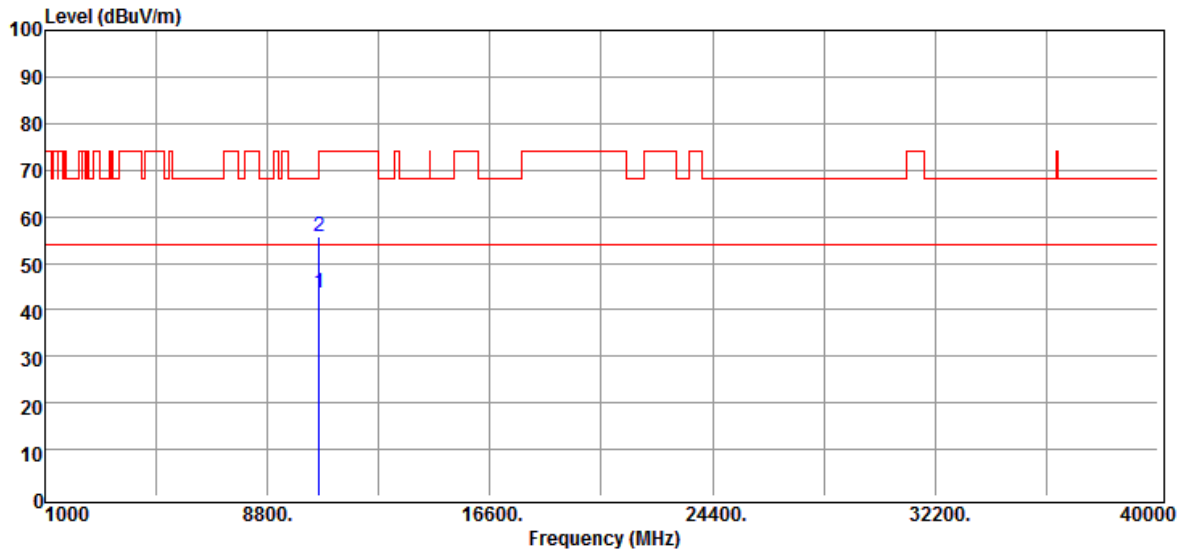
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10520.00	Peak	28.40	27.23	55.63	68.20	-12.57

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Operation Mode	:802.11n20 / Band 2	Test Date	:2018-05-24
Test Mode	:TX CH MID	Temp./Humi.	:24/64
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5300 MHz	Engineer	:Enzo



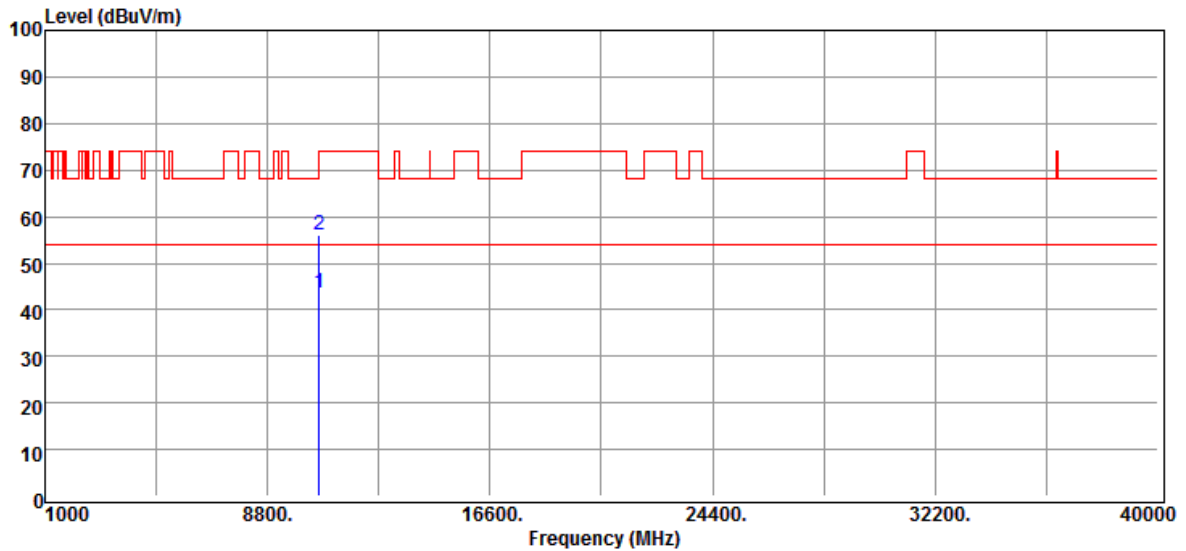
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10600.00	Average	16.28	27.21	43.49	54.00	-10.51
10600.00	Peak	28.59	27.21	55.80	68.20	-12.40

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Operation Mode	:802.11n20 / Band 2	Test Date	:2018-05-24
Test Mode	:TX CH MID	Temp./Humi.	:24/64
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5300 MHz	Engineer	:Enzo



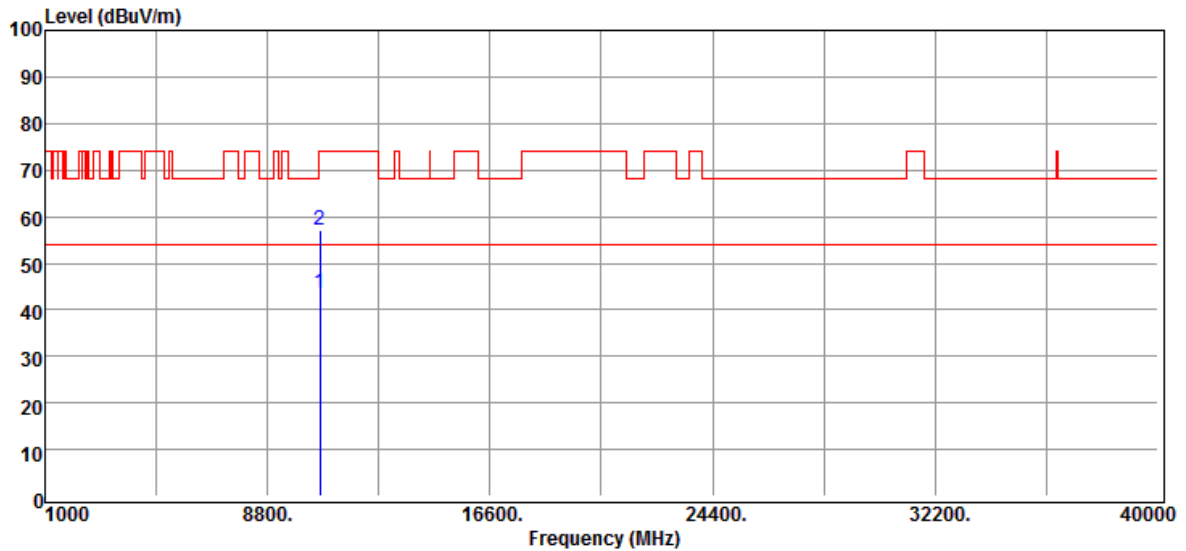
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10600.00	Average	16.38	27.21	43.59	54.00	-10.41
10600.00	Peak	28.91	27.21	56.12	68.20	-12.08

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Operation Mode	:802.11n20 / Band 2	Test Date	:2018-05-24
Test Mode	:TX CH HIGH	Temp./Humi.	:24/64
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5320 MHz	Engineer	:Enzo



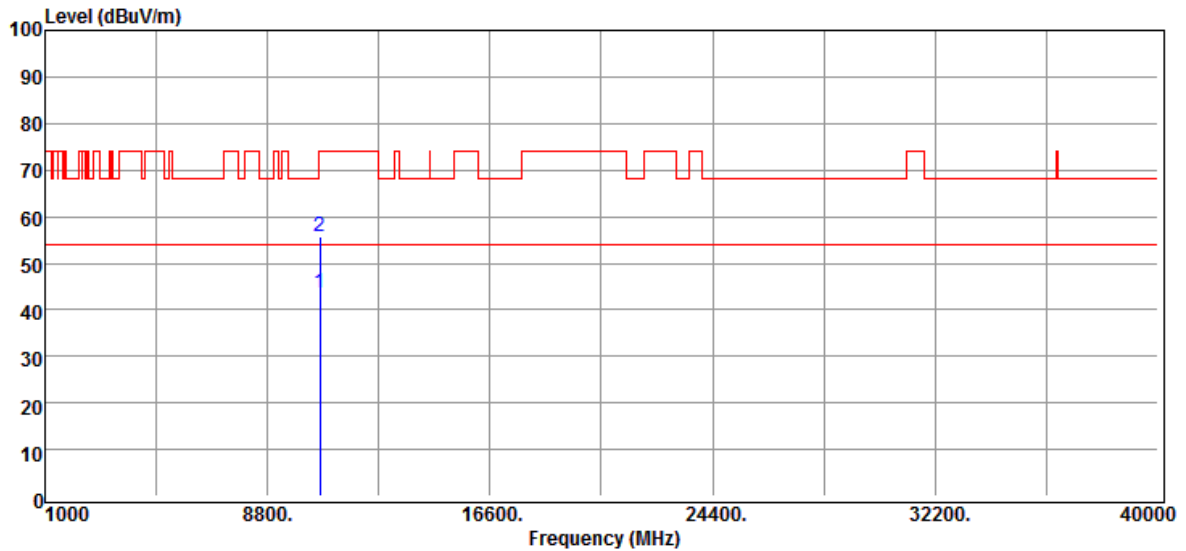
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10640.00	Average	16.56	27.20	43.76	54.00	-10.24
10640.00	Peak	29.95	27.20	57.15	74.00	-16.85

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Operation Mode	:802.11n20 / Band 2	Test Date	:2018-05-24
Test Mode	:TX CH HIGH	Temp./Humi.	:24/64
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5320 MHz	Engineer	:Enzo



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
10640.00	Average	16.57	27.20	43.77	54.00	-10.23
10640.00	Peak	28.64	27.20	55.84	74.00	-18.16

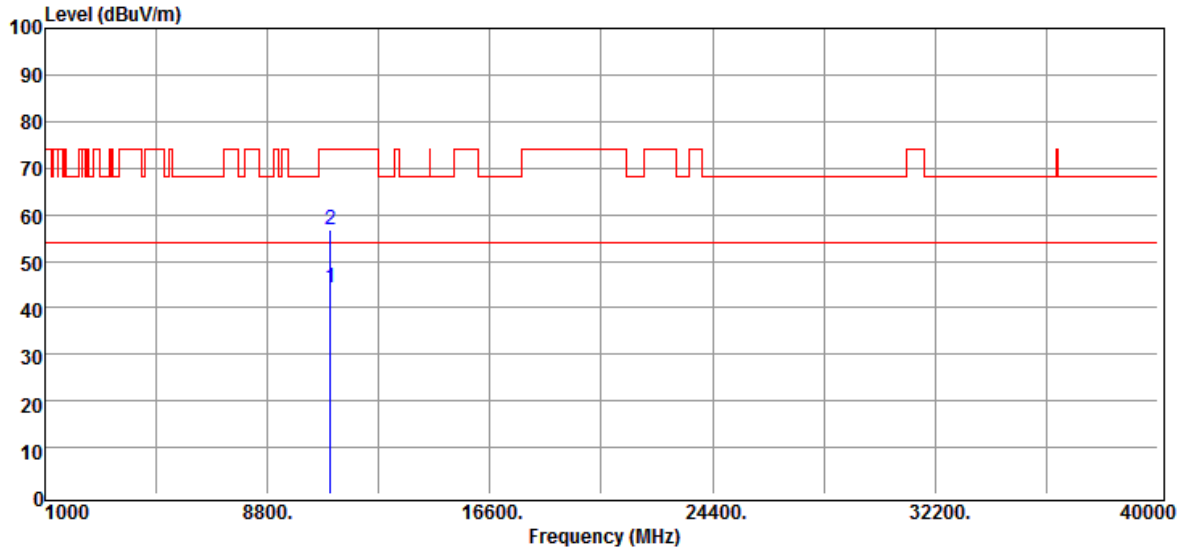
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5470~5725 MHz

Operation Mode	:802.11n20 / Band 3	Test Date	:2018-05-24
Test Mode	:TX CH LOW	Temp./Humi.	:24/64
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5500 MHz	Engineer	:Enzo



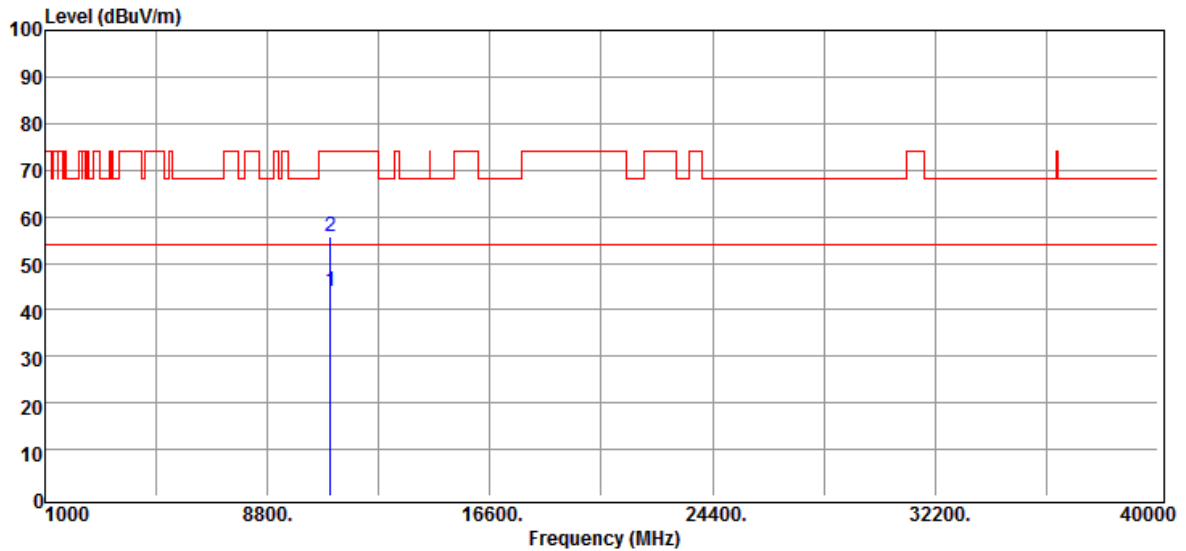
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11000.00	Average	17.05	27.09	44.14	54.00	-9.86
11000.00	Peak	29.57	27.09	56.66	74.00	-17.34

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Operation Mode	:802.11n20 / Band 3	Test Date	:2018-05-24
Test Mode	:TX CH LOW	Temp./Humi.	:24/64
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5500 MHz	Engineer	:Enzo



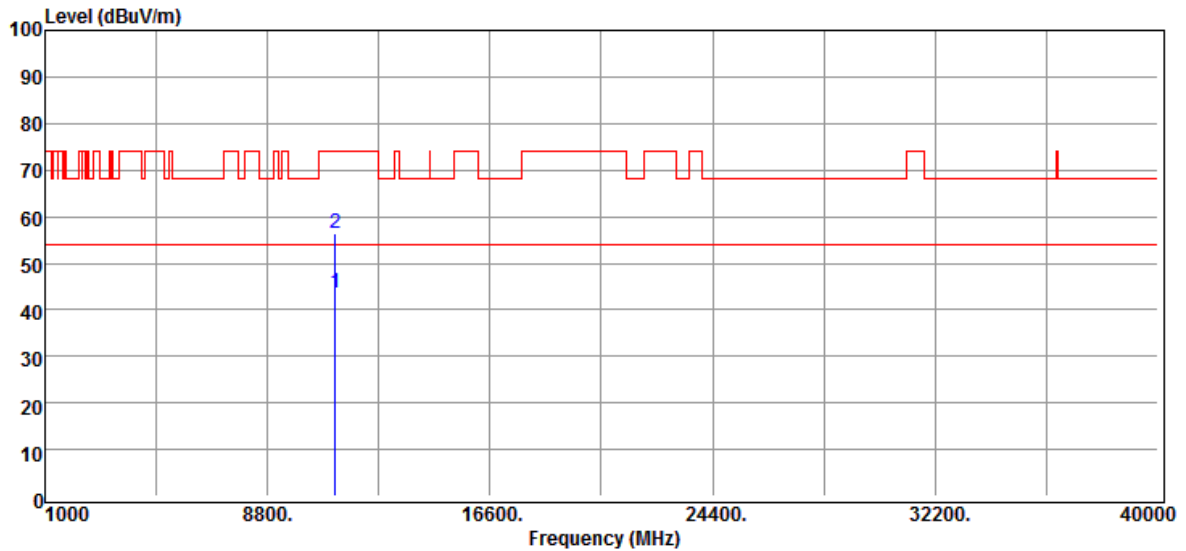
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11000.00	Average	17.02	27.09	44.11	54.00	-9.89
11000.00	Peak	28.60	27.09	55.69	74.00	-18.31

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Operation Mode	:802.11n20 / Band 3	Test Date	:2018-05-24
Test Mode	:TX CH MID	Temp./Humi.	:24/64
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5580 MHz	Engineer	:Enzo



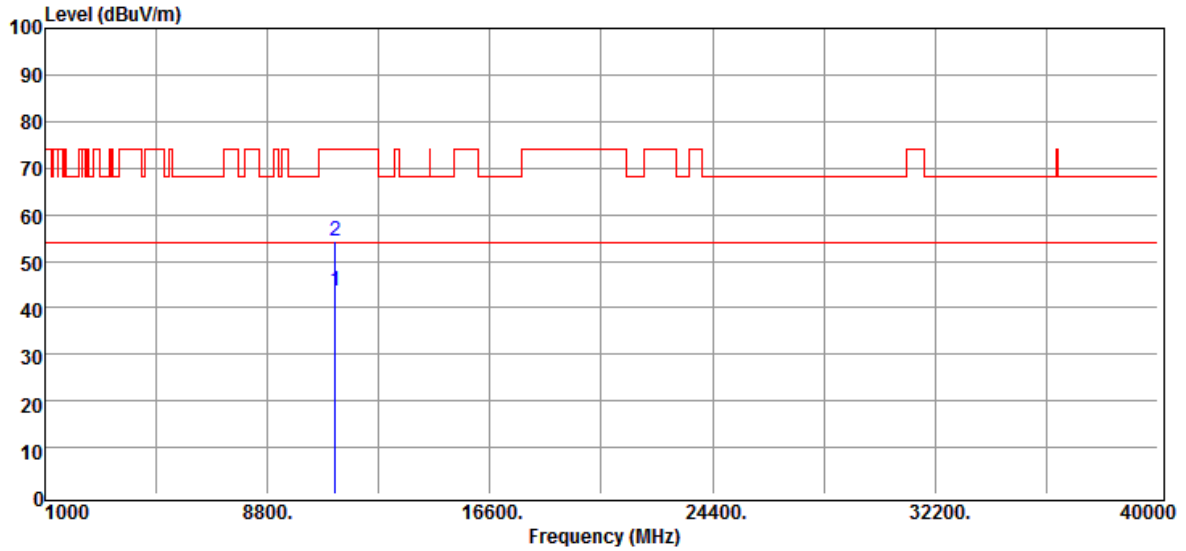
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11160.00	Average	17.04	26.67	43.71	54.00	-10.29
11160.00	Peak	29.72	26.67	56.39	74.00	-17.61

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Operation Mode	:802.11n20 / Band 3	Test Date	:2018-05-24
Test Mode	:TX CH MID	Temp./Humi.	:24/64
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5580 MHz	Engineer	:Enzo



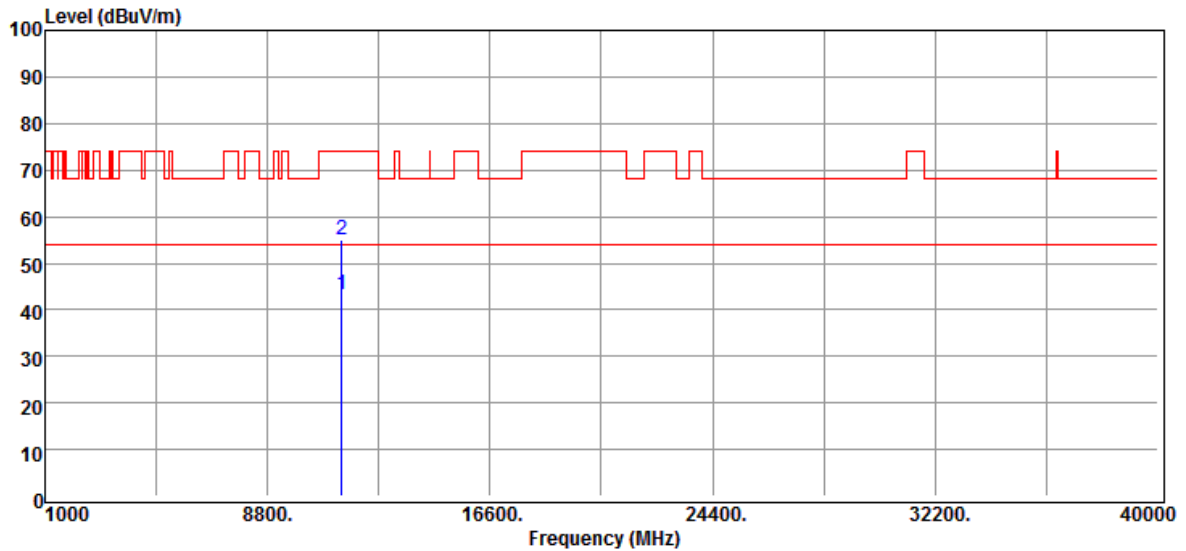
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11160.00	Average	17.08	26.67	43.75	54.00	-10.25
11160.00	Peak	27.80	26.67	54.47	74.00	-19.53

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Operation Mode	:802.11n20 / Band 3	Test Date	:2018-05-24
Test Mode	:TX CH HIGH	Temp./Humi.	:24/64
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5700 MHz	Engineer	:Enzo



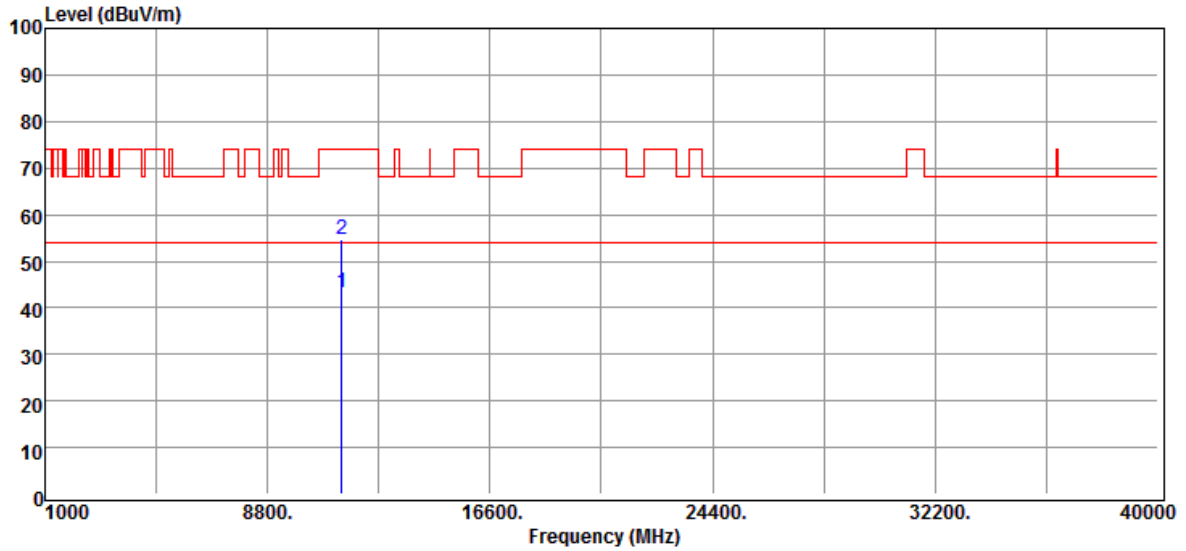
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11400.00	Average	17.13	26.07	43.20	54.00	-10.80
11400.00	Peak	28.80	26.07	54.87	74.00	-19.13

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Operation Mode	:802.11n20 / Band 3	Test Date	:2018-05-24
Test Mode	:TX CH HIGH	Temp./Humi.	:24/64
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5700 MHz	Engineer	:Enzo



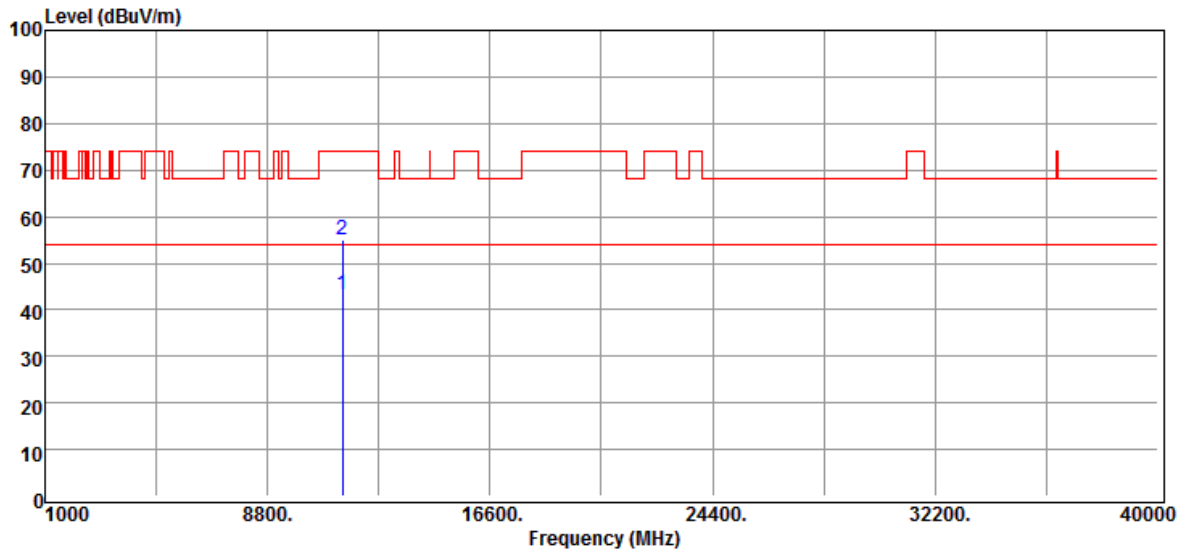
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11400.00	Average	17.18	26.07	43.25	54.00	-10.75
11400.00	Peak	28.76	26.07	54.83	74.00	-19.17

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Operation Mode	:802.11n20 / Band 3-4	Test Date	:2018-05-25
Test Mode	:TX CH MID	Temp./Humi.	:24/64
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5720 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11440.00	Average	17.24	25.96	43.20	54.00	-10.80
11440.00	Peak	29.03	25.96	54.99	74.00	-19.01

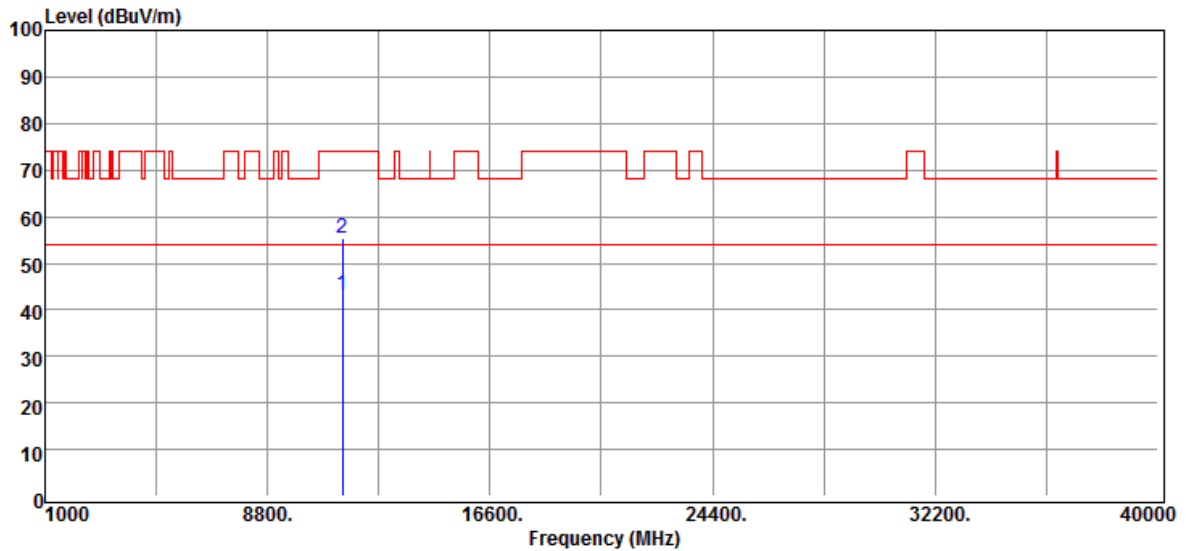
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Operation Mode :802.11n20 / Band 3-4
 Test Mode :TX CH MID
 EUT Pol :E1 Plan
 Test Channel :5720 MHz

Test Date :2018-05-25
 Temp./Humi. :24/64
 Antenna Pol. :HORIZONTAL
 Engineer :Enzo



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
11440.00	Average	17.44	25.96	43.40	54.00	-10.60
11440.00	Peak	29.42	25.96	55.38	74.00	-18.62

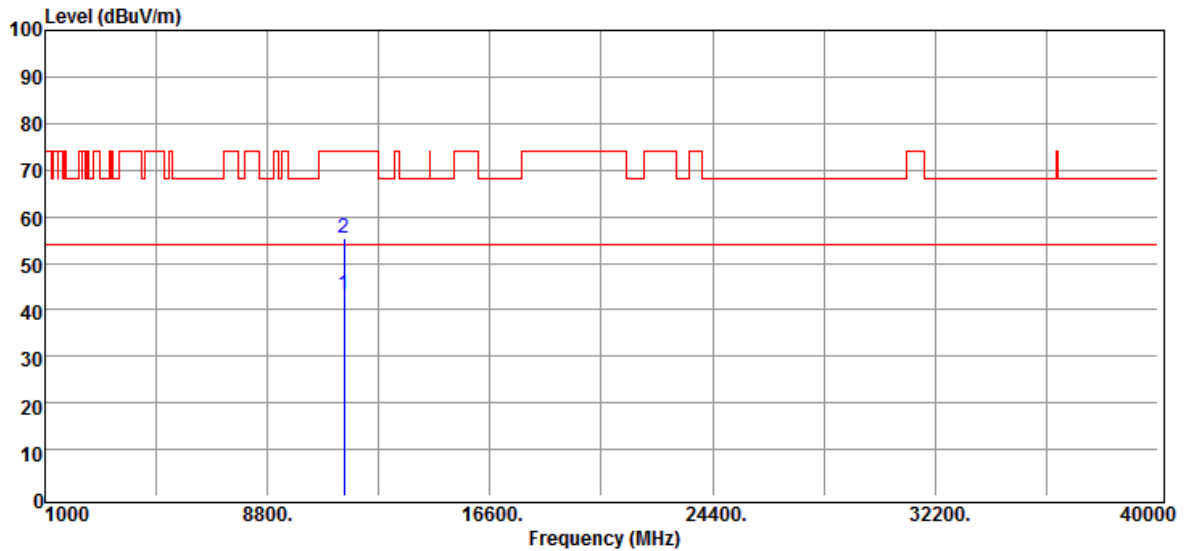
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5725~5850 MHz

Operation Mode	:802.11n20 / Band 4	Test Date	:2018-05-24
Test Mode	:TX CH LOW	Temp./Humi.	:24/64
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5745 MHz	Engineer	:Enzo



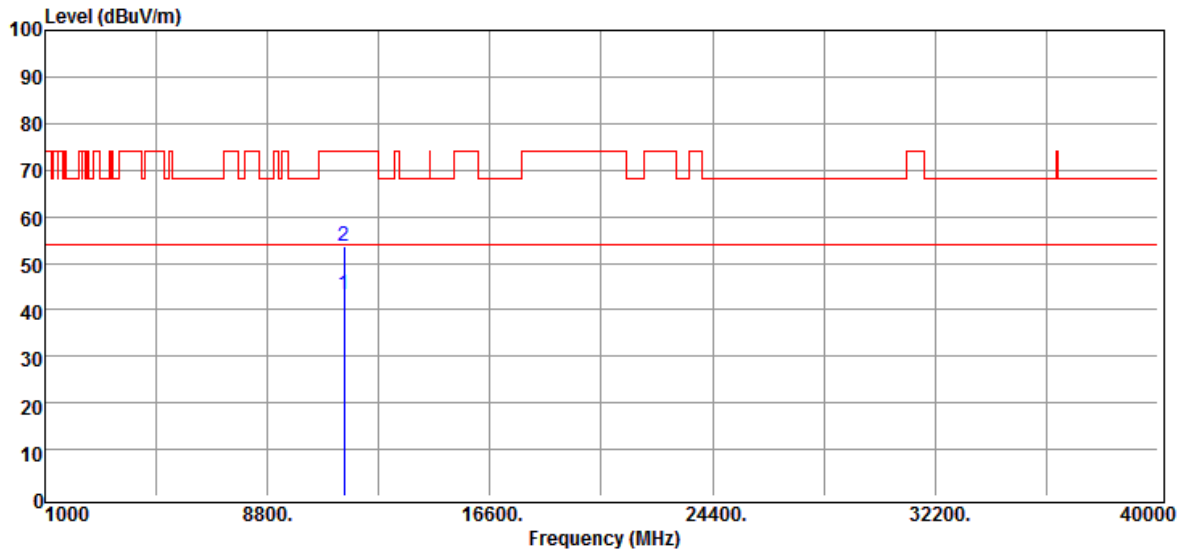
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11490.00	Average	17.47	25.83	43.30	54.00	-10.70
11490.00	Peak	29.48	25.83	55.31	74.00	-18.69

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Operation Mode	:802.11n20 / Band 4	Test Date	:2018-05-24
Test Mode	:TX CH LOW	Temp./Humi.	:24/64
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5745 MHz	Engineer	:Enzo



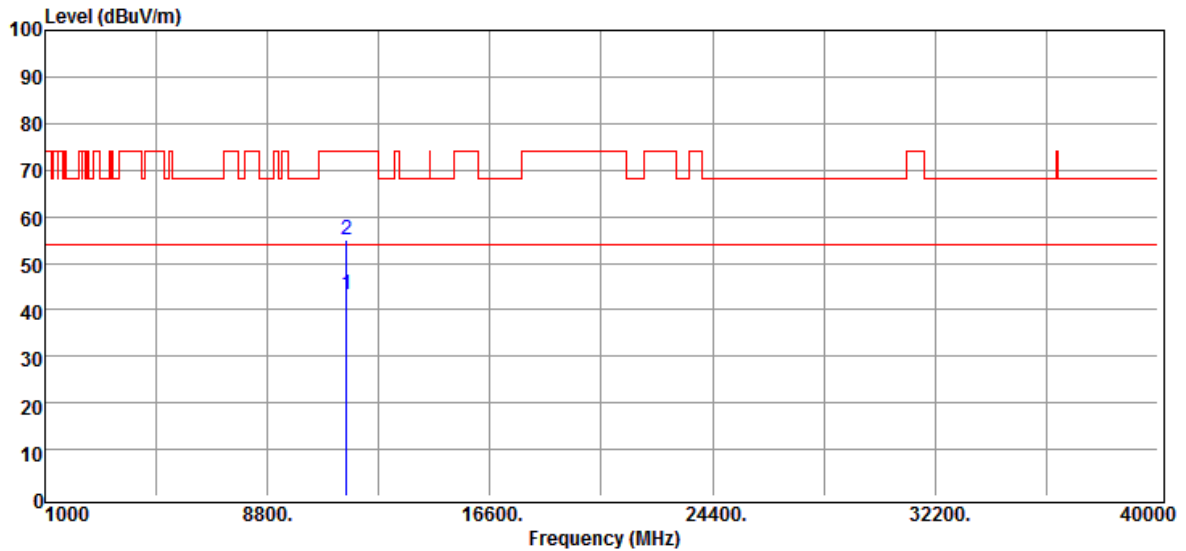
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11490.00	Average	17.60	25.83	43.43	54.00	-10.57
11490.00	Peak	27.97	25.83	53.80	74.00	-20.20

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Operation Mode	:802.11n20 / Band 4	Test Date	:2018-05-24
Test Mode	:TX CH MID	Temp./Humi.	:24/64
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5785 MHz	Engineer	:Enzo



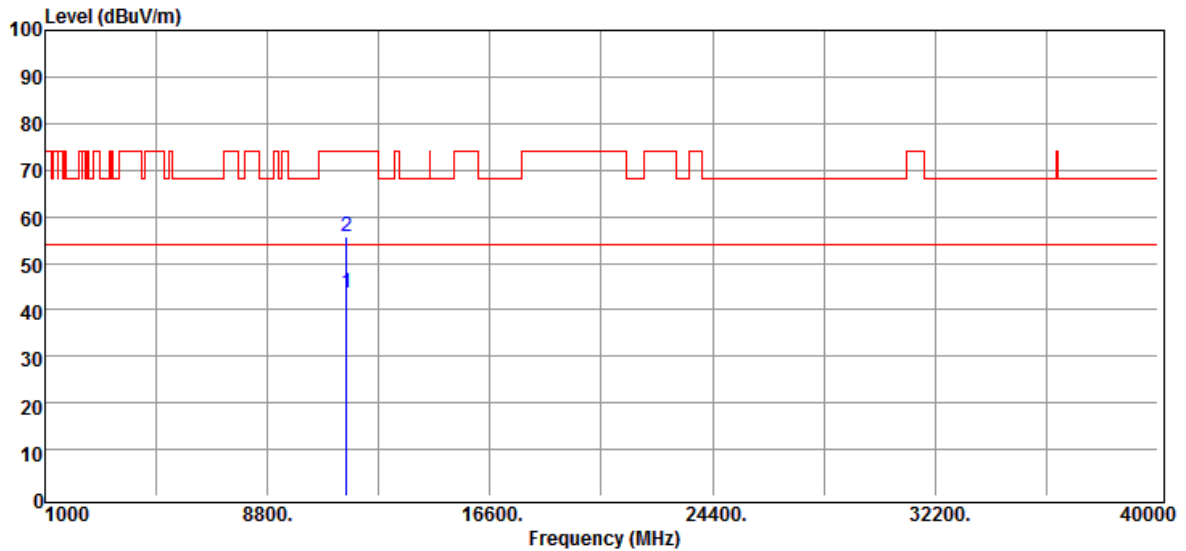
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11570.00	Average	17.38	25.87	43.25	54.00	-10.75
11570.00	Peak	29.22	25.87	55.09	74.00	-18.91

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Operation Mode	:802.11n20 / Band 4	Test Date	:2018-05-24
Test Mode	:TX CH MID	Temp./Humi.	:24/64
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5785 MHz	Engineer	:Enzo



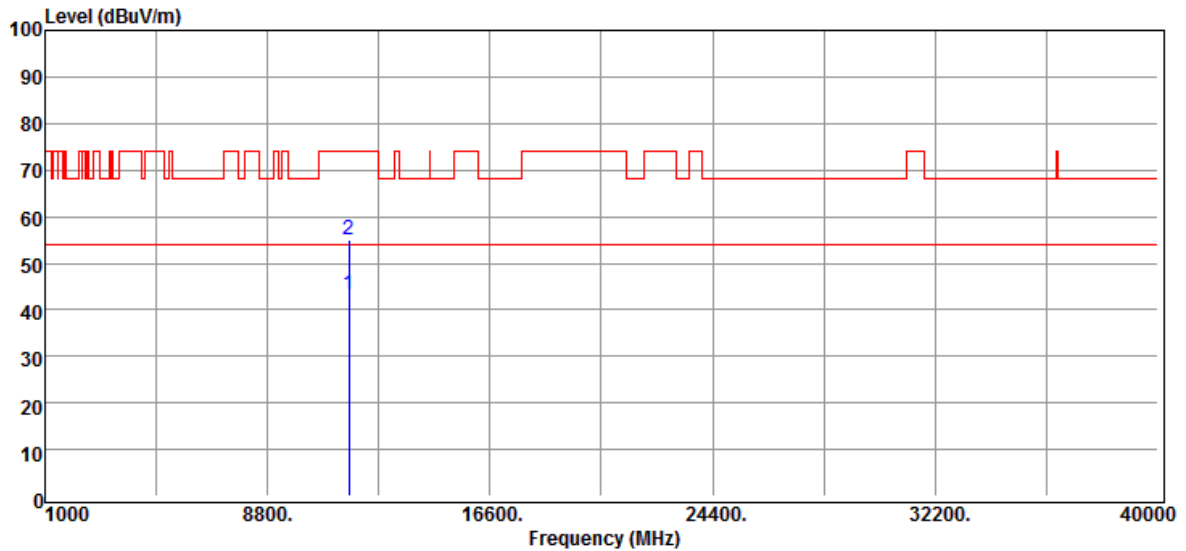
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11570.00	Average	17.80	25.87	43.67	54.00	-10.33
11570.00	Peak	29.87	25.87	55.74	74.00	-18.26

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Operation Mode	:802.11n20 / Band 4	Test Date	:2018-05-24
Test Mode	:TX CH HIGH	Temp./Humi.	:24/64
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5825 MHz	Engineer	:Enzo



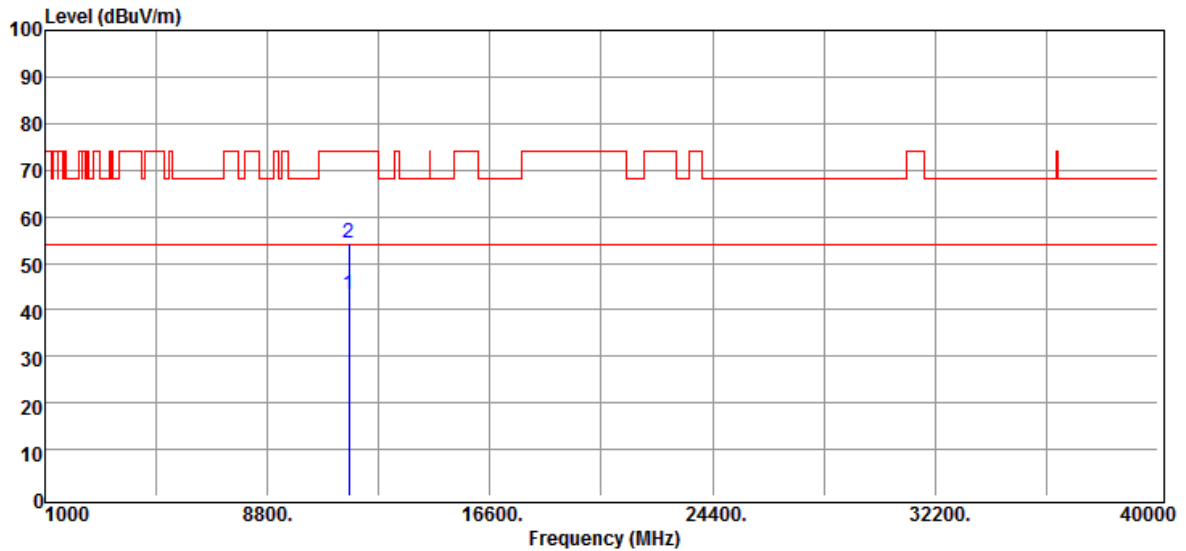
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11650.00	Average	17.15	25.94	43.09	54.00	-10.91
11650.00	Peak	29.11	25.94	55.05	74.00	-18.95

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Operation Mode	:802.11n20 / Band 4	Test Date	:2018-05-24
Test Mode	:TX CH HIGH	Temp./Humi.	:24/64
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5825 MHz	Engineer	:Enzo



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
11650.00	Average	17.35	25.94	43.29	54.00	-10.71
11650.00	Peak	28.48	25.94	54.42	74.00	-19.58

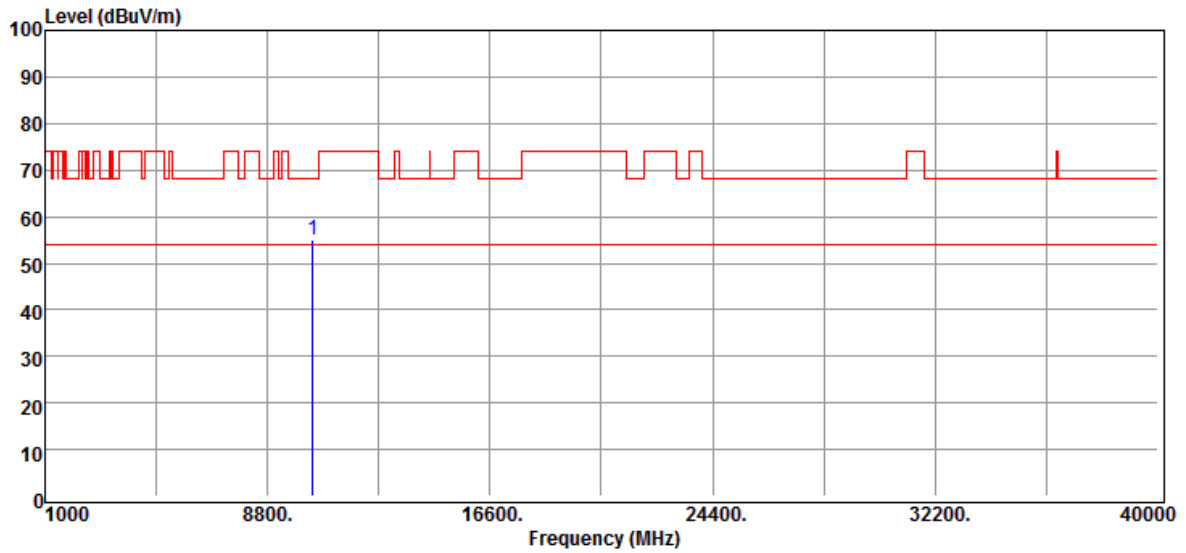
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5150~5250 MHz

Operation Mode	:802.11n40 / Band 1	Test Date	:2018-05-24
Test Mode	:TX CH LOW	Temp./Humi.	:24/64
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5190 MHz	Engineer	:Enzo



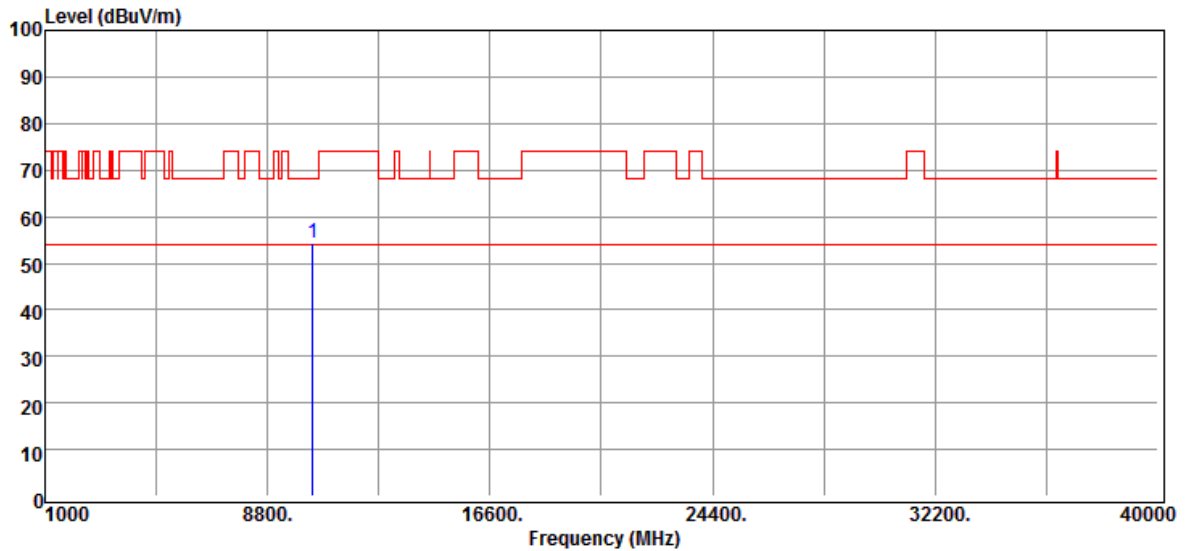
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10380.00	Peak	28.37	26.69	55.06	68.20	-13.14

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Operation Mode	:802.11n40 / Band 1	Test Date	:2018-05-24
Test Mode	:TX CH LOW	Temp./Humi.	:24/64
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5190 MHz	Engineer	:Enzo



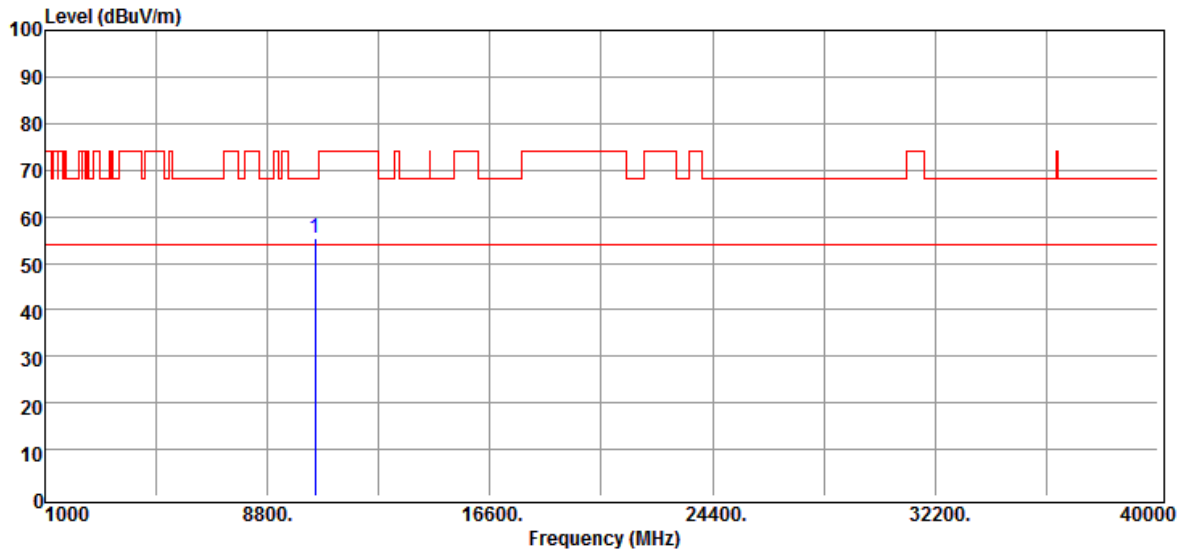
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10380.00	Peak	27.72	26.69	54.41	68.20	-13.79

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Operation Mode	:802.11n40 / Band 1	Test Date	:2018-05-24
Test Mode	:TX CH HIGH	Temp./Humi.	:24/64
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5230 MHz	Engineer	:Enzo



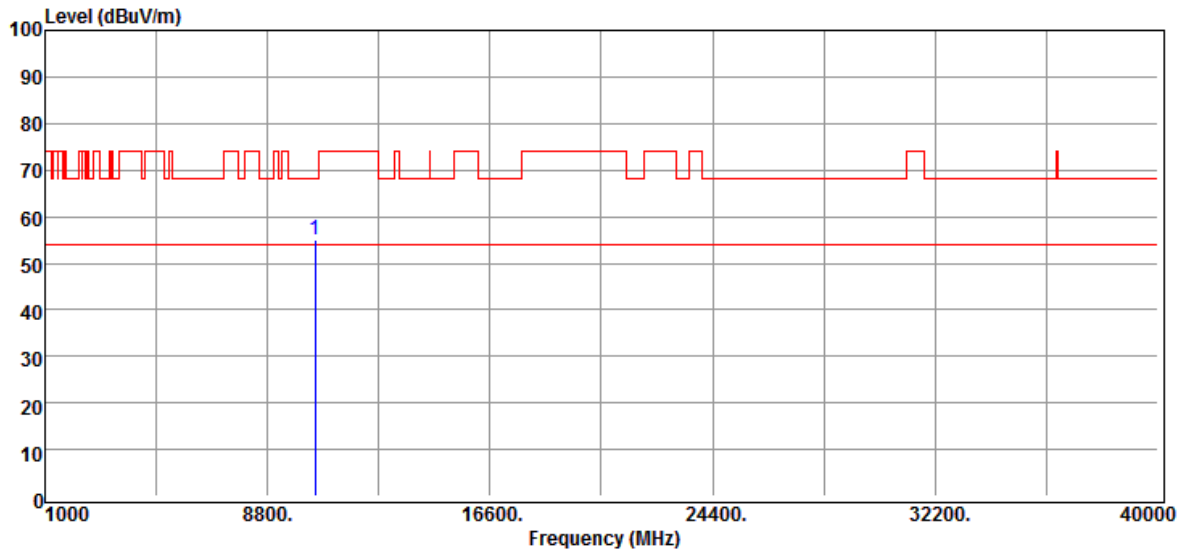
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10460.00	Peak	28.19	27.06	55.25	68.20	-12.95

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Operation Mode	:802.11n40 / Band 1	Test Date	:2018-05-24
Test Mode	:TX CH HIGH	Temp./Humi.	:24/64
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5230 MHz	Engineer	:Enzo



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
10460.00	Peak	28.03	27.06	55.09	68.20	-13.11

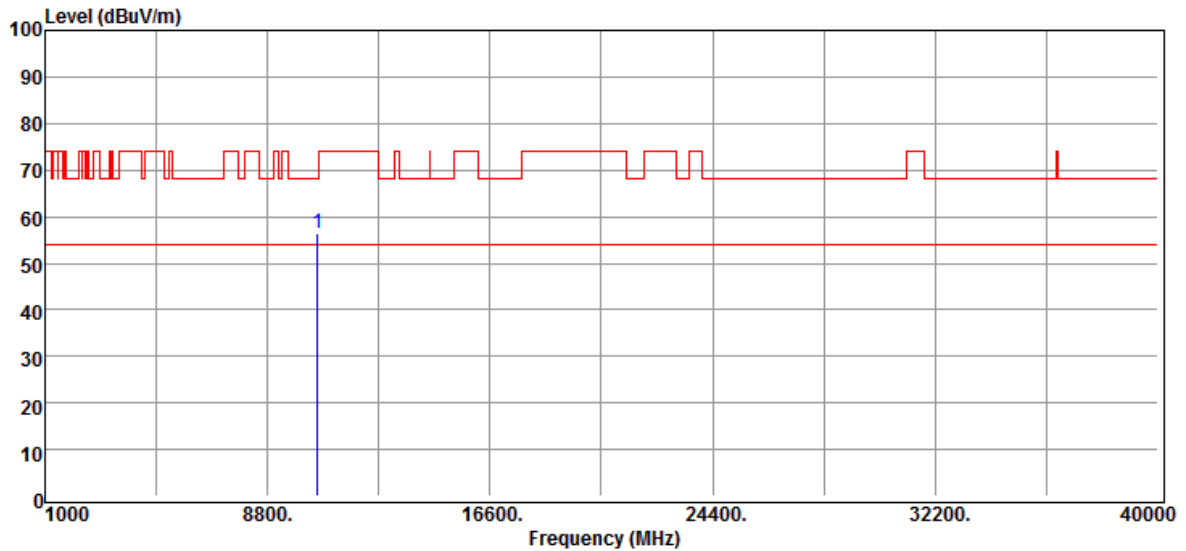
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5250~5350 MHz

Operation Mode	:802.11n40 / Band 2	Test Date	:2018-05-24
Test Mode	:TX CH LOW	Temp./Humi.	:24/64
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5270 MHz	Engineer	:Enzo



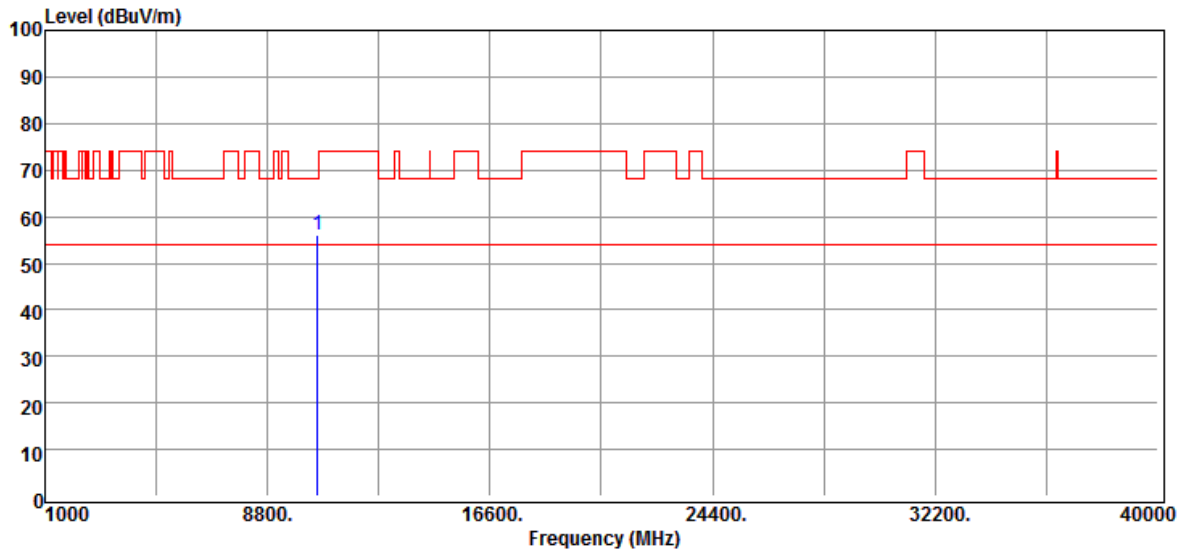
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10540.00	Peak	29.26	27.23	56.49	68.20	-11.71

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Operation Mode	:802.11n40 / Band 2	Test Date	:2018-05-24
Test Mode	:TX CH LOW	Temp./Humi.	:24/64
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5270 MHz	Engineer	:Enzo



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
10540.00	Peak	28.66	27.23	55.89	68.20	-12.31

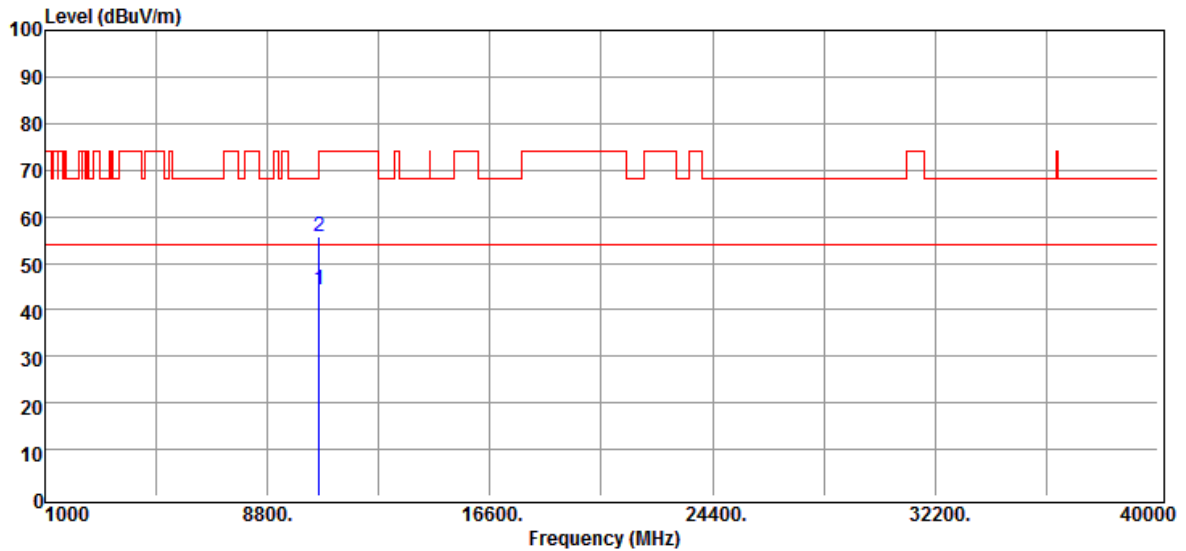
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Operation Mode :802.11n40 / Band 2
 Test Mode :TX CH HIGH
 EUT Pol :E1 Plan
 Test Channel :5310 MHz

Test Date :2018-05-24
 Temp./Humi. :24/64
 Antenna Pol. :VERTICAL
 Engineer :Enzo



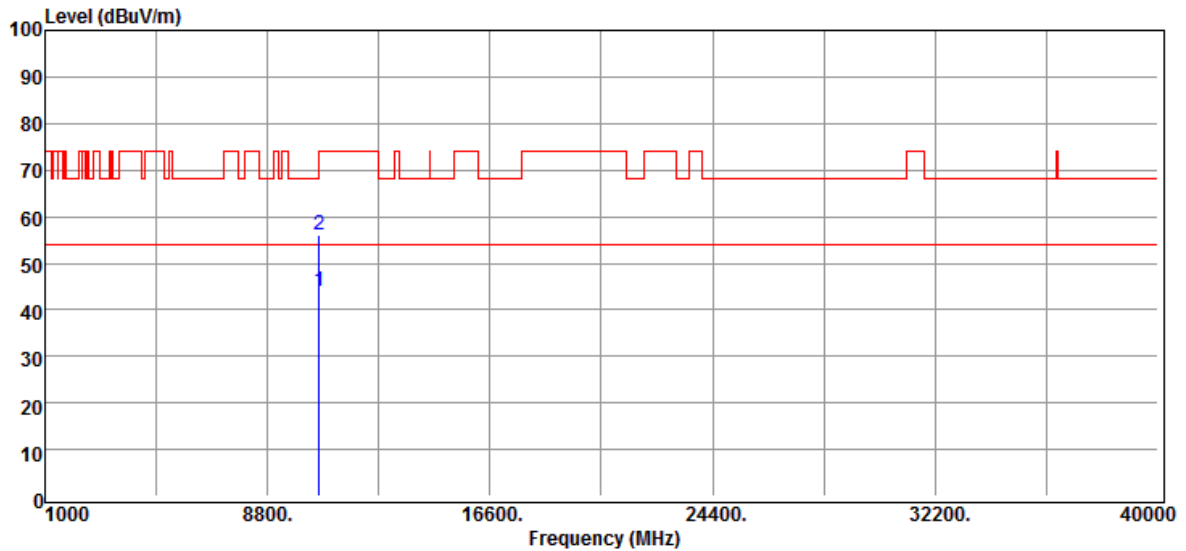
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10620.00	Average	16.97	27.20	44.17	54.00	-9.83
10620.00	Peak	28.62	27.20	55.82	74.00	-18.18

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Operation Mode	:802.11n40 / Band 2	Test Date	:2018-05-24
Test Mode	:TX CH HIGH	Temp./Humi.	:24/64
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5310 MHz	Engineer	:Enzo



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
10620.00	Average	16.89	27.20	44.09	54.00	-9.91
10620.00	Peak	28.82	27.20	56.02	74.00	-17.98

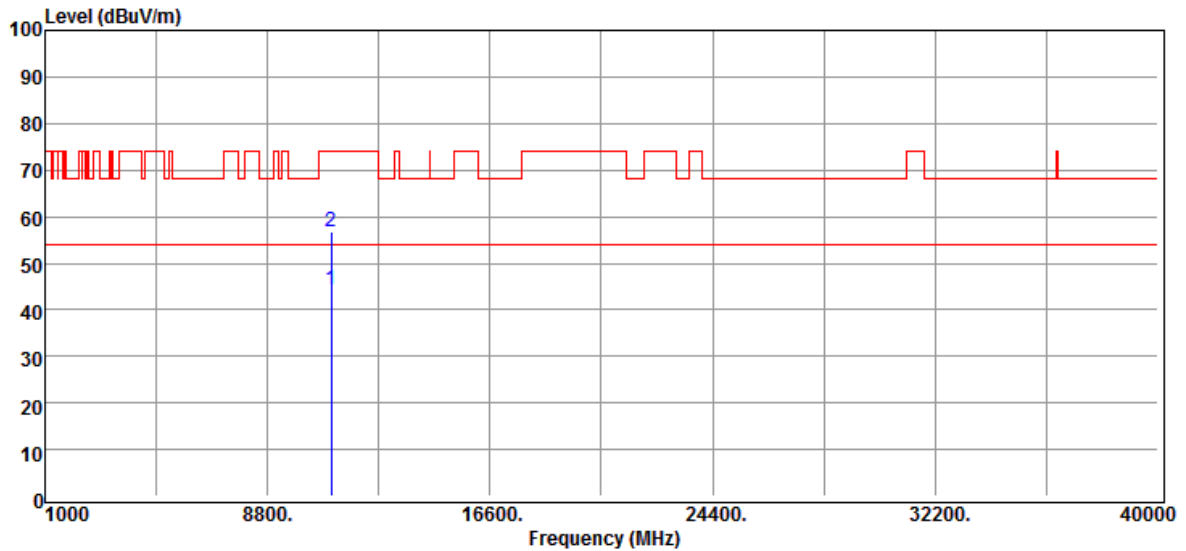
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5470~5725 MHz

Operation Mode	:802.11n40 / Band 3	Test Date	:2018-05-24
Test Mode	:TX CH LOW	Temp./Humi.	:24/64
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5510 MHz	Engineer	:Enzo



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
11020.00	Average	17.27	27.04	44.31	54.00	-9.69
11020.00	Peak	29.84	27.04	56.88	74.00	-17.12

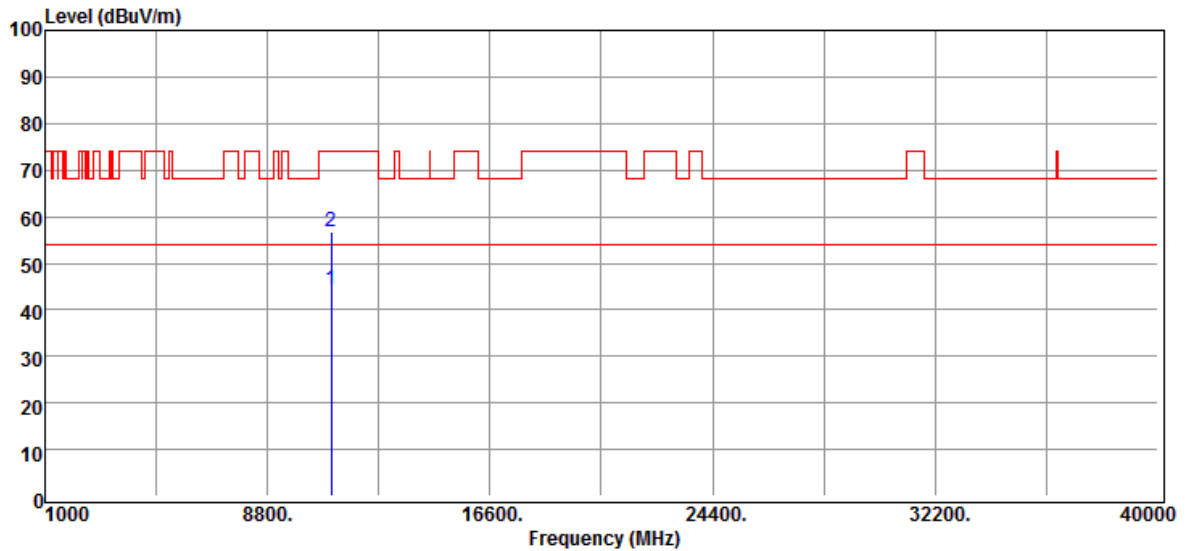
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Operation Mode :802.11n40 / Band 3
 Test Mode :TX CH LOW
 EUT Pol :E1 Plan
 Test Channel :5510 MHz

Test Date :2018-05-24
 Temp./Humi. :24/64
 Antenna Pol. :HORIZONTAL
 Engineer :Enzo



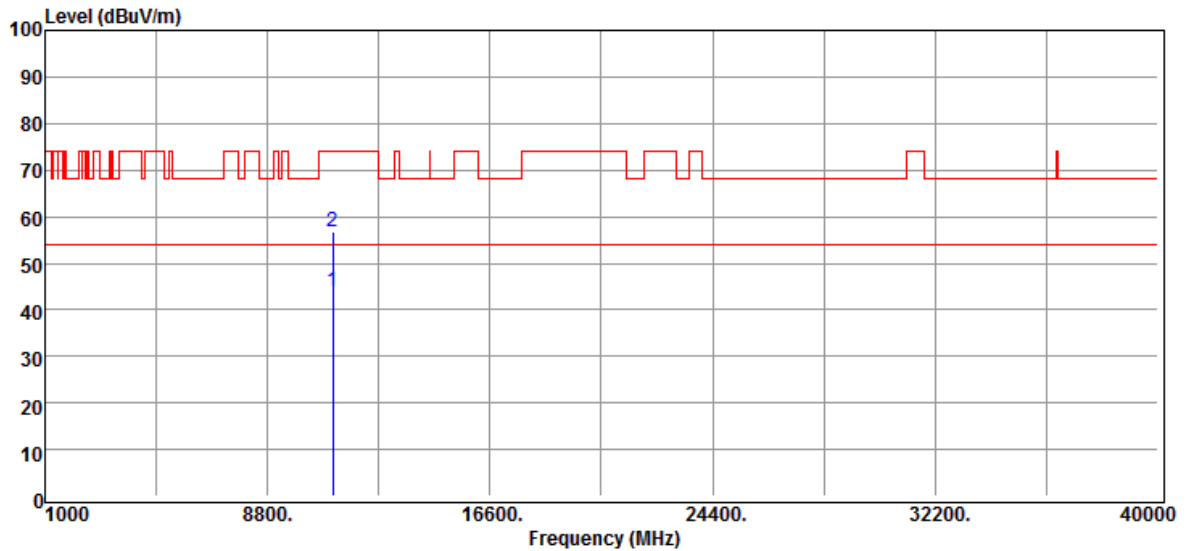
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11020.00	Average	17.26	27.04	44.30	54.00	-9.70
11020.00	Peak	29.64	27.04	56.68	74.00	-17.32

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Operation Mode	:802.11n40 / Band 3	Test Date	:2018-05-24
Test Mode	:TX CH MID	Temp./Humi.	:24/64
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5550 MHz	Engineer	:Enzo



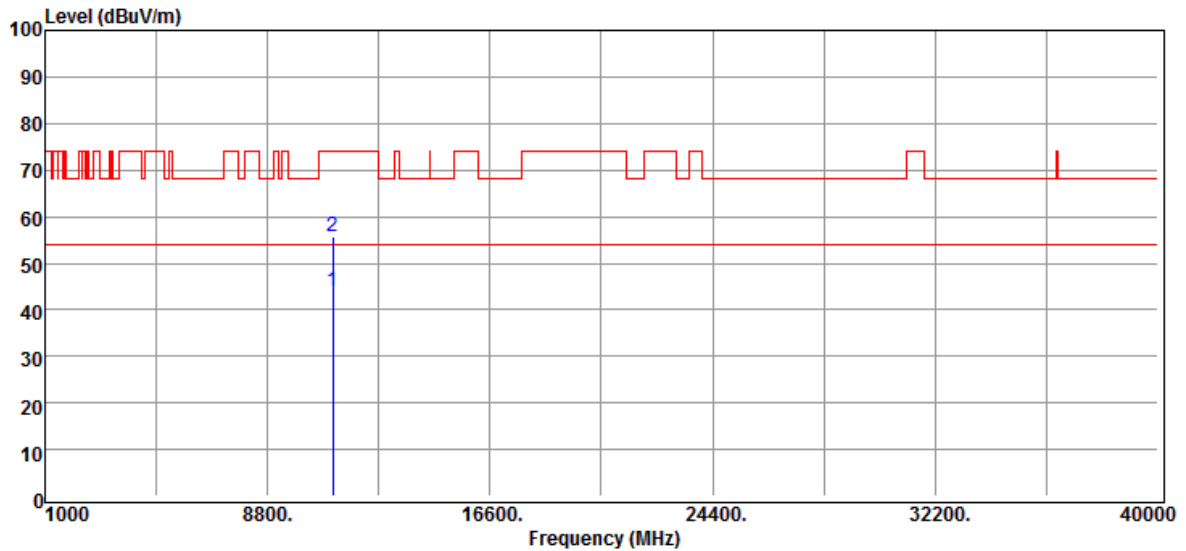
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11100.00	Average	17.13	26.83	43.96	54.00	-10.04
11100.00	Peak	29.96	26.83	56.79	74.00	-17.21

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Operation Mode	:802.11n40 / Band 3	Test Date	:2018-05-24
Test Mode	:TX CH MID	Temp./Humi.	:24/64
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5550 MHz	Engineer	:Enzo



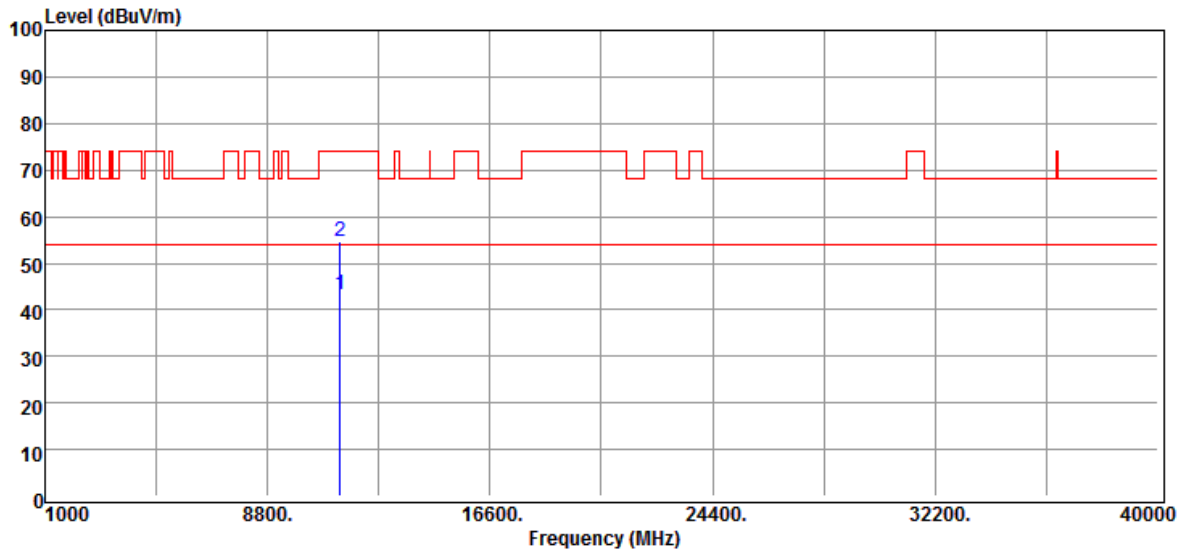
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11100.00	Average	17.16	26.83	43.99	54.00	-10.01
11100.00	Peak	28.91	26.83	55.74	74.00	-18.26

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Operation Mode	:802.11n40 / Band 3	Test Date	:2018-05-24
Test Mode	:TX CH HIGH	Temp./Humi.	:24/64
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5670 MHz	Engineer	:Enzo



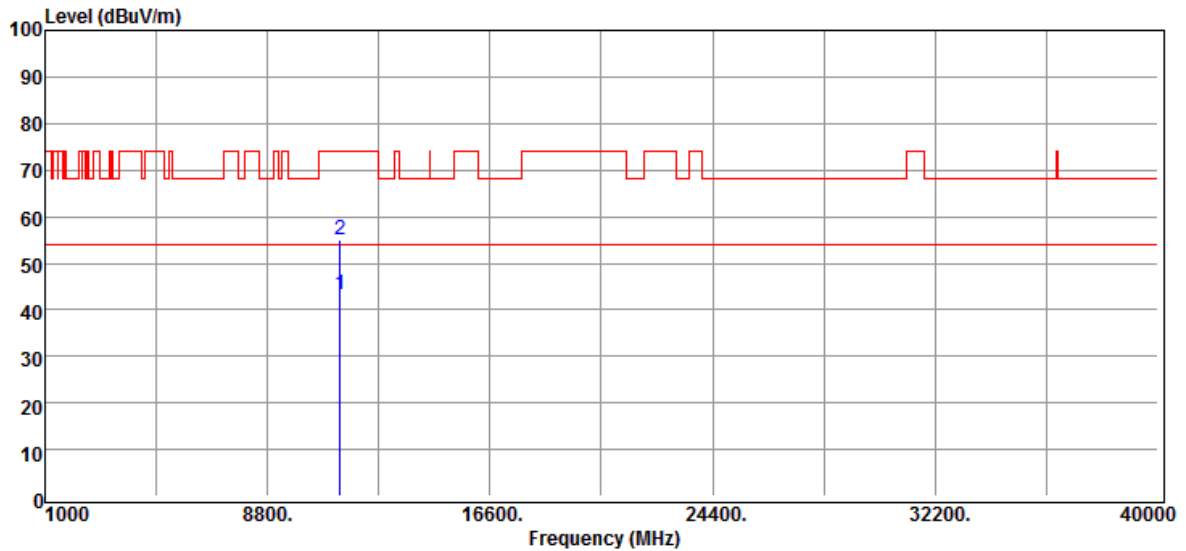
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11340.00	Average	17.09	26.21	43.30	54.00	-10.70
11340.00	Peak	28.50	26.21	54.71	74.00	-19.29

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Operation Mode	:802.11n40 / Band 3	Test Date	:2018-05-24
Test Mode	:TX CH HIGH	Temp./Humi.	:24/64
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5670 MHz	Engineer	:Enzo



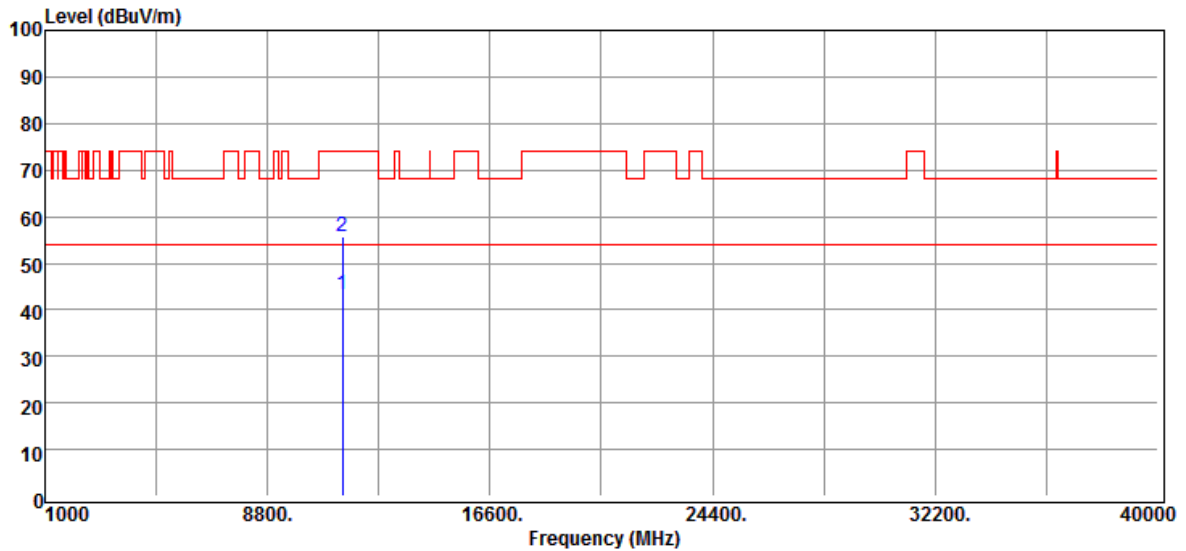
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11340.00	Average	17.05	26.21	43.26	54.00	-10.74
11340.00	Peak	28.71	26.21	54.92	74.00	-19.08

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Operation Mode	:802.11n40 / Band 3-4	Test Date	:2018-05-25
Test Mode	:TX CH MID	Temp./Humi.	:24/64
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5710 MHz	Engineer	:Enzo



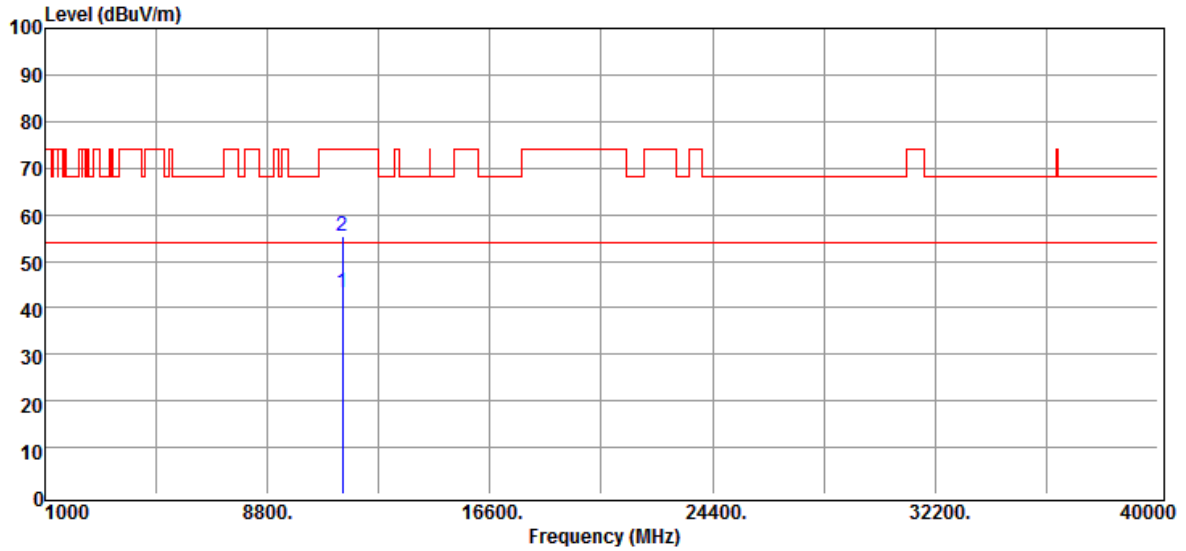
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11420.00	Average	17.32	26.01	43.33	54.00	-10.67
11420.00	Peak	29.82	26.01	55.83	74.00	-18.17

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Operation Mode	:802.11n40 / Band 3-4	Test Date	:2018-05-25
Test Mode	:TX CH MID	Temp./Humi.	:24/64
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5710 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11420.00	Average	17.39	26.01	43.40	54.00	-10.60
11420.00	Peak	29.29	26.01	55.30	74.00	-18.70

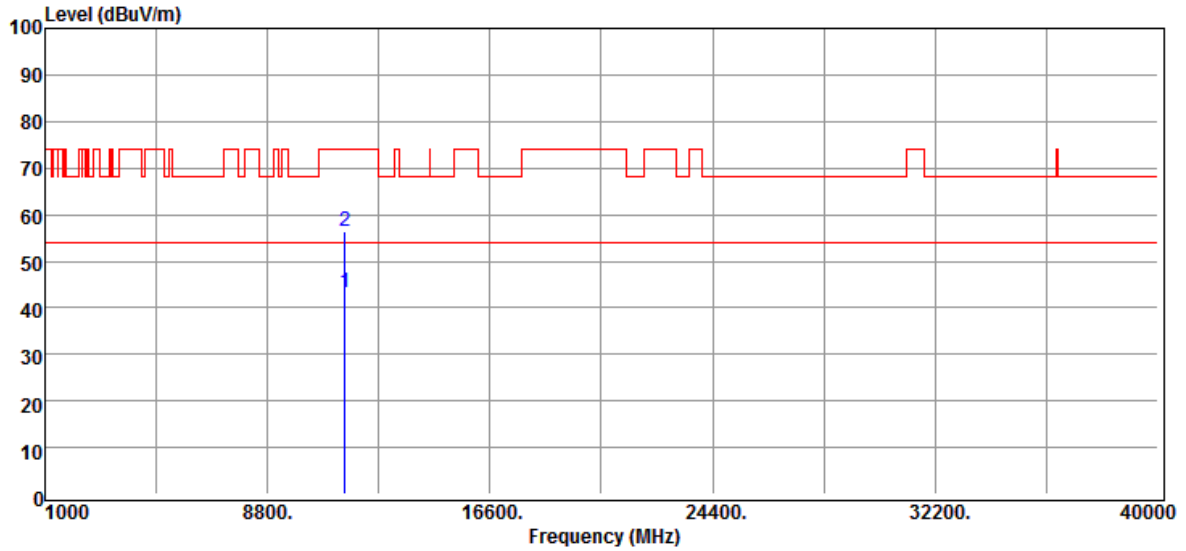
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5725~5850 MHz

Operation Mode	:802.11n40 / Band 4	Test Date	:2018-05-24
Test Mode	:TX CH LOW	Temp./Humi.	:24/64
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5755 MHz	Engineer	:Enzo



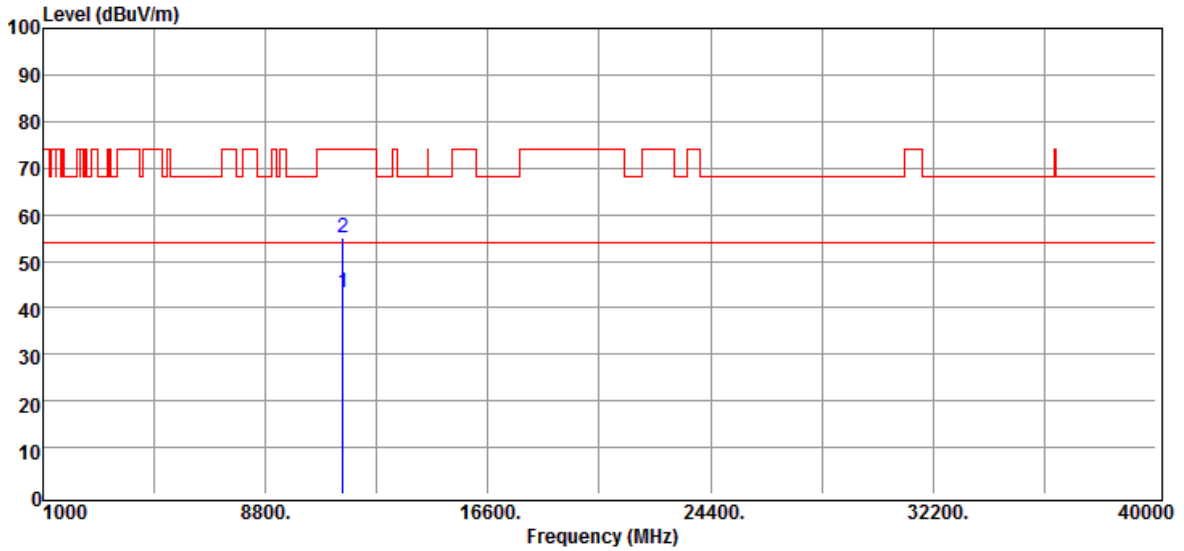
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11510.00	Average	17.38	25.82	43.20	54.00	-10.80
11510.00	Peak	30.61	25.82	56.43	74.00	-17.57

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Operation Mode	:802.11n40 / Band 4	Test Date	:2018-05-24
Test Mode	:TX CH LOW	Temp./Humi.	:24/64
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5755 MHz	Engineer	:Enzo



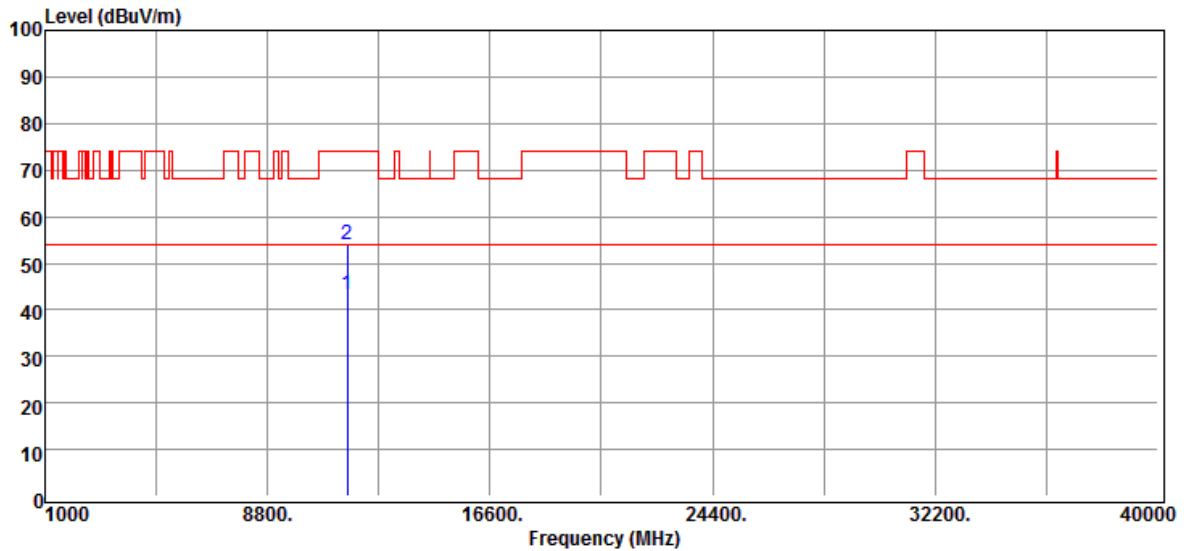
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11510.00	Average	17.58	25.82	43.40	54.00	-10.60
11510.00	Peak	29.08	25.82	54.90	74.00	-19.10

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Operation Mode	:802.11n40 / Band 4	Test Date	:2018-05-24
Test Mode	:TX CH HIGH	Temp./Humi.	:24/64
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5795 MHz	Engineer	:Enzo



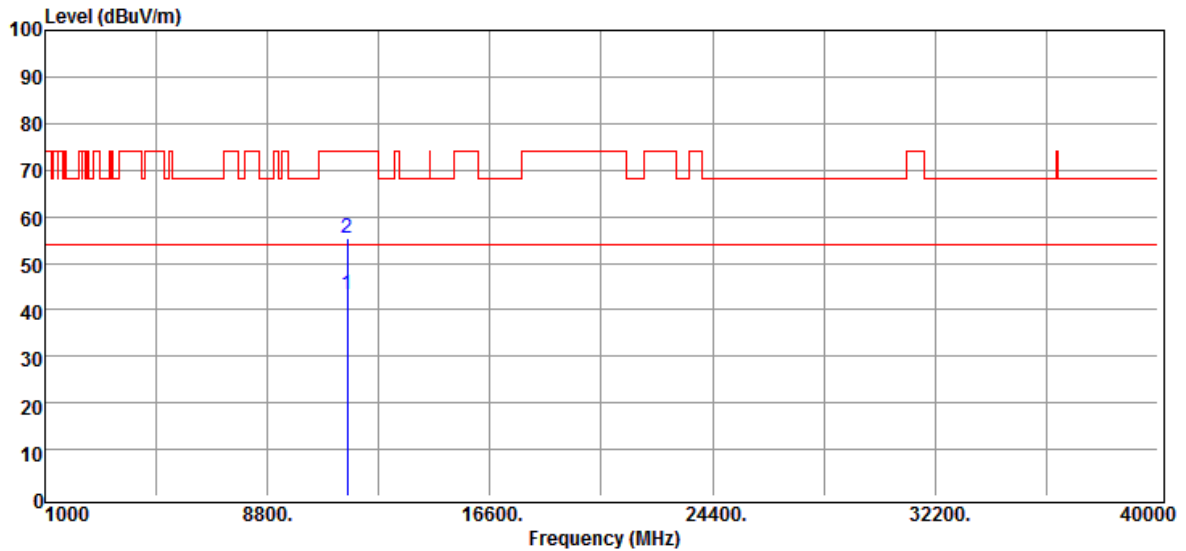
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11590.00	Average	17.30	25.89	43.19	54.00	-10.81
11590.00	Peak	28.13	25.89	54.02	74.00	-19.98

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Operation Mode	:802.11n40 / Band 4	Test Date	:2018-05-24
Test Mode	:TX CH HIGH	Temp./Humi.	:24/64
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5795 MHz	Engineer	:Enzo



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
11590.00	Average	17.51	25.89	43.40	54.00	-10.60
11590.00	Peak	29.34	25.89	55.23	74.00	-18.77

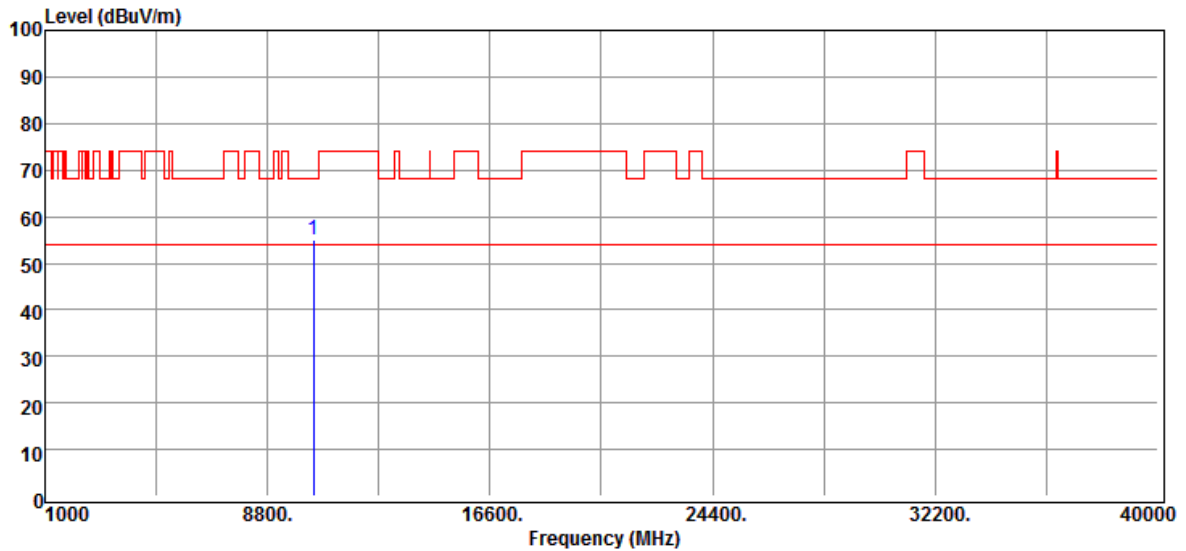
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Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5150~5250 MHz

Operation Mode	:802.11ac80 / Band 1	Test Date	:2018-05-24
Test Mode	:TX CH LOW	Temp./Humi.	:24/64
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5210 MHz	Engineer	:Enzo



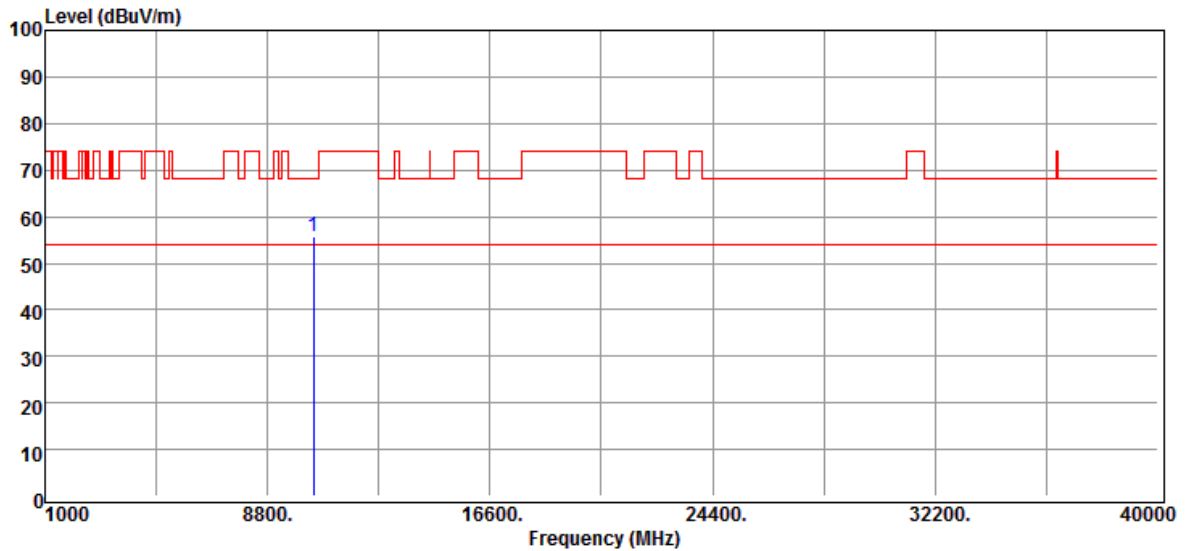
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10420.00	Peak	28.00	26.87	54.87	68.20	-13.33

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Operation Mode	:802.11ac80 / Band 1	Test Date	:2018-05-24
Test Mode	:TX CH LOW	Temp./Humi.	:24/64
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5210 MHz	Engineer	:Enzo



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
10420.00	Peak	28.96	26.87	55.83	68.20	-12.37

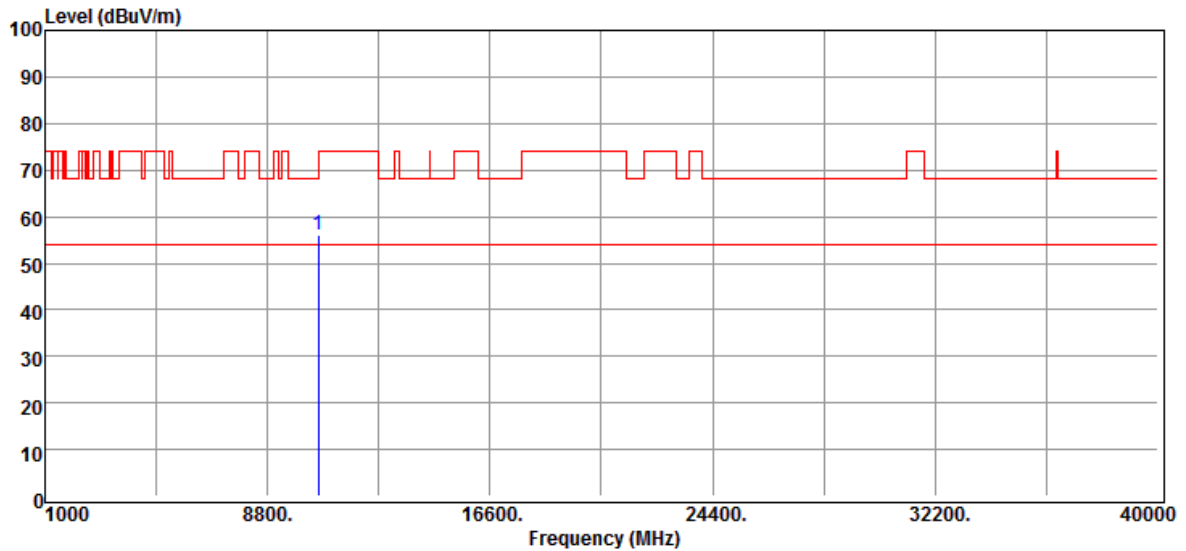
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Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5250~5350 MHz

Operation Mode	:802.11ac80 / Band 2	Test Date	:2018-05-24
Test Mode	:TX CH HIGH	Temp./Humi.	:24/64
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5290 MHz	Engineer	:Enzo



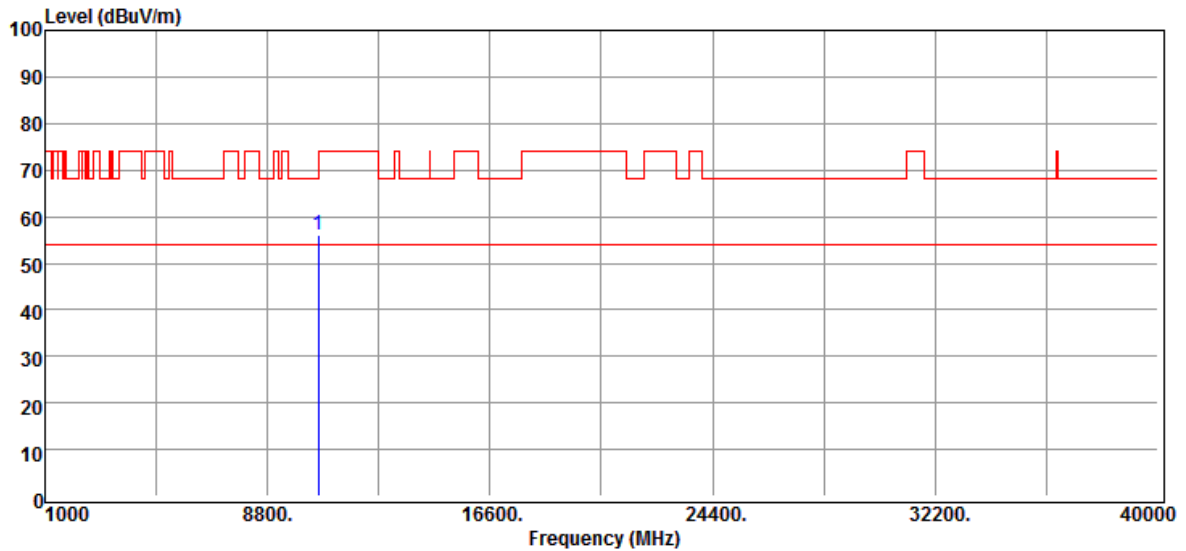
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10580.00	Peak	28.73	27.22	55.95	68.20	-12.25

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Operation Mode	:802.11ac80 / Band 2	Test Date	:2018-05-24
Test Mode	:TX CH HIGH	Temp./Humi.	:24/64
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5290 MHz	Engineer	:Enzo



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
10580.00	Peak	28.79	27.22	56.01	68.20	-12.19

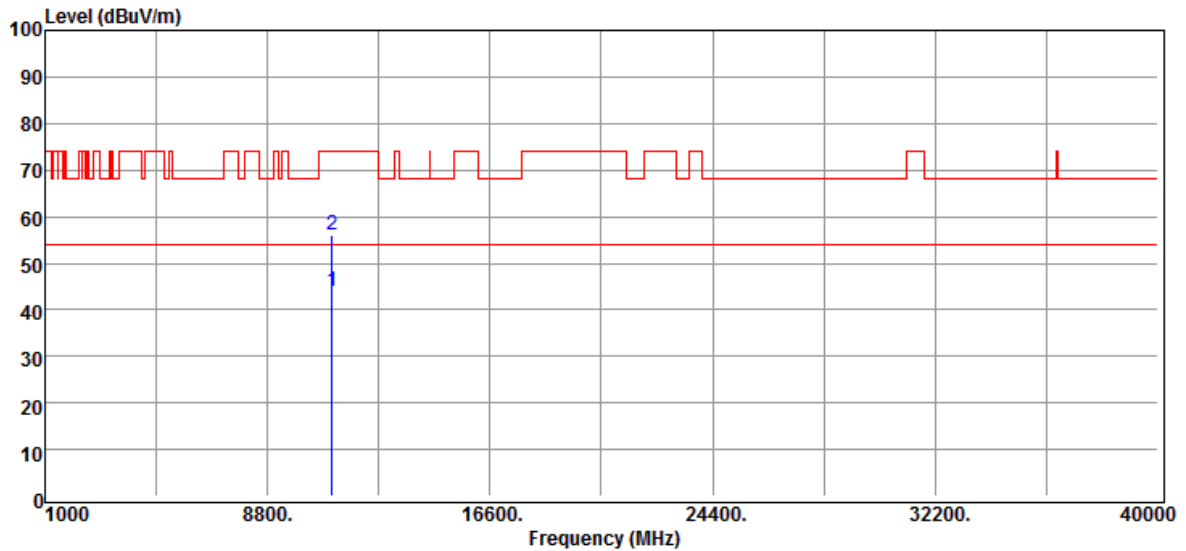
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Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5470~5725 MHz

Operation Mode	:802.11ac80 / Band 3	Test Date	:2018-05-24
Test Mode	:TX CH LOW	Temp./Humi.	:24/64
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5530 MHz	Engineer	:Enzo



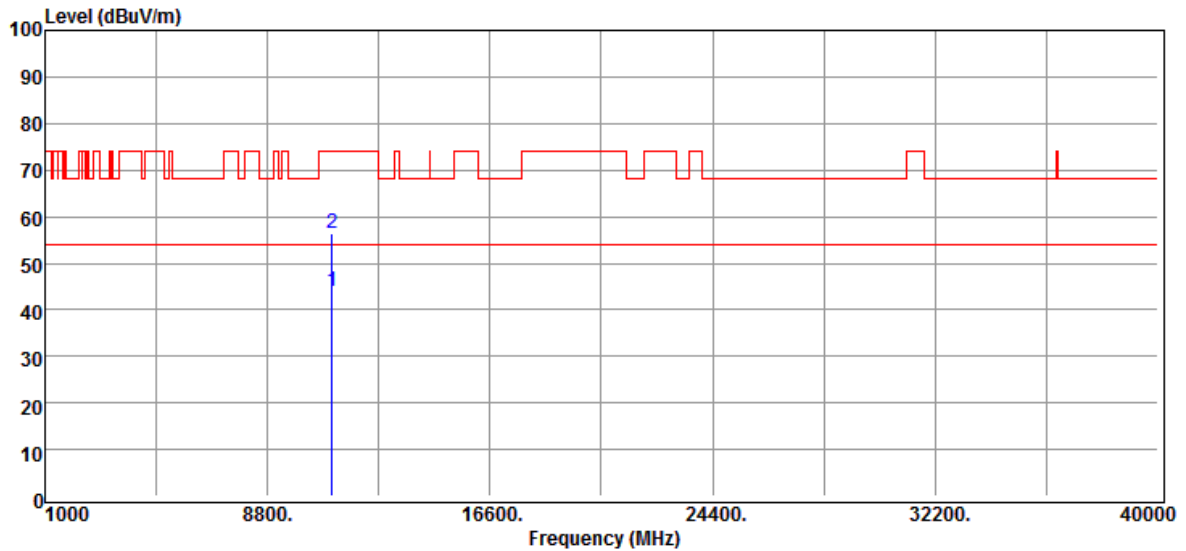
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11060.00	Average	16.97	26.94	43.91	54.00	-10.09
11060.00	Peak	29.24	26.94	56.18	74.00	-17.82

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Operation Mode	:802.11ac80 / Band 3	Test Date	:2018-05-24
Test Mode	:TX CH LOW	Temp./Humi.	:24/64
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5530 MHz	Engineer	:Enzo



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
11060.00	Average	16.96	26.94	43.90	54.00	-10.10
11060.00	Peak	29.37	26.94	56.31	74.00	-17.69

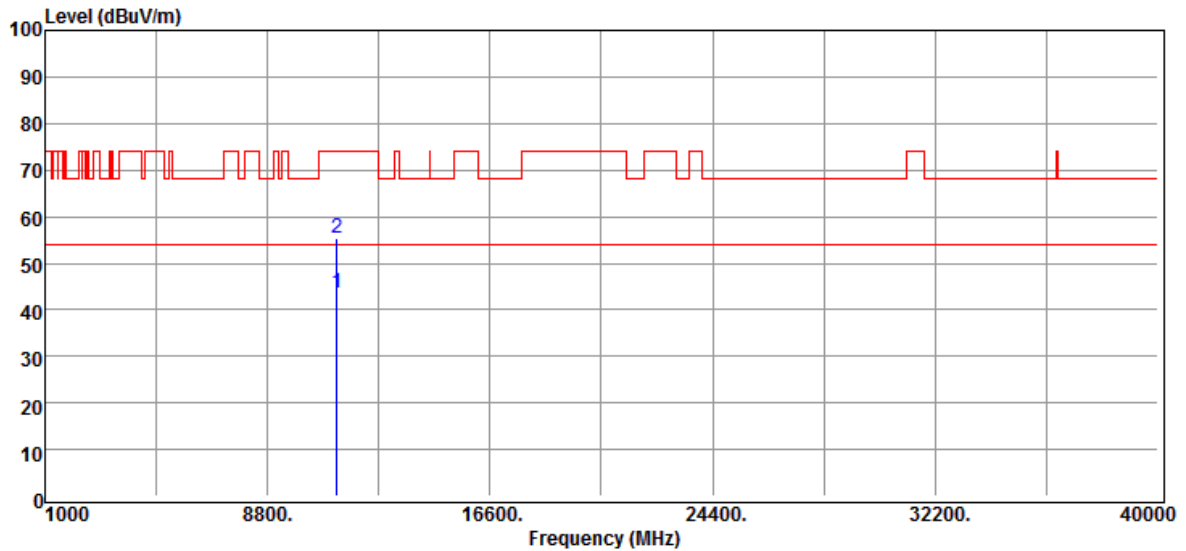
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Operation Mode :802.11ac80 / Band 3
 Test Mode :TX CH MID
 EUT Pol :E1 Plan
 Test Channel :5610 MHz

Test Date :2018-05-24
 Temp./Humi. :24/64
 Antenna Pol. :VERTICAL
 Engineer :Enzo



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
11220.00	Average	16.92	26.52	43.44	54.00	-10.56
11220.00	Peak	28.91	26.52	55.43	74.00	-18.57

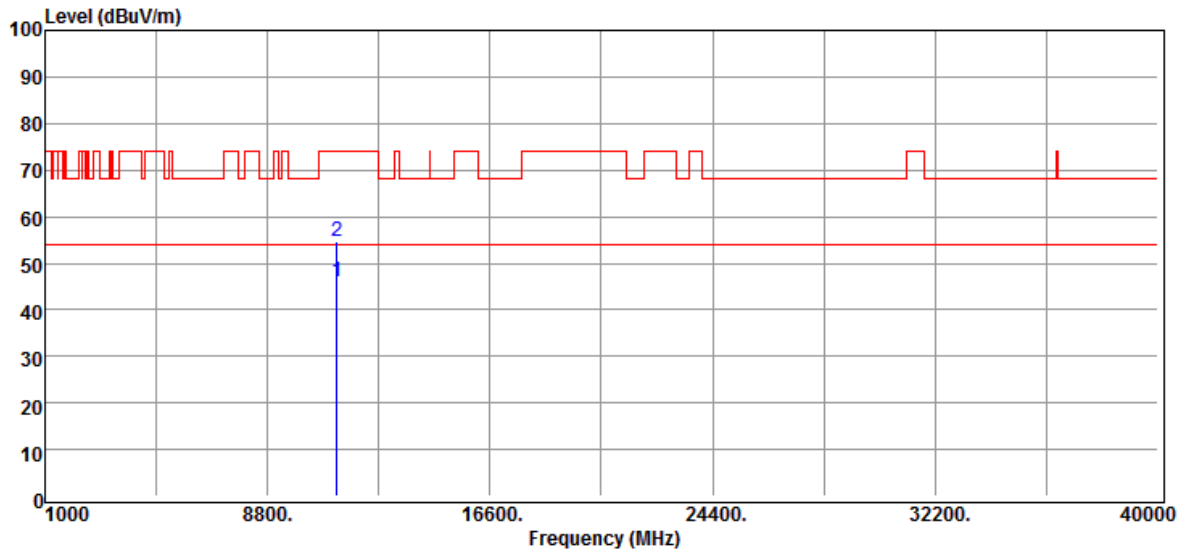
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Operation Mode :802.11ac80 / Band 3
 Test Mode :TX CH MID
 EUT Pol :E1 Plan
 Test Channel :5610 MHz

Test Date :2018-05-24
 Temp./Humi. :24/64
 Antenna Pol. :HORIZONTAL
 Engineer :Enzo



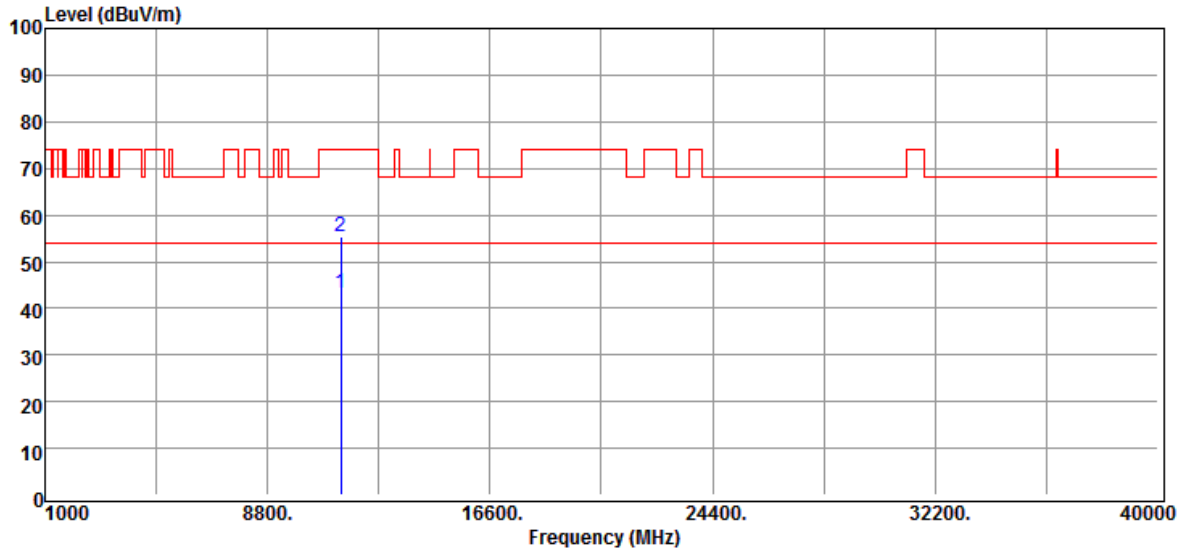
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11220.00	Average	19.61	26.52	46.13	54.00	-7.87
11220.00	Peak	28.18	26.52	54.70	74.00	-19.30

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Operation Mode	:802.11ac80 / Band 3	Test Date	:2018-05-24
Test Mode	:TX CH HIGH	Temp./Humi.	:24/64
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5690 MHz	Engineer	:Enzo



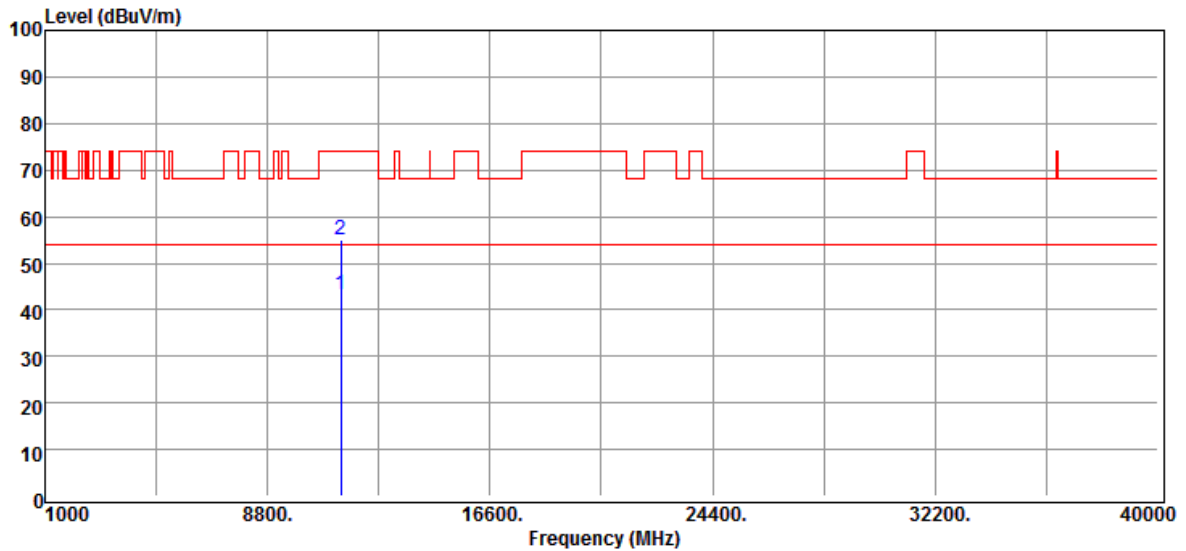
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11380.00	Average	17.11	26.11	43.22	54.00	-10.78
11380.00	Peak	29.28	26.11	55.39	74.00	-18.61

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Operation Mode	:802.11ac80 / Band 3	Test Date	:2018-05-24
Test Mode	:TX CH HIGH	Temp./Humi.	:24/64
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5690 MHz	Engineer	:Enzo



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
11380.00	Average	17.08	26.11	43.19	54.00	-10.81
11380.00	Peak	28.96	26.11	55.07	74.00	-18.93

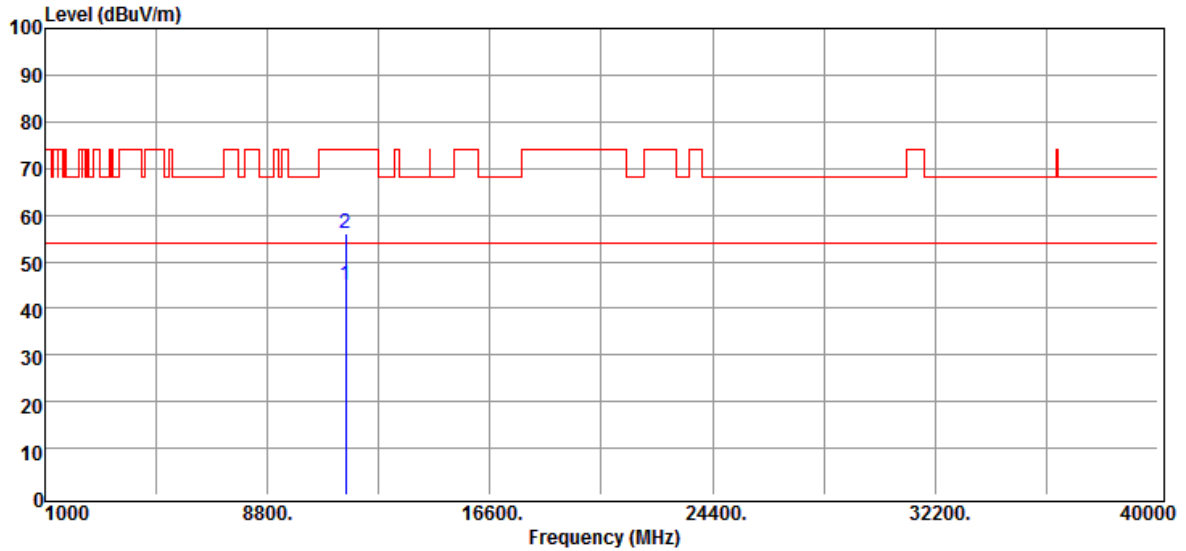
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Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5725~5850 MHz

Operation Mode	:802.11ac80 / Band 4	Test Date	:2018-05-24
Test Mode	:TX CH LOW	Temp./Humi.	:24/64
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5775 MHz	Engineer	:Enzo



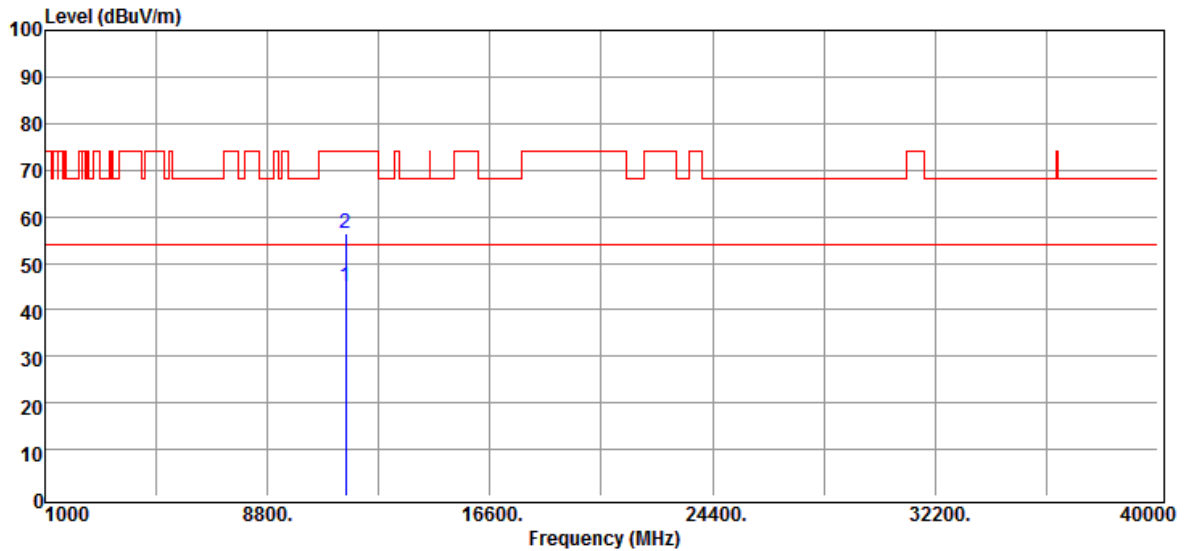
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11550.00	Average	19.06	25.85	44.91	54.00	-9.09
11550.00	Peak	30.11	25.85	55.96	74.00	-18.04

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Operation Mode	:802.11ac80 / Band 4	Test Date	:2018-05-24
Test Mode	:TX CH LOW	Temp./Humi.	:24/64
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5775 MHz	Engineer	:Enzo



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
11550.00	Average	19.10	25.85	44.95	54.00	-9.05
11550.00	Peak	30.43	25.85	56.28	74.00	-17.72

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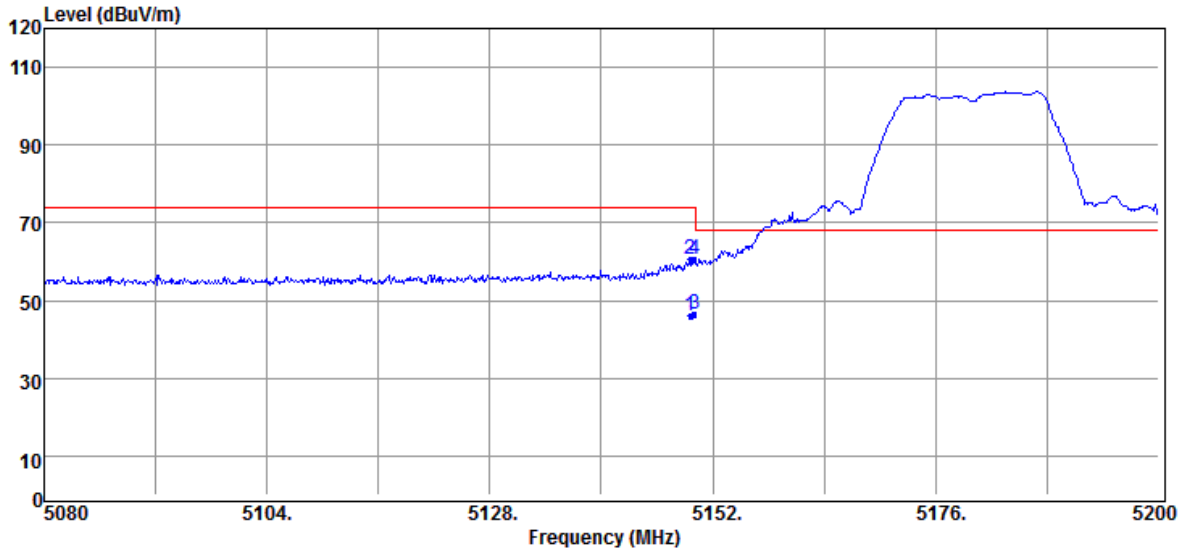
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Band edge falling to restricted band

802.11a mode

Operation Mode	:802.11a/Band 1	Test Date	:2018-05-28
Test Mode	:BE CH LOW	Temp./Humi.	:24/65
EUT Pol	:E1/Plan	Antenna Pol.	:VERTICAL
Test Channel	:5180 MHz	Engineer	:Ashton



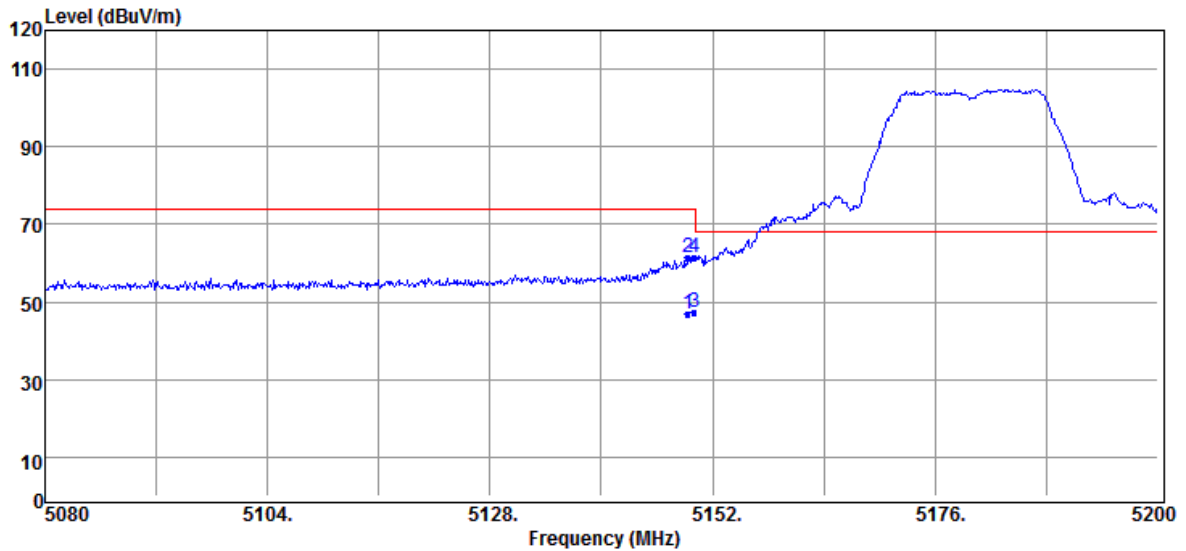
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
5149.60	Average	32.61	13.64	46.25	74.00	-27.75
5149.60	Peak	46.88	13.64	60.52	74.00	-13.48
5150.00	Average	32.70	13.65	46.35	74.00	-27.65
5150.00	Peak	46.87	13.65	60.52	74.00	-13.48

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Operation Mode	:802.11a/Band 1	Test Date	:2018-05-28
Test Mode	:BE CH LOW	Temp./Humi.	:24/65
EUT Pol	:E1/Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5180 MHz	Engineer	:Ashton



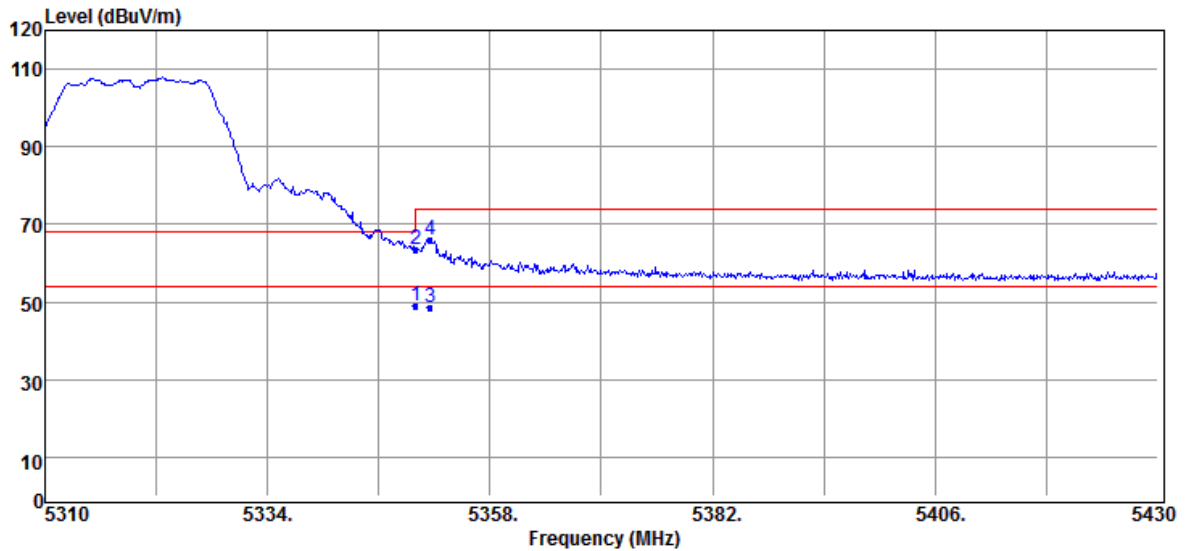
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
5149.36	Average	33.27	13.64	46.91	74.00	-27.09
5149.36	Peak	47.96	13.64	61.60	74.00	-12.40
5150.00	Average	33.48	13.65	47.13	74.00	-26.87
5150.00	Peak	47.83	13.65	61.48	74.00	-12.52

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Operation Mode	:802.11a/Band 2	Test Date	:2018-05-28
Test Mode	:BE CH HIGH	Temp./Humi.	:24/65
EUT Pol	:E1/Plan	Antenna Pol.	:VERTICAL
Test Channel	:5320 MHz	Engineer	:Ashton



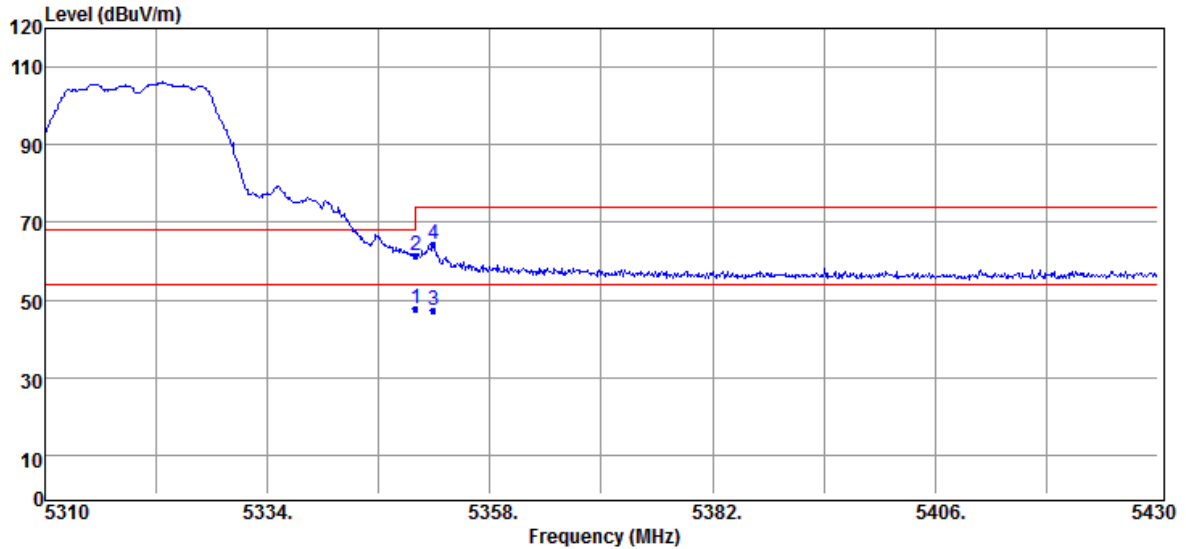
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
5350.00	Average	34.67	14.16	48.83	54.00	-5.17
5350.00	Peak	49.51	14.16	63.67	74.00	-10.33
5351.52	Average	34.25	14.17	48.42	54.00	-5.58
5351.52	Peak	52.02	14.17	66.19	74.00	-7.81

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Operation Mode	:802.11a/Band 2	Test Date	:2018-05-28
Test Mode	:BE CH HIGH	Temp./Humi.	:24/65
EUT Pol	:E1/Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5320 MHz	Engineer	:Ashton



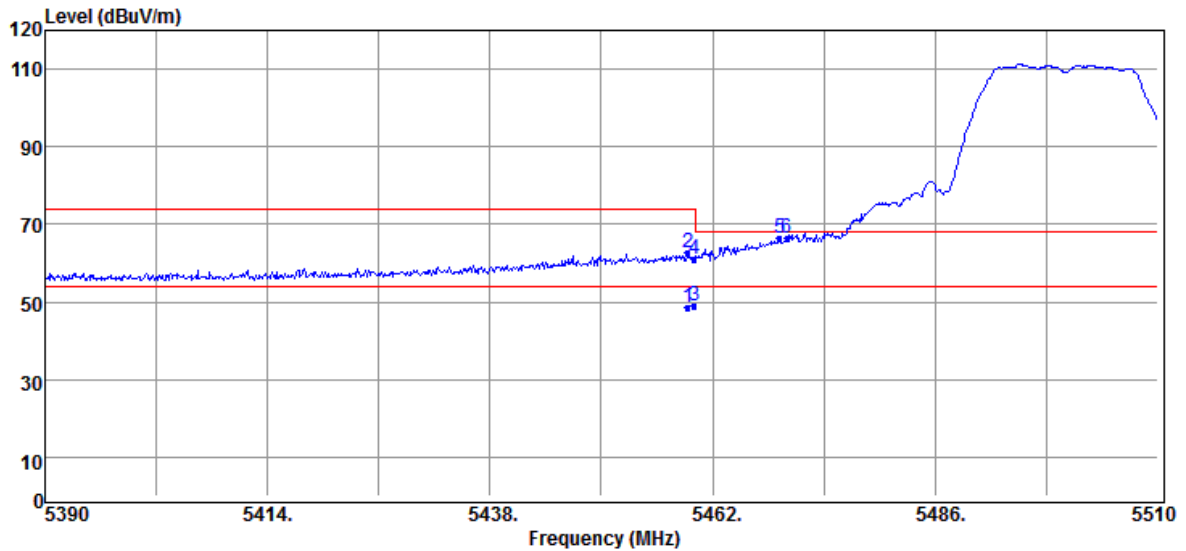
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
5350.00	Average	33.62	14.16	47.78	54.00	-6.22
5350.00	Peak	47.44	14.16	61.60	74.00	-12.40
5351.88	Average	33.06	14.17	47.23	54.00	-6.77
5351.88	Peak	50.01	14.17	64.18	74.00	-9.82

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Operation Mode	:802.11a/Band 3	Test Date	:2018-05-28
Test Mode	:BE CH LOW	Temp./Humi.	:24/65
EUT Pol	:E1/Plan	Antenna Pol.	:VERTICAL
Test Channel	:5500 MHz	Engineer	:Ashton



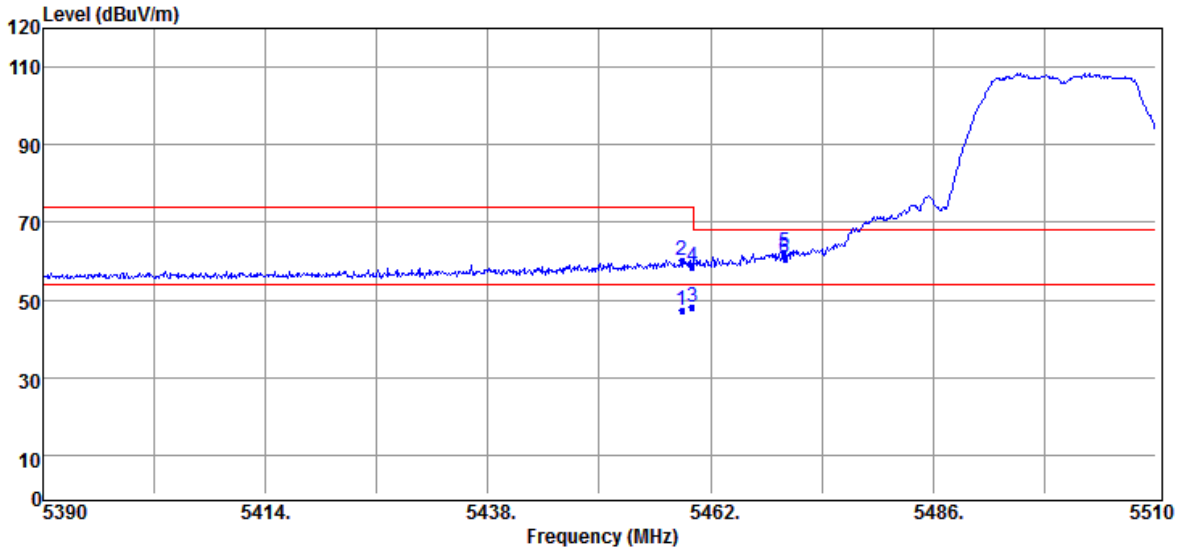
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5459.36	Average	34.35	14.31	48.66	54.00	-5.34
5459.36	Peak	48.39	14.31	62.70	74.00	-11.30
5460.00	Average	34.52	14.31	48.83	54.00	-5.17
5460.00	Peak	46.62	14.31	60.93	74.00	-13.07
5469.20	Peak	52.23	14.31	66.54	68.20	-1.66
5470.00	Peak	52.11	14.31	66.42	68.20	-1.78

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Operation Mode	:802.11a/Band 3	Test Date	:2018-05-28
Test Mode	:BE CH LOW	Temp./Humi.	:24/65
EUT Pol	:E1/Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5500 MHz	Engineer	:Ashton



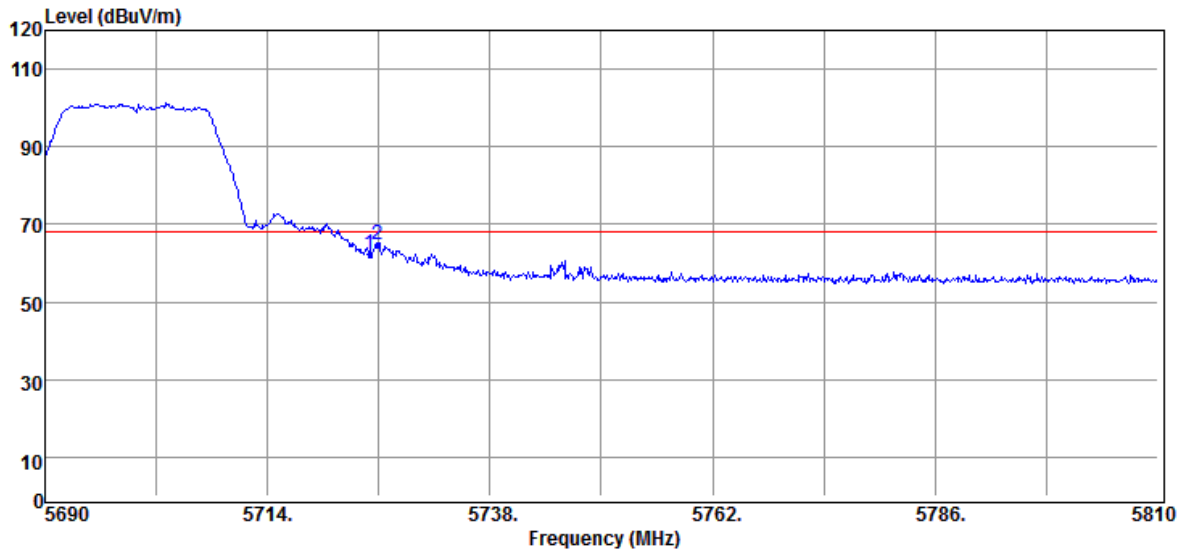
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
5458.88	Average	33.11	14.31	47.42	54.00	-6.58
5458.88	Peak	45.93	14.31	60.24	74.00	-13.76
5460.00	Average	33.70	14.31	48.01	54.00	-5.99
5460.00	Peak	44.27	14.31	58.58	74.00	-15.42
5469.92	Peak	48.08	14.31	62.39	68.20	-5.81
5470.00	Peak	46.18	14.31	60.49	68.20	-7.71

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Operation Mode	:802.11a/Band 3	Test Date	:2018-05-28
Test Mode	:BE CH HIGH	Temp./Humi.	:24/65
EUT Pol	:E1/Plan	Antenna Pol.	:VERTICAL
Test Channel	:5700 MHz	Engineer	:Ashton



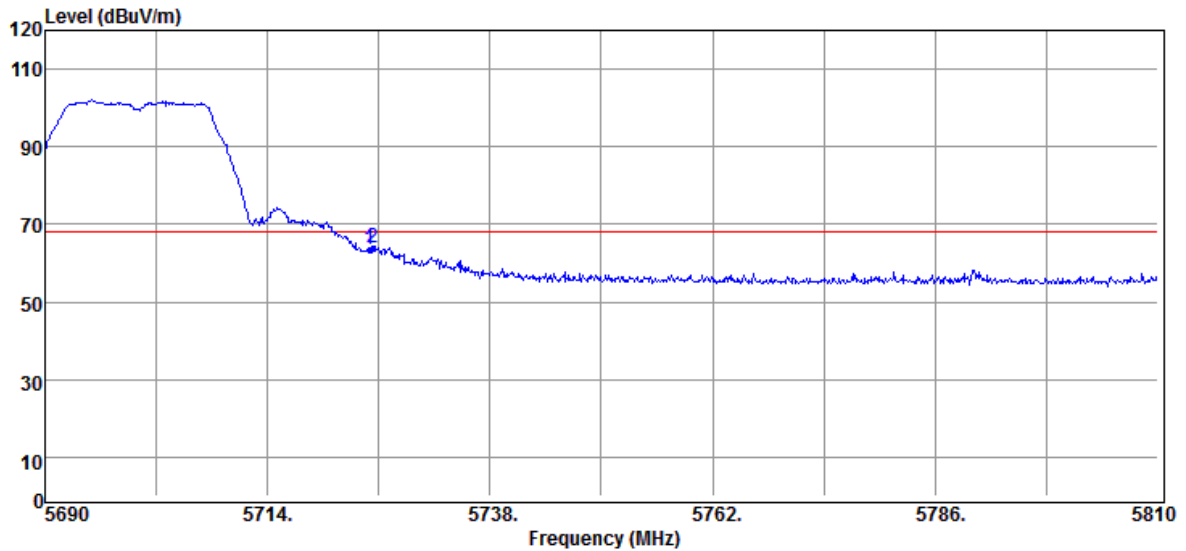
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
5725.00	Peak	47.99	14.50	62.49	68.20	-5.71
5725.88	Peak	50.28	14.50	64.78	68.20	-3.42

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Operation Mode	:802.11a/Band 3	Test Date	:2018-05-28
Test Mode	:BE CH HIGH	Temp./Humi.	:24/65
EUT Pol	:E1/Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5700 MHz	Engineer	:Ashton



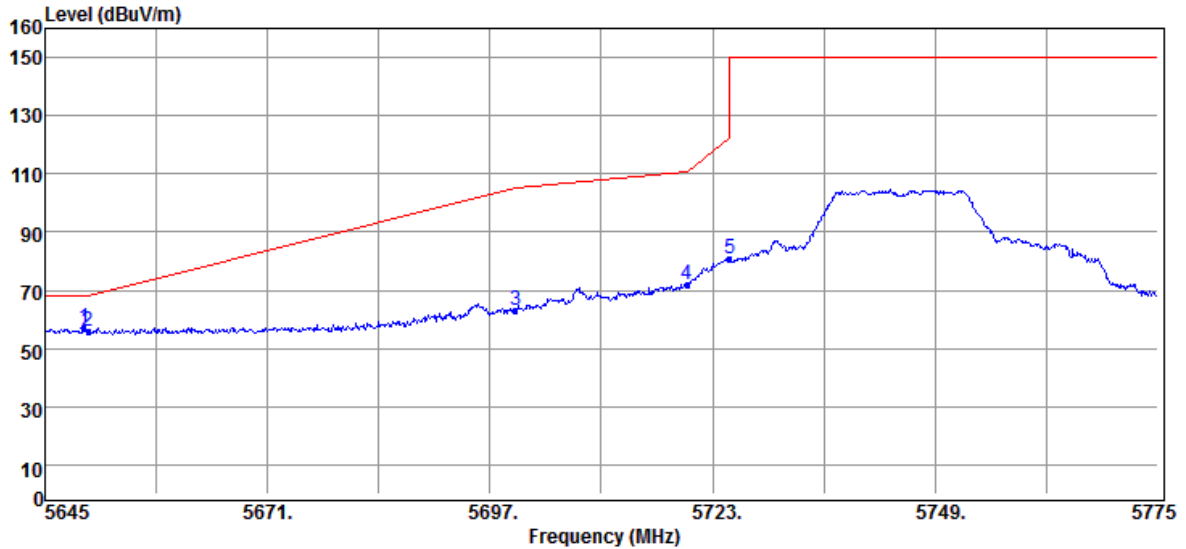
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
5725.00	Peak	49.00	14.50	63.50	68.20	-4.70
5725.40	Peak	49.64	14.50	64.14	68.20	-4.06

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Operation Mode	:802.11a/Band 4	Test Date	:2018-05-28
Test Mode	:BE CH LOW	Temp./Humi.	:24/65
EUT Pol	:E1/Plan	Antenna Pol.	:VERTICAL
Test Channel	:5745 MHz	Engineer	:Ashton



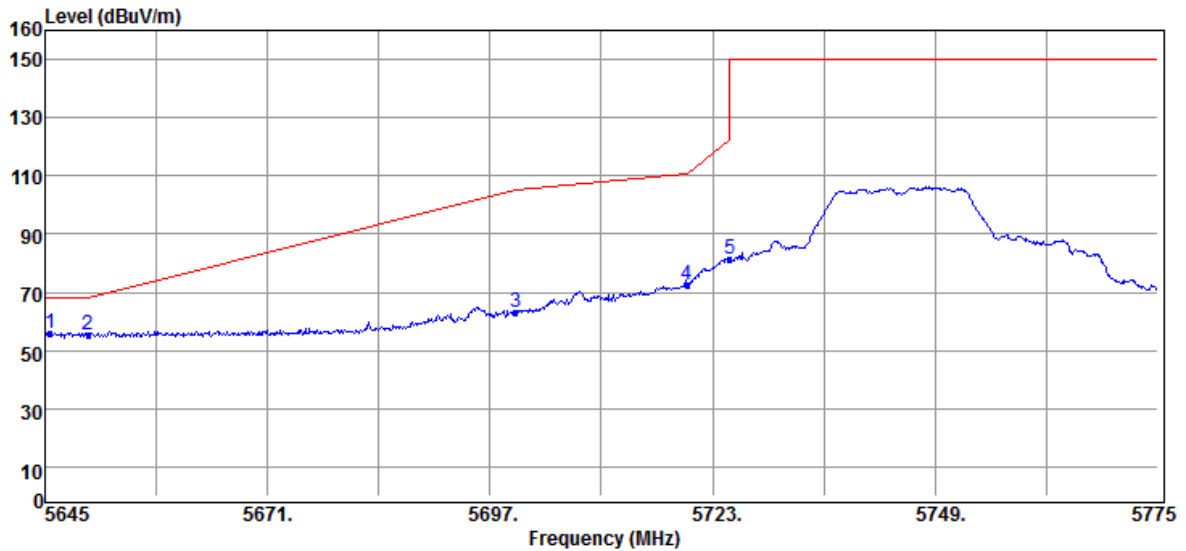
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5649.55	Peak	42.69	14.41	57.10	68.20	-11.10
5650.00	Peak	41.59	14.42	56.01	68.20	-12.19
5700.00	Peak	48.91	14.47	63.38	105.20	-41.82
5720.00	Peak	57.38	14.49	71.87	110.80	-38.93
5725.00	Peak	66.07	14.50	80.57	122.20	-41.63

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Operation Mode	:802.11a/Band 4	Test Date	:2018-05-28
Test Mode	:BE CH LOW	Temp./Humi.	:24/65
EUT Pol	:E1/Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5745 MHz	Engineer	:Ashton



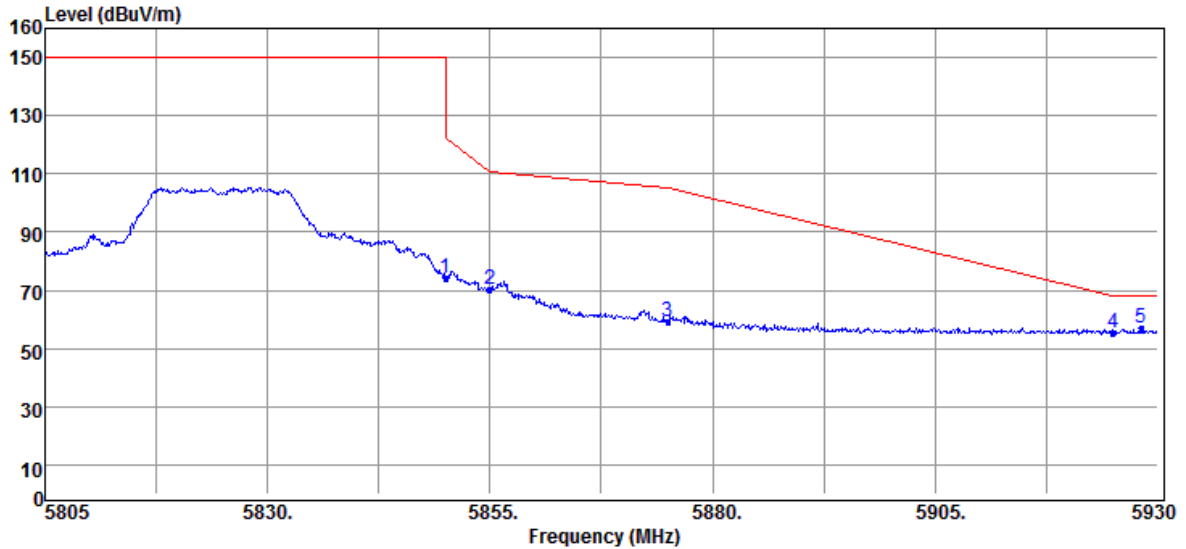
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5645.65	Peak	41.71	14.41	56.12	68.20	-12.08
5650.00	Peak	40.96	14.42	55.38	68.20	-12.82
5700.00	Peak	48.49	14.47	62.96	105.20	-42.24
5720.00	Peak	58.04	14.49	72.53	110.80	-38.27
5725.00	Peak	66.76	14.50	81.26	122.20	-40.94

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Operation Mode	:802.11a/Band 4	Test Date	:2018-05-28
Test Mode	:BE CH HIGH	Temp./Humi.	:24/65
EUT Pol	:E1/Plan	Antenna Pol.	:VERTICAL
Test Channel	:5825 MHz	Engineer	:Ashton



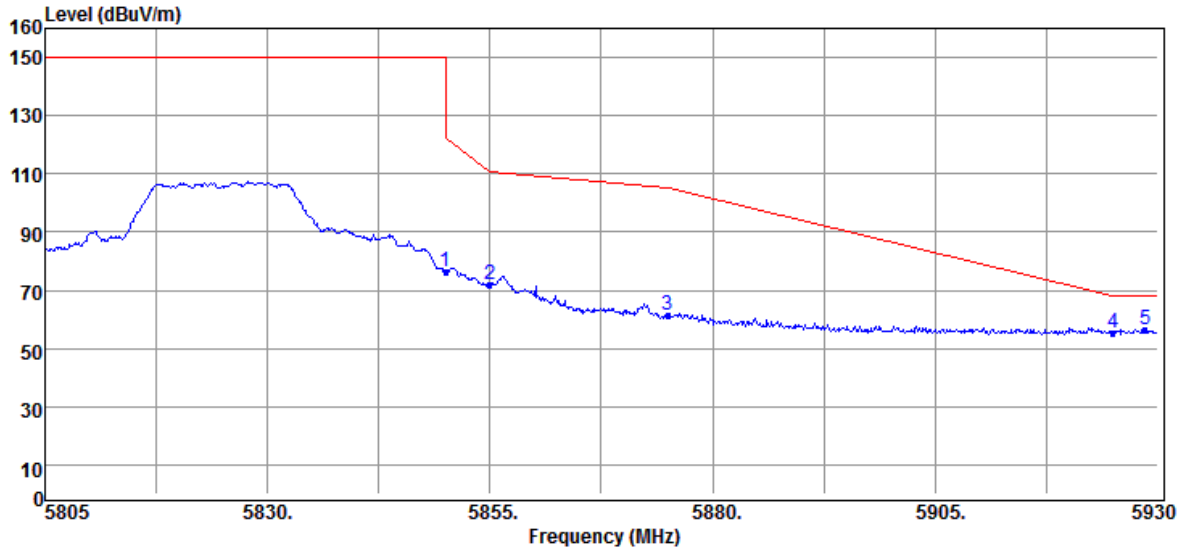
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5850.00	Peak	59.42	14.72	74.14	122.20	-48.06
5855.00	Peak	55.36	14.73	70.09	110.80	-40.71
5875.00	Peak	44.46	14.78	59.24	105.20	-45.96
5925.00	Peak	40.51	14.91	55.42	68.20	-12.78
5928.13	Peak	41.82	14.93	56.75	68.20	-11.45

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Operation Mode	:802.11a/Band 4	Test Date	:2018-05-28
Test Mode	:BE CH HIGH	Temp./Humi.	:24/65
EUT Pol	:E1/Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5825 MHz	Engineer	:Ashton



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
5850.00	Peak	61.41	14.72	76.13	122.20	-46.07
5855.00	Peak	57.20	14.73	71.93	110.80	-38.87
5875.00	Peak	46.40	14.78	61.18	105.20	-44.02
5925.00	Peak	40.42	14.91	55.33	68.20	-12.87
5928.63	Peak	41.58	14.93	56.51	68.20	-11.69

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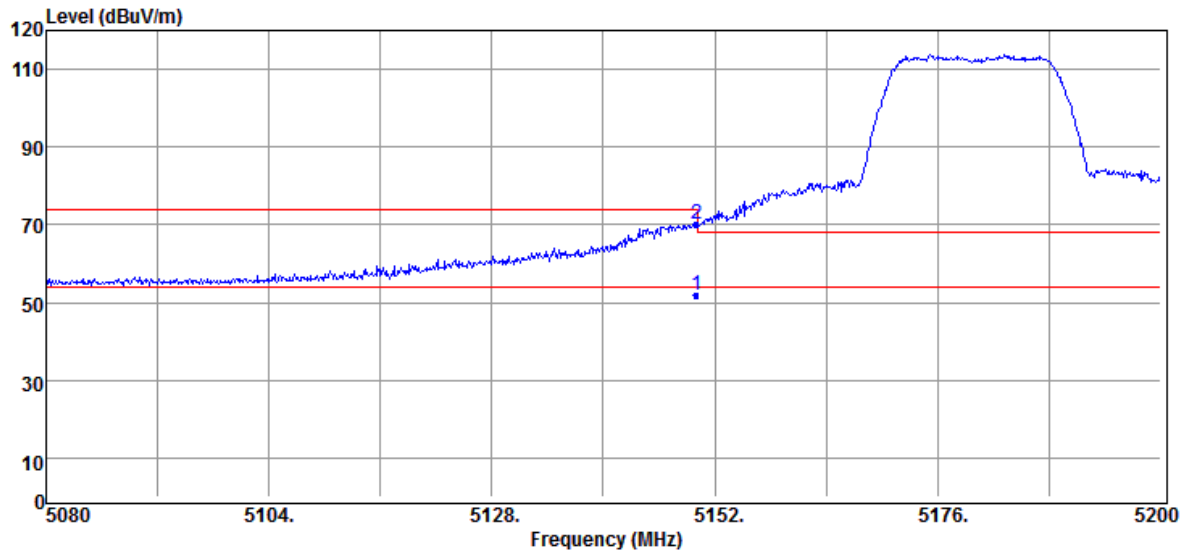
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802.11n20 HT mode

Operation Mode :802.11n20/Band 1
 Test Mode :BE CH LOW
 EUT Pol :E1/Plan
 Test Channel :5180 MHz

Test Date :2018-05-23
 Temp./Humi. :24/65
 Antenna Pol. :HORIZONTAL
 Engineer :Ashton



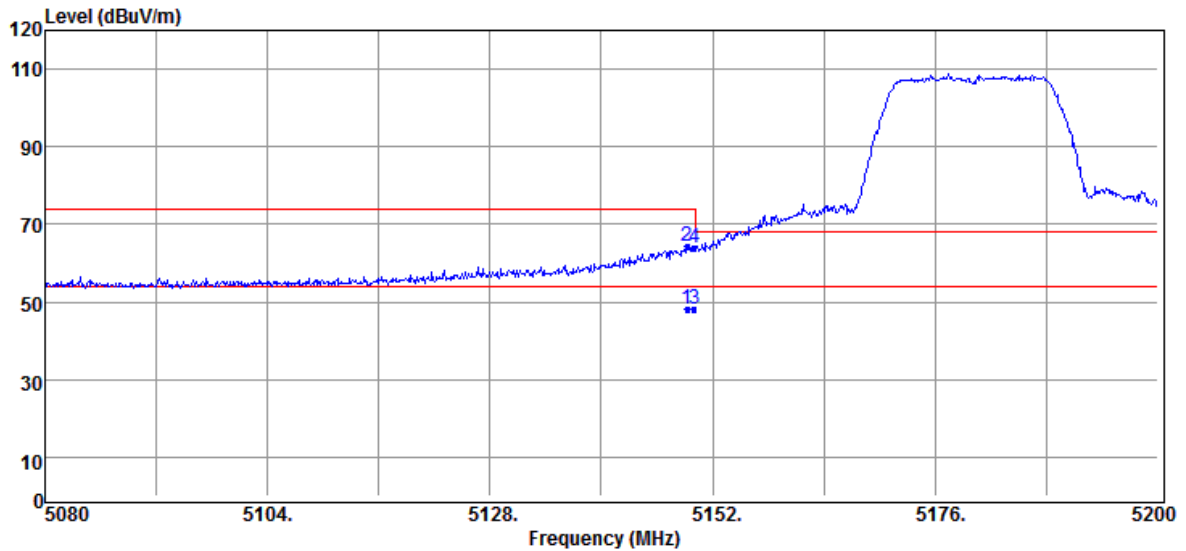
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
5150.00	Average	38.06	13.65	51.71	54.00	-2.29
5150.00	Peak	56.60	13.65	70.25	74.00	-3.75

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Operation Mode	:802.11n20/Band 1	Test Date	:2018-05-23
Test Mode	:BE CH LOW	Temp./Humi.	:24/65
EUT Pol	:E1/Plan	Antenna Pol.	:VERTICAL
Test Channel	:5180 MHz	Engineer	:Ashton



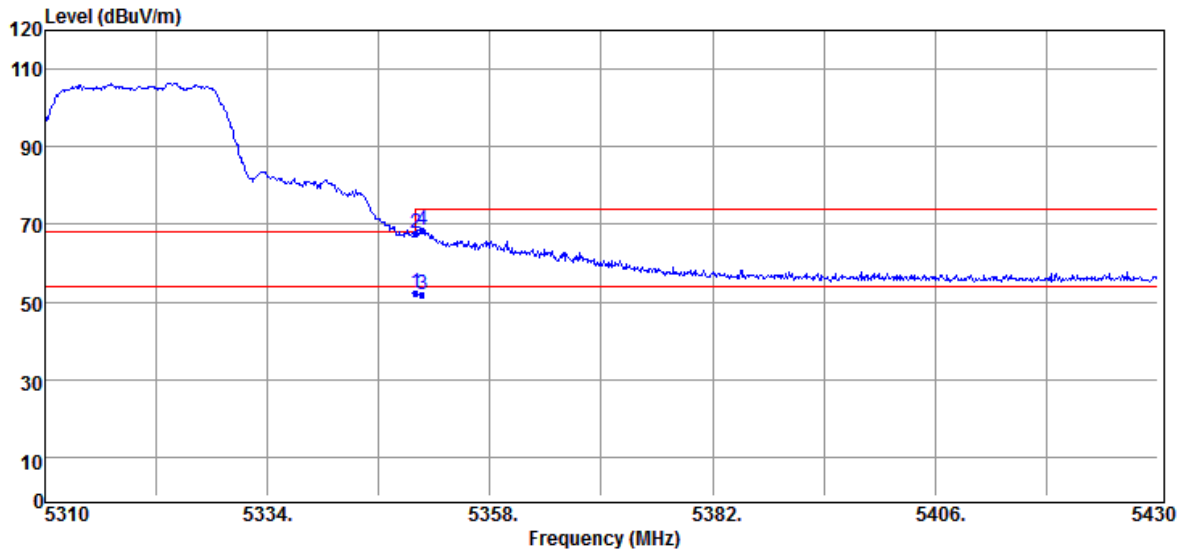
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
5149.24	Average	34.39	13.63	48.02	54.00	-5.98
5149.24	Peak	50.60	13.63	64.23	74.00	-9.77
5150.00	Average	34.66	13.65	48.31	54.00	-5.69
5150.00	Peak	50.17	13.65	63.82	74.00	-10.18

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Operation Mode	:802.11n20/Band 2	Test Date	:2018-05-23
Test Mode	:BE CH HIGH	Temp./Humi.	:24/65
EUT Pol	:E1/Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5320 MHz	Engineer	:Enzo



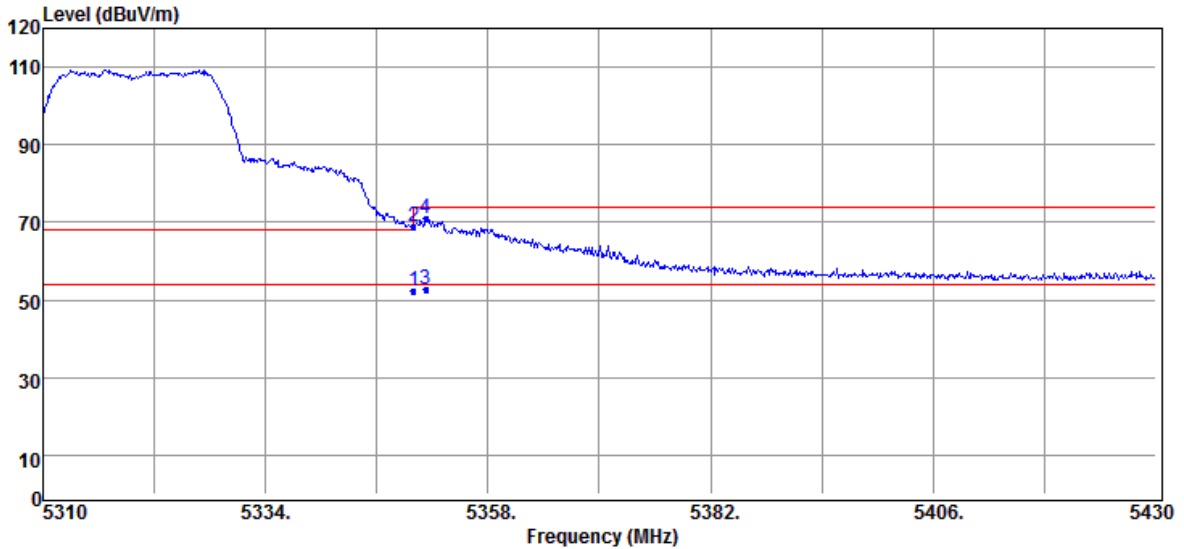
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
5350.00	Average	38.20	14.16	52.36	54.00	-1.64
5350.00	Peak	53.71	14.16	67.87	74.00	-6.13
5350.68	Average	37.75	14.17	51.92	54.00	-2.08
5350.68	Peak	54.50	14.17	68.67	74.00	-5.33

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Operation Mode	:802.11n20/Band 2	Test Date	:2018-05-23
Test Mode	:BE CH HIGH	Temp./Humi.	:24/65
EUT Pol	:E1/Plan	Antenna Pol.	:VERTICAL
Test Channel	:5320 MHz	Engineer	:Enzo



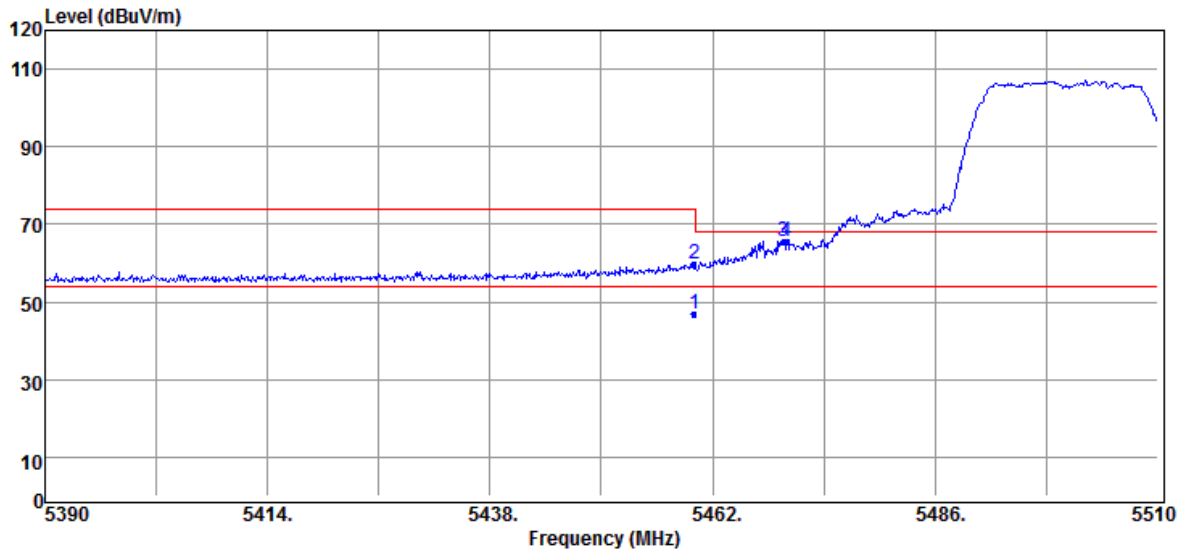
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
5350.00	Average	38.12	14.16	52.28	54.00	-1.72
5350.00	Peak	54.68	14.16	68.84	74.00	-5.16
5351.28	Average	38.75	14.17	52.92	54.00	-1.08
5351.28	Peak	56.89	14.17	71.06	74.00	-2.94

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Operation Mode	:802.11n20/Band 3	Test Date	:2018-05-23
Test Mode	:BE CH LOW	Temp./Humi.	:24/65
EUT Pol	:E1/Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5500 MHz	Engineer	:Enzo



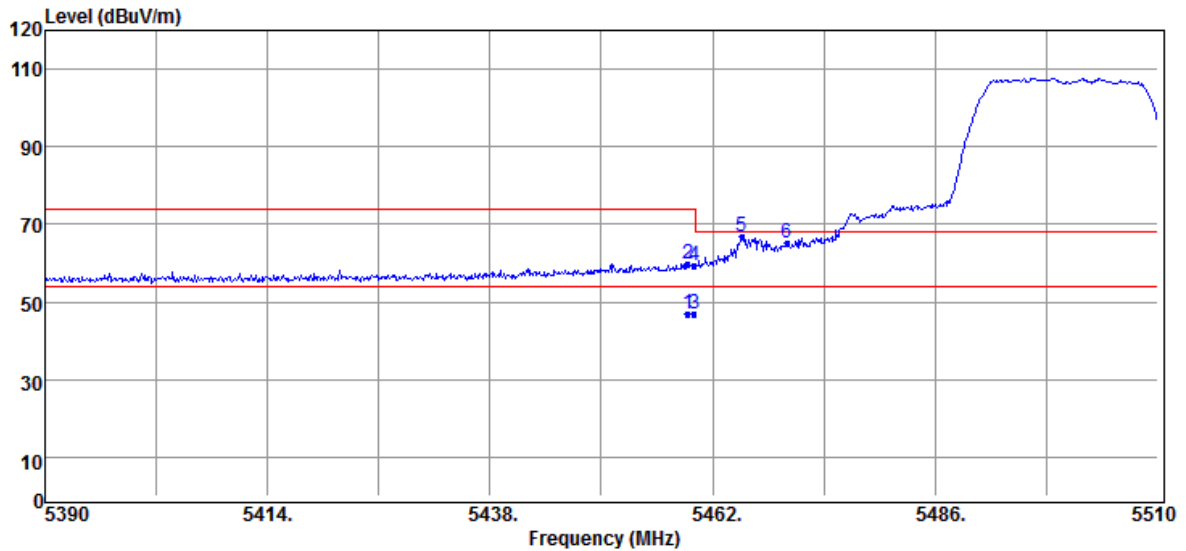
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
5460.00	Average	32.42	14.31	46.73	54.00	-7.27
5460.00	Peak	45.58	14.31	59.89	74.00	-14.11
5469.68	Peak	51.48	14.31	65.79	68.20	-2.41
5470.00	Peak	51.43	14.31	65.74	68.20	-2.46

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Operation Mode	:802.11n20/Band 3	Test Date	:2018-05-23
Test Mode	:BE CH LOW	Temp./Humi.	:24/65
EUT Pol	:E1/Plan	Antenna Pol.	:VERTICAL
Test Channel	:5500 MHz	Engineer	:Enzo



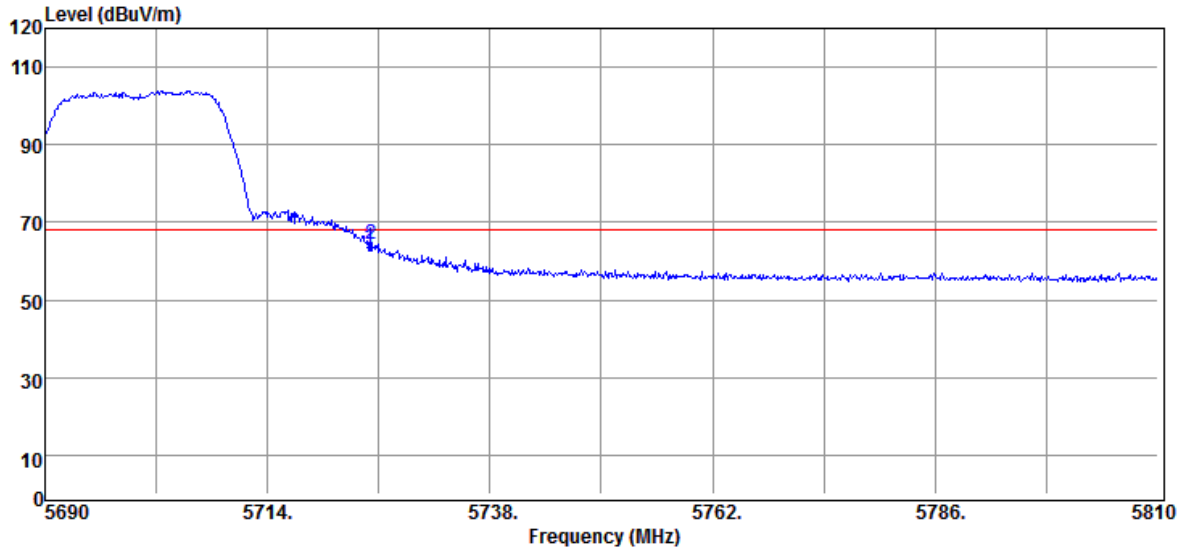
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
5459.36	Average	32.63	14.31	46.94	54.00	-7.06
5459.36	Peak	45.49	14.31	59.80	74.00	-14.20
5460.00	Average	32.66	14.31	46.97	54.00	-7.03
5460.00	Peak	45.06	14.31	59.37	74.00	-14.63
5465.12	Peak	52.53	14.32	66.85	68.20	-1.35
5470.00	Peak	50.69	14.31	65.00	68.20	-3.20

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Operation Mode	:802.11n20/Band 3	Test Date	:2018-05-23
Test Mode	:BE CH HIGH	Temp./Humi.	:24/65
EUT Pol	:E1/Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5700 MHz	Engineer	:Enzo



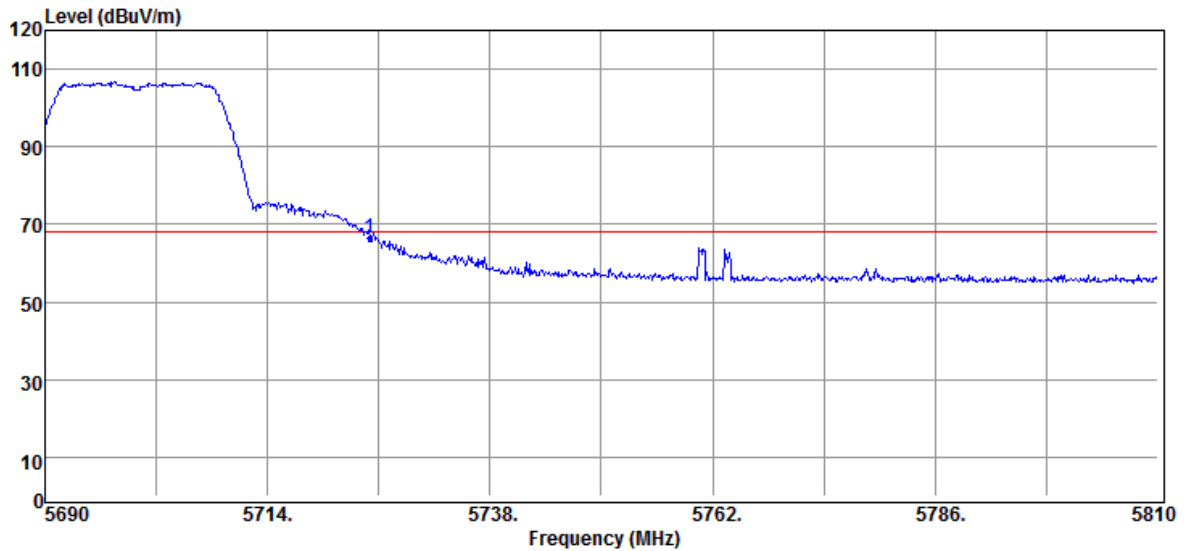
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
5725.00	Peak	49.03	14.50	63.53	68.20	-4.67
5725.16	Peak	49.75	14.50	64.25	68.20	-3.95

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Operation Mode	:802.11n20/Band 3	Test Date	:2018-05-23
Test Mode	:BE CH HIGH	Temp./Humi.	:24/65
EUT Pol	:E1/Plan	Antenna Pol.	:VERTICAL
Test Channel	:5700 MHz	Engineer	:Enzo



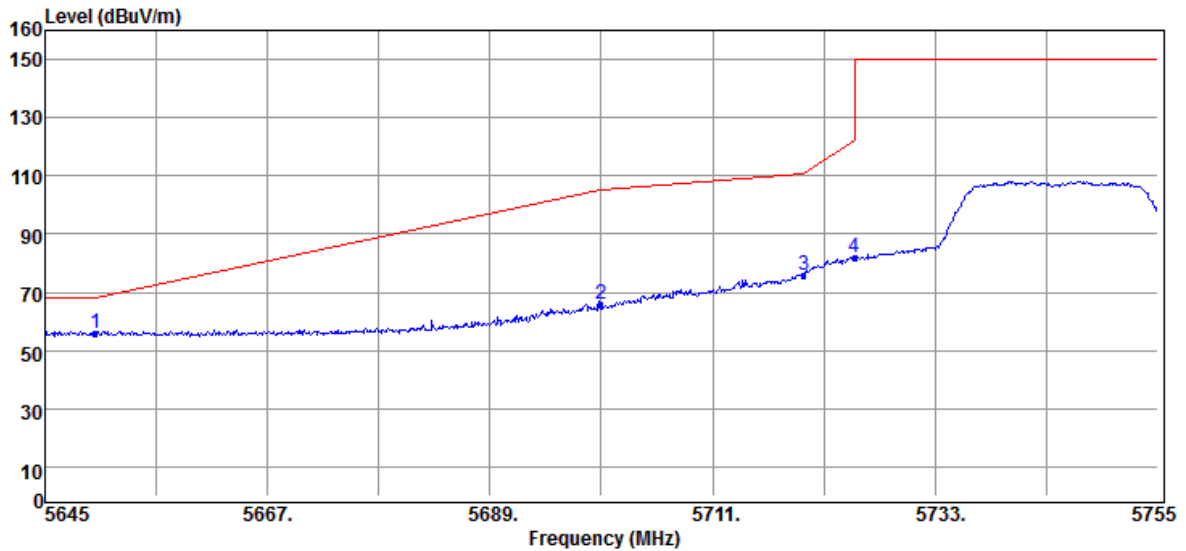
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
5725.00	Peak	52.10	14.50	66.60	68.20	-1.60

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Operation Mode	:802.11n20/Band 4	Test Date	:2018-05-23
Test Mode	:BE CH LOW	Temp./Humi.	:24/65
EUT Pol	:E1/Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5745 MHz	Engineer	:Enzo



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
5650.00	Peak	41.56	14.42	55.98	68.20	-12.22
5700.00	Peak	51.36	14.47	65.83	105.20	-39.37
5720.00	Peak	61.57	14.49	76.06	110.80	-34.74
5725.00	Peak	67.47	14.50	81.97	122.20	-40.23

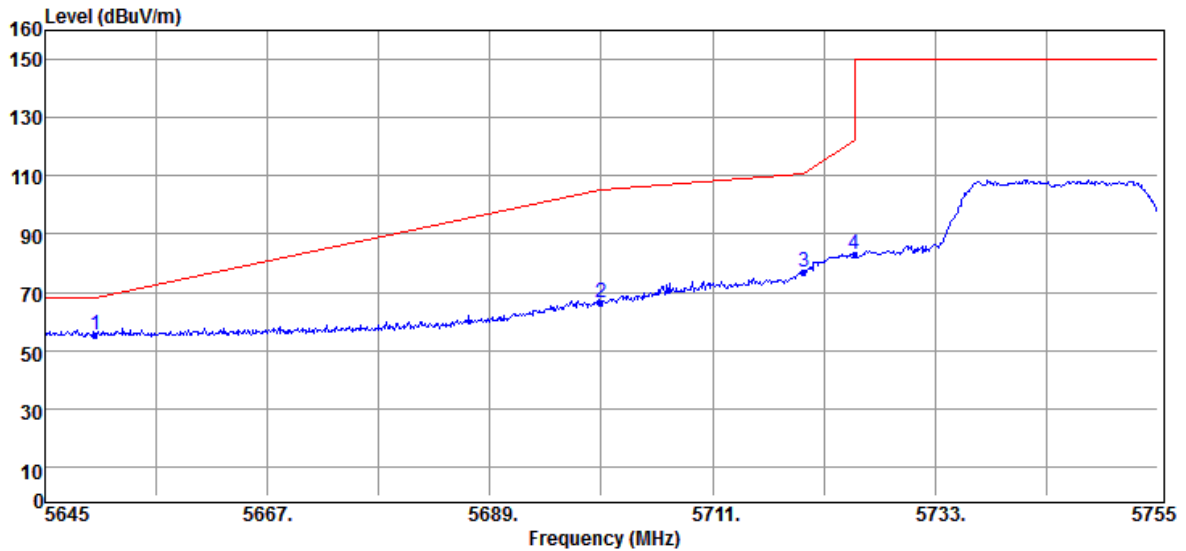
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Operation Mode :802.11n20/Band 4
Test Mode :BE CH LOW
EUT Pol :E1/Plan
Test Channel :5745 MHz

Test Date :2018-05-23
Temp./Humi. :24/65
Antenna Pol. :VERTICAL
Engineer :Enzo



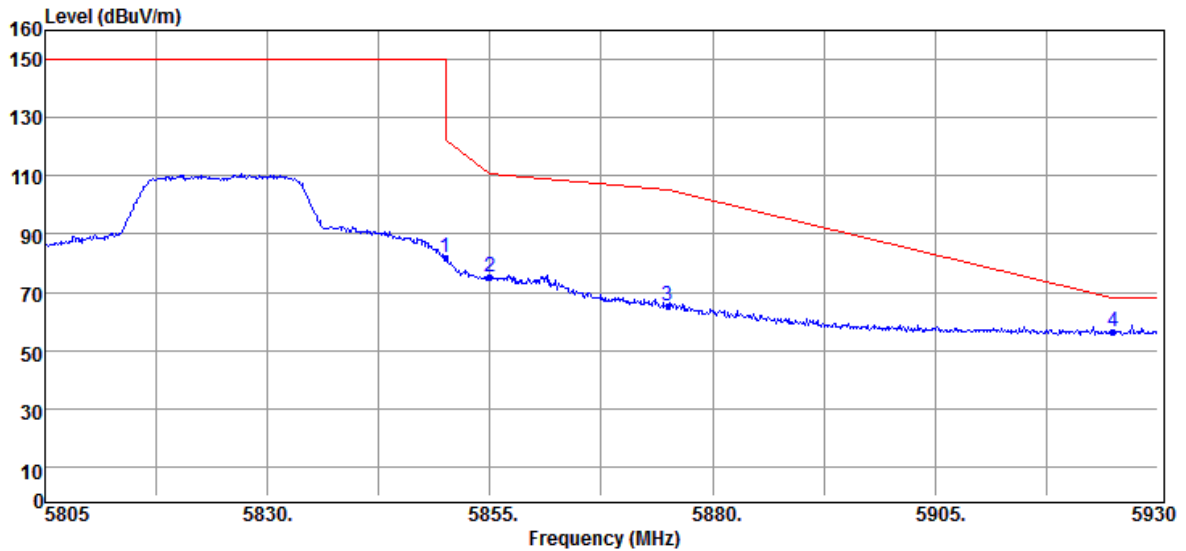
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
5650.00	Peak	41.17	14.42	55.59	68.20	-12.61
5700.00	Peak	51.82	14.47	66.29	105.20	-38.91
5720.00	Peak	62.41	14.49	76.90	110.80	-33.90
5725.00	Peak	68.43	14.50	82.93	122.20	-39.27

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Operation Mode	:802.11n20/Band 4	Test Date	:2018-05-23
Test Mode	:BE CH HIGH	Temp./Humi.	:24/65
EUT Pol	:E1/Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5825 MHz	Engineer	:Enzo



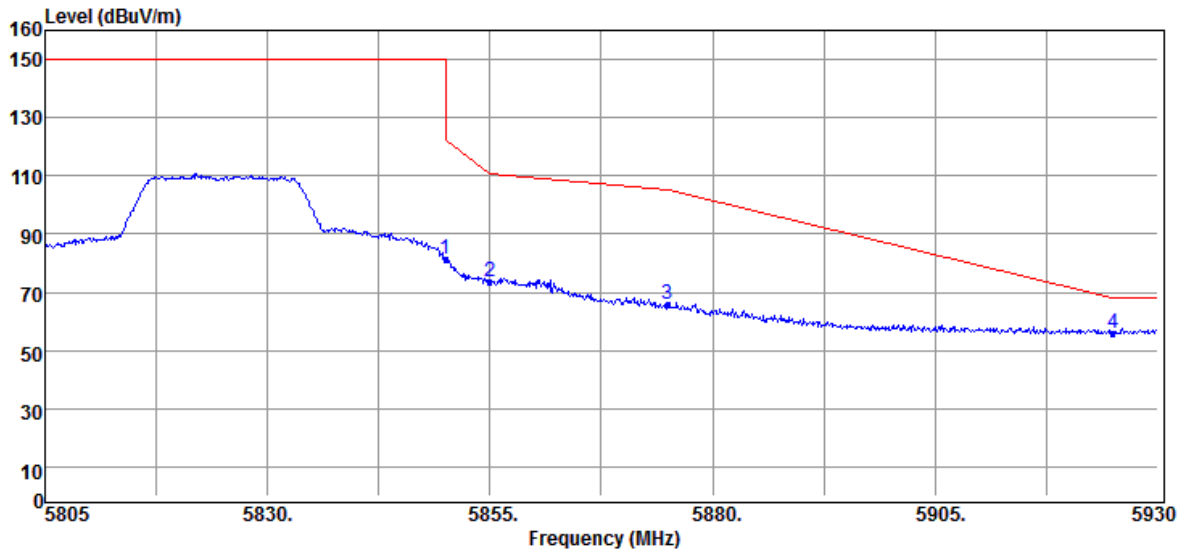
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5850.00	Peak	67.35	14.72	82.07	122.20	-40.13
5855.00	Peak	60.40	14.73	75.13	110.80	-35.67
5875.00	Peak	50.41	14.78	65.19	105.20	-40.01
5925.00	Peak	41.35	14.91	56.26	68.20	-11.94

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Operation Mode	:802.11n20/Band 4	Test Date	:2018-05-23
Test Mode	:BE CH HIGH	Temp./Humi.	:24/65
EUT Pol	:E1/Plan	Antenna Pol.	:VERTICAL
Test Channel	:5825 MHz	Engineer	:Enzo



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
5850.00	Peak	66.78	14.72	81.50	122.20	-40.70
5855.00	Peak	58.88	14.73	73.61	110.80	-37.19
5875.00	Peak	51.12	14.78	65.90	105.20	-39.30
5925.00	Peak	40.89	14.91	55.80	68.20	-12.40

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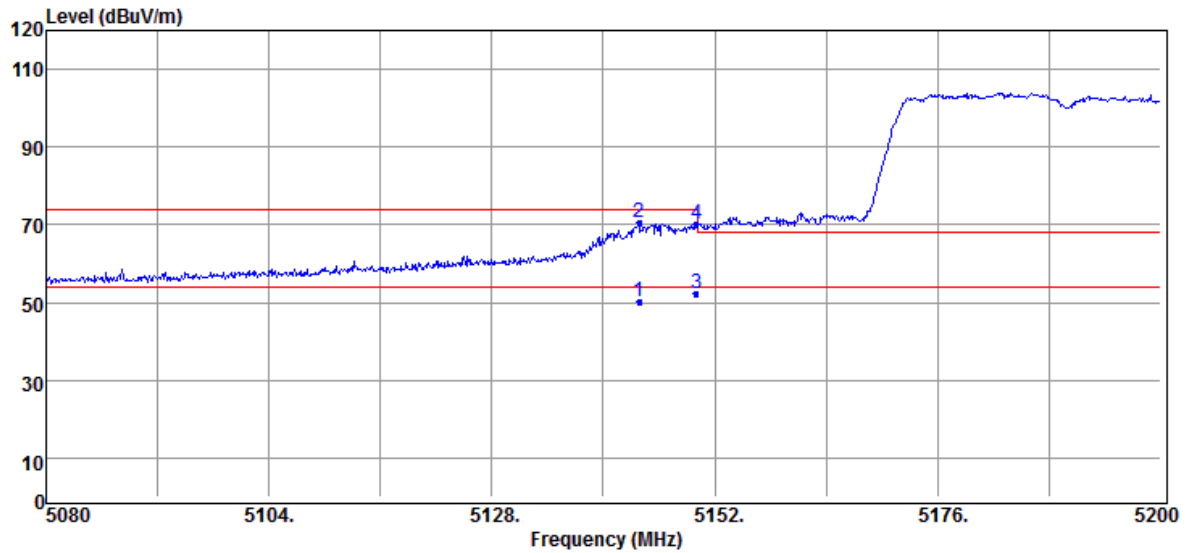
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802.11n40 HT mode

Operation Mode :802.11n40/Band 1
 Test Mode :BE CH LOW
 EUT Pol :E1/Plan
 Test Channel :5190 MHz

Test Date :2018-05-22
 Temp./Humi. :24/65
 Antenna Pol. :HORIZONTAL
 Engineer :Enzo



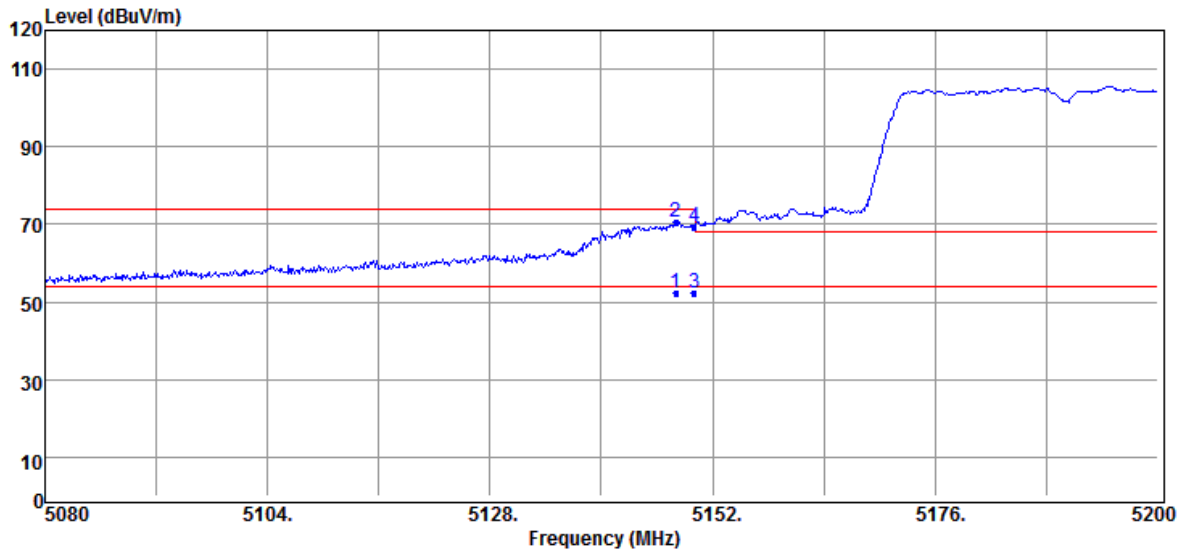
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
5143.84	Average	36.69	13.62	50.31	54.00	-3.69
5143.84	Peak	56.80	13.62	70.42	74.00	-3.58
5150.00	Average	38.60	13.65	52.25	54.00	-1.75
5150.00	Peak	56.32	13.65	69.97	74.00	-4.03

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Operation Mode	:802.11n40/Band 1	Test Date	:2018-05-22
Test Mode	:BE CH LOW	Temp./Humi.	:24/65
EUT Pol	:E1/Plan	Antenna Pol.	:VERTICAL
Test Channel	:5190 MHz	Engineer	:Enzo



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
5148.04	Average	38.83	13.63	52.46	54.00	-1.54
5148.04	Peak	57.12	13.63	70.75	74.00	-3.25
5150.00	Average	38.72	13.65	52.37	54.00	-1.63
5150.00	Peak	55.82	13.65	69.47	74.00	-4.53

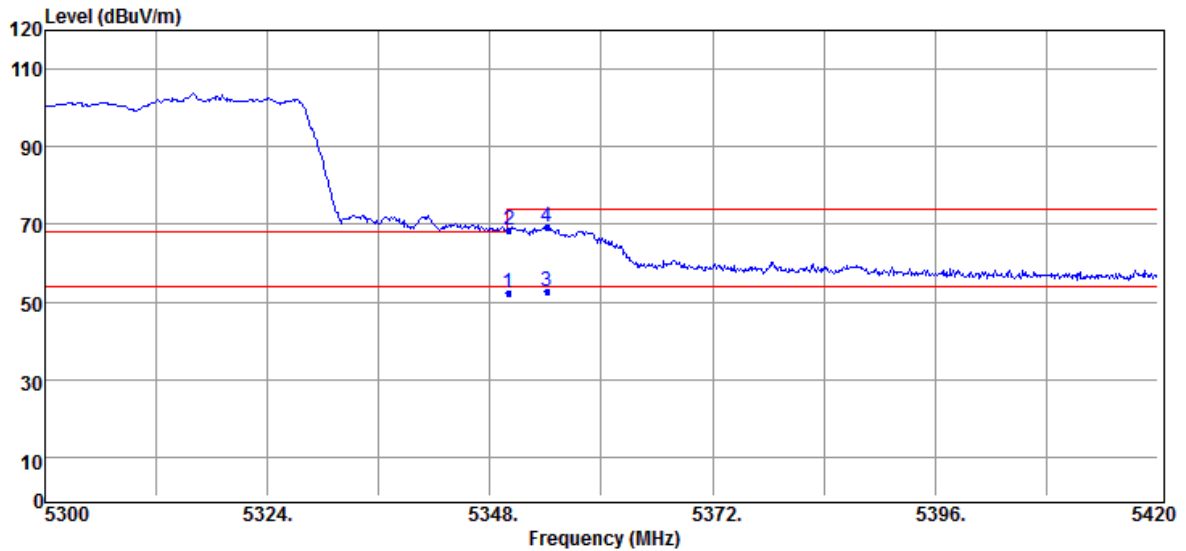
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Operation Mode :802.11n40/Band 2
Test Mode :BE CH HIGH
EUT Pol :E1/Plan
Test Channel :5310 MHz

Test Date :2018-05-23
Temp./Humi. :24/65
Antenna Pol. :HORIZONTAL
Engineer :Enzo



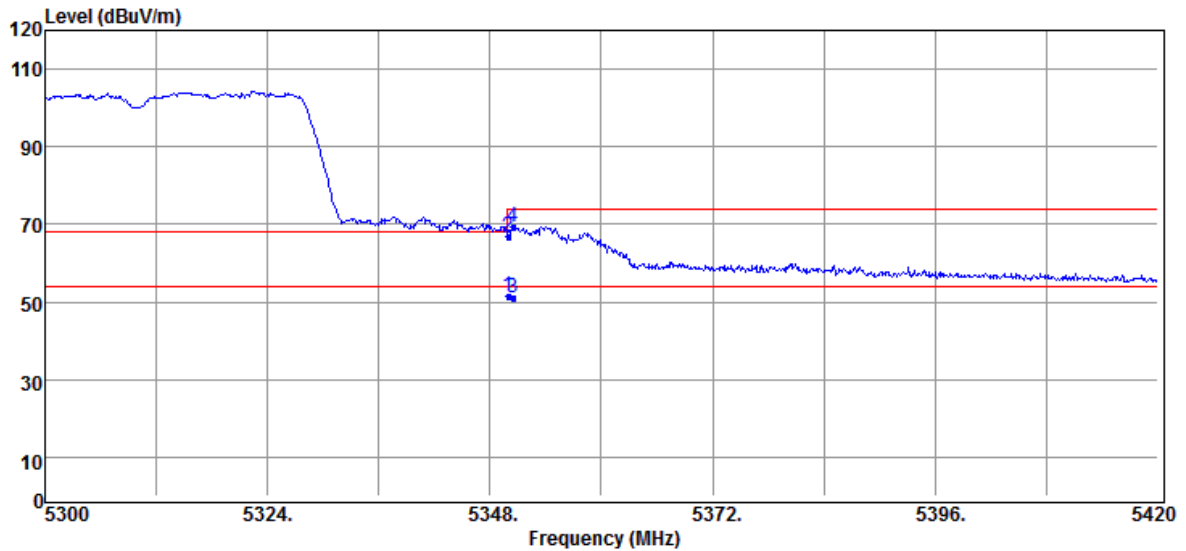
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5350.00	Average	38.07	14.16	52.23	54.00	-1.77
5350.04	Peak	54.17	14.16	68.33	74.00	-5.67
5354.12	Average	38.56	14.18	52.74	54.00	-1.26
5354.12	Peak	55.18	14.18	69.36	74.00	-4.64

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Operation Mode	:802.11n40/Band 2	Test Date	:2018-05-22
Test Mode	:BE CH HIGH	Temp./Humi.	:24/65
EUT Pol	:E1/Plan	Antenna Pol.	:VERTICAL
Test Channel	:5310 MHz	Engineer	:Enzo



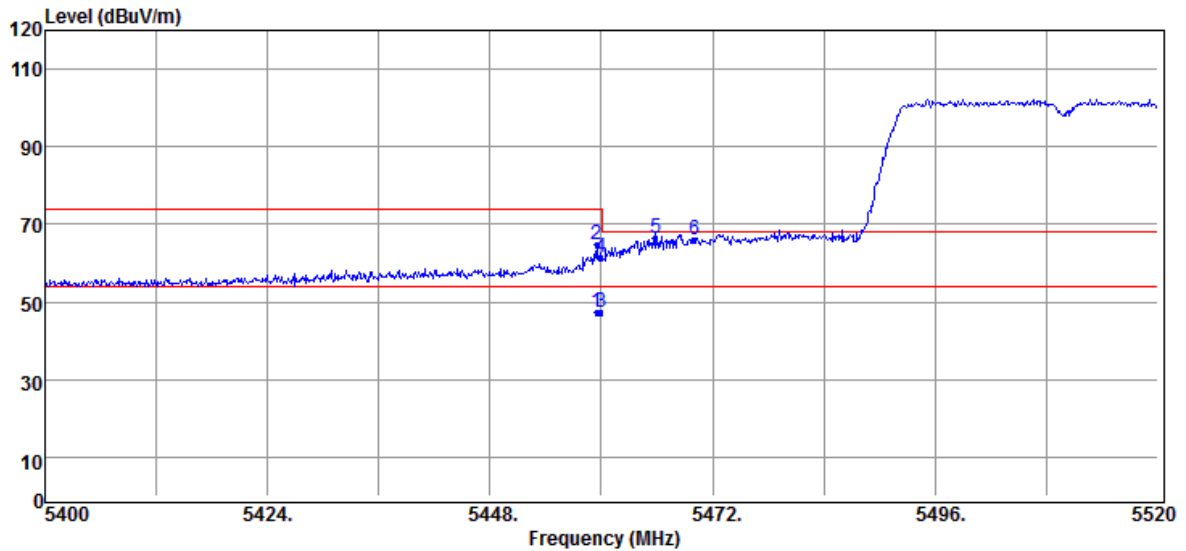
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5350.00	Average	37.28	14.16	51.44	54.00	-2.56
5350.00	Peak	52.74	14.16	66.90	68.20	-1.30
5350.52	Average	37.10	14.17	51.27	54.00	-2.73
5350.52	Peak	55.30	14.17	69.47	74.00	-4.53

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Operation Mode	:802.11n40/Band 3	Test Date	:2018-05-22
Test Mode	:BE CH LOW	Temp./Humi.	:24/65
EUT Pol	:E1/Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5510 MHz	Engineer	:Enzo



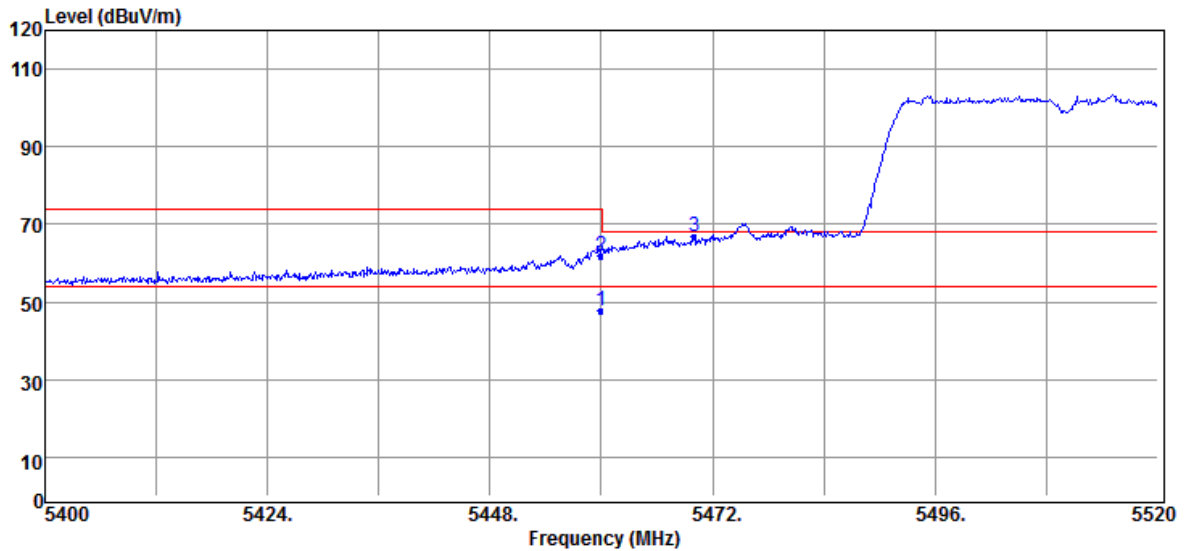
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5459.52	Average	32.99	14.31	47.30	54.00	-6.70
5459.52	Peak	50.66	14.31	64.97	74.00	-9.03
5460.00	Average	33.13	14.31	47.44	54.00	-6.56
5460.00	Peak	47.21	14.31	61.52	74.00	-12.48
5465.88	Peak	52.22	14.32	66.54	68.20	-1.66
5470.00	Peak	51.81	14.31	66.12	68.20	-2.08

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Operation Mode	:802.11n40/Band 3	Test Date	:2018-05-22
Test Mode	:BE CH LOW	Temp./Humi.	:24/65
EUT Pol	:E1/Plan	Antenna Pol.	:VERTICAL
Test Channel	:5510 MHz	Engineer	:Enzo



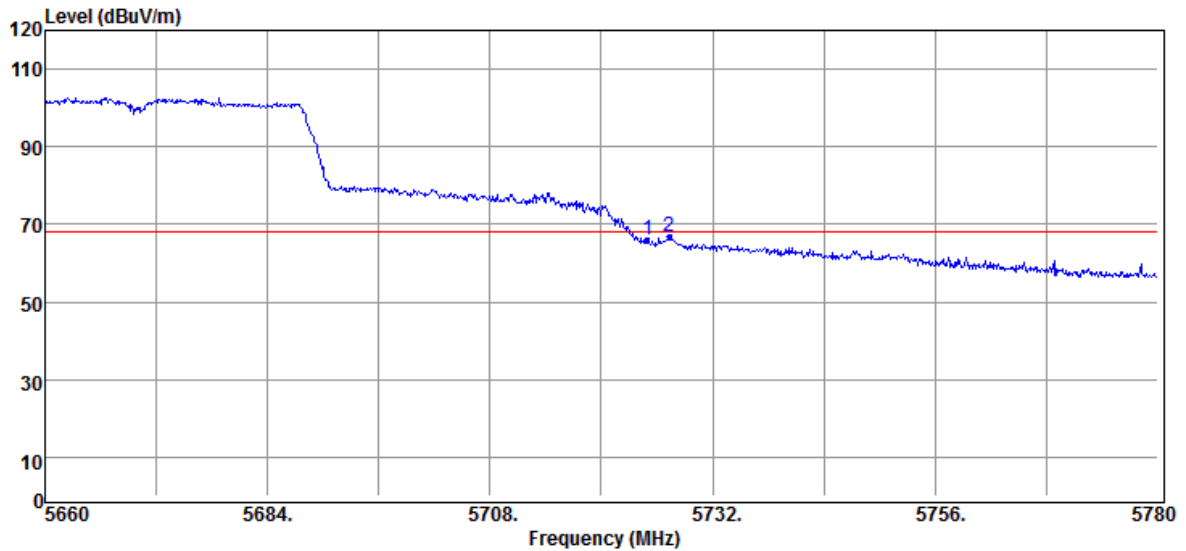
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
5460.00	Average	33.26	14.31	47.57	54.00	-6.43
5460.00	Peak	47.72	14.31	62.03	74.00	-11.97
5470.00	Peak	52.40	14.31	66.71	68.20	-1.49

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Operation Mode	:802.11n40/Band 3	Test Date	:2018-05-22
Test Mode	:BE CH HIGH	Temp./Humi.	:24/65
EUT Pol	:E1/Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5670 MHz	Engineer	:Enzo



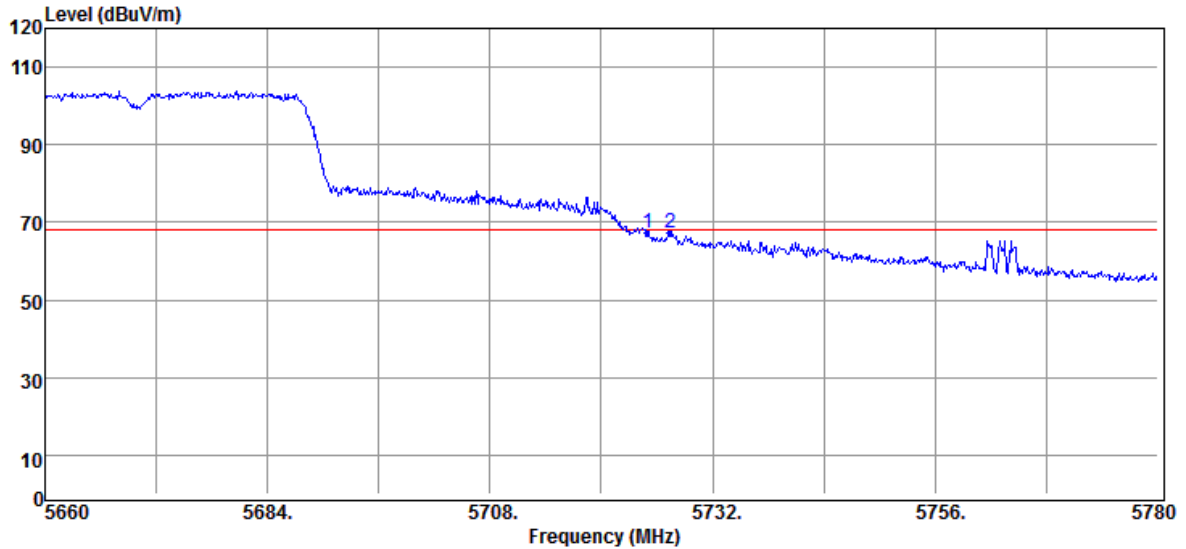
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
5725.00	Peak	51.40	14.50	65.90	68.20	-2.30
5727.32	Peak	52.28	14.50	66.78	68.20	-1.42

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Operation Mode	:802.11n40/Band 3	Test Date	:2018-05-22
Test Mode	:BE CH HIGH	Temp./Humi.	:24/65
EUT Pol	:E1/Plan	Antenna Pol.	:VERTICAL
Test Channel	:5670 MHz	Engineer	:Enzo



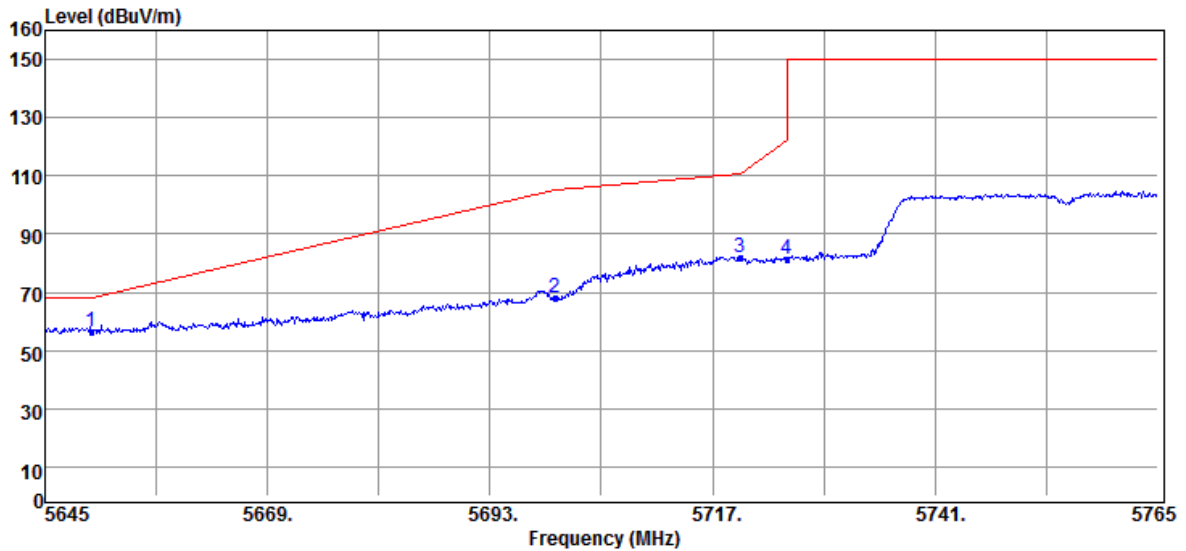
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
5725.00	Peak	52.59	14.50	67.09	68.20	-1.11
5727.44	Peak	52.69	14.50	67.19	68.20	-1.01

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Operation Mode	:802.11n40/Band 4	Test Date	:2018-05-22
Test Mode	:BE CH LOW	Temp./Humi.	:24/65
EUT Pol	:E1/Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5755 MHz	Engineer	:Enzo



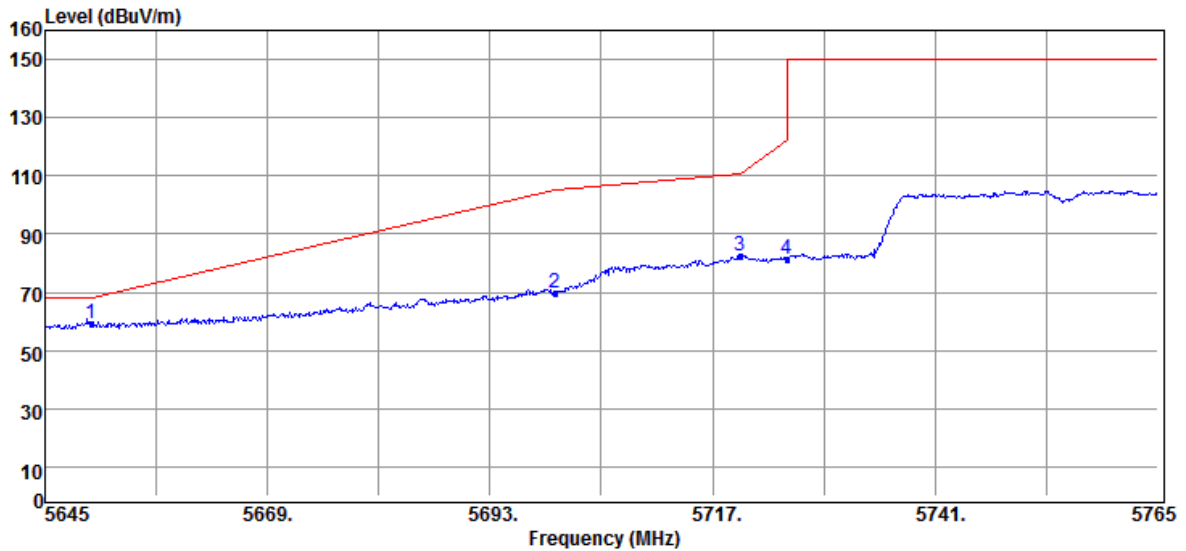
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
5650.00	Peak	42.10	14.42	56.52	68.20	-11.68
5700.00	Peak	53.44	14.47	67.91	105.20	-37.29
5720.00	Peak	67.40	14.49	81.89	110.80	-28.91
5725.00	Peak	66.83	14.50	81.33	122.20	-40.87

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Operation Mode	:802.11n40/Band 4	Test Date	:2018-05-22
Test Mode	:BE CH LOW	Temp./Humi.	:24/65
EUT Pol	:E1/Plan	Antenna Pol.	:VERTICAL
Test Channel	:5755 MHz	Engineer	:Enzo



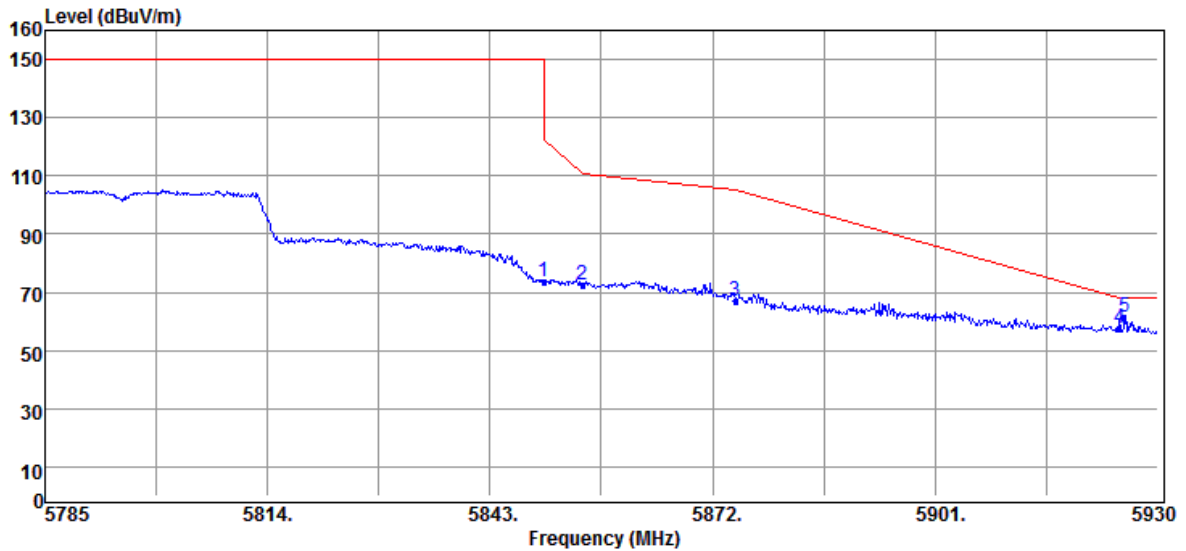
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
5650.00	Peak	44.58	14.42	59.00	68.20	-9.20
5700.00	Peak	55.16	14.47	69.63	105.20	-35.57
5720.00	Peak	68.11	14.49	82.60	110.80	-28.20
5725.00	Peak	66.71	14.50	81.21	122.20	-40.99

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Operation Mode	:802.11n40/Band 4	Test Date	:2018-05-22
Test Mode	:BE CH HIGH	Temp./Humi.	:24/65
EUT Pol	:E1/Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5795 MHz	Engineer	:Enzo



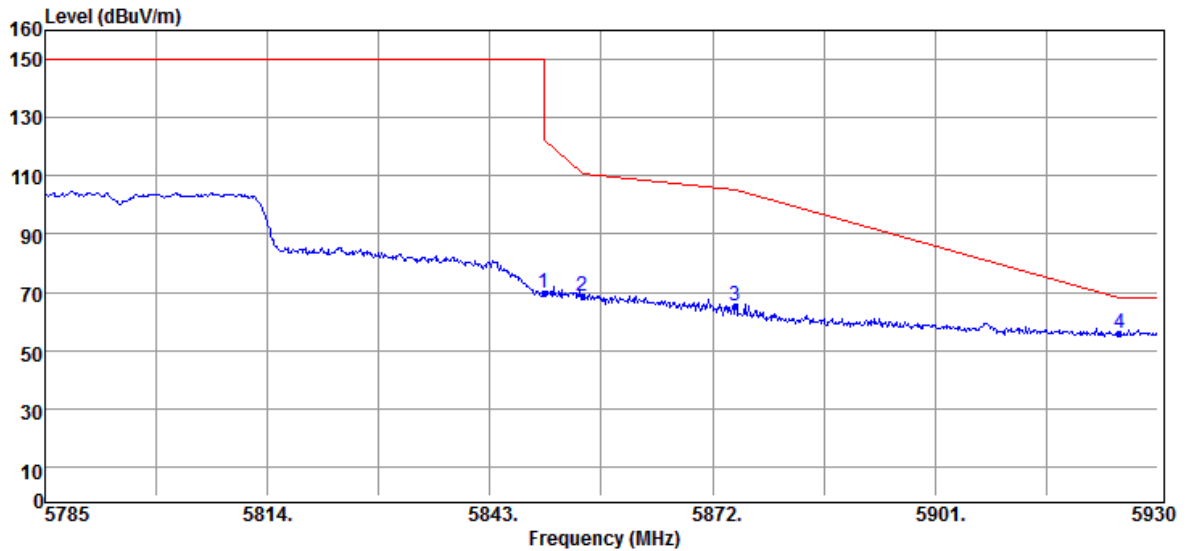
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
5850.00	Peak	58.97	14.72	73.69	122.20	-48.51
5855.00	Peak	57.69	14.73	72.42	110.80	-38.38
5875.00	Peak	52.31	14.78	67.09	105.20	-38.11
5925.00	Peak	42.89	14.91	57.80	68.20	-10.40
5925.65	Peak	46.53	14.91	61.44	68.20	-6.76

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Operation Mode	:802.11n40/Band 4	Test Date	:2018-05-22
Test Mode	:BE CH HIGH	Temp./Humi.	:24/65
EUT Pol	:E1/Plan	Antenna Pol.	:VERTICAL
Test Channel	:5795 MHz	Engineer	:Enzo



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
5850.00	Peak	55.09	14.72	69.81	122.20	-52.39
5855.00	Peak	54.02	14.73	68.75	110.80	-42.05
5875.00	Peak	50.77	14.78	65.55	105.20	-39.65
5925.00	Peak	40.76	14.91	55.67	68.20	-12.53

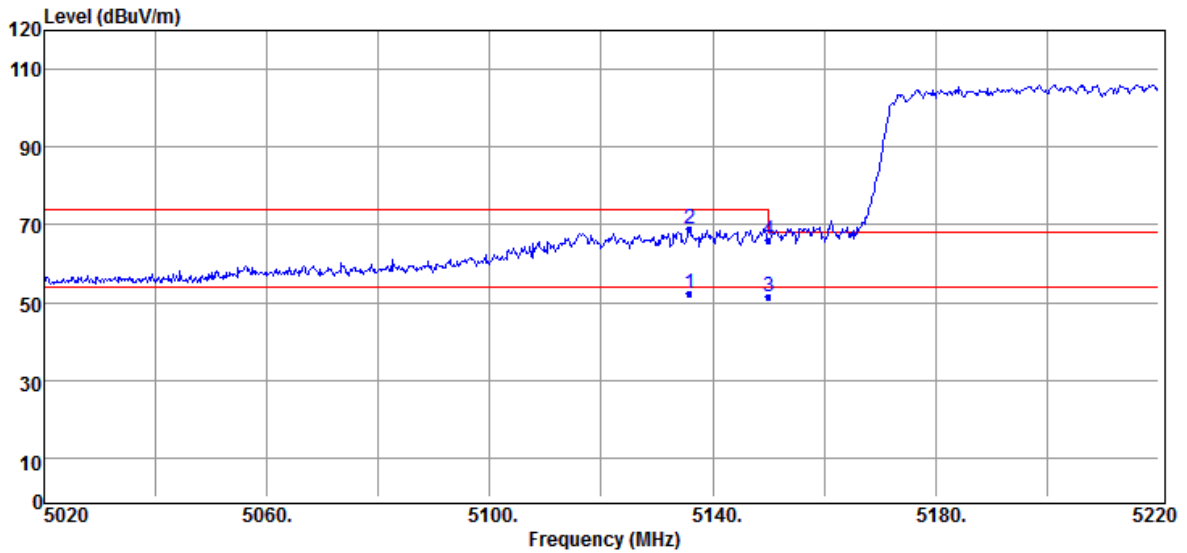
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802.11ac80 VHT mode

Operation Mode	:802.11ac80 / Band 1	Test Date	:2018-05-22
Test Mode	:BE CH LOW	Temp./Humi.	:24/64
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5210 MHz	Engineer	:Ashton



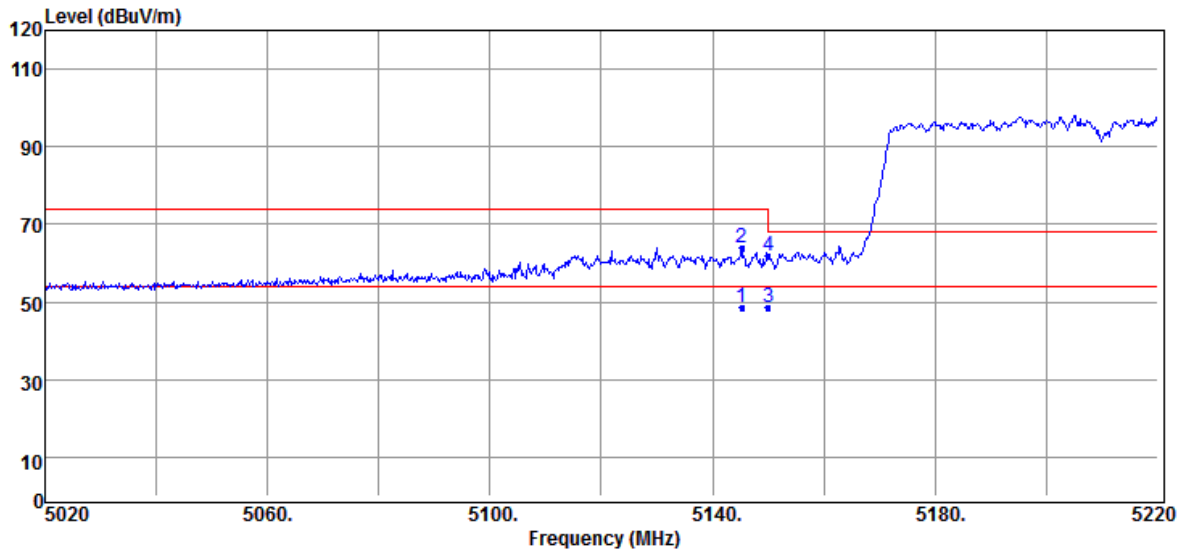
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
5135.80	Average	38.89	13.59	52.48	54.00	-1.52
5135.80	Peak	55.49	13.59	69.08	74.00	-4.92
5150.00	Average	37.73	13.65	51.38	54.00	-2.62
5150.00	Peak	52.42	13.65	66.07	74.00	-7.93

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Operation Mode	:802.11ac80 / Band 1	Test Date	:2018-05-22
Test Mode	:BE CH LOW	Temp./Humi.	:24/64
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5210 MHz	Engineer	:Ashton



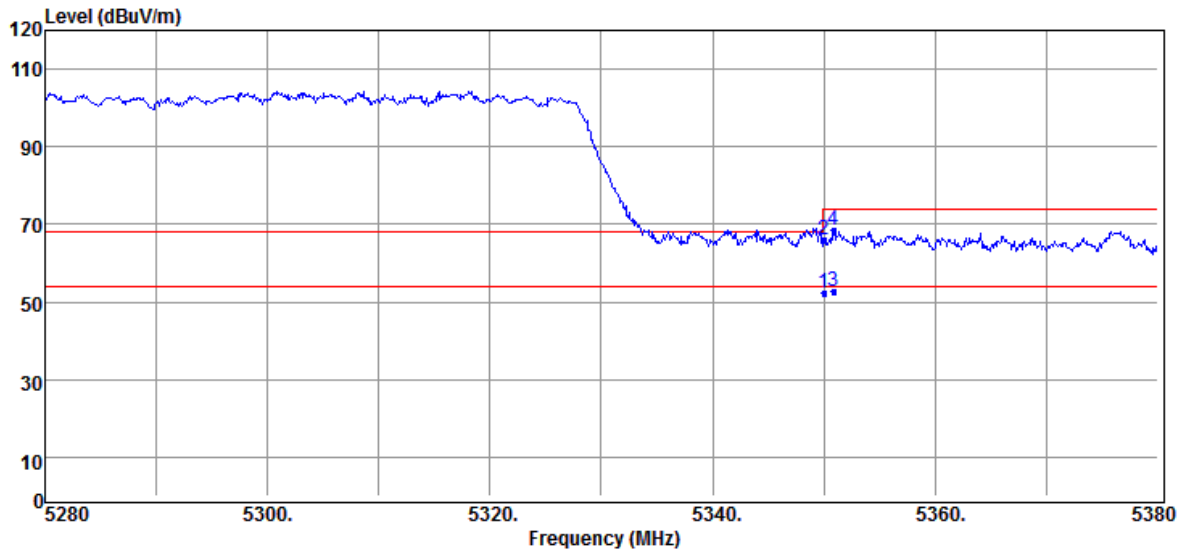
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
5145.20	Average	34.90	13.63	48.53	54.00	-5.47
5145.20	Peak	50.46	13.63	64.09	74.00	-9.91
5150.00	Average	34.75	13.65	48.40	54.00	-5.60
5150.00	Peak	48.22	13.65	61.87	74.00	-12.13

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Operation Mode	:802.11ac80/Band2	Test Date	:2018-05-22
Test Mode	:BE CH HIGH	Temp./Humi.	:24/65
EUT Pol	:E1/Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5290 MHz	Engineer	:Ashton



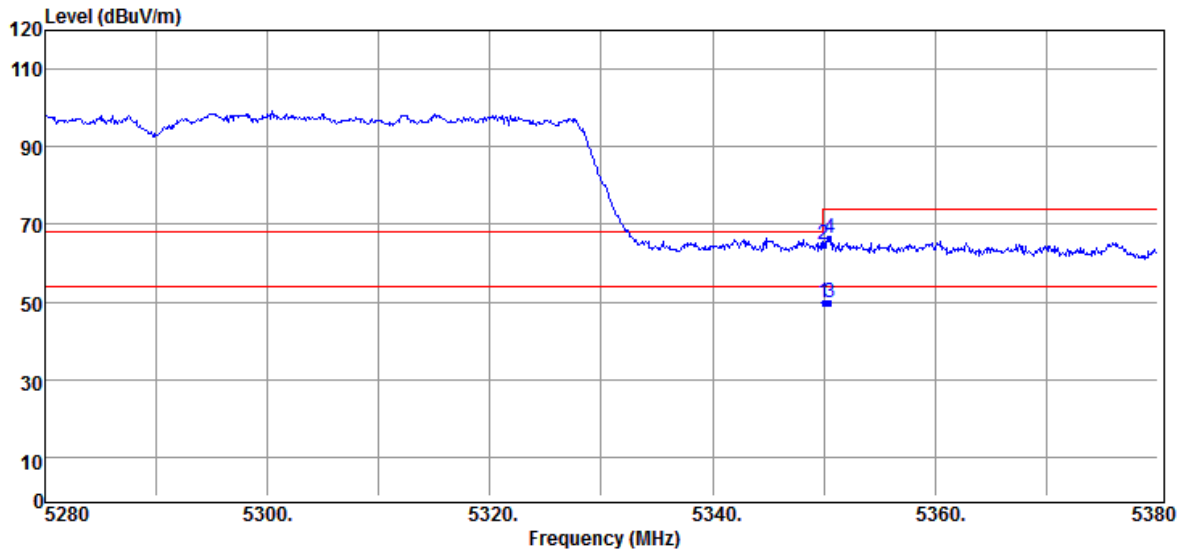
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5350.00	Average	38.36	14.16	52.52	54.00	-1.48
5350.00	Peak	52.02	14.16	66.18	74.00	-7.82
5350.90	Average	38.39	14.17	52.56	54.00	-1.44
5350.90	Peak	54.33	14.17	68.50	74.00	-5.50

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Operation Mode	:802.11ac80/Band2	Test Date	:2018-05-22
Test Mode	:BE CH HIGH	Temp./Humi.	:24/65
EUT Pol	:E1/Plan	Antenna Pol.	:VERTICAL
Test Channel	:5290 MHz	Engineer	:Ashton



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
5350.00	Average	35.84	14.16	50.00	54.00	-4.00
5350.00	Peak	50.65	14.16	64.81	74.00	-9.19
5350.50	Average	35.70	14.17	49.87	54.00	-4.13
5350.50	Peak	52.09	14.17	66.26	74.00	-7.74

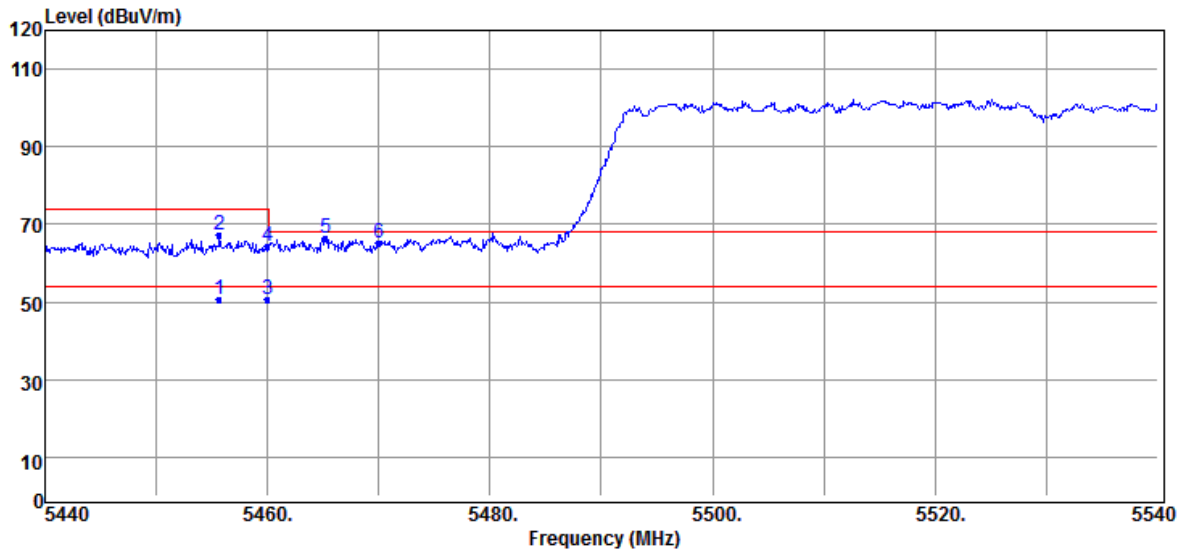
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Operation Mode :802.11ac80/Band 3
Test Mode :BE CH LOW
EUT Pol :E1/Plan
Test Channel :5530 MHz

Test Date :2018-05-22
Temp./Humi. :24/65
Antenna Pol. :HORIZONTAL
Engineer :Ashton



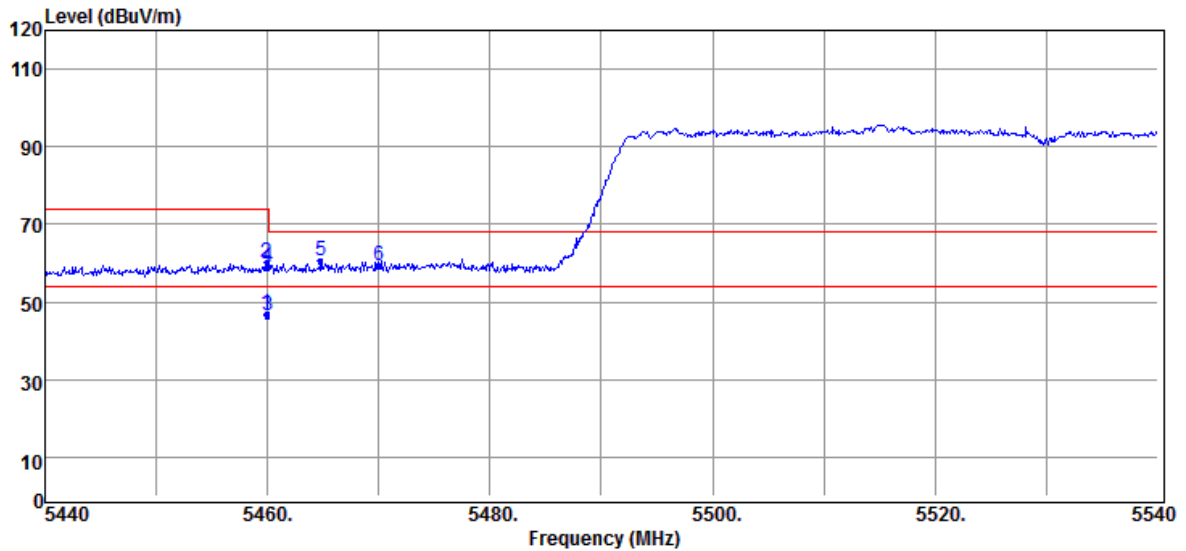
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
5455.70	Average	36.16	14.32	50.48	54.00	-3.52
5455.70	Peak	52.77	14.32	67.09	74.00	-6.91
5460.00	Average	36.33	14.31	50.64	54.00	-3.36
5460.00	Peak	50.18	14.31	64.49	74.00	-9.51
5465.20	Peak	52.19	14.32	66.51	68.20	-1.69
5470.00	Peak	51.08	14.31	65.39	68.20	-2.81

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Operation Mode	:802.11ac80/Band 3	Test Date	:2018-05-22
Test Mode	:BE CH LOW	Temp./Humi.	:24/65
EUT Pol	:E1/Plan	Antenna Pol.	:VERTICAL
Test Channel	:5530 MHz	Engineer	:Ashton



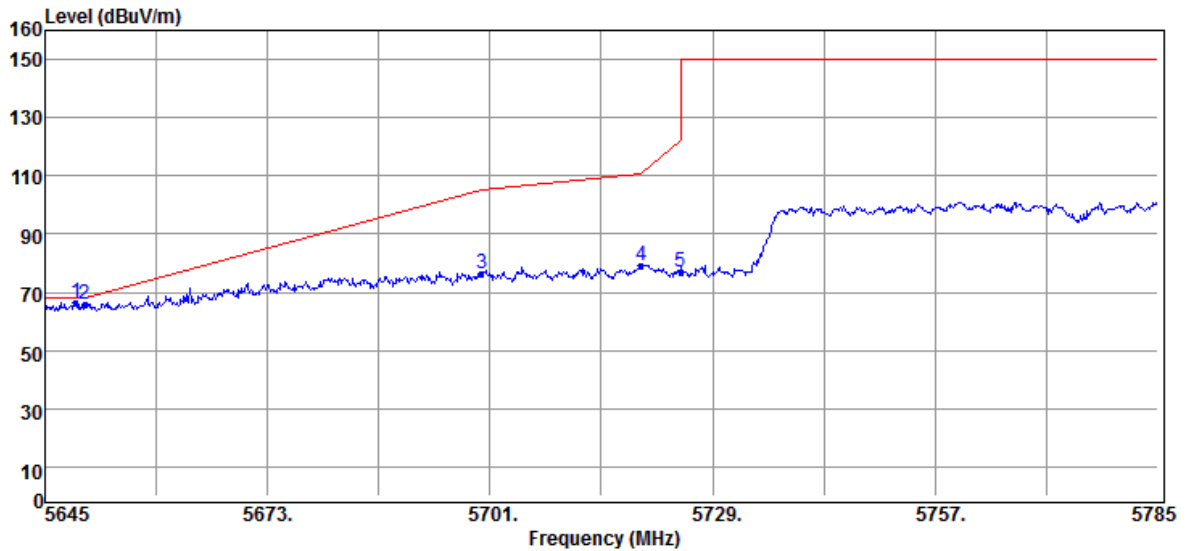
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5459.90	Average	32.47	14.31	46.78	54.00	-7.22
5459.90	Peak	45.82	14.31	60.13	74.00	-13.87
5460.00	Average	32.34	14.31	46.65	54.00	-7.35
5460.00	Peak	44.74	14.31	59.05	74.00	-14.95
5464.80	Peak	46.11	14.32	60.43	68.20	-7.77
5470.00	Peak	45.12	14.31	59.43	68.20	-8.77

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Operation Mode	:802.11ac80/Band 4	Test Date	:2018-05-23
Test Mode	:BE CH LOW	Temp./Humi.	:24/65
EUT Pol	:E1/Plan	Antenna Pol.	:VERTICAL
Test Channel	:5775 MHz	Engineer	:Enzo



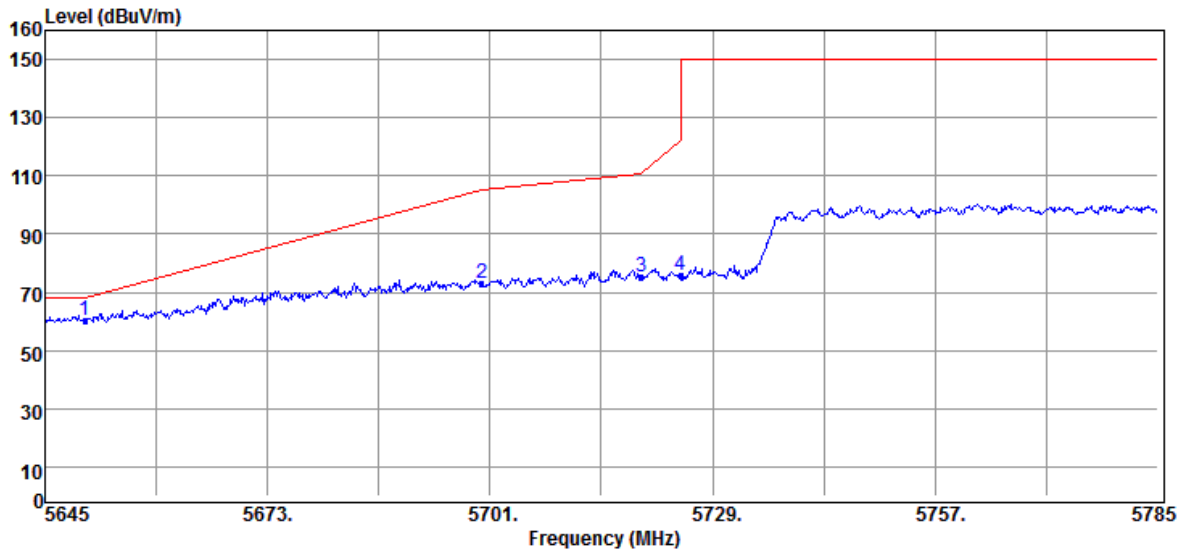
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5648.92	Peak	52.04	14.41	66.45	68.20	-1.75
5650.00	Peak	51.28	14.42	65.70	68.20	-2.50
5700.00	Peak	61.82	14.47	76.29	105.20	-28.91
5720.00	Peak	64.85	14.49	79.34	110.80	-31.46
5725.00	Peak	62.70	14.50	77.20	122.20	-45.00

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Operation Mode	:802.11ac80/Band 4	Test Date	:2018-05-22
Test Mode	:BE CH LOW	Temp./Humi.	:24/65
EUT Pol	:E1/Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5775 MHz	Engineer	:Enzo



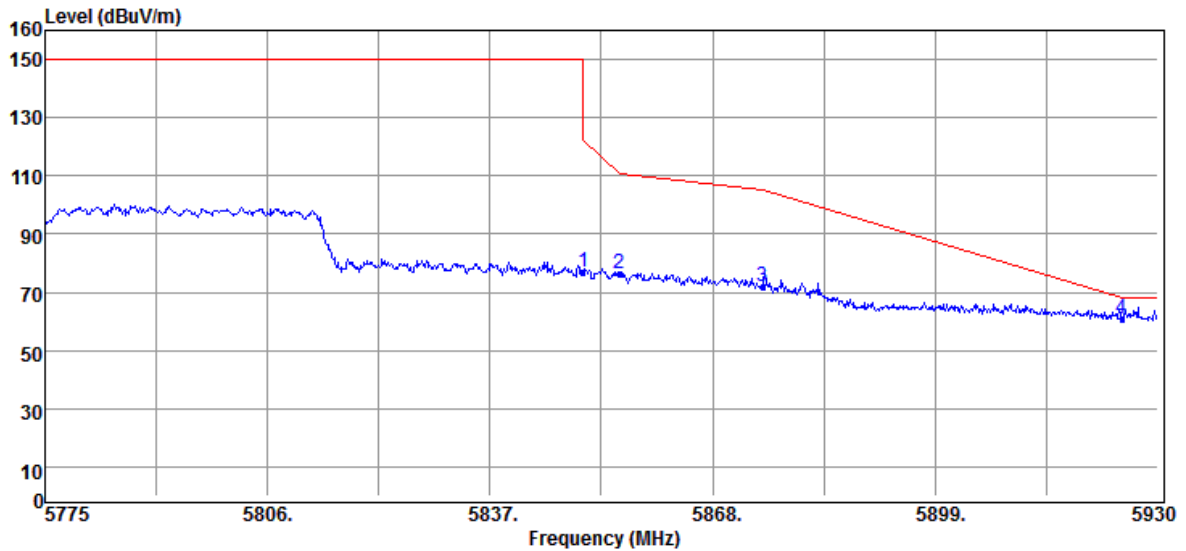
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
5650.00	Peak	45.84	14.42	60.26	68.20	-7.94
5700.00	Peak	58.83	14.47	73.30	105.20	-31.90
5720.00	Peak	61.01	14.49	75.50	110.80	-35.30
5725.00	Peak	61.48	14.50	75.98	122.20	-46.22

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Operation Mode	:802.11ac80/Band 4	Test Date	:2018-05-22
Test Mode	:BE CH HIGH	Temp./Humi.	:24/65
EUT Pol	:E1/Plan	Antenna Pol.	:VERTICAL
Test Channel	:5775 MHz	Engineer	:Enzo



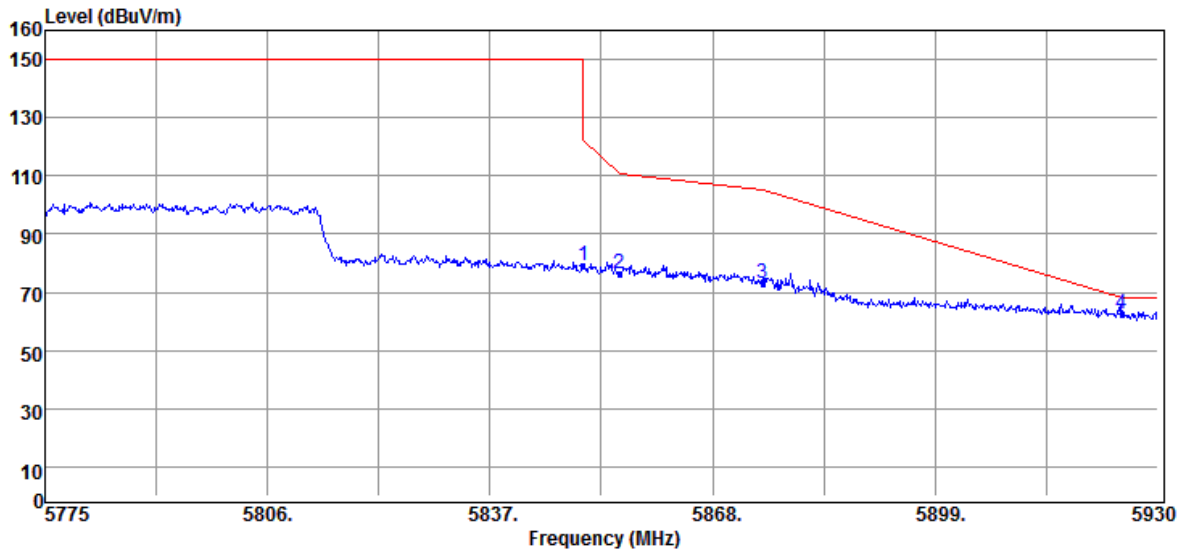
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
5850.00	Peak	62.45	14.72	77.17	122.20	-45.03
5855.00	Peak	61.84	14.73	76.57	110.80	-34.23
5875.00	Peak	57.42	14.78	72.20	105.20	-33.00
5925.00	Peak	46.18	14.91	61.09	68.20	-7.11

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Operation Mode	:802.11ac80/Band 4	Test Date	:2018-05-22
Test Mode	:BE CH HIGH	Temp./Humi.	:24/65
EUT Pol	:E1/Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5775 MHz	Engineer	:Enzo



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
5850.00	Peak	64.38	14.72	79.10	122.20	-43.10
5855.00	Peak	61.64	14.73	76.37	110.80	-34.43
5875.00	Peak	58.05	14.78	72.83	105.20	-32.37
5925.00	Peak	47.89	14.91	62.80	68.20	-5.40

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12 TRANSMISSION IN THE ABSENCE OF DATA

12.1 Standard Applicable

According to §15.407(c)

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

12.2 Result

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

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13 FREQUENCY STABILITY

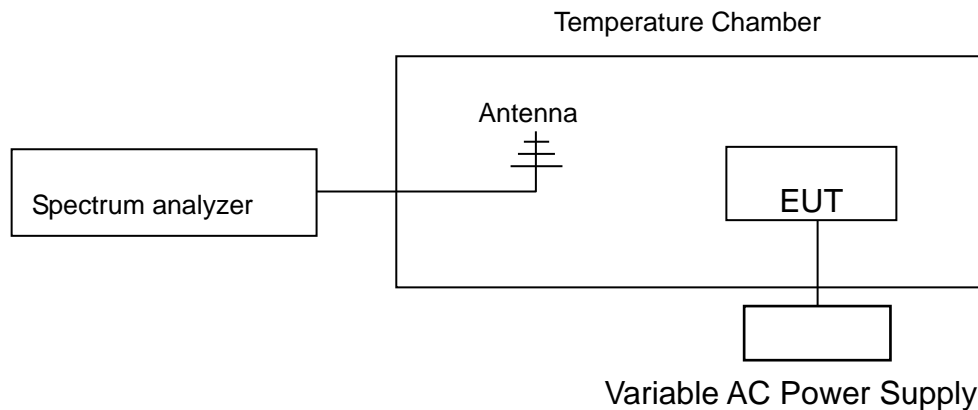
13.1 Standard Applicable

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

13.2 Measurement Procedure

1. The EUT was placed inside temperature chamber and powered and powered by nominal DC voltage.
2. Set EUT as normal operation.
3. Turn the EUT on and couple its output to spectrum.
4. Turn the EUT off and set the chamber to the highest temperature specified.
5. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT and measure the operating frequency.
6. Repeat step with the temperature chamber set to the lowest temperature.

13.3 Test SET-UP



13.4 Measurement Equipment Used:

SGS Conducted Room					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum Analyzer	Agilent	N9010A	MY51440113	2017/06/21	2018/06/20
Attenuator	Marvelous	MVE2213-10	RF30	2017/12/26	2018/12/25
Attenuator	Marvelous	MVE2213-10	RF31	2017/12/26	2018/12/25
Notebook	Lenovo	L420	S0011721	N/A	N/A
Temperature Chamber	TERCHY	MHK-120LK	1020582	2018/01/13	2019/01/02

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13.5 Measurement Result

Startup:

Operation Mode	802.11 a	Test Date	2018.05.28
Temperature	:24.8 °C	Test By	Hone
Humidity	:63 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10 °C	13.2V	36	5180	5,179.94775	0.00001009
		44	5220	5,219.92448	0.00001447
		48	5240	5,239.99394	0.00000116
		52	5260	5,259.97386	0.00000497
		60	5300	5,299.95599	0.00000830
		64	5320	5,319.95249	0.00000893
		100	5500	5,499.96384	0.00000657
		116	5580	5,579.92071	0.00001421
		140	5700	5,699.96955	0.00000534
		144	5720	5,719.94179	0.00001018
		149	5745	5,744.92651	0.00001279
		157	5785	5,784.95694	0.00000744
	165	5825	5,824.92562	0.00001277	
	10.8V	36	5180	5,179.94868	0.00000991
		44	5220	5,219.96669	0.00000638
		48	5240	5,239.91526	0.00001617
		52	5260	5,259.96660	0.00000635
		60	5300	5,299.98714	0.00000243
		64	5320	5,319.92615	0.00001388
		100	5500	5,499.92308	0.00001399
		116	5580	5,579.97919	0.00000373
		140	5700	5,699.91191	0.00001545
		144	5720	5,719.94215	0.00001011
		149	5745	5,744.97065	0.00000511
157		5785	5,784.96210	0.00000655	
165	5825	5,824.93446	0.00001125		

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25 °C	12V	36	5180	5,179.97892	0.00000407
		44	5220	5,219.96721	0.00000628
		48	5240	5,239.91188	0.00001682
		52	5260	5,259.96621	0.00000642
		60	5300	5,299.93862	0.00001158
		64	5320	5,319.95228	0.00000897
		100	5500	5,499.97817	0.00000397
		116	5580	5,579.92623	0.00001322
		140	5700	5,699.90636	0.00001643
		144	5720	5,719.94147	0.00001023
		149	5745	5,744.94108	0.00001026
		157	5785	5,784.95607	0.00000759
		165	5825	5,824.97656	0.00000402
50 °C	13.2V	36	5180	5,179.95430	0.00000882
		44	5220	5,219.96154	0.00000737
		48	5240	5,239.99012	0.00000189
		52	5260	5,259.99237	0.00000145
		60	5300	5,299.93006	0.00001320
		64	5320	5,319.90766	0.00001736
		100	5500	5,499.93260	0.00001225
		116	5580	5,579.92305	0.00001379
		140	5700	5,699.98785	0.00000213
		144	5720	5,719.94166	0.00001020
		149	5745	5,744.97681	0.00000404
		157	5785	5,784.96460	0.00000612
	165	5825	5,824.94923	0.00000872	
	10.8V	36	5180	5,179.95715	0.00000827
		44	5220	5,219.95992	0.00000768
		48	5240	5,239.91539	0.00001615
		52	5260	5,259.91631	0.00001591
		60	5300	5,299.90306	0.00001829
		64	5320	5,319.93567	0.00001209
		100	5500	5,499.98381	0.00000294
		116	5580	5,579.94397	0.00001004
		140	5700	5,699.95321	0.00000821
		144	5720	5,719.94155	0.00001022
		149	5745	5,744.91212	0.00001530
157		5785	5,784.94044	0.00001030	
165	5825	5,824.95501	0.00000772		

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Operation Mode	802.11 n_HT40	Test Date	2018.05.28
Temperature	:24.8 °C	Test By	Hone
Humidity	:63 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10 °C	13.2V	38	5190	5,189.91506	0.00001637
		46	5230	5,229.95695	0.00000823
		54	5270	5,269.93934	0.00001151
		62	5310	5,309.99395	0.00000114
		102	5510	5,509.94275	0.00001039
		110	5550	5,549.98262	0.00000313
		134	5670	5,669.93687	0.00001113
		142	5710	5,709.94492	0.00000965
		151	5755	5,754.92435	0.00001315
	159	5795	5,794.95616	0.00000757	
	10.8V	38	5190	5,189.94072	0.00001142
		46	5230	5,229.91254	0.00001672
		54	5270	5,269.91248	0.00001661
		62	5310	5,309.96728	0.00000616
		102	5510	5,509.98852	0.00000208
		110	5550	5,549.91922	0.00001455
		134	5670	5,669.91094	0.00001571
		142	5710	5,709.94484	0.00000966
151		5755	5,754.96176	0.00000664	
159	5795	5,794.90061	0.00001715		

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25 °C	12V	38	5190	5,189.96996	0.00000579
		46	5230	5,229.99667	0.00000064
		54	5270	5,269.91162	0.00001677
		62	5310	5,309.94138	0.00001104
		102	5510	5,509.92995	0.00001271
		110	5550	5,549.91980	0.00001445
		134	5670	5,669.92845	0.00001262
		142	5710	5,709.94466	0.00000969
		151	5755	5,754.94517	0.00000953
		159	5795	5,794.99020	0.00000169
50 °C	13.2V	38	5190	5,189.99629	0.00000071
		46	5230	5,229.97174	0.00000540
		54	5270	5,269.92579	0.00001408
		62	5310	5,309.93897	0.00001149
		102	5510	5,509.94965	0.00000914
		110	5550	5,549.93779	0.00001121
		134	5670	5,669.98763	0.00000218
		142	5710	5,709.94456	0.00000971
		151	5755	5,754.91783	0.00001428
		159	5795	5,794.96210	0.00000654
	10.8V	38	5190	5,189.95117	0.00000941
		46	5230	5,229.98381	0.00000310
		54	5270	5,269.90414	0.00001819
		62	5310	5,309.95845	0.00000782
		102	5510	5,509.91082	0.00001619
		110	5550	5,549.97049	0.00000532
		134	5670	5,669.93420	0.00001160
		142	5710	5,709.94500	0.00000963
		151	5755	5,754.98380	0.00000281
		159	5795	5,794.95460	0.00000783

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Operation Mode	802.11 ac_VHT80	Test Date	2018.05.28
Temperature	:24.8 °C	Test By	Hone
Humidity	:63 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)		
-10 °C	13.2V	42	5210	5,209.95974	0.00000773		
		58	5290	5,289.99199	0.00000151		
		106	5530	5,529.93368	0.00001199		
		122	5610	5,609.95227	0.00000851		
		138	5690	5,689.93449	0.00001151		
		155	5775	5,774.97511	0.00000431		
	10.8V	42	5210	5,209.99961	0.00000007		
		58	5290	5,289.95243	0.00000899		
		106	5530	5,529.94611	0.00000975		
		122	5610	5,609.94992	0.00000893		
		138	5690	5,689.93399	0.00001160		
		155	5775	5,774.97285	0.00000470		
		25 °C	12V	42	5210	5,209.95422	0.00000879
				58	5290	5,289.97393	0.00000493
106	5530			5,529.98213	0.00000323		
122	5610			5,609.91362	0.00001540		
138	5690			5,689.93417	0.00001157		
155	5775			5,774.92549	0.00001290		
50 °C	13.2V	42	5210	5,209.96654	0.00000642		
		58	5290	5,289.94311	0.00001075		
		106	5530	5,529.97704	0.00000415		
		122	5610	5,609.95893	0.00000732		
		138	5690	5,689.93366	0.00001166		
		155	5775	5,774.93389	0.00001145		
	10.8V	42	5210	5,209.95320	0.00000898		
		58	5290	5,289.91409	0.00001624		
		106	5530	5,529.97721	0.00000412		
		122	5610	5,609.97925	0.00000370		
		138	5690	5,689.93372	0.00001165		
		155	5775	5,774.96818	0.00000551		

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2 Minutes:

Operation Mode	802.11 a	Test Date	2018.05.28
Temperature	:24.8 °C	Test By	Hone
Humidity	:63 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10 °C	13.2V	36	5180	5,179.94149	0.00001130
		44	5220	5,219.91750	0.00001580
		48	5240	5,239.95185	0.00000919
		52	5260	5,259.99579	0.00000080
		60	5300	5,299.90618	0.00001770
		64	5320	5,319.96114	0.00000730
		100	5500	5,499.91955	0.00001463
		116	5580	5,579.96441	0.00000638
		140	5700	5,699.95698	0.00000755
		144	5720	5,719.94229	0.00001009
		149	5745	5,744.94522	0.00000954
		157	5785	5,784.95223	0.00000826
	165	5825	5,824.93614	0.00001096	
	10.8V	36	5180	5,179.99538	0.00000089
		44	5220	5,219.92067	0.00001520
		48	5240	5,239.92656	0.00001402
		52	5260	5,259.99966	0.00000006
		60	5300	5,299.97216	0.00000525
		64	5320	5,319.91026	0.00001687
		100	5500	5,499.90093	0.00001801
		116	5580	5,579.93357	0.00001191
		140	5700	5,699.94750	0.00000921
		144	5720	5,719.94145	0.00001024
		149	5745	5,744.98575	0.00000248
157		5785	5,784.95619	0.00000757	
165	5825	5,824.94486	0.00000947		

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25 °C	12V	36	5180	5,179.90595	0.00001816
		44	5220	5,219.94950	0.00000967
		48	5240	5,239.92781	0.00001378
		52	5260	5,259.96252	0.00000713
		60	5300	5,299.95936	0.00000767
		64	5320	5,319.96863	0.00000590
		100	5500	5,499.94900	0.00000927
		116	5580	5,579.99193	0.00000145
		140	5700	5,699.94000	0.00001053
		144	5720	5,719.94166	0.00001020
		149	5745	5,744.97468	0.00000441
		157	5785	5,784.98803	0.00000207
		165	5825	5,824.94919	0.00000872
50 °C	13.2V	36	5180	5,179.99186	0.00000157
		44	5220	5,219.90477	0.00001824
		48	5240	5,239.92261	0.00001477
		52	5260	5,259.96846	0.00000600
		60	5300	5,299.96728	0.00000617
		64	5320	5,319.92290	0.00001449
		100	5500	5,499.95591	0.00000802
		116	5580	5,579.90680	0.00001670
		140	5700	5,699.93464	0.00001147
		144	5720	5,719.94177	0.00001018
		149	5745	5,744.93729	0.00001092
		157	5785	5,784.99473	0.00000091
	165	5825	5,824.93993	0.00001031	
	10.8V	36	5180	5,179.93123	0.00001328
		44	5220	5,219.91609	0.00001607
		48	5240	5,239.92369	0.00001456
		52	5260	5,259.98732	0.00000241
		60	5300	5,299.94921	0.00000958
		64	5320	5,319.91205	0.00001653
		100	5500	5,499.94812	0.00000943
		116	5580	5,579.91205	0.00001576
		140	5700	5,699.92870	0.00001251
		144	5720	5,719.94215	0.00001011
		149	5745	5,744.94644	0.00000932
157		5785	5,784.96419	0.00000619	
165	5825	5,824.97827	0.00000373		

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Operation Mode	802.11 n_HT40	Test Date	2018.05.28
Temperature	:24.8 °C	Test By	Hone
Humidity	:63 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10 °C	13.2V	38	5190	5,189.94826	0.00000997
		46	5230	5,229.90393	0.00001837
		54	5270	5,269.93370	0.00001258
		62	5310	5,309.92653	0.00001384
		102	5510	5,509.94314	0.00001032
		110	5550	5,549.97557	0.00000440
		134	5670	5,669.91135	0.00001563
		142	5710	5,709.94457	0.00000971
		151	5755	5,754.90440	0.00001661
	159	5795	5,794.91595	0.00001450	
	10.8V	38	5190	5,189.91094	0.00001716
		46	5230	5,229.91222	0.00001678
		54	5270	5,269.92480	0.00001427
		62	5310	5,309.92477	0.00001417
		102	5510	5,509.91151	0.00001606
		110	5550	5,549.90382	0.00001733
		134	5670	5,669.94099	0.00001041
		142	5710	5,709.94450	0.00000972
151		5755	5,754.94802	0.00000903	
159	5795	5,794.97540	0.00000425		

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25 °C	12V	38	5190	5,189.94484	0.00001063
		46	5230	5,229.90826	0.00001754
		54	5270	5,269.92764	0.00001373
		62	5310	5,309.93096	0.00001300
		102	5510	5,509.97222	0.00000504
		110	5550	5,549.98324	0.00000302
		134	5670	5,669.90630	0.00001653
		142	5710	5,709.94508	0.00000962
		151	5755	5,754.94196	0.00001009
		159	5795	5,794.93081	0.00001194
50 °C	13.2V	38	5190	5,189.93808	0.00001193
		46	5230	5,229.93501	0.00001243
		54	5270	5,269.92998	0.00001329
		62	5310	5,309.97750	0.00000424
		102	5510	5,509.91311	0.00001577
		110	5550	5,549.93745	0.00001127
		134	5670	5,669.96801	0.00000564
		142	5710	5,709.94480	0.00000967
		151	5755	5,754.95040	0.00000862
		159	5795	5,794.90420	0.00001653
	10.8V	38	5190	5,189.95553	0.00000857
		46	5230	5,229.91005	0.00001720
		54	5270	5,269.92563	0.00001411
		62	5310	5,309.99370	0.00000119
		102	5510	5,509.94659	0.00000969
		110	5550	5,549.91024	0.00001617
		134	5670	5,669.99479	0.00000092
		142	5710	5,709.94440	0.00000974
		151	5755	5,754.97224	0.00000482
		159	5795	5,794.98583	0.00000245

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Operation Mode	802.11 ac_VHT80	Test Date	2018.05.28
Temperature	:24.8 °C	Test By	Hone
Humidity	:63 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10 °C	13.2V	42	5210	5,209.91924	0.00001550
		58	5290	5,289.93638	0.00001203
		106	5530	5,529.98468	0.00000277
		122	5610	5,609.90851	0.00001631
		138	5690	5,689.93382	0.00001163
		155	5775	5,774.93221	0.00001174
	10.8V	42	5210	5,209.95826	0.00000801
		58	5290	5,289.91124	0.00001678
		106	5530	5,529.99932	0.00000012
		122	5610	5,609.93556	0.00001149
		138	5690	5,689.93370	0.00001165
		155	5775	5,774.97066	0.00000508
25 °C	12V	42	5210	5,209.97671	0.00000447
		58	5290	5,289.96916	0.00000583
		106	5530	5,529.93117	0.00001245
		122	5610	5,609.99620	0.00000068
		138	5690	5,689.93372	0.00001165
		155	5775	5,774.94665	0.00000924
50 °C	13.2V	42	5210	5,209.95613	0.00000842
		58	5290	5,289.92032	0.00001506
		106	5530	5,529.99984	0.00000003
		122	5610	5,609.90430	0.00001706
		138	5690	5,689.93410	0.00001158
		155	5775	5,774.98255	0.00000302
	10.8V	42	5210	5,209.96762	0.00000621
		58	5290	5,289.96445	0.00000672
		106	5530	5,529.97416	0.00000467
		122	5610	5,609.98515	0.00000265
		138	5690	5,689.93400	0.00001160
		155	5775	5,774.95902	0.00000710

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5 Minutes:

Operation Mode	802.11 a	Test Date	2018.05.28
Temperature	:24.8 °C	Test By	Hone
Humidity	:63 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10 °C	13.2V	36	5180	5,179.98137	0.00000360
		44	5220	5,219.95838	0.00000797
		48	5240	5,239.93583	0.00001225
		52	5260	5,259.90841	0.00001741
		60	5300	5,299.91801	0.00001547
		64	5320	5,319.95141	0.00000913
		100	5500	5,499.93011	0.00001271
		116	5580	5,579.93832	0.00001105
		140	5700	5,699.95696	0.00000755
		144	5720	5,719.94209	0.00001012
		149	5745	5,744.92804	0.00001253
		157	5785	5,784.94425	0.00000964
	165	5825	5,824.91838	0.00001401	
	10.8V	36	5180	5,179.92735	0.00001403
		44	5220	5,219.94051	0.00001140
		48	5240	5,239.93171	0.00001303
		52	5260	5,259.93775	0.00001183
		60	5300	5,299.99551	0.00000085
		64	5320	5,319.96055	0.00000742
		100	5500	5,499.94320	0.00001033
		116	5580	5,579.98966	0.00000185
		140	5700	5,699.93177	0.00001197
		144	5720	5,719.94202	0.00001014
		149	5745	5,744.95103	0.00000852
157		5785	5,784.93527	0.00001119	
165	5825	5,824.96879	0.00000536		

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25 °C	12V	36	5180	5,179.90984	0.00001741
		44	5220	5,219.94070	0.00001136
		48	5240	5,239.99933	0.00000013
		52	5260	5,259.95295	0.00000894
		60	5300	5,299.96309	0.00000696
		64	5320	5,319.94636	0.00001008
		100	5500	5,499.99061	0.00000171
		116	5580	5,579.97503	0.00000447
		140	5700	5,699.92357	0.00001341
		144	5720	5,719.94220	0.00001010
		149	5745	5,744.93655	0.00001104
		157	5785	5,784.91764	0.00001424
		165	5825	5,824.96881	0.00000535
50 °C	13.2V	36	5180	5,179.99319	0.00000131
		44	5220	5,219.90358	0.00001847
		48	5240	5,239.96933	0.00000585
		52	5260	5,259.93200	0.00001293
		60	5300	5,299.91519	0.00001600
		64	5320	5,319.96689	0.00000622
		100	5500	5,499.98044	0.00000356
		116	5580	5,579.98791	0.00000217
		140	5700	5,699.92345	0.00001343
		144	5720	5,719.94152	0.00001022
		149	5745	5,744.96524	0.00000605
		157	5785	5,784.93956	0.00001045
	165	5825	5,824.97948	0.00000352	
	10.8V	36	5180	5,179.98969	0.00000199
		44	5220	5,219.95546	0.00000853
		48	5240	5,239.93954	0.00001154
		52	5260	5,259.94164	0.00001110
		60	5300	5,299.99320	0.00000128
		64	5320	5,319.99919	0.00000015
		100	5500	5,499.92242	0.00001411
		116	5580	5,579.91911	0.00001450
		140	5700	5,699.95505	0.00000789
		144	5720	5,719.94149	0.00001023
		149	5745	5,744.91372	0.00001502
157		5785	5,784.92685	0.00001264	
165	5825	5,824.98728	0.00000218		

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Operation Mode	802.11 n_HT40	Test Date	2018.05.28
Temperature	:24.8 °C	Test By	Hone
Humidity	:63 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10 °C	13.2V	38	5190	5,189.93716	0.00001211
		46	5230	5,229.96203	0.00000726
		54	5270	5,269.95108	0.00000928
		62	5310	5,309.93078	0.00001304
		102	5510	5,509.93474	0.00001184
		110	5550	5,549.98067	0.00000348
		134	5670	5,669.91474	0.00001504
		142	5710	5,709.94437	0.00000974
		151	5755	5,754.93371	0.00001152
	159	5795	5,794.92105	0.00001362	
	10.8V	38	5190	5,189.94360	0.00001087
		46	5230	5,229.95441	0.00000872
		54	5270	5,269.99545	0.00000086
		62	5310	5,309.99451	0.00000103
		102	5510	5,509.96229	0.00000684
		110	5550	5,549.90076	0.00001788
		134	5670	5,669.98201	0.00000317
		142	5710	5,709.94464	0.00000970
151		5755	5,754.97750	0.00000391	
159	5795	5,794.90201	0.00001691		

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25 °C	12V	38	5190	5,189.97523	0.00000477
		46	5230	5,229.90744	0.00001770
		54	5270	5,269.95267	0.00000898
		62	5310	5,309.90123	0.00001860
		102	5510	5,509.95708	0.00000779
		110	5550	5,549.94255	0.00001035
		134	5670	5,669.99466	0.00000094
		142	5710	5,709.94424	0.00000977
		151	5755	5,754.91233	0.00001523
		159	5795	5,794.93963	0.00001042
50 °C	13.2V	38	5190	5,189.92414	0.00001462
		46	5230	5,229.95317	0.00000895
		54	5270	5,269.97998	0.00000380
		62	5310	5,309.99507	0.00000093
		102	5510	5,509.94146	0.00001062
		110	5550	5,549.97599	0.00000433
		134	5670	5,669.93885	0.00001078
		142	5710	5,709.94502	0.00000963
		151	5755	5,754.96502	0.00000608
		159	5795	5,794.93247	0.00001165
	10.8V	38	5190	5,189.98619	0.00000266
		46	5230	5,229.98508	0.00000285
		54	5270	5,269.99689	0.00000059
		62	5310	5,309.98113	0.00000355
		102	5510	5,509.97797	0.00000400
		110	5550	5,549.97576	0.00000437
		134	5670	5,669.91561	0.00001488
		142	5710	5,709.94453	0.00000971
		151	5755	5,754.99821	0.00000031
		159	5795	5,794.90166	0.00001697

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Operation Mode	802.11 ac_VHT80	Test Date	2018.05.28
Temperature	:24.8 °C	Test By	Hone
Humidity	:63 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10 °C	13.2V	42	5210	5,209.96835	0.00000607
		58	5290	5,289.97683	0.00000438
		106	5530	5,529.98771	0.00000222
		122	5610	5,609.97559	0.00000435
		138	5690	5,689.93434	0.00001154
		155	5775	5,774.91739	0.00001430
	10.8V	42	5210	5,209.99193	0.00000155
		58	5290	5,289.98446	0.00000294
		106	5530	5,529.93490	0.00001177
		122	5610	5,609.90191	0.00001748
		138	5690	5,689.93413	0.00001158
		155	5775	5,774.96142	0.00000668
25 °C	12V	42	5210	5,209.99833	0.00000032
		58	5290	5,289.96387	0.00000683
		106	5530	5,529.98713	0.00000233
		122	5610	5,609.90871	0.00001627
		138	5690	5,689.93432	0.00001154
		155	5775	5,774.98957	0.00000181
50 °C	13.2V	42	5210	5,209.94627	0.00001031
		58	5290	5,289.91266	0.00001651
		106	5530	5,529.90215	0.00001769
		122	5610	5,609.91573	0.00001502
		138	5690	5,689.93386	0.00001162
		155	5775	5,774.96104	0.00000675
	10.8V	42	5210	5,209.90942	0.00001739
		58	5290	5,289.93996	0.00001135
		106	5530	5,529.92371	0.00001380
		122	5610	5,609.90611	0.00001674
		138	5690	5,689.93414	0.00001157
		155	5775	5,774.97534	0.00000427

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10 Minutes:

Operation Mode	802.11 a	Test Date	2018.05.28
Temperature	:24.8 °C	Test By	Hone
Humidity	:63 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10 °C	13.2V	36	5180	5,179.99987	0.00000003
		44	5220	5,219.99269	0.00000140
		48	5240	5,239.99186	0.00000155
		52	5260	5,259.96004	0.00000760
		60	5300	5,299.94841	0.00000973
		64	5320	5,319.99844	0.00000029
		100	5500	5,499.93558	0.00001171
		116	5580	5,579.95096	0.00000879
		140	5700	5,699.95010	0.00000875
		144	5720	5,719.94167	0.00001020
		149	5745	5,744.91852	0.00001418
		157	5785	5,784.93968	0.00001043
	165	5825	5,824.94578	0.00000931	
	10.8V	36	5180	5,179.94757	0.00001012
		44	5220	5,219.92418	0.00001452
		48	5240	5,239.95448	0.00000869
		52	5260	5,259.95089	0.00000934
		60	5300	5,299.92253	0.00001462
		64	5320	5,319.94903	0.00000958
		100	5500	5,499.90467	0.00001733
		116	5580	5,579.95689	0.00000773
		140	5700	5,699.93552	0.00001131
		144	5720	5,719.94222	0.00001010
		149	5745	5,744.94814	0.00000903
157		5785	5,784.90489	0.00001644	
165	5825	5,824.93540	0.00001109		

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25 °C	12V	36	5180	5,179.91325	0.00001675
		44	5220	5,219.92237	0.00001487
		48	5240	5,239.92262	0.00001477
		52	5260	5,259.93736	0.00001191
		60	5300	5,299.94440	0.00001049
		64	5320	5,319.91374	0.00001621
		100	5500	5,499.96912	0.00000561
		116	5580	5,579.90959	0.00001620
		140	5700	5,699.94130	0.00001030
		144	5720	5,719.94141	0.00001024
		149	5745	5,744.95575	0.00000770
		157	5785	5,784.94845	0.00000891
		165	5825	5,824.97412	0.00000444
50 °C	13.2V	36	5180	5,179.95152	0.00000936
		44	5220	5,219.90419	0.00001835
		48	5240	5,239.91447	0.00001632
		52	5260	5,259.92405	0.00001444
		60	5300	5,299.95535	0.00000842
		64	5320	5,319.98677	0.00000249
		100	5500	5,499.91926	0.00001468
		116	5580	5,579.91296	0.00001560
		140	5700	5,699.92863	0.00001252
		144	5720	5,719.94177	0.00001018
		149	5745	5,744.98426	0.00000274
		157	5785	5,784.98177	0.00000315
	165	5825	5,824.92253	0.00001330	
	10.8V	36	5180	5,179.95092	0.00000947
		44	5220	5,219.91206	0.00001685
		48	5240	5,239.99959	0.00000008
		52	5260	5,259.92869	0.00001356
		60	5300	5,299.97536	0.00000465
		64	5320	5,319.99108	0.00000168
		100	5500	5,499.96385	0.00000657
		116	5580	5,579.96566	0.00000615
		140	5700	5,699.95456	0.00000797
		144	5720	5,719.94227	0.00001009
		149	5745	5,744.93797	0.00001080
157		5785	5,784.91843	0.00001410	
165	5825	5,824.98148	0.00000318		

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Operation Mode	802.11 n_HT40	Test Date	2018.05.28
Temperature	:24.8 °C	Test By	Hone
Humidity	:63 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10 °C	13.2V	38	5190	5,189.94070	0.00001143
		46	5230	5,229.93618	0.00001220
		54	5270	5,269.92425	0.00001437
		62	5310	5,309.91030	0.00001689
		102	5510	5,509.94188	0.00001055
		110	5550	5,549.92133	0.00001417
		134	5670	5,669.91720	0.00001460
		142	5710	5,709.94451	0.00000972
		151	5755	5,754.97326	0.00000465
		159	5795	5,794.92848	0.00001234
	10.8V	38	5190	5,189.91212	0.00001693
		46	5230	5,229.93197	0.00001301
		54	5270	5,269.96827	0.00000602
		62	5310	5,309.93653	0.00001195
		102	5510	5,509.97303	0.00000489
		110	5550	5,549.96812	0.00000574
		134	5670	5,669.90595	0.00001659
		142	5710	5,709.94571	0.00000951
		151	5755	5,754.92018	0.00001387
		159	5795	5,794.97967	0.00000351

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25 °C	12V	38	5190	5,189.91528	0.00001632
		46	5230	5,229.96872	0.00000598
		54	5270	5,269.93437	0.00001245
		62	5310	5,309.90226	0.00001841
		102	5510	5,509.91276	0.00001583
		110	5550	5,549.98996	0.00000181
		134	5670	5,669.97206	0.00000493
		142	5710	5,709.94625	0.00000941
		151	5755	5,754.98711	0.00000224
		159	5795	5,794.95375	0.00000798
50 °C	13.2V	38	5190	5,189.96566	0.00000662
		46	5230	5,229.95226	0.00000913
		54	5270	5,269.92757	0.00001374
		62	5310	5,309.94193	0.00001094
		102	5510	5,509.99600	0.00000073
		110	5550	5,549.98239	0.00000317
		134	5670	5,669.96987	0.00000531
		142	5710	5,709.94618	0.00000943
		151	5755	5,754.96555	0.00000599
		159	5795	5,794.94072	0.00001023
	10.8V	38	5190	5,189.90267	0.00001875
		46	5230	5,229.94474	0.00001057
		54	5270	5,269.96874	0.00000593
		62	5310	5,309.98004	0.00000376
		102	5510	5,509.93406	0.00001197
		110	5550	5,549.98686	0.00000237
		134	5670	5,669.93547	0.00001138
		142	5710	5,709.94378	0.00000985
		151	5755	5,754.95571	0.00000770
		159	5795	5,794.96992	0.00000519

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Operation Mode	802.11 ac_VHT80	Test Date	2018.05.28
Temperature	:24.8 °C	Test By	Hone
Humidity	:63 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)	
-10 °C	13.2V	42	5210	5,209.93321	0.00001282	
		58	5290	5,289.93407	0.00001246	
		106	5530	5,529.99817	0.00000033	
		122	5610	5,609.92640	0.00001312	
		138	5690	5,689.93408	0.00001159	
		155	5775	5,774.94331	0.00000982	
	10.8V	42	5210	5,209.92583	0.00001424	
		58	5290	5,289.94904	0.00000963	
		106	5530	5,529.95149	0.00000877	
		122	5610	5,609.91202	0.00001568	
		138	5690	5,689.93444	0.00001152	
		155	5775	5,774.94011	0.00001037	
	25 °C	12V	42	5210	5,209.93308	0.00001284
			58	5290	5,289.93390	0.00001250
106			5530	5,529.94936	0.00000916	
122			5610	5,609.94581	0.00000966	
138			5690	5,689.93376	0.00001164	
155			5775	5,774.94664	0.00000924	
50 °C	13.2V	42	5210	5,209.97605	0.00000460	
		58	5290	5,289.92778	0.00001365	
		106	5530	5,529.91949	0.00001456	
		122	5610	5,609.91562	0.00001504	
		138	5690	5,689.93427	0.00001155	
		155	5775	5,774.98830	0.00000203	
	10.8V	42	5210	5,209.97316	0.00000515	
		58	5290	5,289.90566	0.00001783	
		106	5530	5,529.98156	0.00000333	
		122	5610	5,609.99142	0.00000153	
		138	5690	5,689.93383	0.00001163	
		155	5775	5,774.99656	0.00000060	

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14 ANTENNA REQUIREMENT

14.1 Standard Applicable

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

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

14.2 Antenna Connected Construction

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

~ End of Report ~

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