

TEST REPORT
On behalf of

Mettler Toledo (Changzhou) Measurement Technology Co., Ltd

Product Name: Wireless Module

Model No.: MTxP250303ANT1

FCC ID: 2ALAI24MT106

Prepared For: Mettler Toledo (Changzhou) Measurement Technology Co., Ltd
No.111 Taihu West Road Changzhou City,
Jiangsu Province, China.

Prepared By: Audix Technology (Shanghai) Co., Ltd.
3F and 4F, 34Bldg, 680 Guiping Rd.,
Caohejing Hi-Tech Park,
Shanghai 200233, China

Tel: +86-21-64955500



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Report No. : ACI-F24101
Date of Test : 2023.11.05-2024.06.02
Date of Report : 2024.06.17

The statement is based on a single evaluation of one sample of the above-mentioned products. It does not imply an assessment of the whole production and does not permit the use of the test lab logo. The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.

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TEST REPORT

Applicant : Mettler Toledo (Changzhou) Measurement Technology Co., Ltd
EUT Description : Wireless Module
(A) Model No. : Refer to Sec.2.1
(B) Power Supply : DC 3.15-3.45V
(C) Test Voltage : DC 3.2V (From Li-ion Battery)

Test Procedure Used:

*FCC RULES AND REGULATIONS PART 15 SUBPART C
AND PART 15 SUBPART E
AND ANSI C63.10-2013*

The device described above is tested by Audix Technology (Shanghai) Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart E limits.

The test results are contained in this test report and Audix Technology (Shanghai) Co., Ltd. is assumed full responsibility for the accuracy and completeness of these measurements. This report also shows that the EUT (M/N: Refer to Sec2.1), which was tested is technically compliance with the FCC limits.

This report applies to above tested Sample only. This report shall not be reproduced in part without written approval of Audix Technology (Shanghai) Co., Ltd.

The test results for EUT's WIFI (2.4G)/DFS function are contained in No.ACI-F24100, ACI-F24102 report.

Date of Test : 2023.11.05-2024.06.02 Date of Report : 2024.06.17

Producer :

Mindy Wang

MINDY WANG / Assistant

Review :

Lvy - W

Lvy_Lv / Deputy Assistant Manager



For and on behalf of
Audix Technology (Shanghai) Co., Ltd.

Signatory :

Kamp Chen

Authorized Signature(s) KAMP CHEN / Manager

1 SUMMARY OF STANDARDS AND RESULTS

1.1 Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below:

Description / Test Item	Test Standard	Results	Meets Limit
EMISSION			
Conducted Emission	FCC RULES AND REGULATIONS PART 15 SUBPART C AND PART 15 SUBPART E AND ANSI C63.10:2013	Pass	15.207 15.407(b)(6)
Radiated Emission	FCC RULES AND REGULATIONS PART 15 SUBPART C AND PART 15 SUBPART E AND ANSI C63.10:2013	Pass	15.209(a) 15.407(b)(1) 15.407(b)(2) 15.407(b)(3) 15.407(b)(4) 15.407(b)(6)
Band Edge Measurement	FCC RULES AND REGULATIONS PART 15 SUBPART C AND PART 15 SUBPART E AND ANSI C63.10:2013	Pass	15.209(a) 15.205(a)(c) 15.407(b)(1) 15.407(b)(2) 15.407(b)(3) 15.407(b)(4) 15.407(b)(7)
6 dB&99% Bandwidth Measurement	FCC RULES AND REGULATIONS PART 15 SUBPART E AND ANSI C63.10:2013	Pass	15.407(e)
26 dB Bandwidth Measurement	FCC RULES AND REGULATIONS PART 15 SUBPART E AND ANSI C63.10:2013	Pass	15.407
Maximum Conducted Output Power Measurement	FCC RULES AND REGULATIONS PART 15 SUBPART E AND ANSI C63.10:2013	Pass	15.407(a)(1) 15.407(a)(2) 15.407(a)(3)
Maximum Power Spectral Density Measurement	FCC RULES AND REGULATIONS PART 15 SUBPART E AND ANSI C63.10:2013	Pass	15.407(a)(1) 15.407(a)(2) 15.407(a)(3)
Frequency Stability Measurement	FCC RULES AND REGULATIONS PART 15 SUBPART E AND ANSI C63.10:2013	Pass	15.407(g)
Transmit Power Control Measurement	FCC RULES AND REGULATIONS PART 15 SUBPART E AND ANSI C63.10:2013	N/A	15.407(h)(1)
N/A is an abbreviation for Not Applicable.			

2 GENERAL INFORMATION

2.1 Description of Equipment Under Test

Description : Wireless Module

Type of EUT : ☒ Production ☐ Pre-product ☐ Pro-type

Model Number : MTxP250303ANT1

Radio Tech : IEEE 802.11 a/b/g/n.

Channel Freq. : IEEE 802.11a:
5180MHz—5240MHz; 5260MHz—5320MHz
5500MHz—5700MHz; 5745MHz—5825MHz
IEEE 802.11b: 2412MHz—2462MHz
IEEE 802.11g: 2412MHz—2462MHz
IEEE802.11nHT20:
2412MHz—2462MHz;
5180MHz—5240MHz; 5260MHz—5320MHz
5500MHz—5700MHz; 5745MHz—5825MHz
IEEE802.11nHT40:
5190MHz—5230MHz; 5270MHz—5310MHz
5510MHz—5670MHz; 5755MHz—5795MHz

Modulation : 802.11b: DSSS (CCK, DQPSK, DBPSK);
802.11a/g/n: OFDM (64QAM, 16QAM, QPSK, BPSK).

TPC Info. : TPC Function:
☐ With TPC
☒ Without TPC

Antenna Info. : Transmit Type: 1T1X;
RF module shipped with two ANT ports, and the use
details in EUT list as below:

ANT Port:	ANT1	ANT2
Connector:	IPEX	IPEX
Condition:	In use	No use

Note : The EUT shipped with one of Antennas provided as below:

No.	Model	Antenna Type	Range (MHz)	Peak Gain(dBi)
1.	AC-Q24-50ZDB	Dipole	2400-2483.5	2.7
			5150-5250	-1.3
			5250-5350	-1.1
			5500-5700	1.3
			5700-5825	0.8
2.	AC-Q58-50ZDB	Dipole	2400-2483.5	1.3
			5150-5250	4.8
			5250-5350	5.0
			5500-5700	5.4
			5700-5825	5.1

As the Gain showed as above, we select Antenna #1 for the test of Band 2400-2483.5MHz, Antenna #2 for the test of Band UNII-1&2-A&2-C&3.

Applicant : Mettler Toledo (Changzhou) Measurement Technology Co., Ltd
No.111 Taihu West Road Changzhou City,
Jiangsu Province, China.

Manufacturer : Mettler Toledo (Changzhou) Measurement Technology Co., Ltd
No.111 Taihu West Road Changzhou City,
Jiangsu Province, China.

Factory#1 : Mettler Toledo (Changzhou) Measurement Technology Co., Ltd
No.111 Taihu West Road Changzhou City,
Jiangsu Province, China.

Factory#2 : Mettler-Toledo (Albstadt) GmbH
Unter dem Malesfelsen 34 D – 72458 Albstadt
Germany

Factory#3 : Mettler-Toledo, LLC
1150 Dearborn Drive Worthington, OH 43085-4766
United States of America

2.2 EUT Specifications Assessed in Current Report

Mode	Modulation	Data Rate(Mbps)
802.11a	OFDM (64QAM, 16QAM, QPSK, BPSK)	Up to 54
802.11n-HT 20	OFDM (64QAM, 16QAM, QPSK, BPSK)	Up to 72.2
802.11n-HT 40	OFDM (64QAM, 16QAM, QPSK, BPSK)	Up to 150

Channel List for 11a/11n-HT20			
UNII-1		UNII-2A	
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
36	5180	52	5260
40	5200	56	5280
44	5220	60	5300
48	5240	64	5320
UNII-2C		UNII-3	
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
100	5500	149	5745
104	5520	153	5765
108	5540	157	5785
112	5560	161	5805
116	5580	165	5825
120	5600		
124	5620		
128	5640		
132	5660		
136	5680		
140	5700		

Channel List for 11n-HT40			
UNII-1		UNII-2A	
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
38	5190	54	5270
46	5230	62	5310
UNII-2C		UNII-3	
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
102	5510	151	5755
110	5550	159	5795
118	5590		
126	5630		
134	5670		

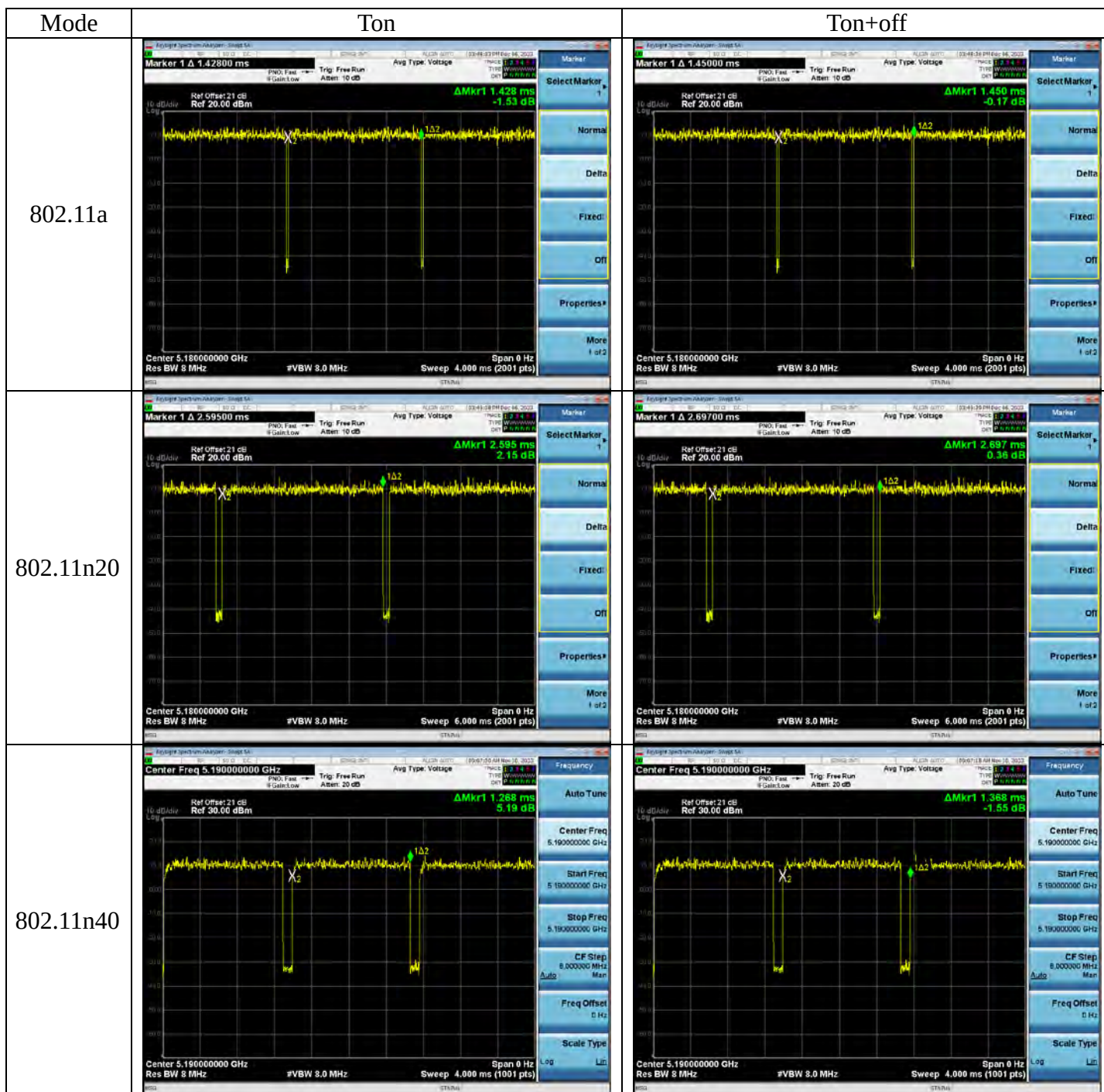
2.3 Test Information

The test software “Teraterm.exe” was used to control EUT work in TX mode, Power Setting and select test channel.

Modulation	data rate (Mbps)	txpwr1 Setting	Test Channel		Frequency (MHz)
802.11a	6	10	Low:	36	5180
		10	Middle:	40	5200
		10	High:	48	5240
		10	Low:	52	5260
		10	Middle:	60	5300
		10	High:	64	5320
		10	Low:	100	5500
		10	Middle:	120	5600
		10	High:	140	5700
		10	Low:	149	5745
		10	Middle:	157	5785
		10	High:	165	5825
802.11n-HT 20	MSC0	10	Low:	36	5180
		10	Middle:	40	5200
		10	High:	48	5240
		10	Low:	52	5260
		10	Middle:	60	5300
		10	High:	64	5320
		10	Low:	100	5500
		10	Middle:	120	5600
		10	High:	140	5700
		10	Low:	149	5745
		10	Middle:	157	5785
		10	High:	165	5825
802.11n-HT 40	MSC0	10	Low:	38	5190
		10	High:	46	5230
		10	Low:	54	5270
		10	High:	62	5310
		10	Low:	102	5510
		10	Middle:	118	5590
		10	High:	134	5670
		10	Low:	151	5755
		10	High:	159	5795

2.4 Duty Cycle Check

Mode	Transmission Duration (ms)	Transmission Period (ms)	Duty Cycle (%)	Duty Cycle Correct Factor
802.11a	1.428	1.45	98.48	0.07
802.11n20	2.595	2.697	96.22	0.17
802.11n40	1.268	1.368	92.69	0.33



2.5 Sample Description

Test Item	Model Number	Sample Number	Date of receipted
Conducted Emission	--	--	--
Radiated Emission	MTxP250303ANT1	E20231121274a-01/01	2023.10.08
Conducted RF Test	MTxP250303ANT1	E20231121274a-01/01	2023.10.08

2.6 Supported Equipment

Brand : Acer
Product Name: : Notebook PC
Model Name : TravelMate P238 series
Model Number : N15W8

Product Name : Test Fixture
Product Function : USB to TTL

2.7 Description of Test Facility

Name of Firm : Audix Technology (Shanghai) Co., Ltd.

Site Location : 3F and 4F, 34Bldg, 680 Guiping Rd.,
Caohejing Hi-Tech Park,
Shanghai 200233, China.

Accredited by NVLAP, Lab Code : 200371-0

FCC Designation Number : CN5027

Test Firm Registration Number : 954668

3 RADIATED EMISSION TEST

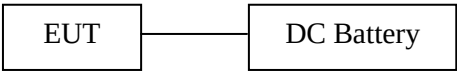
3.1 Test Equipment

The following test equipment are used during the radiated emission test in a semi-anechoic chamber:

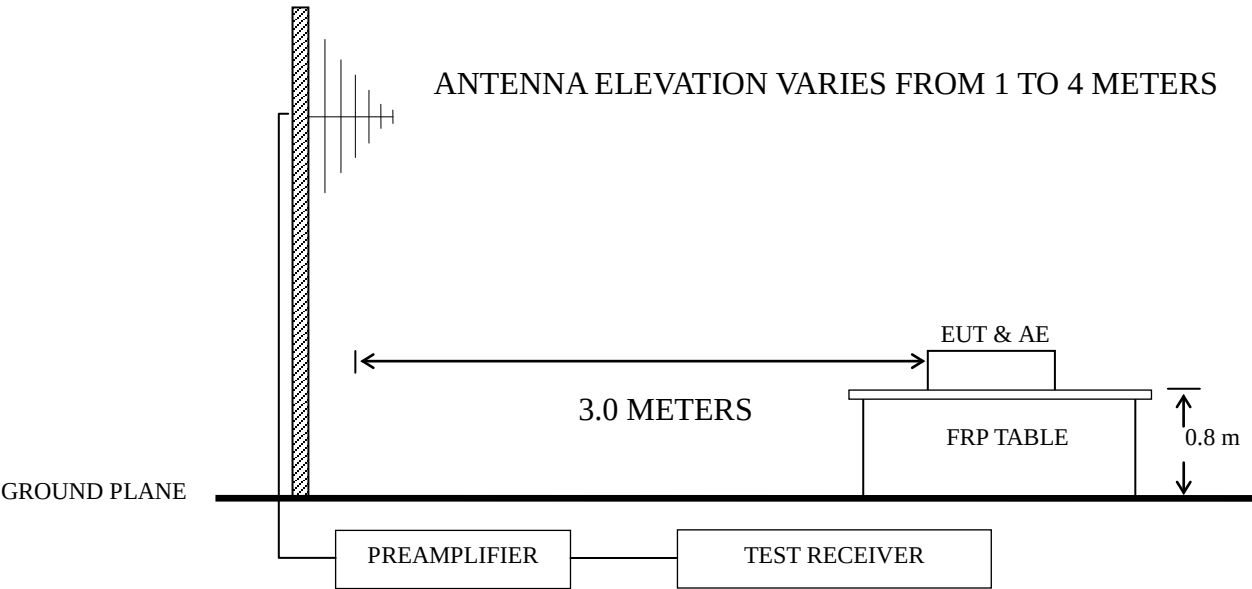
Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Preamplifier	Agilent	8447D	2944A10548	2024.02.22	1 Year
2.	Preamplifier	HP	8449B	3008A00864	2024.02.22	1 Year
3.	EXA Signal Analyzer	Agilent	N9010A	MY52221182	2023.08.09	1 Year
4.	Test Receiver	R&S	ESCI	101303	2024.02.22	1 Year
5.	Bilog Antenna+ 6dB Attenuator	Schwarzbeck	VULB 9168+ EMCI-N-6-06	708+AT-N0638	2024.03.08	1 Year
6.	Horn Antenna	EMCO	3115	96074878	2023.08.02	1 Year
7.	Horn Antenna	EMCO	3116	00062643	2024.01.30	2 Year
8.	Cavity Band Rejection Filter	Microwave	WT-A3882-R10	WT200312-1-1	2024.02.22	1 Year
9.	Coaxial Switch	Anritsu	MP59B	6200655086	2024.02.22	1 Year
10.	Coaxial Cable	SCHAFFNER	RG 212U-MIL C 17+N1K50-EW06 30-N1K50-15m-1	RE-10m-001/ RE-15m-002	2024.02.22	1 Year
11.	Software	Audix	e3	e3.v9.210616	--	--

3.2 Block Diagram of Test Setup

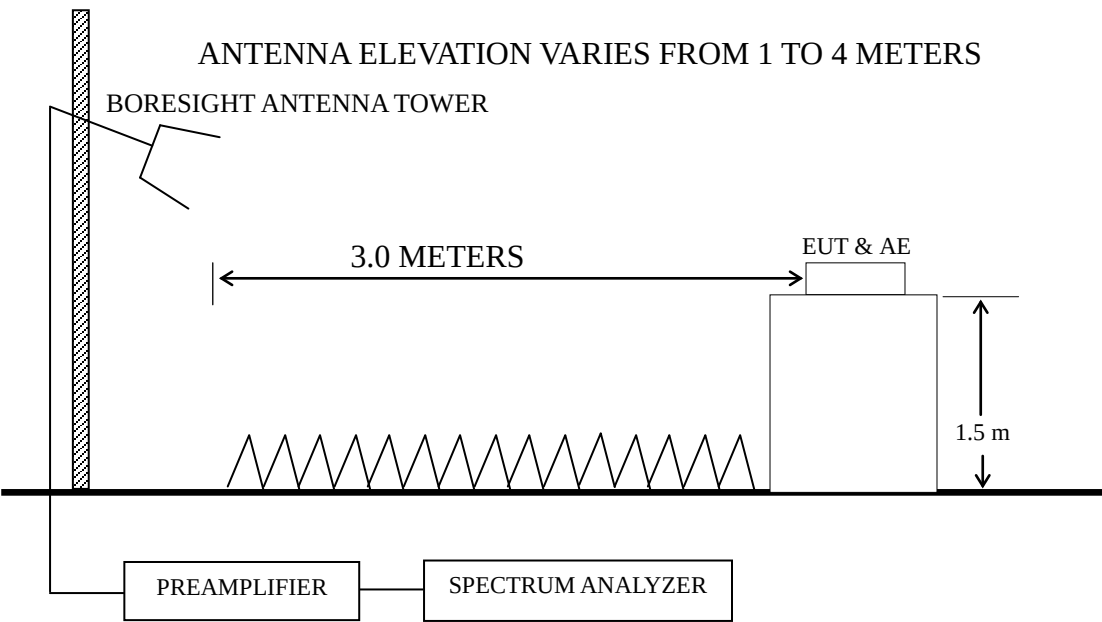
3.2.1 EUT & Peripherals



3.2.2 Below 1GHz



3.2.3 Above 1GHz



3.3 Radiated Emission Limit

§15.209:

Frequency (MHz)	Distance (m)	Field strength limits (μV/m)	
		(μV/m)	dB(μV/m)
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
Above 960	3	500	54.0
NOTE 1 - Emission Level dB (μV/m) = 20 log Emission Level (μV/m) NOTE 2 - The tighter limit applies at the band edges. NOTE 3 - Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system. NOTE 4 - The limits shown are based on Quasi-peak value detector below or equal to 1GHz and Average value detector above 1GHz. NOTE 5 - Above 1 GHz, the limit on peak emission is 20 dB above the maximum permitted average emission limit applicable to the EUT			

§15.407(b):

- (1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (2) For transmitters operating in the 5.25-5.35 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.
- (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (4) For transmitters operating in the 5.725-5.85 GHz band:
 - (i) 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.
- (6) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209.

3.4 Test Configuration

The EUT (listed in Sec.2.1) and the simulators (listed in Sec.2.2) were installed as shown on Sec.4.2 to meet FCC requirements and operating in a manner that tends to maximize its emission level in a normal application.

3.5 Operating Condition of EUT

3.5.1 Setup the EUT as shown in Sec. 4.2.

3.5.2 Turn on the power of all equipment.

3.5.3 Turn the EUT on the test mode, and then test.

3.6 Test Procedures

Radiated emission test applies to harmonics/spurs that fall in the restricted bands listed in Section 15.205. The maximum permitted average field strength is listed in Section 15.209. A pre-amp is necessary for this measurement. For measurement above 1 GHz, set RBW = 1MHz, VBW = 10 Hz, Sweep: Auto. If the emission is pulsed, modify the unit for continuous operation; use the settings shown above, then correct the reading by subtracting the peak-average correction factor, derived from the appropriate duty cycle calculation.

The EUT was placed on a turntable. Below 1 GHz, the table height is 80 cm above the reference ground plane. Above 1 GHz, the table height is 1.5 m. The turntable rotated 360 degrees to determine the position of the maximum emission level. The EUT was set 3 meters away from the receiving antenna, which was mounted on an antenna tower. The antenna moved up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (Calibrated Bilog Antenna) or Horn antenna was used as receiving antenna. Both horizontal and vertical polarizations of the antenna were set on measurement. In order to find the maximum emission, all of the interference cables were manipulated according to ANSI C63.10: 2020 requirements during radiated emission test.

The bandwidth of Test Receiver R&S ESCI was set at 120 kHz from 30MHz to 1000MHz.

The bandwidth of Agilent N9010A was set at 1MHz for above 1GHz.

The frequency range from 30 MHz to 40 GHz (Up to 10th harmonics from fundamental frequency) was checked.

Per KDB 789033 D02 clause G.2.d), if the measurement distance is 3m,
 $EIRP[dBm] = E[dBuV/m] - 95.2$

Get the result of all unwanted emission outside the restricted band is less than the -27dBm/MHz.

All the test results are listed in Sec.4.7.

3.7 Test Results

<PASS>

The frequency and amplitude of the highest radiated emission relative the limit is reported. All the emissions not reported below are too low against the FCC limit.

No any emissions were found from 18GHz to 40GHz. So the Radiated emission from 18GHz to 40GHz were not record.

Frequency range: below 1GHz (Worst case emission)

No.	Operation	Modulation	Channel	Frequency	Data Page
1.	Transmitting	802.11a	48	5240 MHz	P18-19

Frequency range: above 1GHz

No.	Operation	Modulation	Channel	Frequency	Data Page
1.	Transmitting	802.11a	36	5180 MHz	P20-21
2.			40	5200 MHz	P22-23
3.			48	5240 MHz	P24-25
4.			52	5260 MHz	P26-27
5.			60	5300 MHz	P28-29
6.			64	5320 MHz	P30-31
7.			100	5500 MHz	P32-33
8.			116	5580 MHz	P34-35
9.			140	5700 MHz	P36-37
10.			149	5745 MHz	P38-39
11.			157	5785 MHz	P40-41
12.			165	5825 MHz	P42-43
13.		802.11n20	165	5825 MHz	P44-45
14.		802.11n40	159	5795 MHz	P46-47

NOTE 1 – Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin = Limits - Emission Level.

NOTE 2 – “QP” means “Quasi-Peak” values

NOTE 3 – 0° was the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.

NOTE 4 – The emission levels which not reported are too low against the official limit.

NOTE 5 – The emission levels recorded below is data of EUT configured in Lying direction, for this direction was the maximum emission direction during the test. The data of Side & Standing direction are too low against the official limit to be reported.

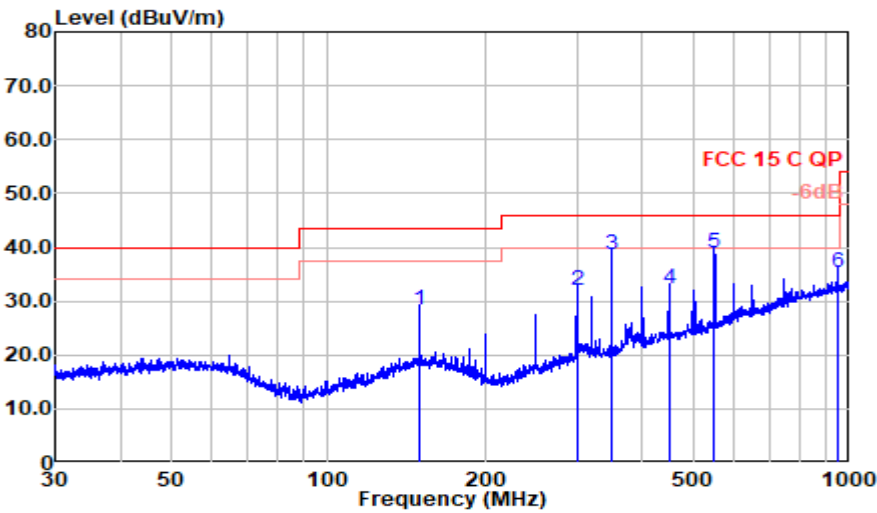
NOTE 6 – All reading are Quasi-Peak values below or equal to 1GHz, Peak and Average values above 1GHz.

For above 1GHz test, if the peak measured value complies with the average limit, it is unnecessary to perform an average measurement.

Radiated emission < 1GHz

Test Date:	2024.05.26	Temp./Hum.:	22°C/51%RH	Test By:	Jarey
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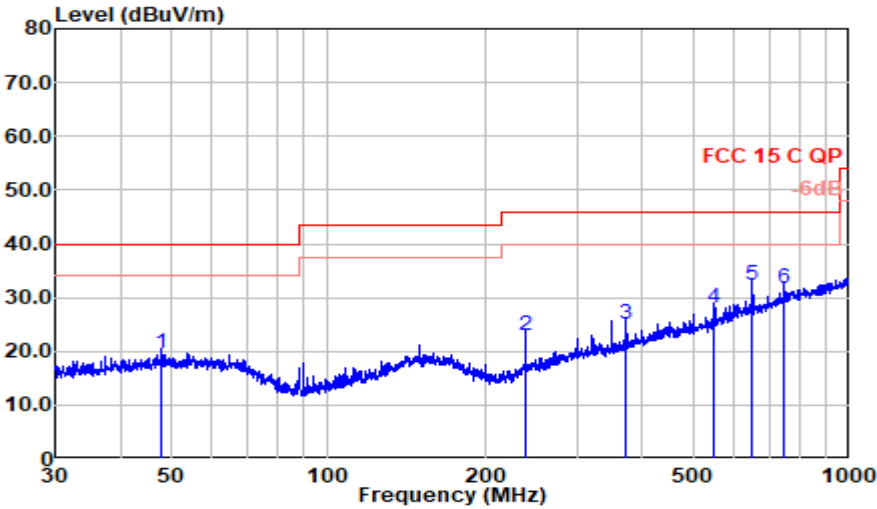
Mode: 802.11a CH5240MHz



Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
150.011	37.22	19.10	1.34	29.40	28.27	43.50	15.23	QP
300.367	39.77	19.11	1.93	28.70	32.11	46.00	13.89	QP
350.477	45.38	20.02	2.00	28.90	38.50	46.00	7.50	QP
450.345	36.34	22.90	2.34	29.30	32.28	46.00	13.72	QP
549.983	41.43	24.20	2.60	29.20	39.03	46.00	6.97	QP
950.426	29.86	29.40	3.33	27.40	35.19	46.00	10.81	QP

Mode: 802.11a CH5240MHz



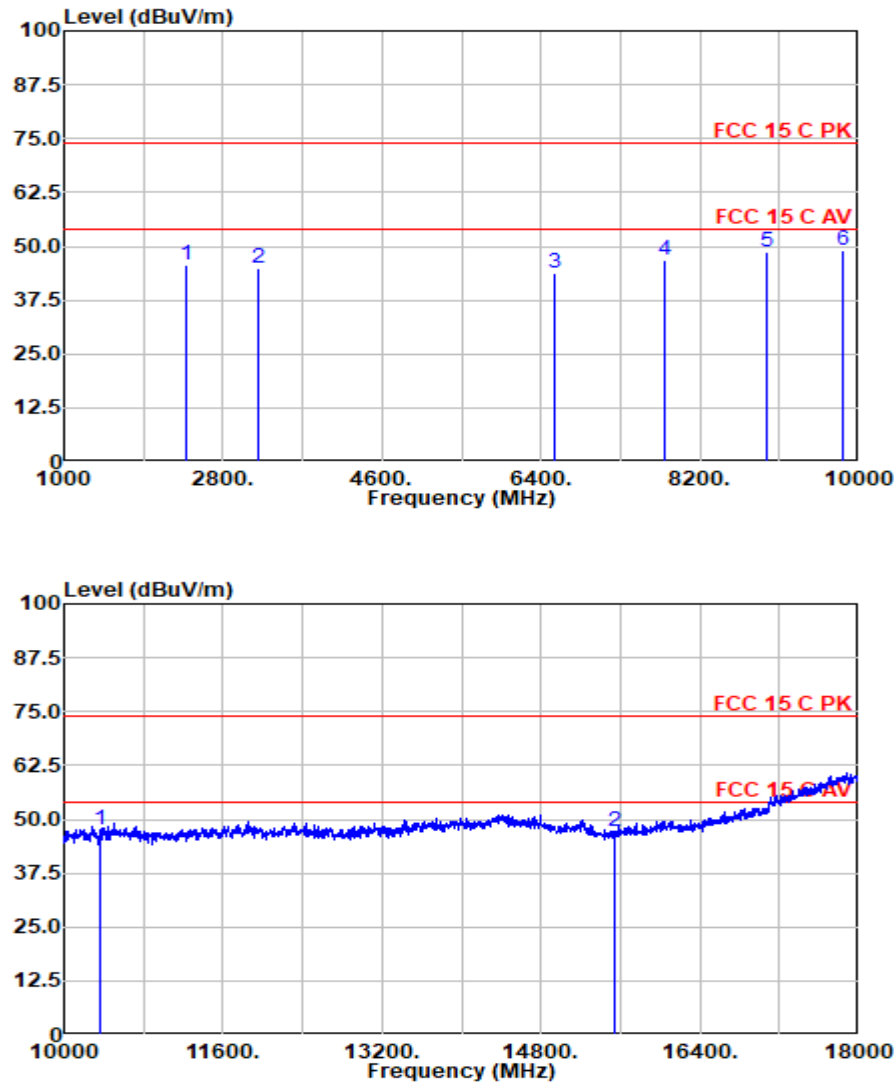
Polarization at Vertical

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
47.826	29.16	19.52	0.75	29.90	19.53	40.00	20.47	QP
239.567	33.14	17.35	1.71	29.20	23.00	46.00	23.00	QP
373.311	31.08	20.83	2.10	29.00	25.02	46.00	20.98	QP
549.983	30.40	24.20	2.60	29.20	28.00	46.00	18.00	QP
650.800	32.17	26.10	2.86	28.80	32.33	46.00	13.67	QP
750.108	29.28	27.70	3.00	28.30	31.69	46.00	14.31	QP

Radiated Emission > 1GHz

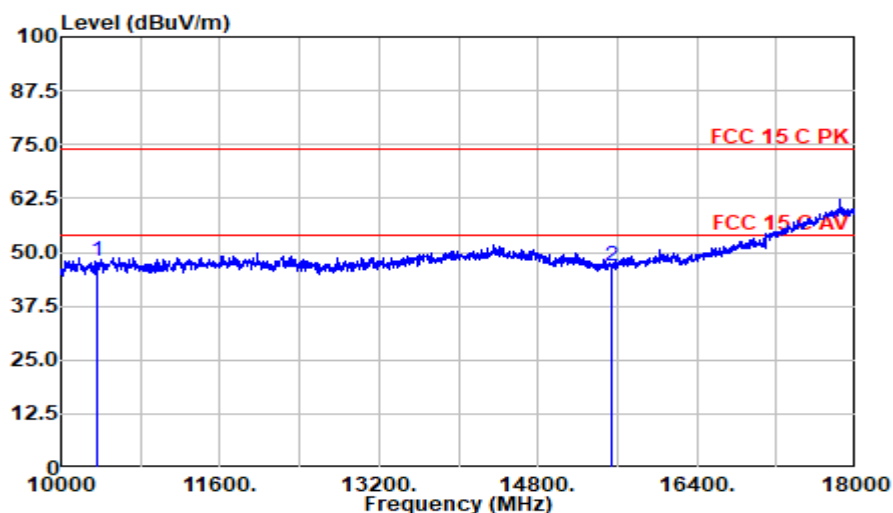
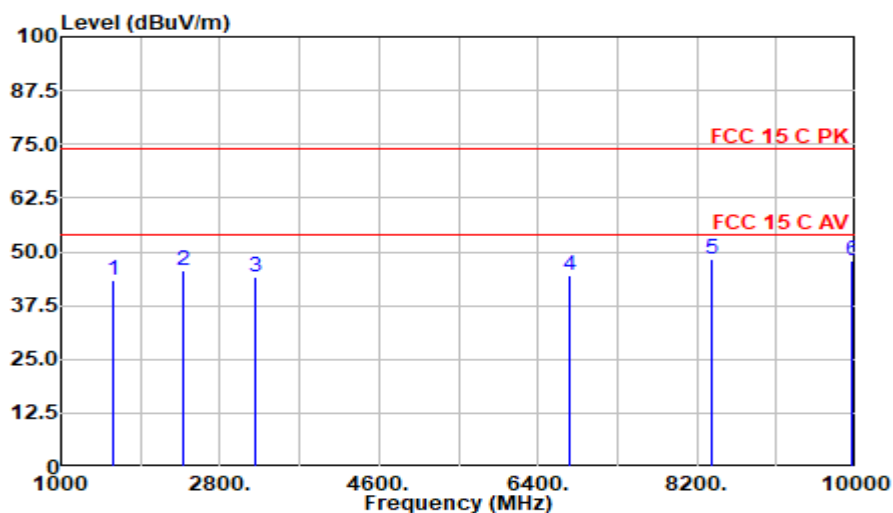
Test Date:	2024.05.27-06.02	Temp./Hum.:	22°C/51%RH	Test By:	Jarey
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Mode: 802.11a CH5180MHz



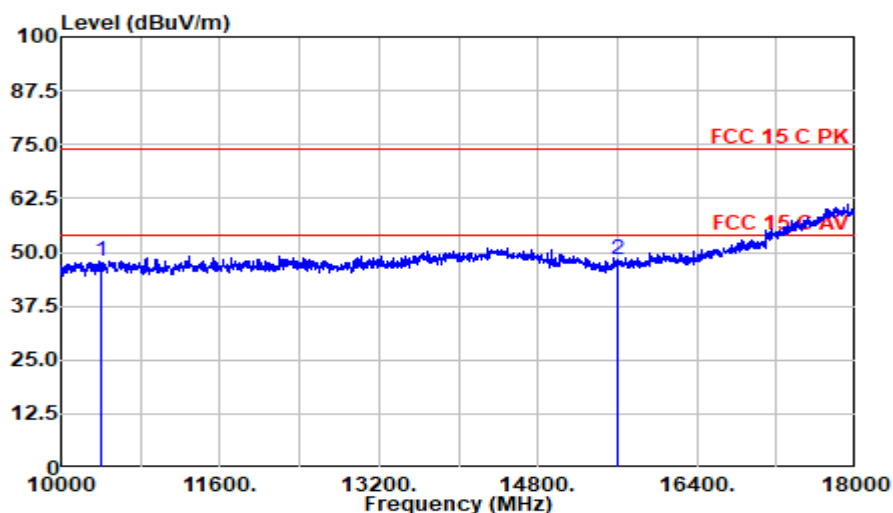
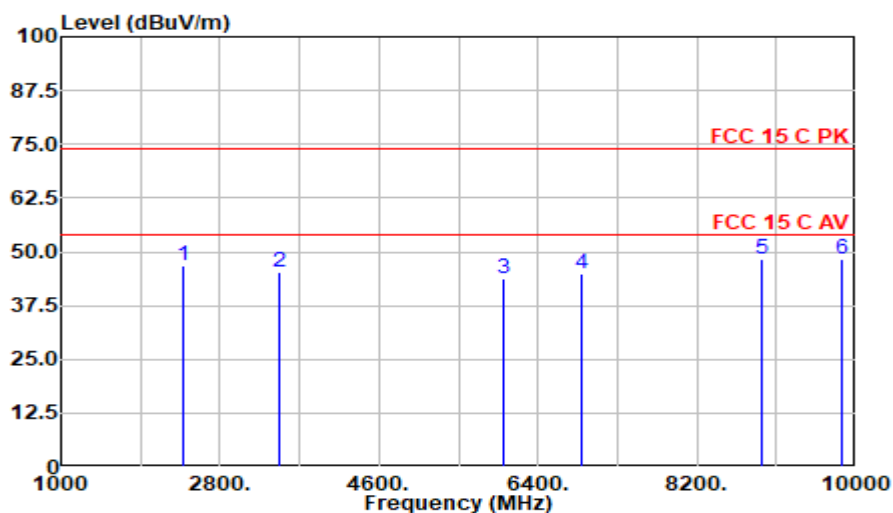
Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
2394.000	48.61	28.58	5.39	36.86	45.72	74.00	28.28	Peak
3197.250	44.14	31.09	6.06	36.21	45.08	74.00	28.92	Peak
6563.250	35.53	34.73	8.90	35.42	43.74	74.00	30.26	Peak
7804.250	35.16	37.02	10.11	35.58	46.71	74.00	27.29	Peak
8964.500	35.59	38.06	10.62	35.60	48.66	74.00	25.34	Peak
9818.750	34.79	38.14	11.31	35.35	48.89	74.00	25.11	Peak
10360.000	32.87	38.46	11.51	35.23	47.61	74.00	26.39	Peak
15540.000	27.88	39.80	13.25	33.86	47.07	74.00	26.93	Peak

Mode: 802.11a CH5180MHz**Polarization at Vertical**

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
1595.000	50.16	26.01	4.52	37.30	43.39	74.00	30.61	Peak
2394.000	48.55	28.58	5.39	36.86	45.66	74.00	28.34	Peak
3197.250	43.38	31.09	6.06	36.21	44.32	74.00	29.68	Peak
6767.250	35.53	35.37	9.07	35.46	44.50	74.00	29.50	Peak
8373.750	35.19	38.10	10.43	35.60	48.13	74.00	25.87	Peak
9954.750	33.56	38.39	11.41	35.31	48.05	74.00	25.95	Peak
10360.000	32.99	38.46	11.51	35.23	47.74	74.00	26.26	Peak
15540.000	27.59	39.80	13.25	33.86	46.77	74.00	27.23	Peak

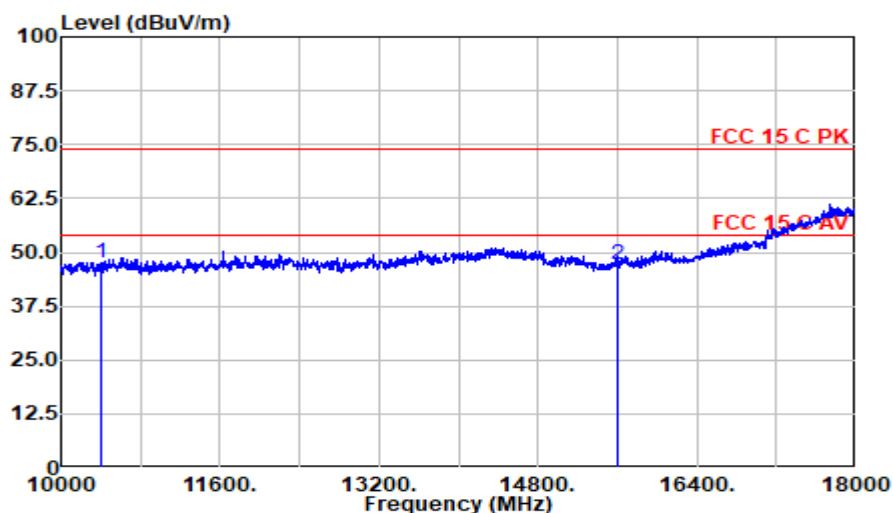
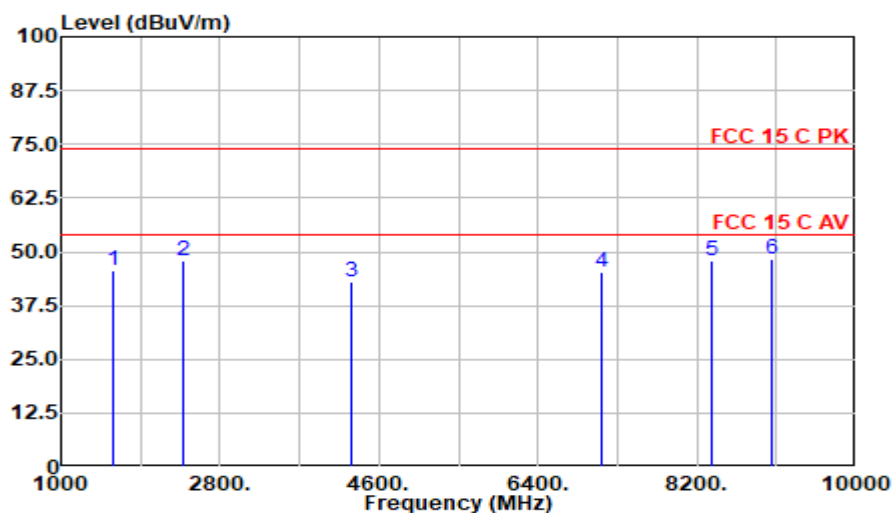
Mode: 802.11a CH5200MHz



Polarization at Horizontal

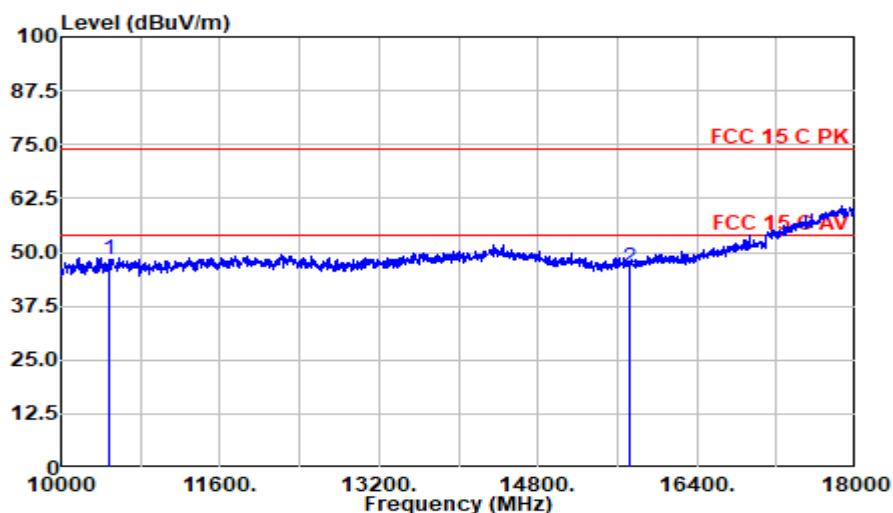
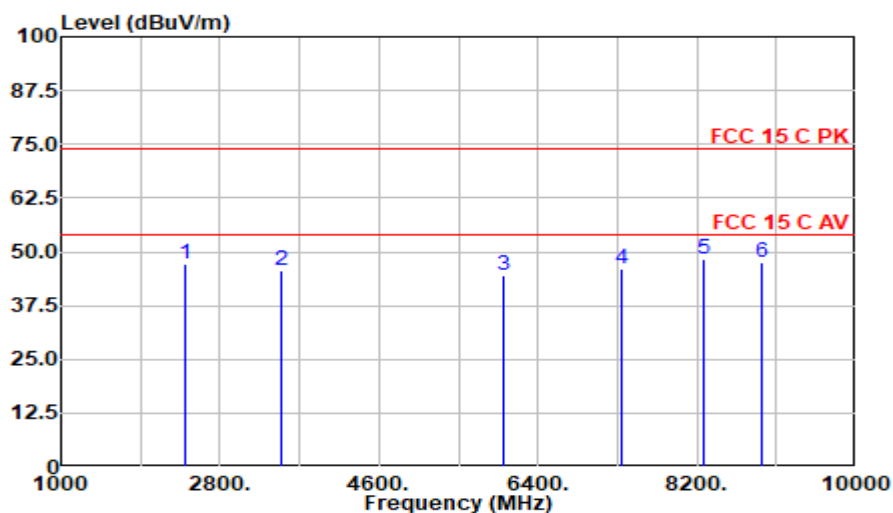
Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
2389.750	49.77	28.56	5.39	36.86	46.86	74.00	27.14	Peak
3465.000	43.72	31.53	6.31	36.10	45.46	74.00	28.54	Peak
6002.250	36.47	34.21	8.42	35.30	43.80	74.00	30.20	Peak
6903.250	35.59	35.51	9.18	35.48	44.79	74.00	29.21	Peak
8939.000	35.15	38.02	10.61	35.60	48.19	74.00	25.81	Peak
9848.500	34.07	38.20	11.33	35.34	48.25	74.00	25.75	Peak
10400.000	32.96	38.50	11.52	35.22	47.76	74.00	26.24	Peak
15600.000	29.13	39.80	13.33	33.88	48.38	74.00	25.62	Peak

Mode: 802.11a CH5200MHz



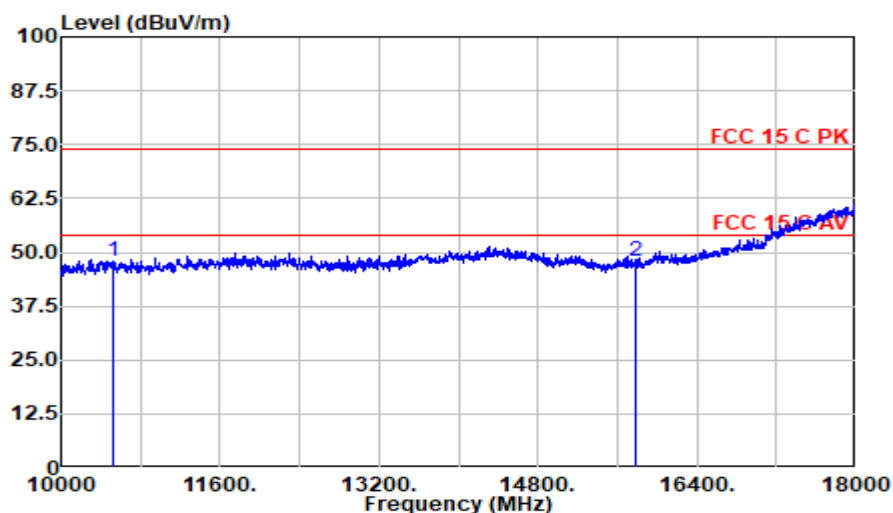
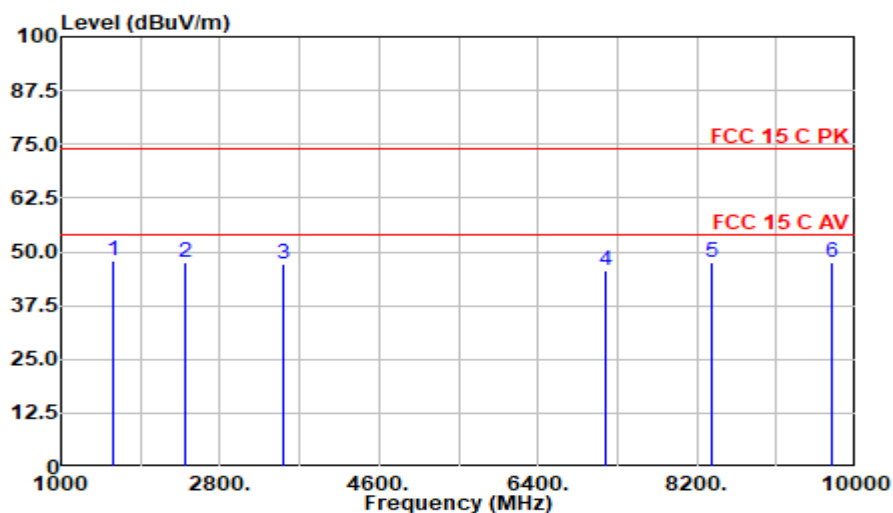
Polarization at Vertical

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
1599.250	52.48	26.00	4.52	37.30	45.71	74.00	28.29	Peak
2389.750	50.67	28.56	5.39	36.86	47.76	74.00	26.24	Peak
4285.250	39.33	32.33	7.08	35.71	43.02	74.00	30.98	Peak
7128.500	35.62	35.91	9.39	35.51	45.42	74.00	28.58	Peak
8369.500	34.94	38.10	10.43	35.60	47.87	74.00	26.13	Peak
9058.000	34.92	38.30	10.68	35.58	48.32	74.00	25.68	Peak
10400.000	32.89	38.50	11.52	35.22	47.69	74.00	26.31	Peak
15600.000	27.85	39.80	13.33	33.88	47.10	74.00	26.90	Peak

Mode: 802.11a CH5240MHz**Polarization at Horizontal**

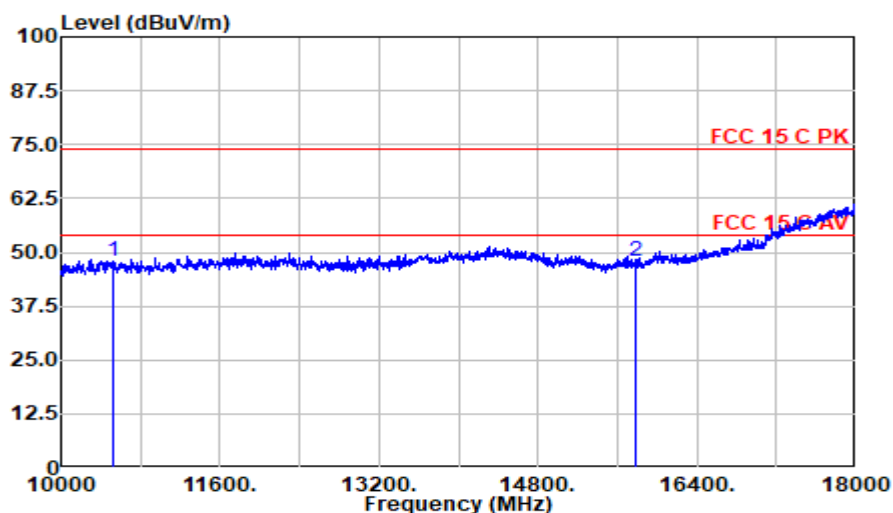
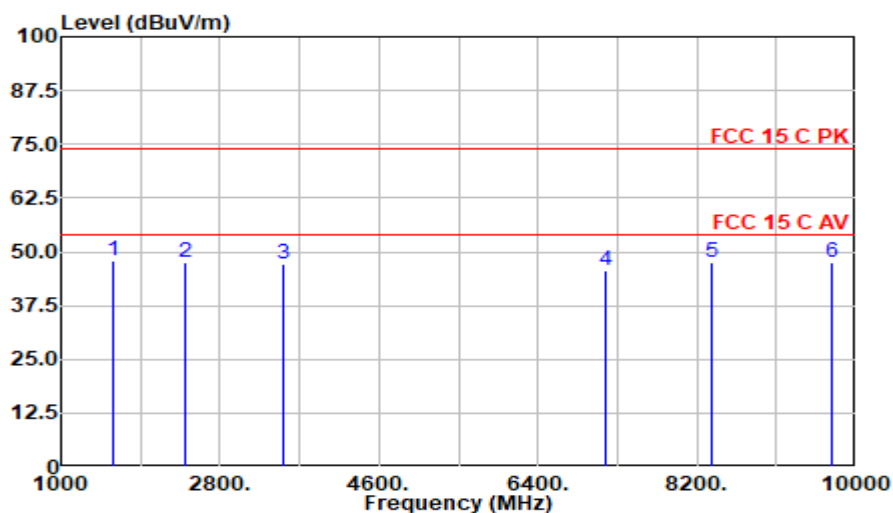
Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
2398.250	50.00	28.59	5.40	36.85	47.13	74.00	26.87	Peak
3494.750	43.68	31.59	6.34	36.09	45.52	74.00	28.48	Peak
6002.250	37.17	34.21	8.42	35.30	44.50	74.00	29.50	Peak
7341.000	35.24	36.85	9.63	35.54	46.18	74.00	27.82	Peak
8276.000	35.48	37.85	10.40	35.60	48.13	74.00	25.87	Peak
8939.000	34.65	38.02	10.61	35.60	47.68	74.00	26.32	Peak
10480.000	33.36	38.58	11.53	35.20	48.27	74.00	25.73	Peak
15720.000	27.02	39.90	13.50	33.92	46.50	74.00	27.50	Peak

Mode: 802.11a CH5240MHz



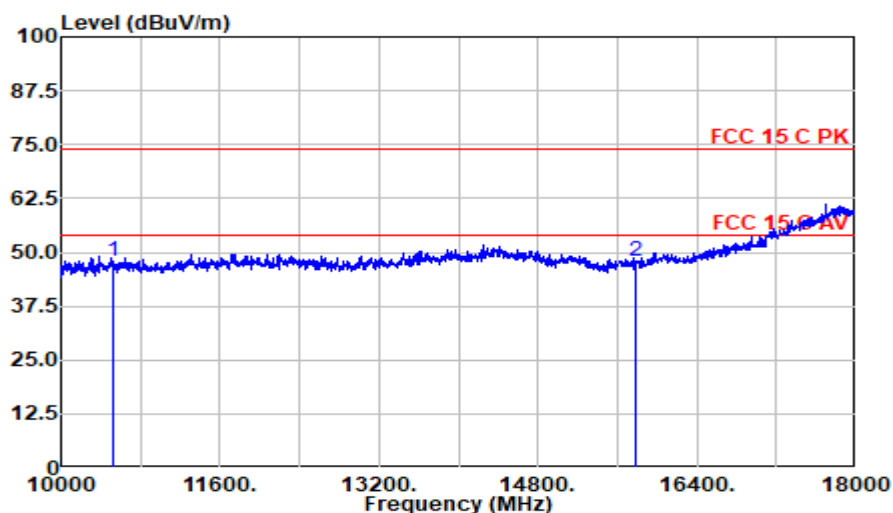
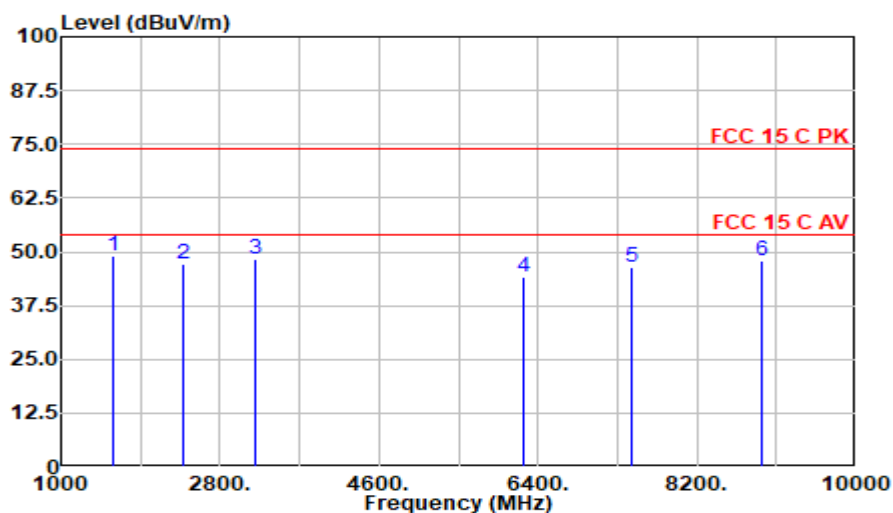
Polarization at Vertical

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
1595.000	54.69	26.01	4.52	37.30	47.92	74.00	26.08	Peak
2398.250	50.53	28.59	5.40	36.85	47.67	74.00	26.33	Peak
3507.500	45.18	31.58	6.35	36.08	47.03	74.00	26.97	Peak
7158.250	35.61	36.02	9.43	35.52	45.54	74.00	28.46	Peak
8373.750	34.74	38.10	10.43	35.60	47.68	74.00	26.32	Peak
9725.250	33.46	38.10	11.23	35.38	47.41	74.00	26.59	Peak
10520.000	32.90	38.60	11.54	35.19	47.84	74.00	26.16	Peak
15780.000	28.41	39.90	13.58	33.94	47.96	74.00	26.04	Peak

Mode: 802.11a CH5260MHz**Polarization at Horizontal**

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
1595.000	54.69	26.01	4.52	37.30	47.92	74.00	26.08	Peak
2398.250	50.53	28.59	5.40	36.85	47.67	74.00	26.33	Peak
3507.500	45.18	31.58	6.35	36.08	47.03	74.00	26.97	Peak
7158.250	35.61	36.02	9.43	35.52	45.54	74.00	28.46	Peak
8373.750	34.74	38.10	10.43	35.60	47.68	74.00	26.32	Peak
9725.250	33.46	38.10	11.23	35.38	47.41	74.00	26.59	Peak
10520.000	32.90	38.60	11.54	35.19	47.84	74.00	26.16	Peak
15780.000	28.41	39.90	13.58	33.94	47.96	74.00	26.04	Peak

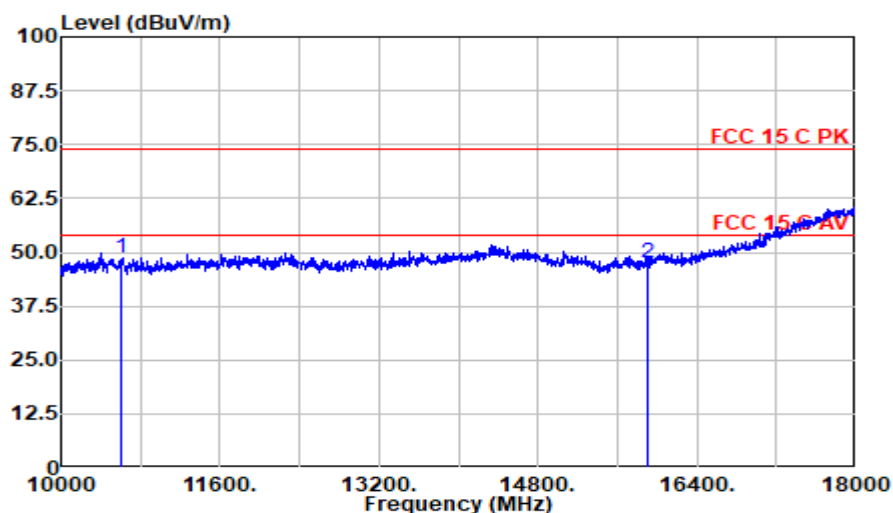
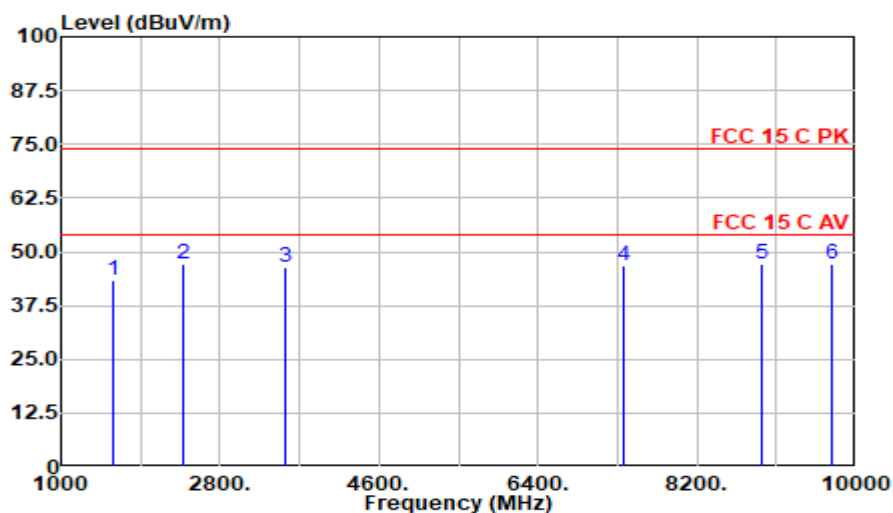
Mode: 802.11a CH5260MHz



Polarization at Vertical

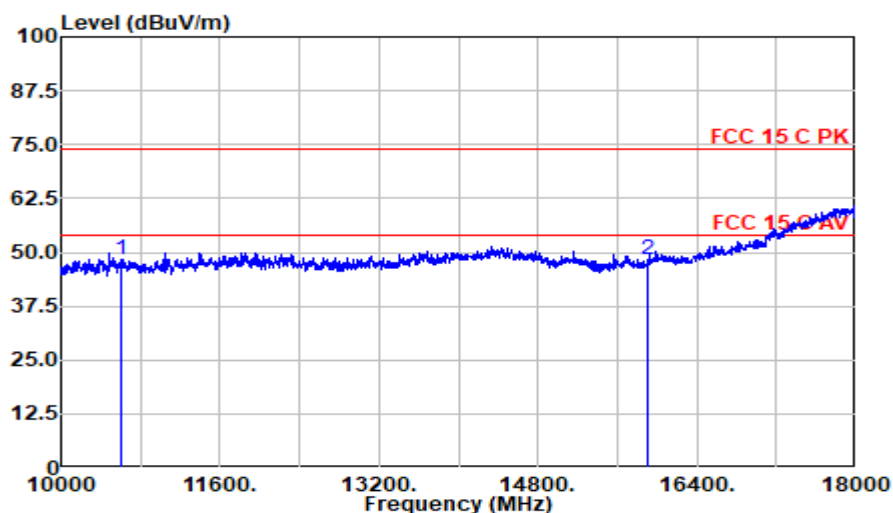
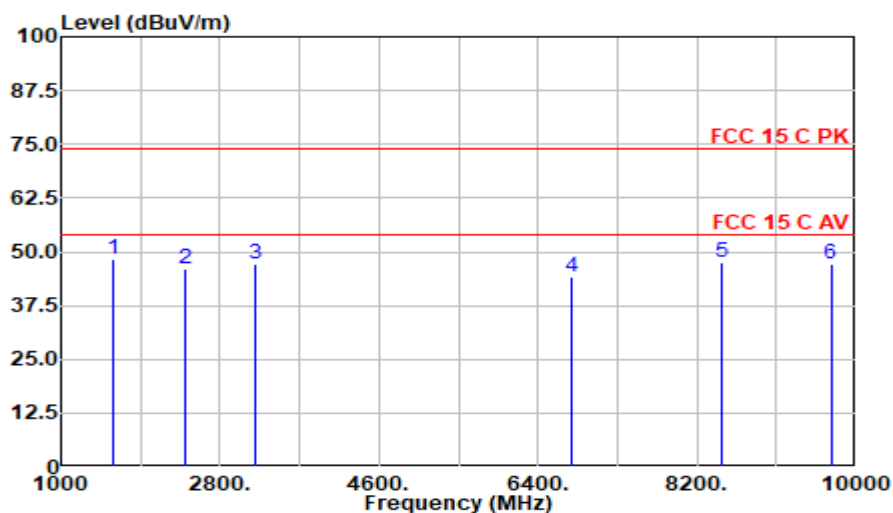
Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
1599.250	55.69	26.00	4.52	37.30	48.92	74.00	25.08	Peak
2389.750	50.08	28.56	5.39	36.86	47.17	74.00	26.83	Peak
3197.250	47.38	31.09	6.06	36.21	48.32	74.00	25.68	Peak
6236.000	36.24	34.67	8.63	35.35	44.19	74.00	29.81	Peak
7455.750	35.49	36.89	9.75	35.55	46.58	74.00	27.42	Peak
8939.000	34.71	38.02	10.61	35.60	47.74	74.00	26.26	Peak
10520.000	33.12	38.60	11.54	35.19	48.07	74.00	25.93	Peak
15780.000	28.50	39.90	13.58	33.94	48.05	74.00	25.95	Peak

Mode: 802.11a CH5300MHz



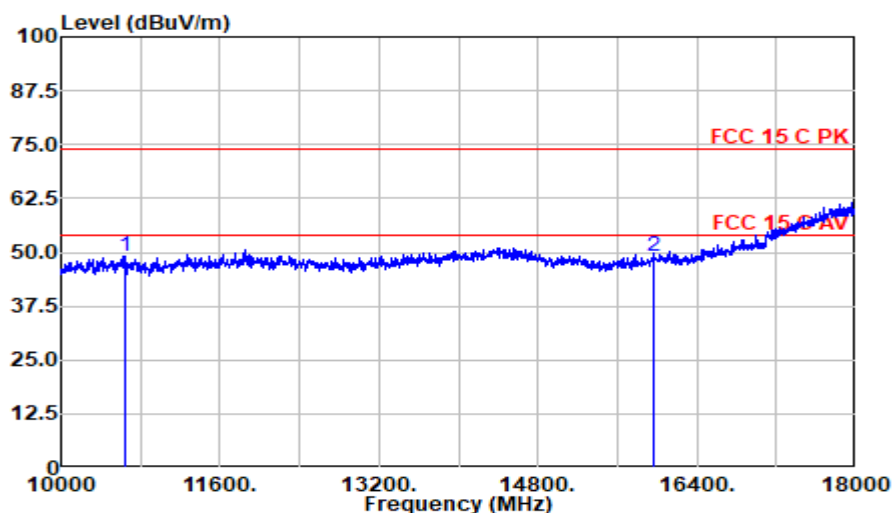
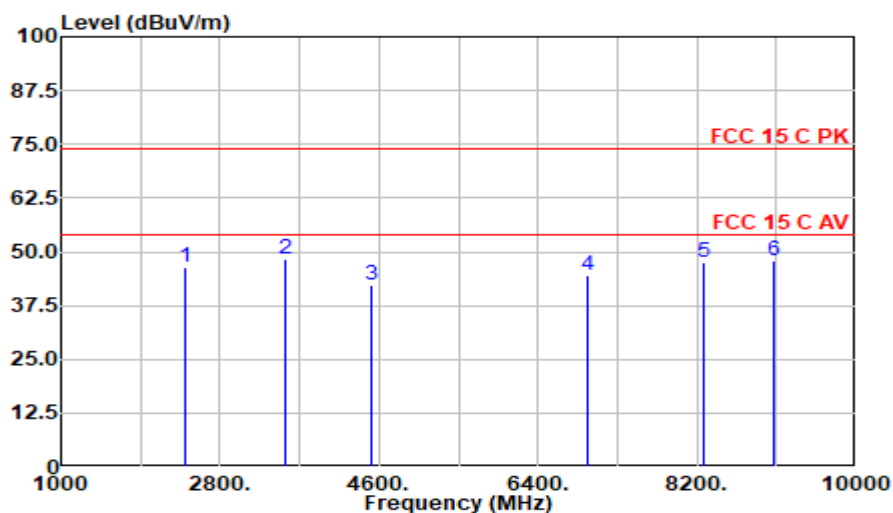
Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
1599.250	50.22	26.00	4.52	37.30	43.44	74.00	30.56	Peak
2394.000	50.06	28.58	5.39	36.86	47.17	74.00	26.83	Peak
3533.000	44.45	31.53	6.37	36.07	46.28	74.00	27.72	Peak
7366.500	35.72	36.90	9.66	35.54	46.74	74.00	27.26	Peak
8943.250	34.10	38.01	10.61	35.60	47.12	74.00	26.88	Peak
9721.000	33.32	38.10	11.23	35.38	47.26	74.00	26.74	Peak
10600.000	33.66	38.60	11.55	35.18	48.64	74.00	25.36	Peak
15900.000	27.67	40.10	13.74	33.97	47.54	74.00	26.46	Peak

Mode: 802.11a CH5300MHz**Polarization at Vertical**

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
1599.250	55.08	26.00	4.52	37.30	48.30	74.00	25.70	Peak
2398.250	49.04	28.59	5.40	36.85	46.17	74.00	27.83	Peak
3201.500	46.35	31.10	6.07	36.21	47.31	74.00	26.69	Peak
6784.250	35.30	35.33	9.08	35.46	44.25	74.00	29.75	Peak
8484.250	34.46	38.20	10.47	35.60	47.52	74.00	26.48	Peak
9716.750	33.33	38.10	11.23	35.38	47.28	74.00	26.72	Peak
10600.000	33.22	38.60	11.55	35.18	48.19	74.00	25.81	Peak
15900.000	28.35	40.10	13.74	33.97	48.22	74.00	25.78	Peak

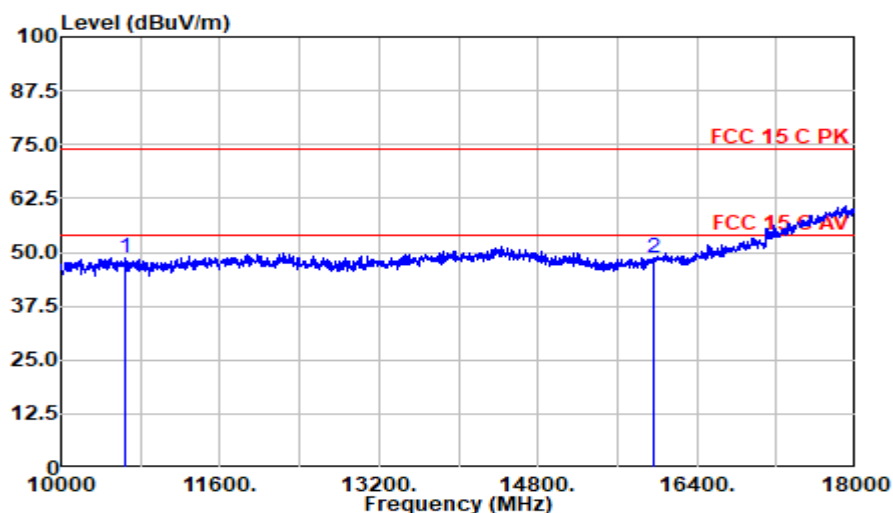
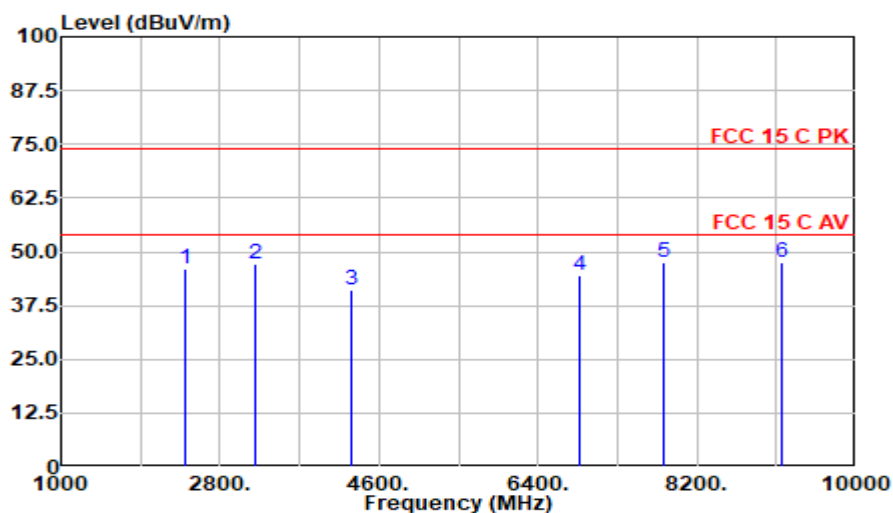
Mode: 802.11a CH5320MHz



Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
2398.250	49.15	28.59	5.40	36.85	46.29	74.00	27.71	Peak
3545.750	46.36	31.51	6.38	36.07	48.18	74.00	25.82	Peak
4510.500	38.08	32.56	7.32	35.58	42.38	74.00	31.62	Peak
6967.000	35.19	35.60	9.22	35.49	44.52	74.00	29.48	Peak
8284.500	34.98	37.87	10.40	35.60	47.65	74.00	26.35	Peak
9062.250	34.66	38.30	10.68	35.58	48.06	74.00	25.94	Peak
10640.000	34.10	38.60	11.56	35.17	49.09	74.00	24.91	Peak
15960.000	29.00	40.10	13.83	33.99	48.94	74.00	25.06	Peak

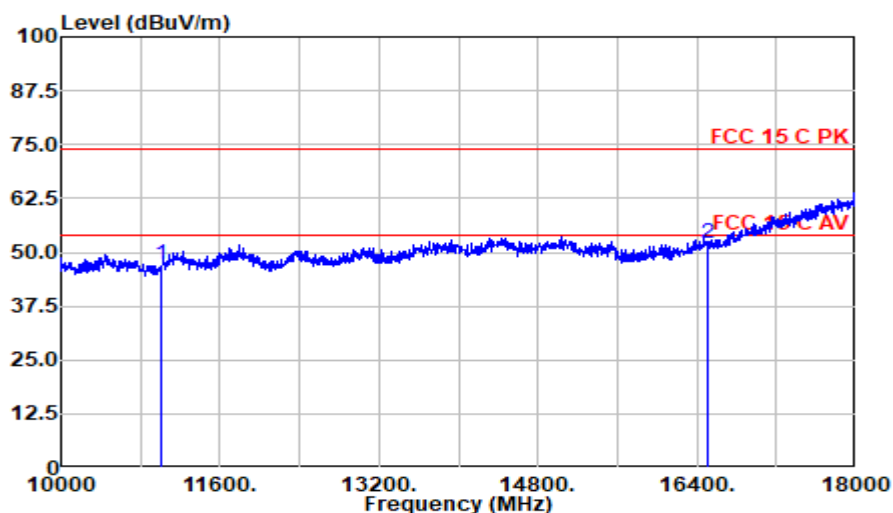
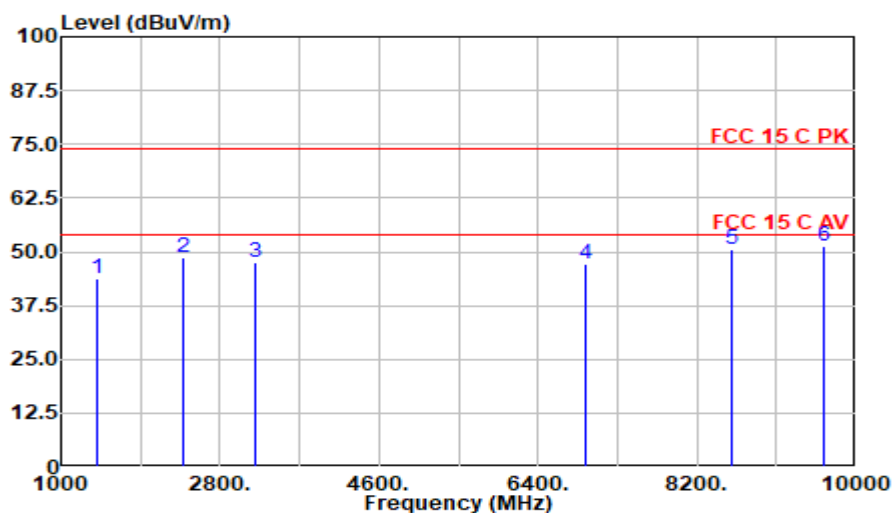
Mode: 802.11a CH5320MHz



Polarization at Vertical

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
2398.250	49.06	28.59	5.40	36.85	46.20	74.00	27.80	Peak
3188.750	46.22	31.06	6.06	36.22	47.11	74.00	26.89	Peak
4298.000	37.62	32.30	7.09	35.71	41.31	74.00	32.69	Peak
6877.750	35.30	35.46	9.16	35.48	44.44	74.00	29.56	Peak
7821.250	36.05	37.09	10.13	35.58	47.69	74.00	26.31	Peak
9155.750	34.31	38.21	10.76	35.55	47.73	74.00	26.27	Peak
10640.000	33.74	38.60	11.56	35.17	48.73	74.00	25.27	Peak
15960.000	28.62	40.10	13.83	33.99	48.56	74.00	25.44	Peak

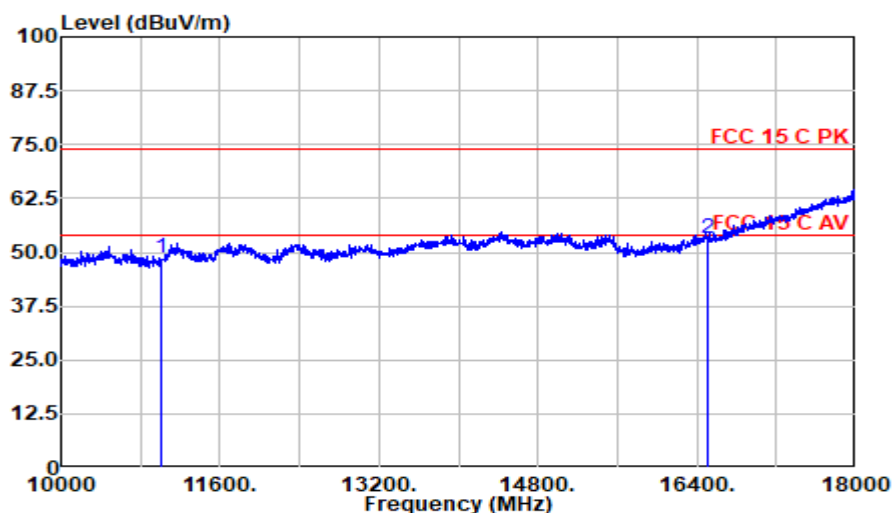
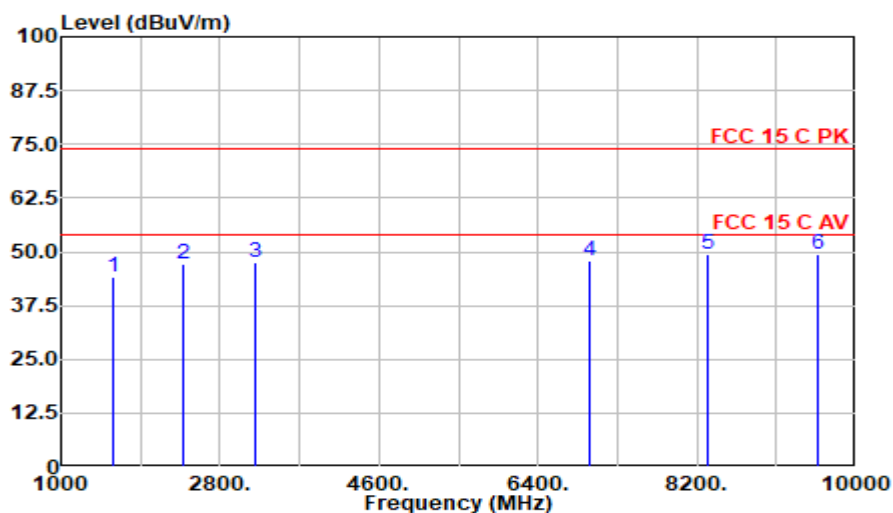
Mode: 802.11a CH5500MHz



Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
1399.500	50.67	26.00	4.23	37.30	43.60	74.00	30.40	Peak
2389.750	51.68	28.56	5.39	36.86	48.77	74.00	25.23	Peak
3188.750	46.53	31.06	6.06	36.22	47.43	74.00	26.57	Peak
6950.000	37.86	35.60	9.21	35.49	47.18	74.00	26.82	Peak
8590.500	37.69	38.12	10.50	35.60	50.71	74.00	23.29	Peak
9631.750	37.25	38.20	11.16	35.41	51.20	74.00	22.80	Peak
11000.000	32.22	38.60	11.62	35.10	47.34	74.00	26.66	Peak
16500.000	30.78	40.60	14.34	33.64	52.08	74.00	21.92	Peak

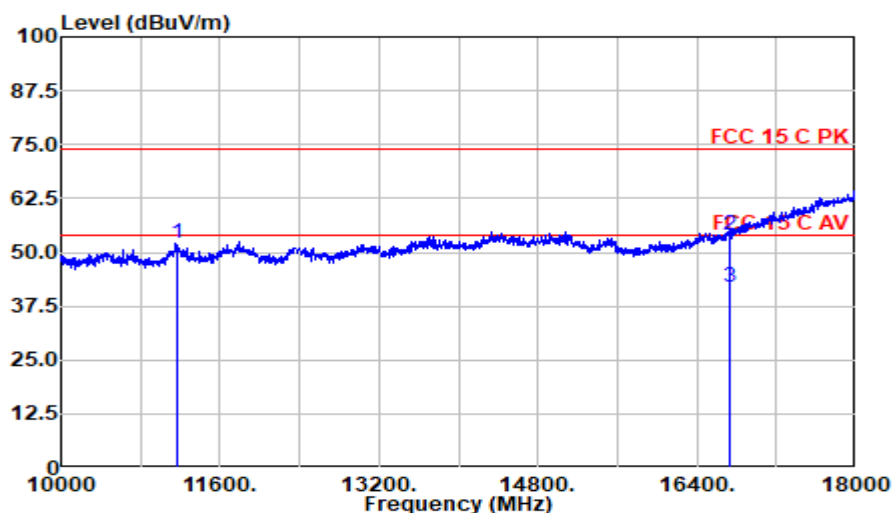
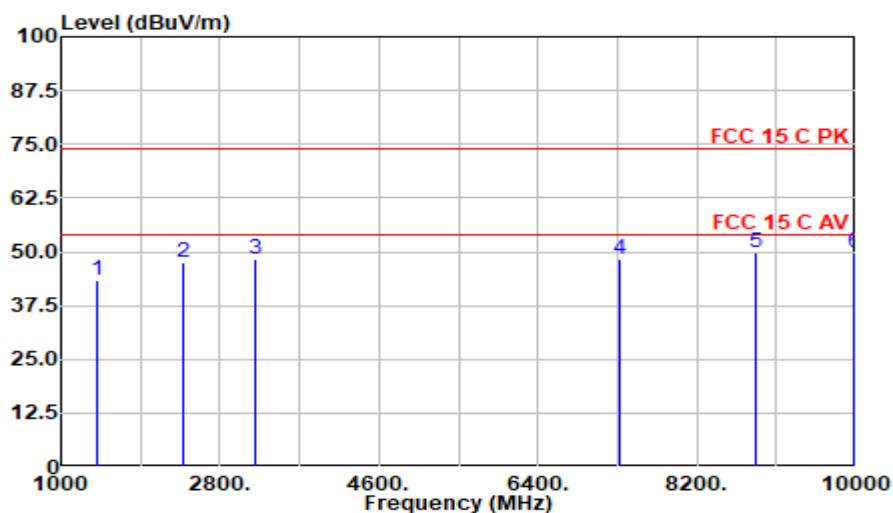
Mode: 802.11a CH5500MHz



Polarization at Vertical

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
1595.000	50.78	26.01	4.52	37.30	44.00	74.00	30.00	Peak
2394.000	50.18	28.58	5.39	36.86	47.29	74.00	26.71	Peak
3188.750	46.71	31.06	6.06	36.22	47.61	74.00	26.39	Peak
6992.500	38.55	35.60	9.24	35.50	47.90	74.00	26.10	Peak
8331.250	36.54	38.03	10.42	35.60	49.38	74.00	24.62	Peak
9572.250	35.41	38.20	11.11	35.42	49.30	74.00	24.70	Peak
11000.000	33.51	38.60	11.62	35.10	48.63	74.00	25.37	Peak
16500.000	31.73	40.60	14.34	33.64	53.03	74.00	20.97	Peak

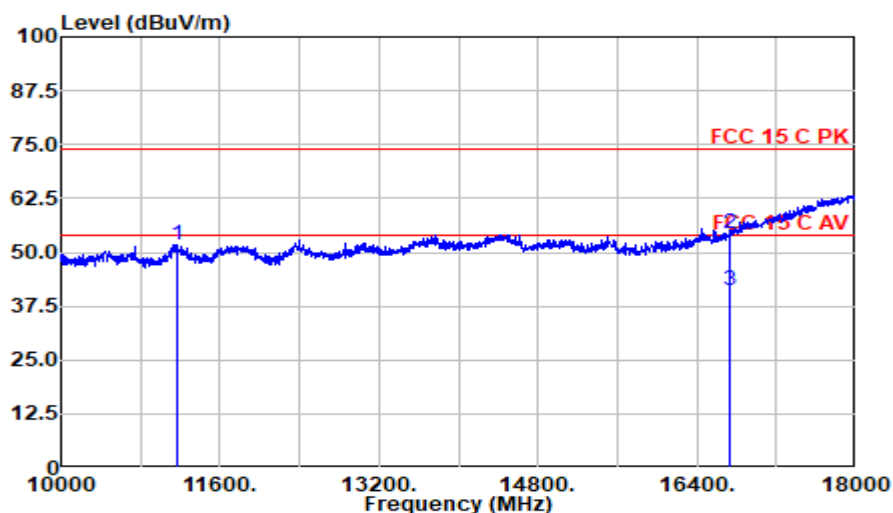
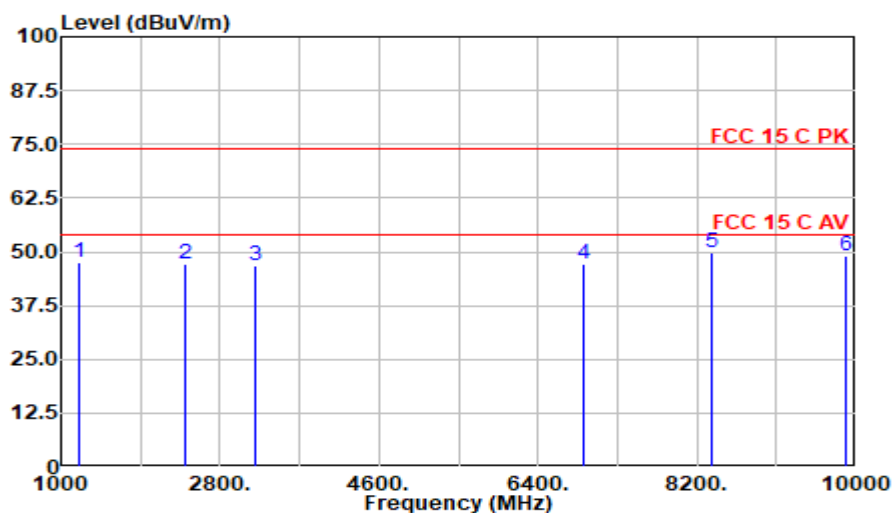
Mode: 802.11a CH5580MHz



Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
1399.500	50.38	26.00	4.23	37.30	43.32	74.00	30.68	Peak
2385.500	50.67	28.54	5.38	36.87	47.74	74.00	26.26	Peak
3193.000	47.52	31.07	6.06	36.21	48.44	74.00	25.56	Peak
7324.000	37.48	36.74	9.61	35.53	48.30	74.00	25.70	Peak
8858.250	36.77	37.93	10.59	35.60	49.69	74.00	24.31	Peak
9971.750	35.34	38.36	11.43	35.31	49.82	74.00	24.18	Peak
11160.000	36.55	38.70	11.75	35.08	51.92	74.00	22.08	Peak
16740.000	31.33	41.64	14.56	33.48	54.05	74.00	19.95	Peak
16740.000	19.23	41.64	14.56	33.48	41.95	54.00	12.05	Average

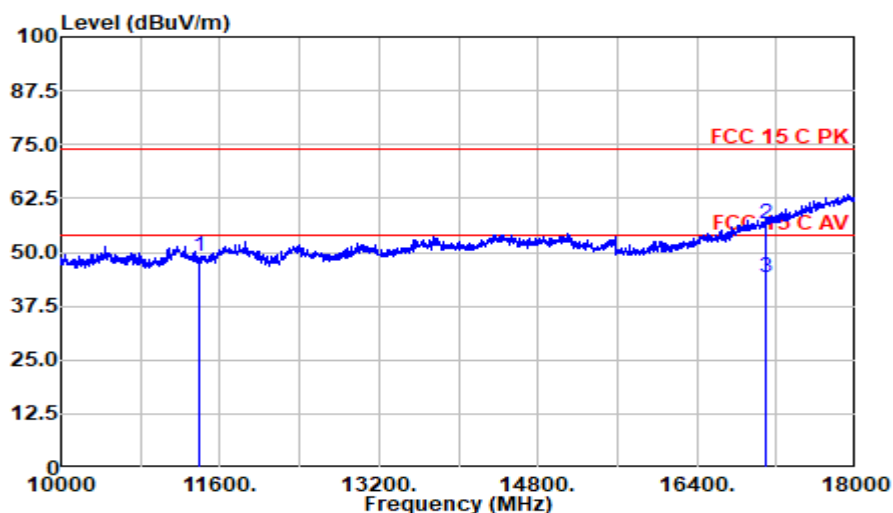
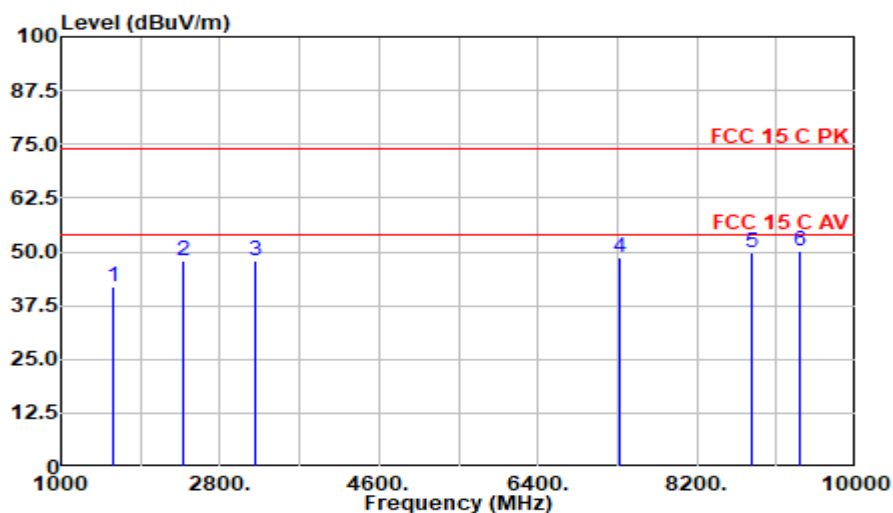
Mode: 802.11a CH5580MHz



Polarization at Vertical

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
1195.500	55.86	25.06	3.89	37.30	47.51	74.00	26.49	Peak
2398.250	50.08	28.59	5.40	36.85	47.21	74.00	26.79	Peak
3188.750	45.77	31.06	6.06	36.22	46.67	74.00	27.33	Peak
6911.750	37.85	35.52	9.18	35.48	47.07	74.00	26.93	Peak
8373.750	36.80	38.10	10.43	35.60	49.74	74.00	24.26	Peak
9891.000	34.80	38.36	11.36	35.33	49.20	74.00	24.80	Peak
11160.000	36.23	38.70	11.75	35.08	51.60	74.00	22.40	Peak
16740.000	31.70	41.64	14.56	33.48	54.42	74.00	19.58	Peak
16740.000	18.47	41.64	14.56	33.48	41.19	54.00	12.81	Average

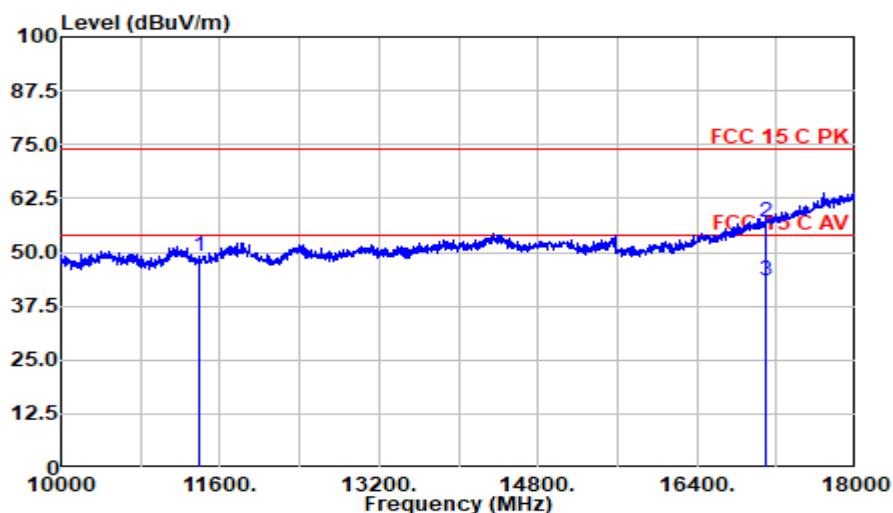
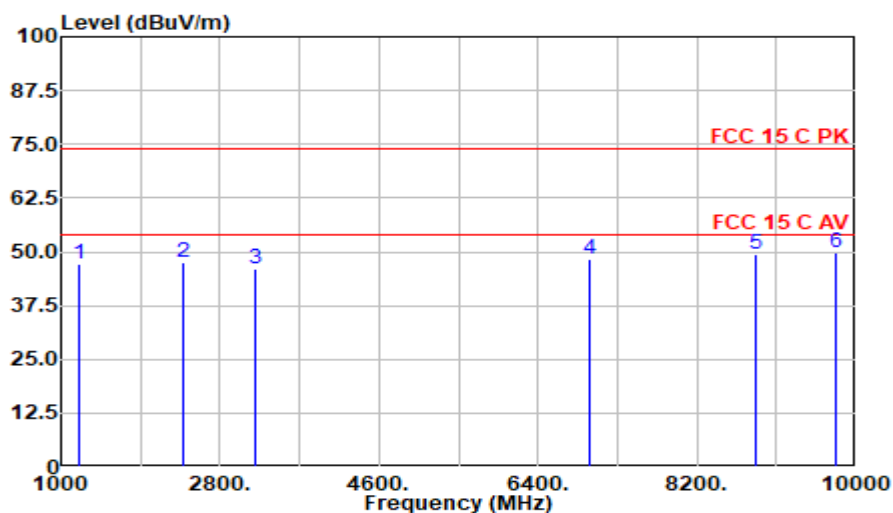
Mode: 802.11a CH5700MHz



Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
1595.000	48.59	26.01	4.52	37.30	41.81	74.00	32.19	Peak
2394.000	50.85	28.58	5.39	36.86	47.96	74.00	26.04	Peak
3193.000	47.15	31.07	6.06	36.21	48.07	74.00	25.93	Peak
7315.500	37.94	36.69	9.60	35.53	48.70	74.00	25.30	Peak
8828.500	36.77	37.90	10.58	35.60	49.65	74.00	24.35	Peak
9359.750	36.58	38.04	10.94	35.49	50.06	74.00	23.94	Peak
11400.000	33.45	38.90	11.94	35.06	49.23	74.00	24.77	Peak
17100.000	31.58	43.30	14.94	33.27	56.55	74.00	17.45	Peak
17100.000	19.16	43.30	14.94	33.27	44.13	54.00	9.87	Average

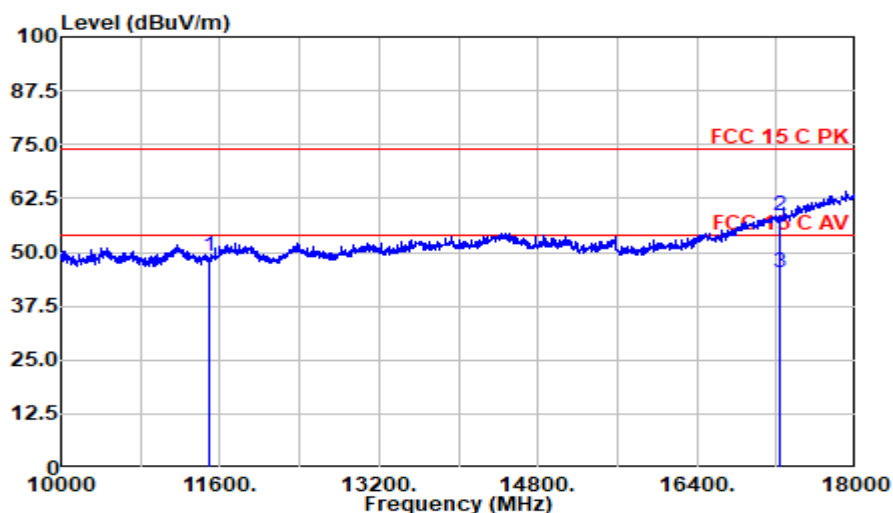
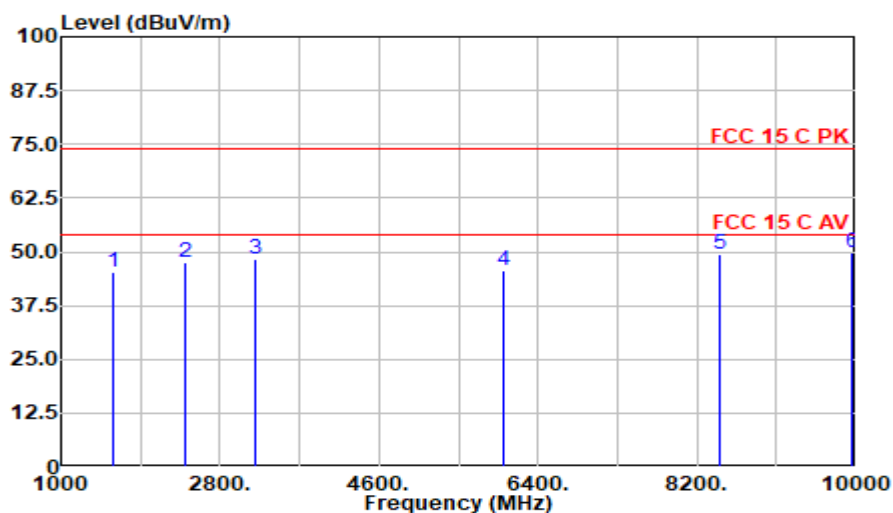
Mode: 802.11a CH5700MHz



Polarization at Vertical

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
1199.750	55.52	25.10	3.90	37.30	47.22	74.00	26.78	Peak
2394.000	50.53	28.58	5.39	36.86	47.64	74.00	26.36	Peak
3197.250	45.21	31.09	6.06	36.21	46.16	74.00	27.84	Peak
6984.000	39.11	35.60	9.24	35.50	48.45	74.00	25.55	Peak
8875.250	36.50	38.00	10.59	35.60	49.49	74.00	24.51	Peak
9772.000	35.70	38.10	11.27	35.37	49.70	74.00	24.30	Peak
11400.000	33.12	38.90	11.94	35.06	48.90	74.00	25.10	Peak
17100.000	31.94	43.30	14.94	33.27	56.91	74.00	17.09	Peak
17100.000	18.39	43.30	14.94	33.27	43.37	54.00	10.63	Average

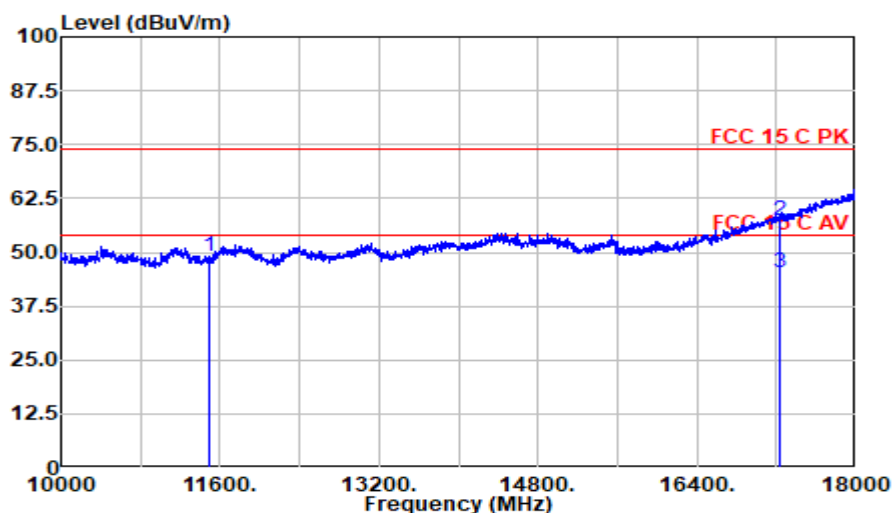
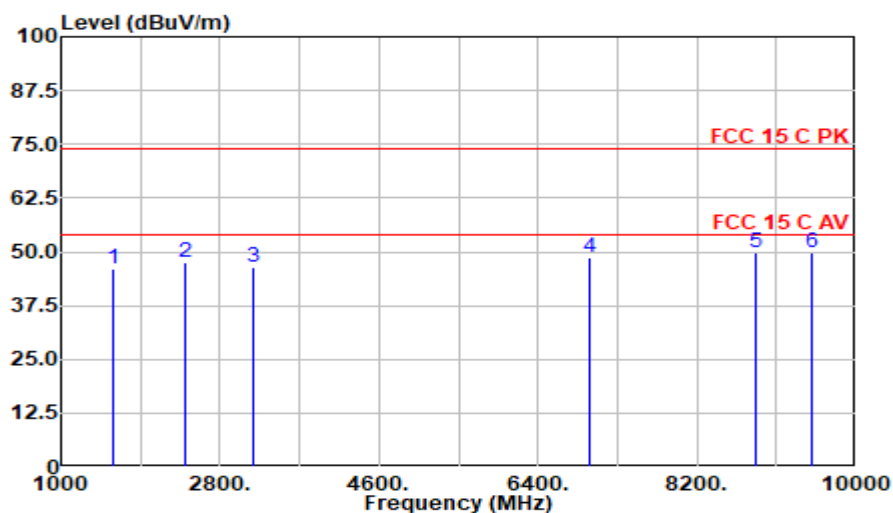
Mode: 802.11a CH5745MHz



Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
1590.750	51.95	26.02	4.51	37.30	45.18	74.00	28.82	Peak
2398.250	50.41	28.59	5.40	36.85	47.54	74.00	26.46	Peak
3188.750	47.58	31.06	6.06	36.22	48.48	74.00	25.52	Peak
6006.500	38.17	34.23	8.43	35.30	45.52	74.00	28.48	Peak
8463.000	36.54	38.20	10.46	35.60	49.60	74.00	24.40	Peak
9959.000	35.36	38.38	11.42	35.31	49.85	74.00	24.15	Peak
11490.000	32.97	39.08	12.01	35.05	49.01	74.00	24.99	Peak
17235.000	32.72	43.98	15.15	33.23	58.61	74.00	15.39	Peak
17235.000	19.47	43.98	15.15	33.23	45.37	54.00	8.63	Average

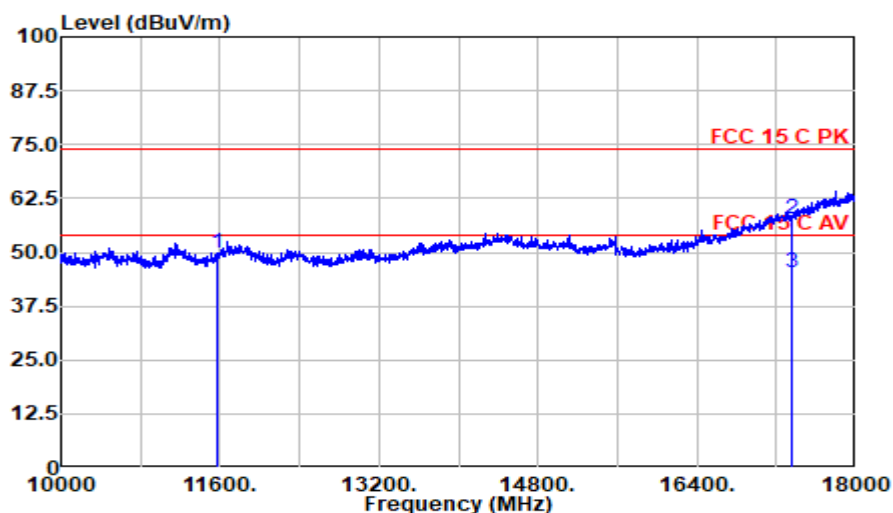
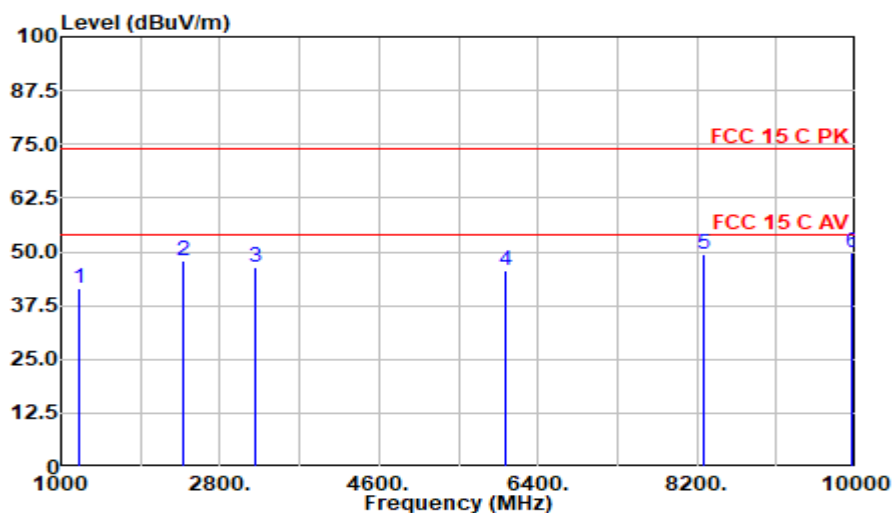
Mode: 802.11a CH5745MHz



Polarization at Vertical

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
1599.250	52.91	26.00	4.52	37.30	46.14	74.00	27.86	Peak
2398.250	50.48	28.59	5.40	36.85	47.62	74.00	26.38	Peak
3184.500	45.56	31.04	6.05	36.22	46.43	74.00	27.57	Peak
6988.250	39.45	35.60	9.24	35.50	48.79	74.00	25.21	Peak
8875.250	36.97	38.00	10.59	35.60	49.96	74.00	24.04	Peak
9500.000	35.87	38.40	11.05	35.45	49.88	74.00	24.12	Peak
11490.000	32.93	39.08	12.01	35.05	48.97	74.00	25.03	Peak
17235.000	31.56	43.98	15.15	33.23	57.46	74.00	16.54	Peak
17235.000	19.36	43.98	15.15	33.23	45.25	54.00	8.75	Average

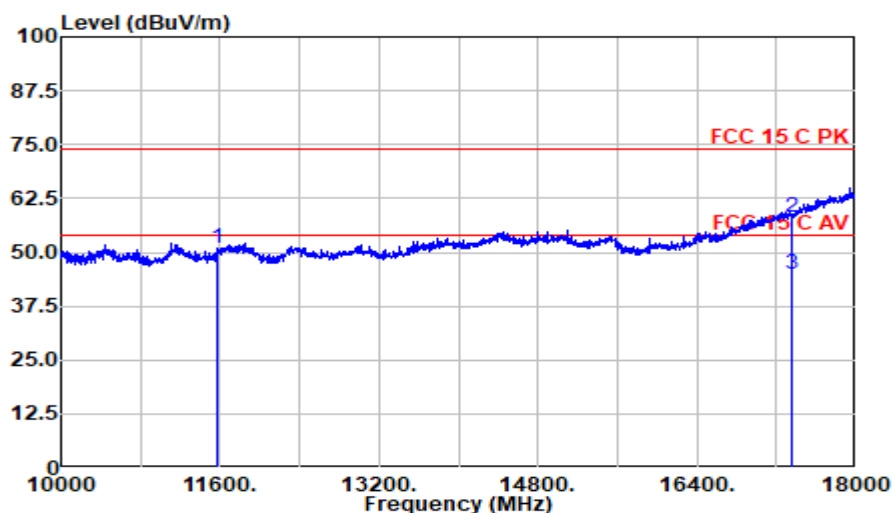
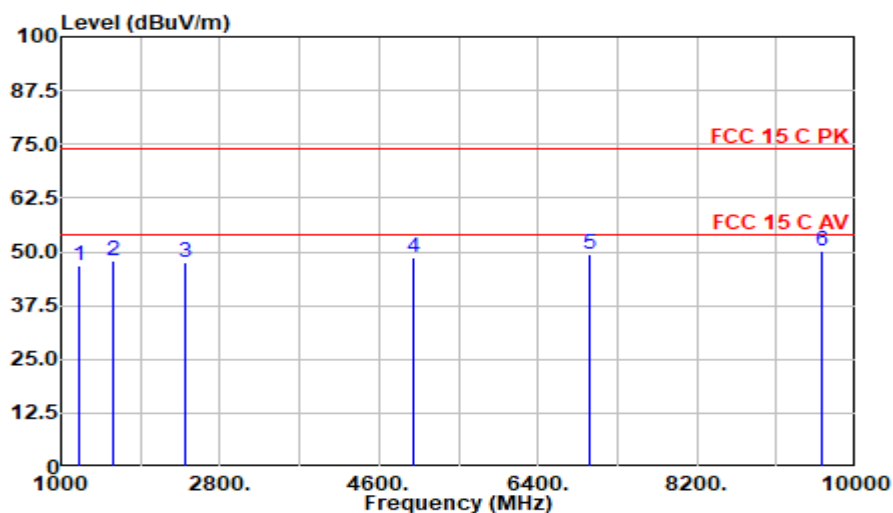
Mode: 802.11a CH5785MHz



Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
1195.500	49.80	25.06	3.89	37.30	41.46	74.00	32.54	Peak
2394.000	50.97	28.58	5.39	36.86	48.09	74.00	25.91	Peak
3193.000	45.35	31.07	6.06	36.21	46.27	74.00	27.73	Peak
6032.000	38.21	34.33	8.45	35.31	45.68	74.00	28.32	Peak
8280.250	36.72	37.86	10.40	35.60	49.38	74.00	24.62	Peak
9950.500	35.38	38.40	11.41	35.31	49.87	74.00	24.13	Peak
11570.000	33.48	39.31	12.07	35.04	49.83	74.00	24.17	Peak
17355.000	31.04	44.69	15.33	33.19	57.86	74.00	16.14	Peak
17355.000	18.30	44.69	15.33	33.19	45.13	54.00	8.87	Average

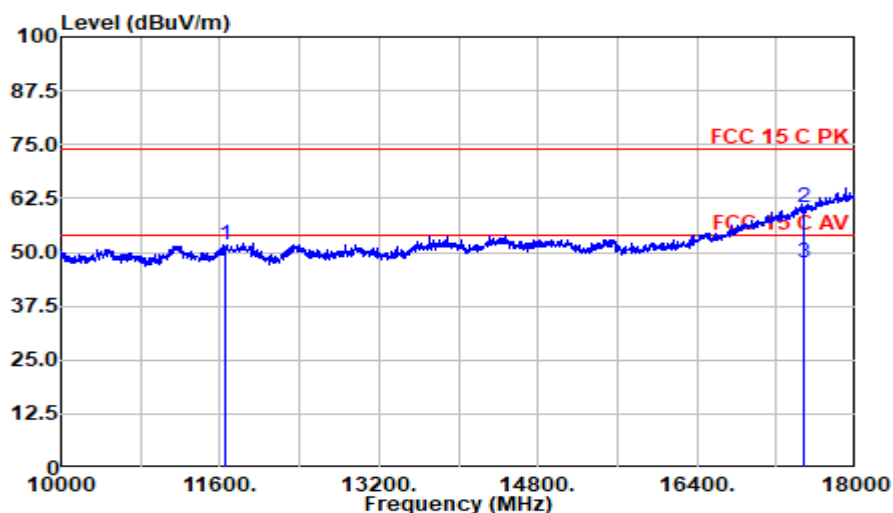
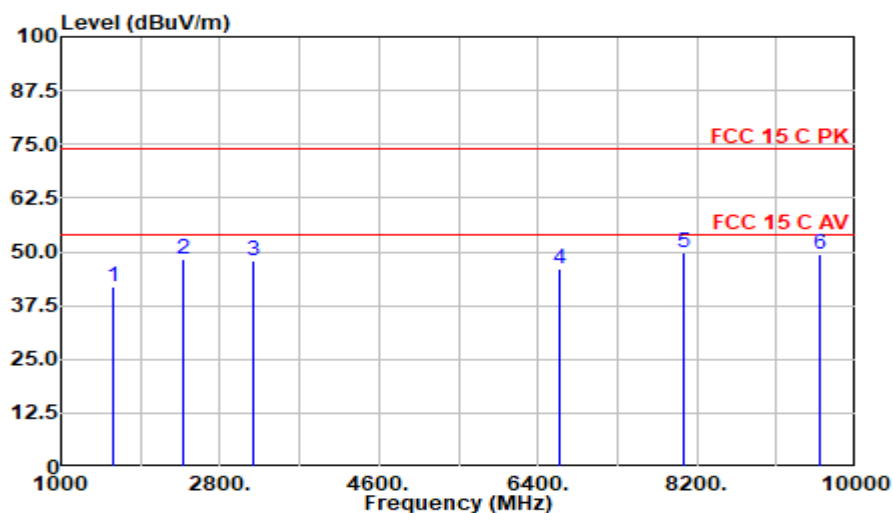
Mode: 802.11a CH5785MHz



Polarization at Vertical

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
1195.500	55.33	25.06	3.89	37.30	46.98	74.00	27.02	Peak
1595.000	54.60	26.01	4.52	37.30	47.83	74.00	26.17	Peak
2398.250	50.59	28.59	5.40	36.85	47.73	74.00	26.27	Peak
4986.500	42.97	33.35	7.80	35.31	48.81	74.00	25.19	Peak
6975.500	40.22	35.60	9.23	35.50	49.56	74.00	24.44	Peak
9610.500	36.11	38.20	11.14	35.41	50.04	74.00	23.96	Peak
11570.000	34.59	39.31	12.07	35.04	50.93	74.00	23.07	Peak
17355.000	31.34	44.69	15.33	33.19	58.16	74.00	15.84	Peak
17355.000	18.23	44.69	15.33	33.19	45.06	54.00	8.94	Average

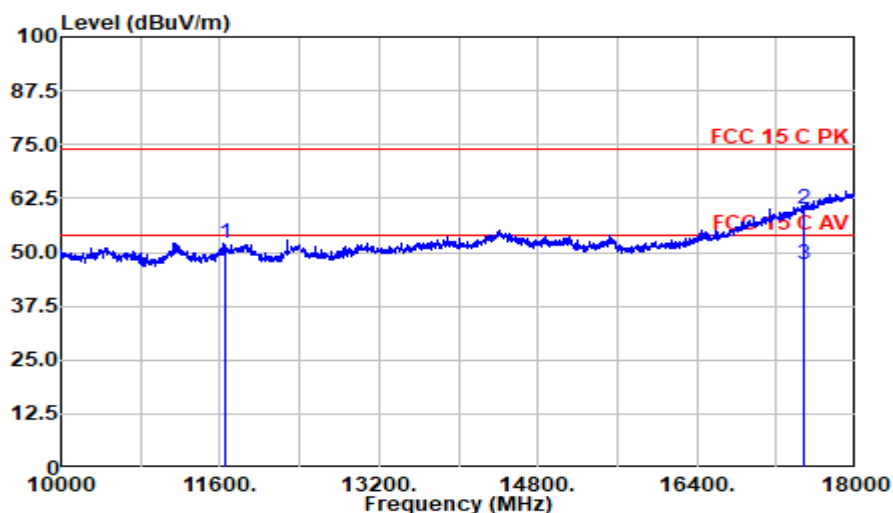
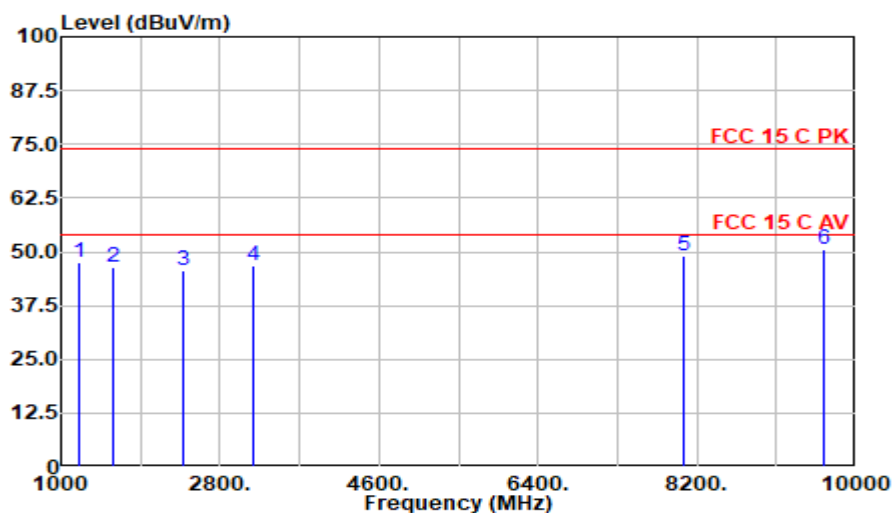
Mode: 802.11a CH5825MHz



Polarization at Horizontal

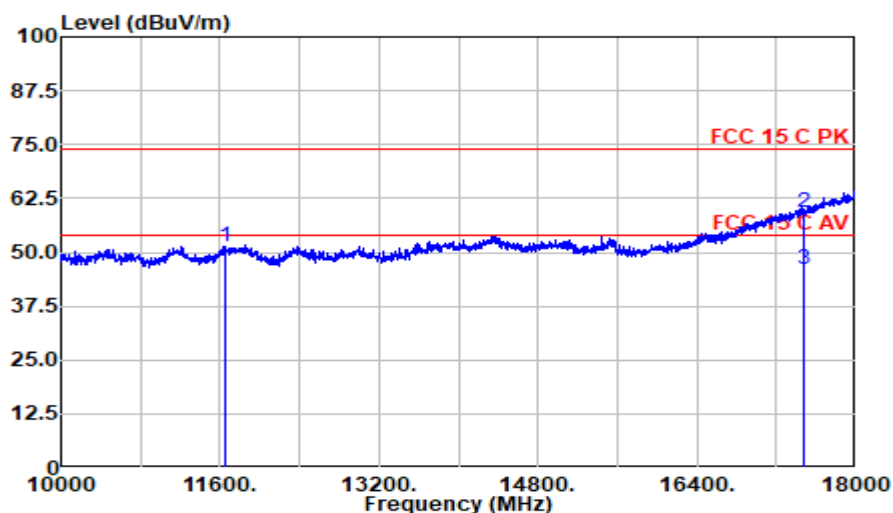
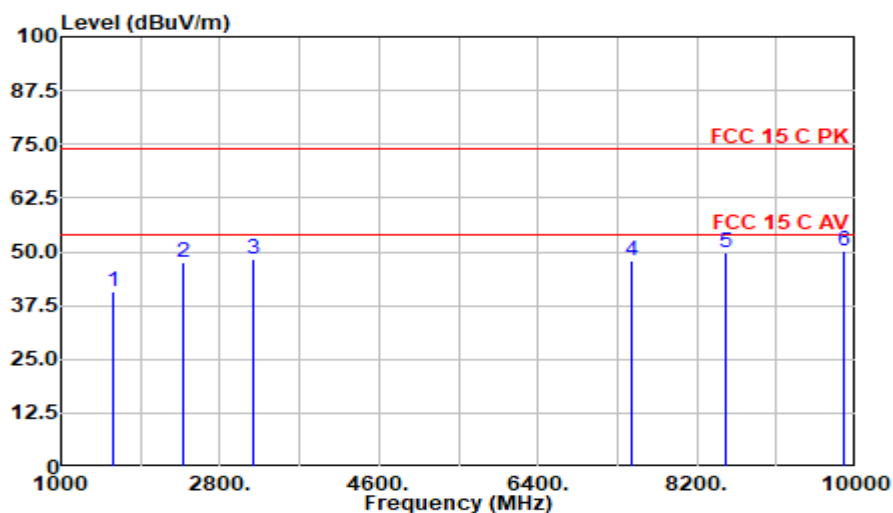
Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
1595.000	48.81	26.01	4.52	37.30	42.04	74.00	31.96	Peak
2389.750	51.12	28.56	5.39	36.86	48.20	74.00	25.80	Peak
3184.500	47.18	31.04	6.05	36.22	48.05	74.00	25.95	Peak
6648.250	37.56	34.90	8.97	35.43	46.00	74.00	28.00	Peak
8050.750	37.94	37.20	10.33	35.60	49.87	74.00	24.13	Peak
9589.250	35.47	38.20	11.12	35.42	49.38	74.00	24.62	Peak
11650.000	34.94	39.50	12.13	35.03	51.54	74.00	22.46	Peak
17475.000	32.38	45.53	15.51	33.16	60.26	74.00	13.74	Peak
17475.000	19.54	45.53	15.51	33.16	47.42	54.00	6.58	Average

Mode: 802.11a CH5825MHz



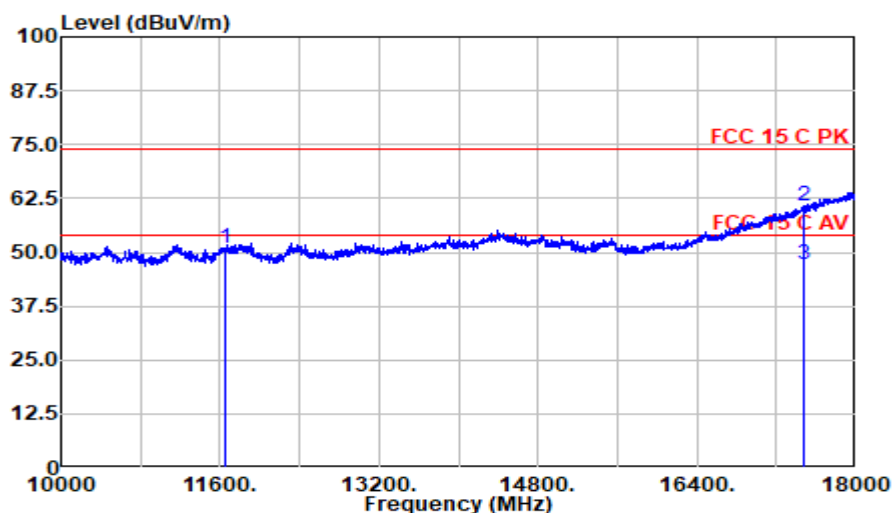
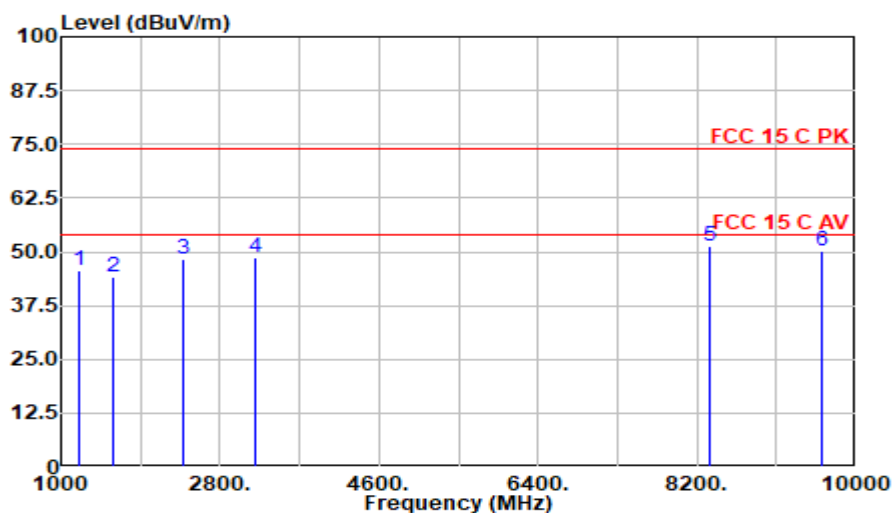
Polarization at Vertical

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
1195.500	55.92	25.06	3.89	37.30	47.57	74.00	26.43	Peak
1590.750	53.37	26.02	4.51	37.30	46.60	74.00	27.40	Peak
2389.750	48.59	28.56	5.39	36.86	45.67	74.00	28.33	Peak
3184.500	46.03	31.04	6.05	36.22	46.91	74.00	27.09	Peak
8046.500	37.26	37.20	10.33	35.60	49.19	74.00	24.81	Peak
9636.000	36.48	38.20	11.16	35.41	50.44	74.00	23.56	Peak
11650.000	35.29	39.50	12.13	35.03	51.89	74.00	22.11	Peak
17475.000	32.02	45.53	15.51	33.16	59.90	74.00	14.10	Peak
17475.000	19.20	45.53	15.51	33.16	47.09	54.00	6.91	Average

Mode: 802.11n20 CH5825MHz

Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
1595.000	47.57	26.01	4.52	37.30	40.80	74.00	33.20	Peak
2389.750	50.30	28.56	5.39	36.86	47.39	74.00	26.61	Peak
3184.500	47.36	31.04	6.05	36.22	48.23	74.00	25.77	Peak
7455.750	36.75	36.89	9.75	35.55	47.84	74.00	26.16	Peak
8535.250	36.86	38.20	10.49	35.60	49.95	74.00	24.05	Peak
9865.500	35.96	38.26	11.34	35.34	50.23	74.00	23.77	Peak
11650.000	34.77	39.50	12.13	35.03	51.37	74.00	22.63	Peak
17475.000	31.49	45.53	15.51	33.16	59.37	74.00	14.63	Peak
17475.000	18.25	45.53	15.51	33.16	46.13	54.00	7.87	Average

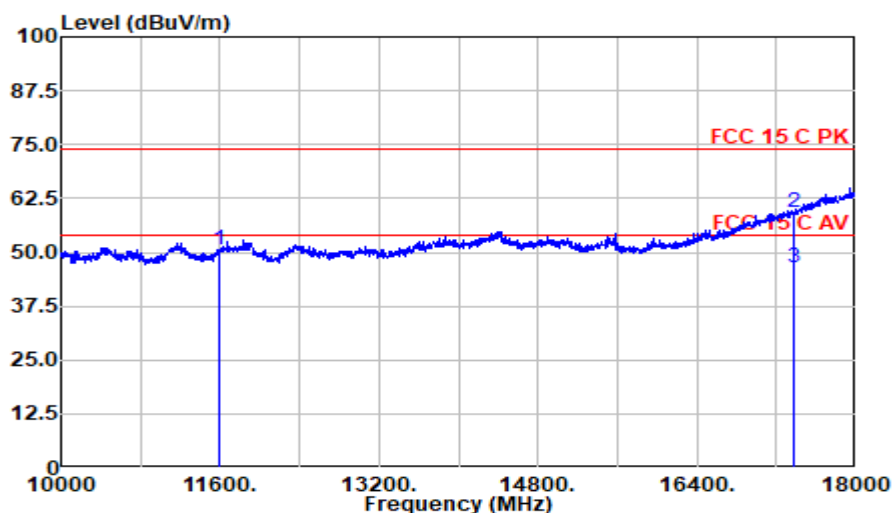
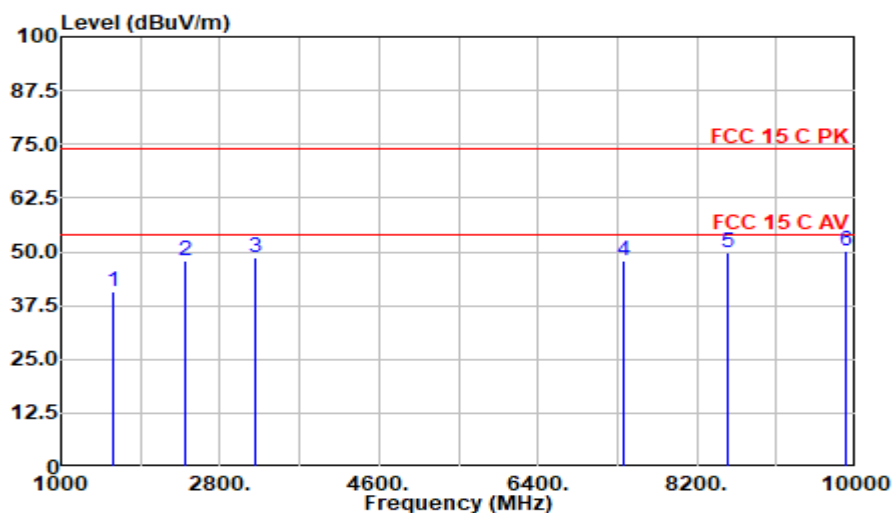
Mode: 802.11n20 CH5825MHz



Polarization at Vertical

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
1195.500	54.01	25.06	3.89	37.30	45.67	74.00	28.33	Peak
1595.000	51.08	26.01	4.52	37.30	44.31	74.00	29.69	Peak
2389.750	51.21	28.56	5.39	36.86	48.29	74.00	25.71	Peak
3188.750	47.80	31.06	6.06	36.22	48.69	74.00	25.31	Peak
8352.500	38.29	38.10	10.43	35.60	51.22	74.00	22.78	Peak
9614.750	36.11	38.20	11.14	35.41	50.04	74.00	23.96	Peak
11650.000	34.43	39.50	12.13	35.03	51.03	74.00	22.97	Peak
17475.000	33.00	45.53	15.51	33.16	60.88	74.00	13.12	Peak
17475.000	19.43	45.53	15.51	33.16	47.31	54.00	6.69	Average

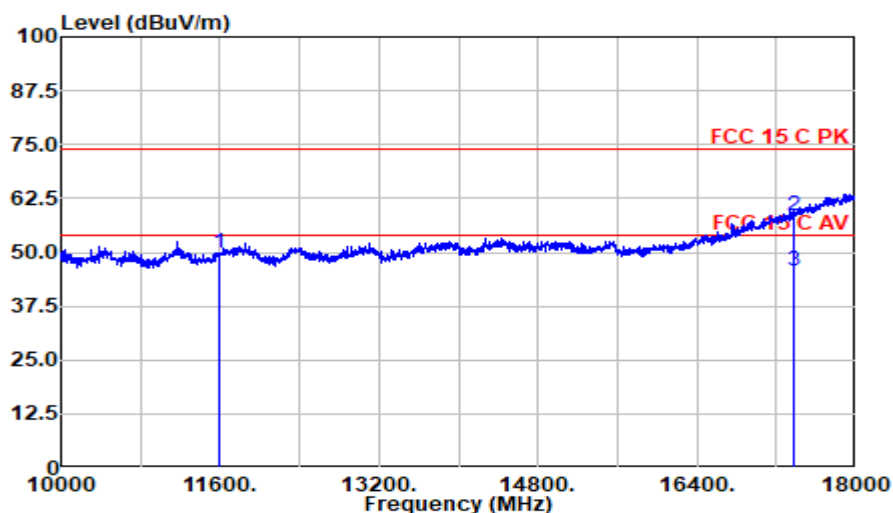
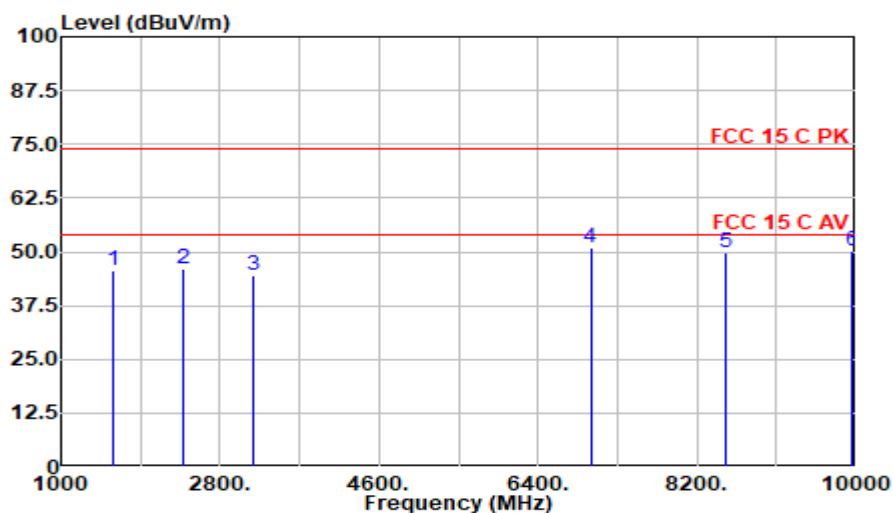
Mode: 802.11n40 CH5795MHz



Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
1595.000	47.60	26.01	4.52	37.30	40.82	74.00	33.18	Peak
2398.250	50.82	28.59	5.40	36.85	47.95	74.00	26.05	Peak
3188.750	47.81	31.06	6.06	36.22	48.70	74.00	25.30	Peak
7370.750	36.87	36.90	9.66	35.54	47.90	74.00	26.10	Peak
8556.500	36.58	38.19	10.49	35.60	49.66	74.00	24.34	Peak
9891.000	35.74	38.36	11.36	35.33	50.14	74.00	23.86	Peak
11590.000	34.29	39.37	12.09	35.04	50.71	74.00	23.29	Peak
17385.000	32.26	44.90	15.38	33.18	59.35	74.00	14.65	Peak
17385.000	19.43	44.90	15.38	33.18	46.52	54.00	7.48	Average

Mode: 802.11n40 CH5795MHz



Polarization at Vertical

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
1595.000	52.55	26.01	4.52	37.30	45.77	74.00	28.23	Peak
2389.750	49.08	28.56	5.39	36.86	46.16	74.00	27.84	Peak
3184.500	43.74	31.04	6.05	36.22	44.61	74.00	29.39	Peak
6996.750	41.55	35.60	9.25	35.50	50.89	74.00	23.11	Peak
8535.250	36.77	38.20	10.49	35.60	49.86	74.00	24.14	Peak
9959.000	35.77	38.38	11.42	35.31	50.26	74.00	23.74	Peak
11590.000	33.57	39.37	12.09	35.04	49.99	74.00	24.01	Peak
17385.000	31.29	44.90	15.38	33.18	58.38	74.00	15.62	Peak
17385.000	18.53	44.90	15.38	33.18	45.62	54.00	8.38	Average

4 BAND EDGE MEASUREMENT

4.1 Test Equipment

The following test equipment are used during the radiated emission test in a semi-anechoic chamber:

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Preamplifier	HP	8447D	2944A10548	2023.02.22	1 Year
2.	Spectrum Analyzer	Agilent	N9010A	MY52221182	2023.08.09	1 Year
3.	Horn Antenna	EMCO	3115	96074878	2023.08.02	1 Year
4.	Horn Antenna	EMCO	3116	00062643	2023.01.30	1 Year
5.	Software	Audix	e3	v9.210616	--	--

4.2 Block Diagram of Test Setup

The Same as Section. 3.2.3.

4.3 Specification Limit

Only spurious emissions are permitted in any of the frequency bands which fall in Restricted bands as defined in §15.205(a), the field strength of emission shall not exceed the limits shown in §15.209:

Frequency (MHz)	Distance (m)	Field strength limits (μV/m)	
		(μV/m)	dB(μV/m)
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
Above 960	3	500	54.0
NOTE 1 - Emission Level dB (μV/m) = 20 log Emission Level (μV/m) NOTE 2 - The tighter limit applies at the band edges. NOTE 3 - Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system. NOTE 4 - The limits shown are based on Quasi-peak value detector below or equal to 1GHz and Average value detector above 1GHz. NOTE 5 - Above 1 GHz, the limit on peak emission is 20 dB above the maximum permitted average emission limit applicable to the EUT			

§15.407(b):

- (1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (2) For transmitters operating in the 5.25-5.35 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.
- (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (4) For transmitters operating in the 5.725-5.85 GHz band:
 - (i) 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.

(7) The provisions of §15.205 apply to intentional radiators operating under this section.

4.4 Test Procedures

Radiated emission test applies to harmonics/spurs that fall in the restricted bands listed in Section 15.205. The maximum permitted average field strength is listed in Section 15.209. A pre-amp is necessary for this measurement. For measurement above 1 GHz, set RBW = 1MHz, VBW = 10 Hz, Sweep: Auto. If the emission is pulsed, modify the unit for continuous operation; use the settings shown above, then correct the reading by subtracting the peak-average correction factor, derived from the appropriate duty cycle calculation.

The EUT was placed on a turntable, the table height is 1.5 m. The turntable rotated 360 degrees to determine the position of the maximum emission level. The EUT was set 3 meters away from the receiving antenna, which was mounted on an antenna tower. The antenna moved up and down between 1 meter and 4 meters to find out the maximum emission level. Horn antenna was used as receiving antenna. Both horizontal and vertical polarizations of the antenna were set on measurement. In order to find the maximum emission, all of the interference cables were manipulated according to ANSI C63.10: 2020 requirements during radiated emission test.

The bandwidth of Agilent N9010A was set at 1MHz.

Per KDB 789033 D02 clause G.2.d), if the measurement distance is 3m,
 $EIRP[dBm] = E[dBuV/m] - 95.2$

Get the result of all unwanted emission outside the restricted band is less than the -27dBm/MHz.

All the test results are listed in Sec.5.5.

4.5 Test Results

<PASS>

The frequency and amplitude of the highest radiated emission relative the limit is reported. All the emissions not reported below are too low against the FCC limit.

Band Edge & Restricted Band:

No.	Operation	Modulation	Channel	Frequency	Data Page
1.	Transmitting	802.11a	36	5180 MHz	P52-53
			48	5240 MHz	P54-55
2.			52	5260 MHz	P56-57
			64	5320 MHz	P58-59
3.			100	5500 MHz	P60-61
			140	5700 MHz	P62-63
4.			149	5745 MHz	P64-67
			165	5825 MHz	P68-71
5.		802.11n20	36	5180 MHz	P72-73
			48	5240 MHz	P74-75
6.			52	5260 MHz	P76-77
			64	5320 MHz	P78-79
7.			100	5500 MHz	P80-81
			140	5700 MHz	P82-83
8.			149	5745 MHz	P84-87
			165	5825 MHz	P88-91
9.		802.11n40	38	5190 MHz	P92-93
			46	5230 MHz	P94-95
10.			54	5270 MHz	P96-97
			62	5310 MHz	P98-99
11.			102	5510 MHz	P100-101
			134	5670 MHz	P102-103
12.			151	5755 MHz	P104-107
			159	5795 MHz	P108-111

NOTE 1 – Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin = Limits - Emission Level.

NOTE 2 – “QP” means “Quasi-Peak” values

NOTE 3 – 0° was the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.

NOTE 4 – The emission levels which not reported are too low against the official limit.

NOTE 5 – The emission levels recorded below is data of EUT configured in Lying direction, for this direction was the maximum emission direction during the test. The data of Side & Standing direction are too low against the official limit to be reported.

NOTE 6 – All reading are Quasi-Peak values below or equal to 1GHz, Peak and Average values above 1GHz.

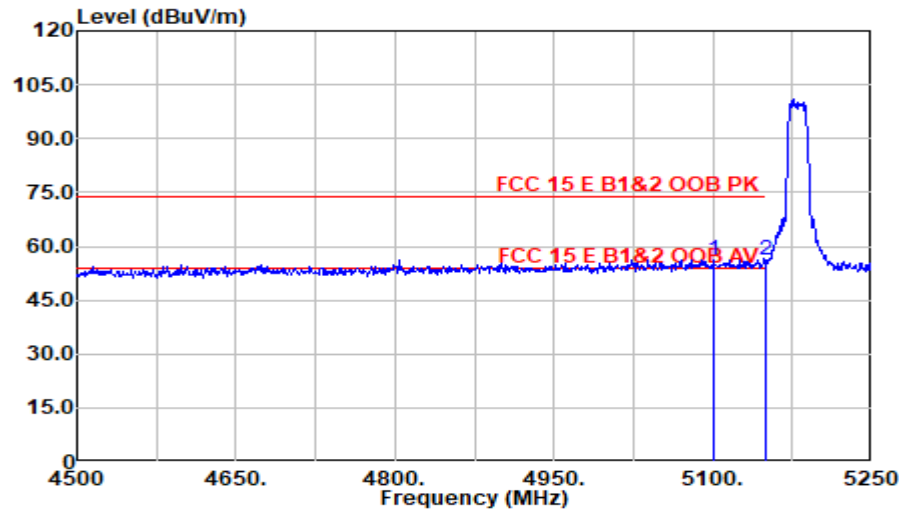
For above 1GHz test, if the peak measured value complies with the average limit, it is unnecessary to perform an average measurement.

NOTE 7 – The frequency range 4500MHz-5150MHz & 5350MHz-5460MHz & 7250MHz-7750MHz were tested for Restricted bands.

Band-Edge & Restricted Bands:

Test Date:	2024.05.25-27	Temp./Hum.:	22°C/51%RH	Test By:	Jarey
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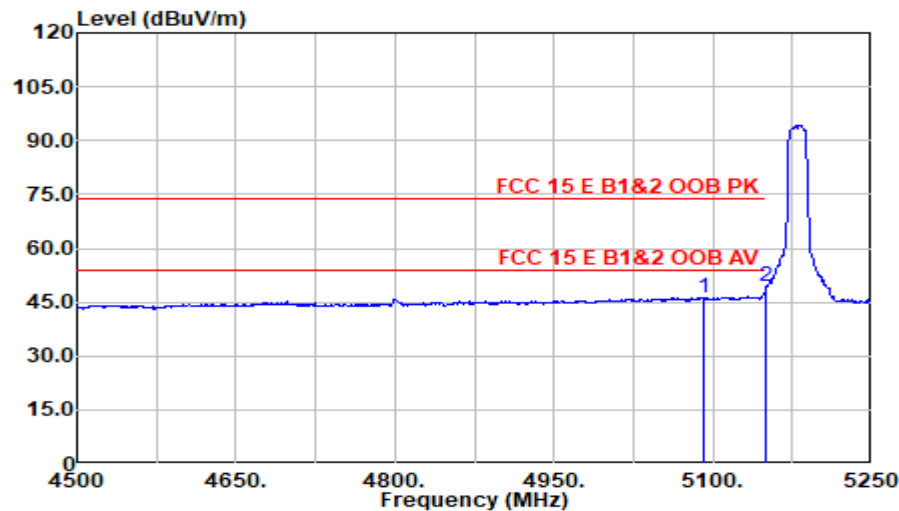
Mode: 802.11a CH5180MHz



Polarization at Horizontal

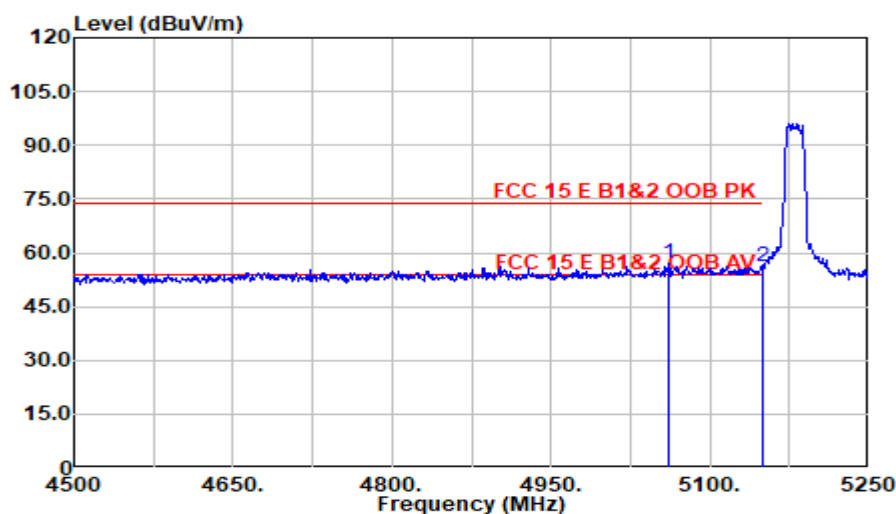
Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5100.000	50.15	33.60	7.88	35.30	56.32	74.00	17.68	Peak
5150.000	49.41	34.00	7.91	35.30	56.02	74.00	17.98	Peak

Mode: 802.11a CH5180MHz



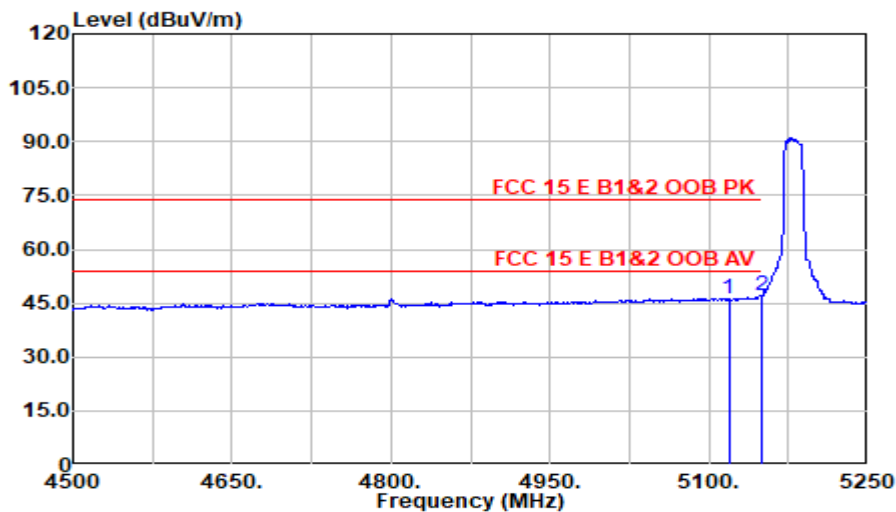
Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5091.000	40.13	33.58	7.87	35.30	46.28	54.00	7.72	Average
5150.000	42.71	34.00	7.91	35.30	49.32	54.00	4.68	Average

Mode: 802.11a CH5180MHz


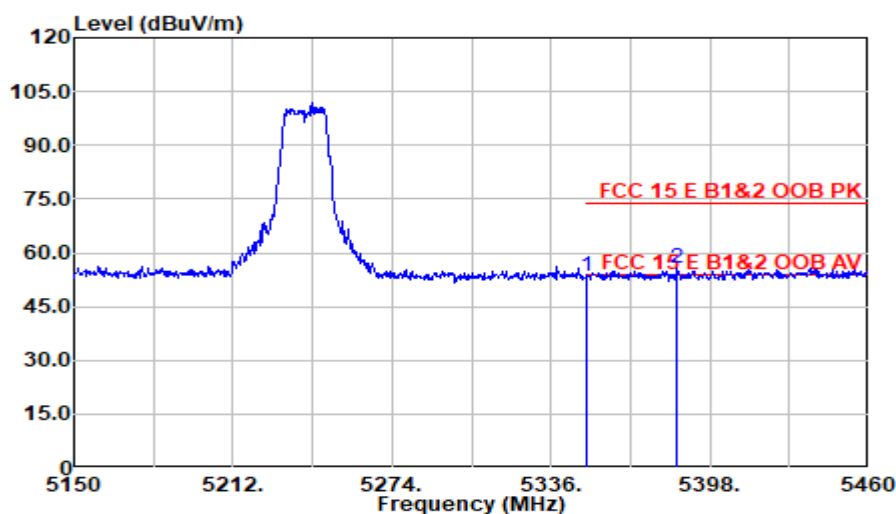
Polarization at Vertical

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5061.750	50.83	33.52	7.85	35.30	56.91	74.00	17.09	Peak
5150.000	49.42	34.00	7.91	35.30	56.02	74.00	17.98	Peak

Mode: 802.11a CH5180MHz


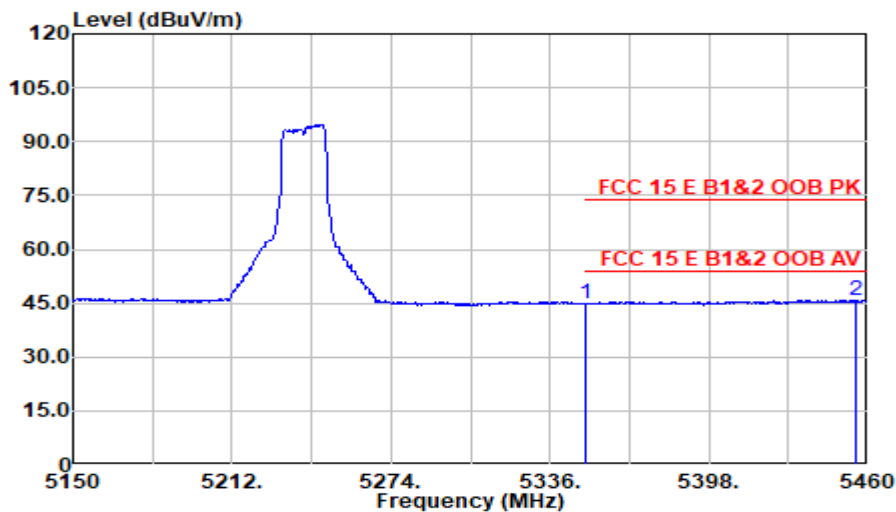
Polarization at Vertical

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5118.750	40.03	33.75	7.89	35.30	46.37	54.00	7.63	Average
5150.000	40.29	34.00	7.91	35.30	46.90	54.00	7.10	Average

Mode: 802.11a CH5240MHz


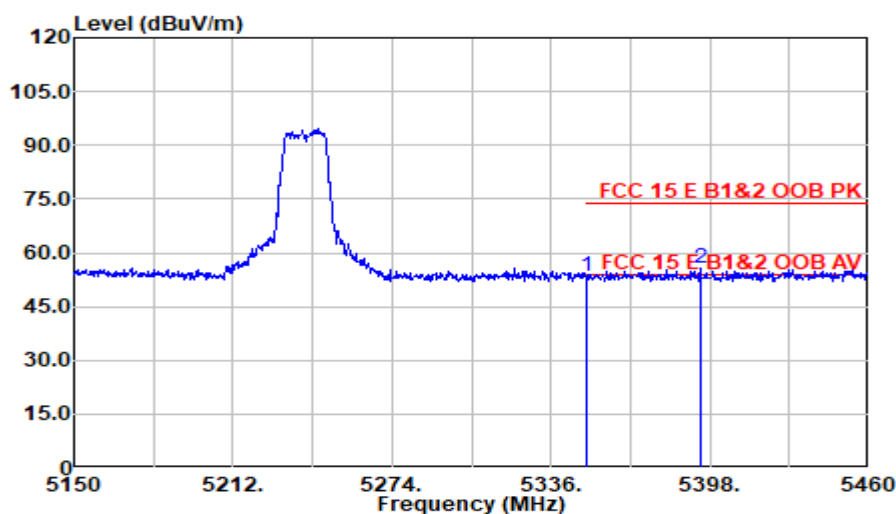
Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5350.000	46.40	34.10	8.04	35.30	53.23	74.00	20.77	Peak
5385.290	49.13	34.03	8.06	35.30	55.91	74.00	18.09	Peak

Mode: 802.11a CH5240MHz


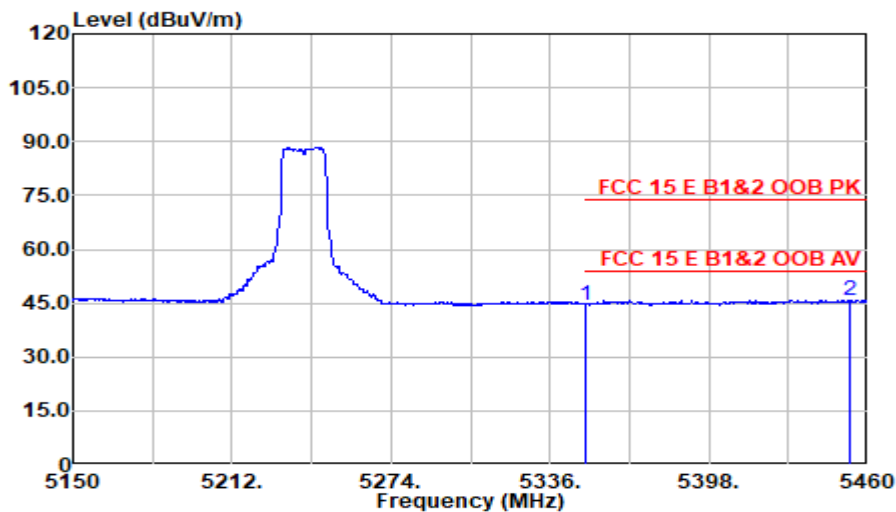
Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5350.000	37.81	34.10	8.04	35.30	44.65	54.00	9.35	Average
5455.040	38.81	34.20	8.10	35.30	45.81	54.00	8.19	Average

Mode: 802.11a CH5240MHz


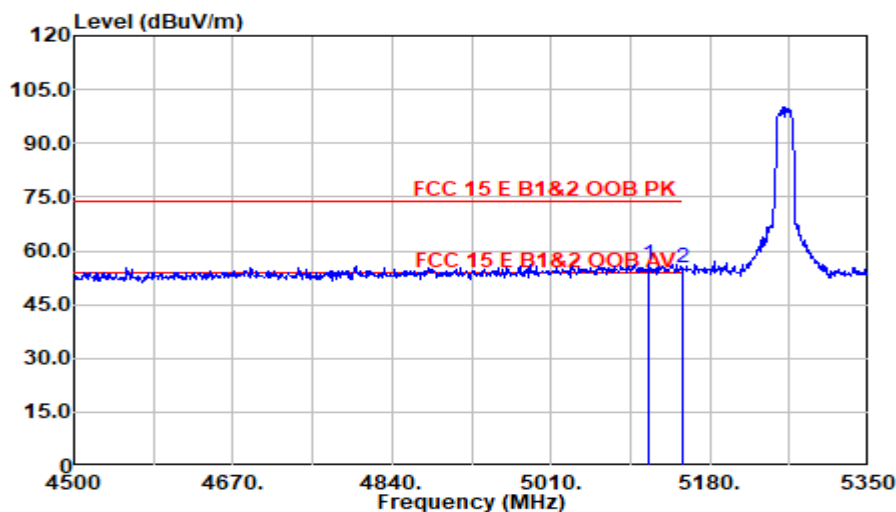
Polarization at Vertical

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5350.000	46.47	34.10	8.04	35.30	53.30	74.00	20.70	Peak
5394.280	48.81	34.01	8.06	35.30	55.58	74.00	18.42	Peak

Mode: 802.11a CH5240MHz


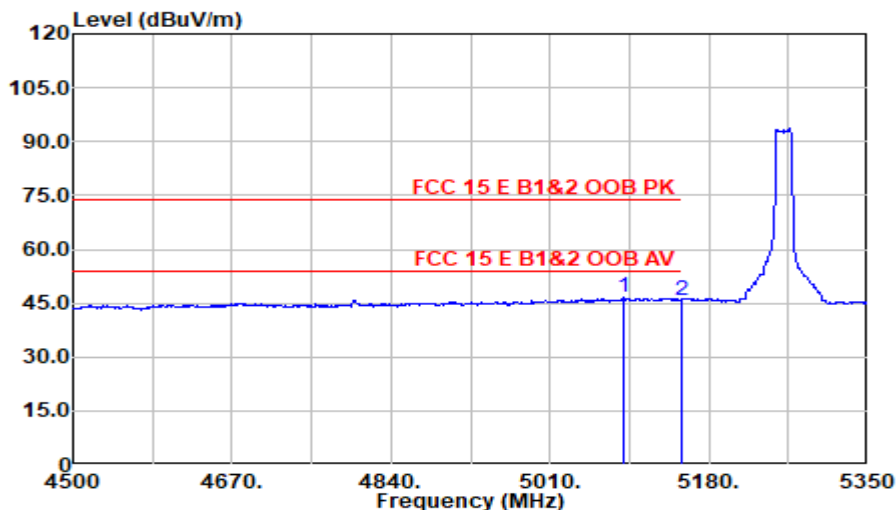
Polarization at Vertical

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5350.000	37.72	34.10	8.04	35.30	44.56	54.00	9.44	Average
5453.180	38.91	34.20	8.10	35.30	45.91	54.00	8.09	Average

Mode: 802.11a CH5260MHz


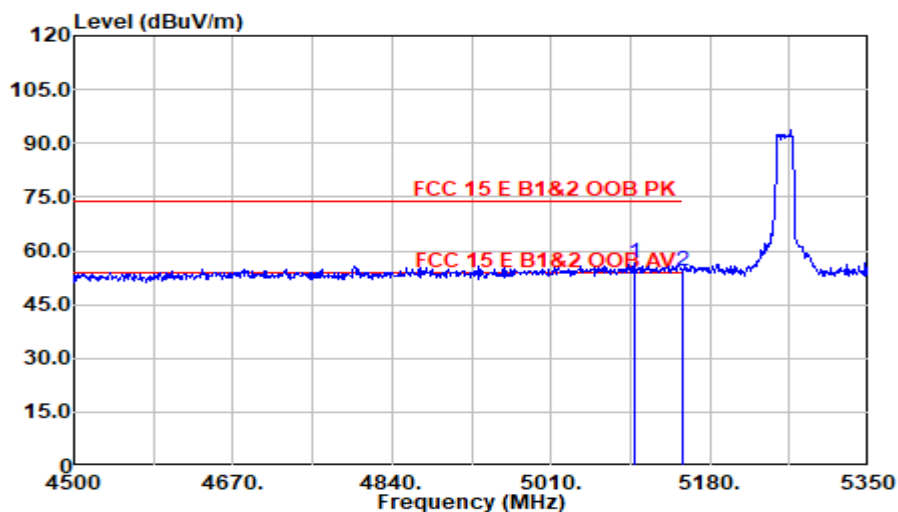
Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5114.550	49.99	33.72	7.89	35.30	56.29	74.00	17.71	Peak
5150.000	48.52	34.00	7.91	35.30	55.13	74.00	18.87	Peak

Mode: 802.11a CH5260MHz


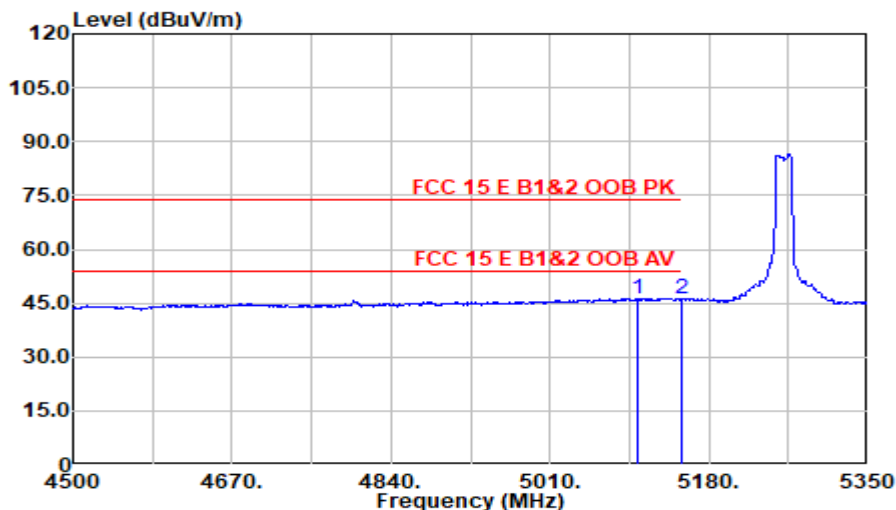
Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5088.200	40.38	33.58	7.87	35.30	46.53	54.00	7.47	Average
5150.000	39.24	34.00	7.91	35.30	45.85	54.00	8.15	Average

Mode: 802.11a CH5260MHz


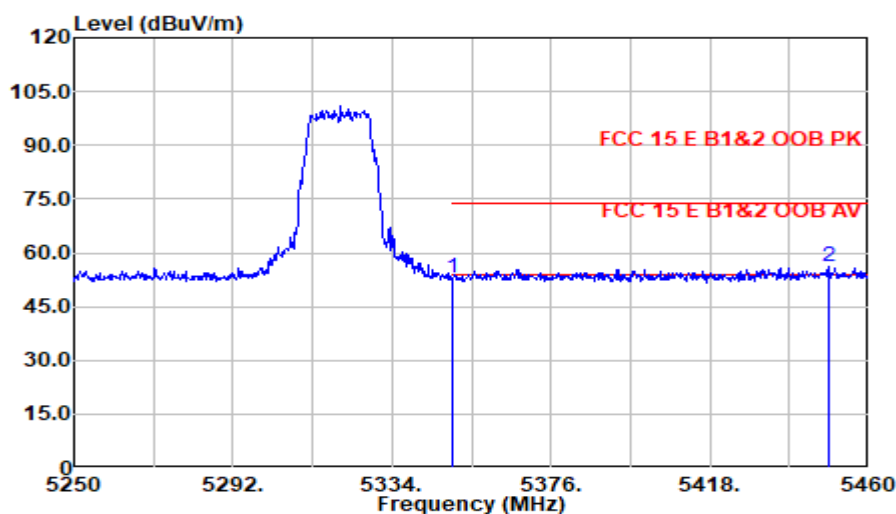
Polarization at Vertical

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5099.250	50.34	33.60	7.88	35.30	56.51	74.00	17.49	Peak
5150.000	47.91	34.00	7.91	35.30	54.52	74.00	19.48	Peak

Mode: 802.11a CH5260MHz


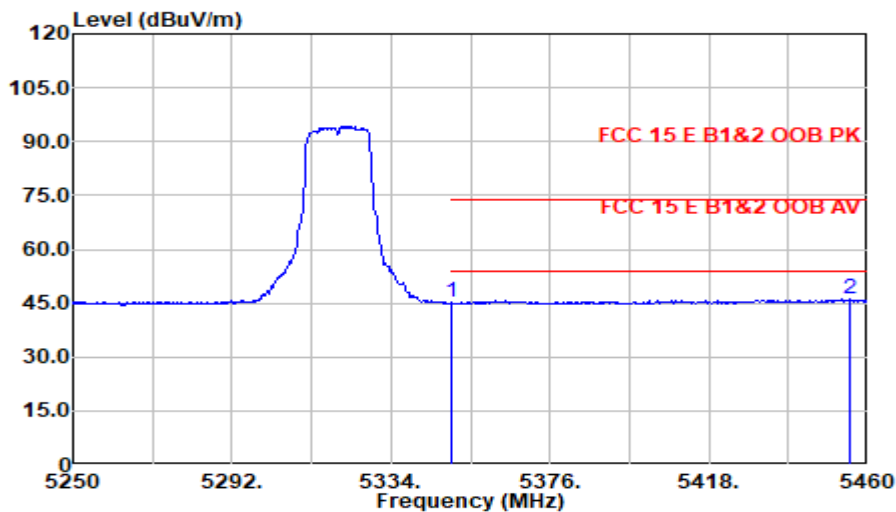
Polarization at Vertical

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5103.500	40.06	33.63	7.88	35.30	46.27	54.00	7.73	Average
5150.000	39.47	34.00	7.91	35.30	46.08	54.00	7.92	Average

Mode: 802.11a CH5320MHz


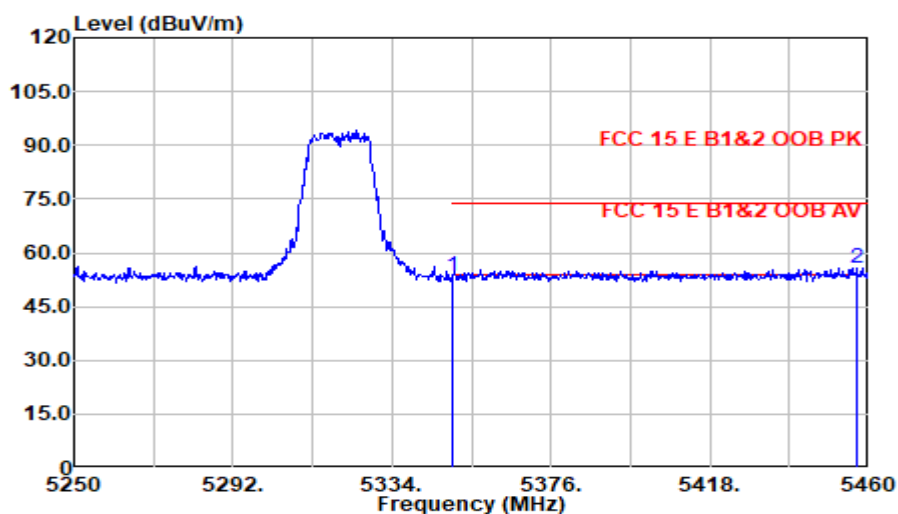
Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5350.000	46.02	34.10	8.04	35.30	52.86	74.00	21.14	Peak
5449.500	49.09	34.20	8.10	35.30	56.09	74.00	17.91	Peak

Mode: 802.11a CH5320MHz


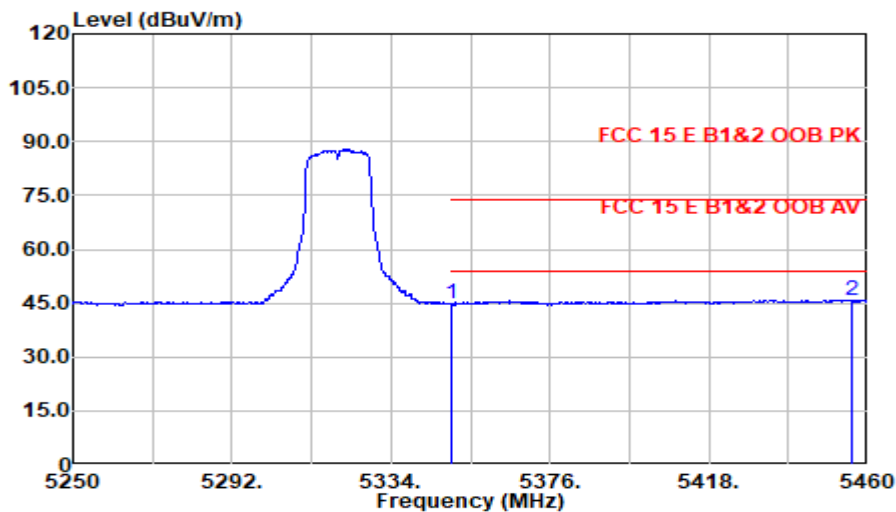
Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5350.000	38.26	34.10	8.04	35.30	45.09	54.00	8.91	Average
5455.380	39.03	34.20	8.10	35.30	46.03	54.00	7.97	Average

Mode: 802.11a CH5320MHz


Polarization at Vertical

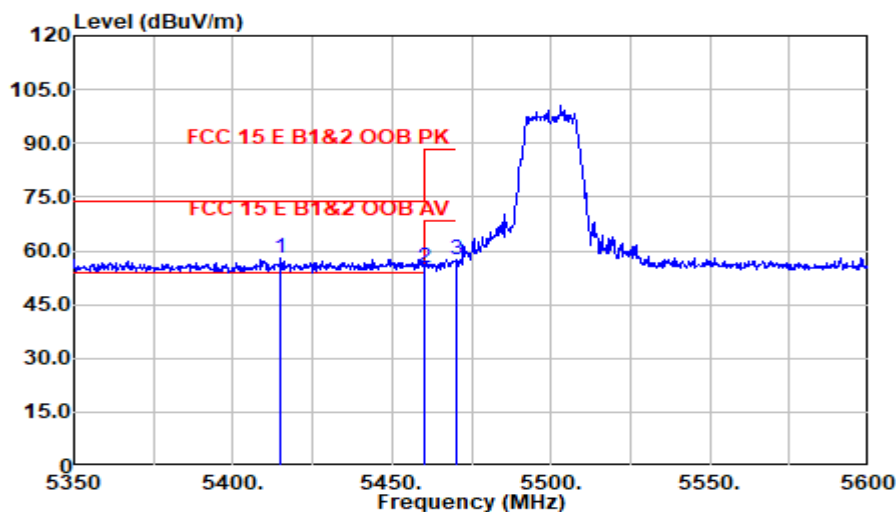
Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5350.000	46.38	34.10	8.04	35.30	53.22	74.00	20.78	Peak
5456.850	48.82	34.20	8.10	35.30	55.82	74.00	18.18	Peak

Mode: 802.11a CH5320MHz


Polarization at Vertical

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5350.000	37.88	34.10	8.04	35.30	44.71	54.00	9.29	Average
5456.010	38.89	34.20	8.10	35.30	45.90	54.00	8.10	Average

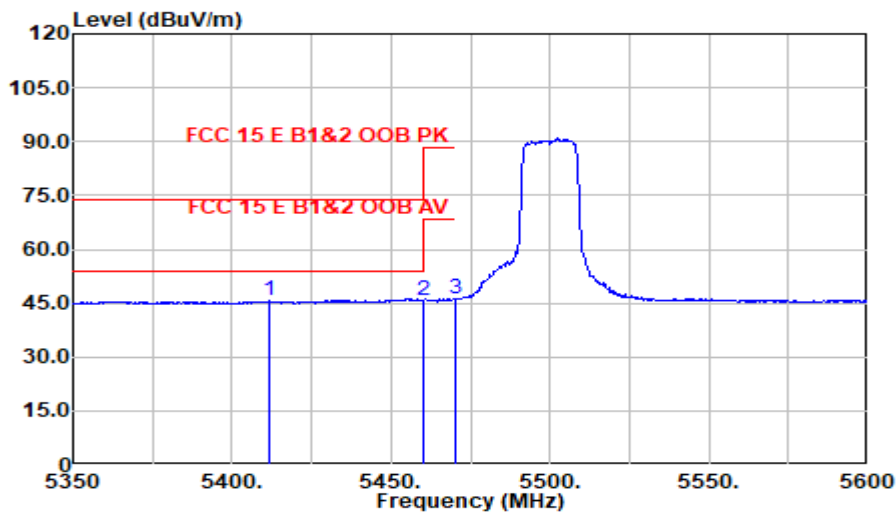
Mode: 802.11a CH5500MHz



Polarization at Horizontal

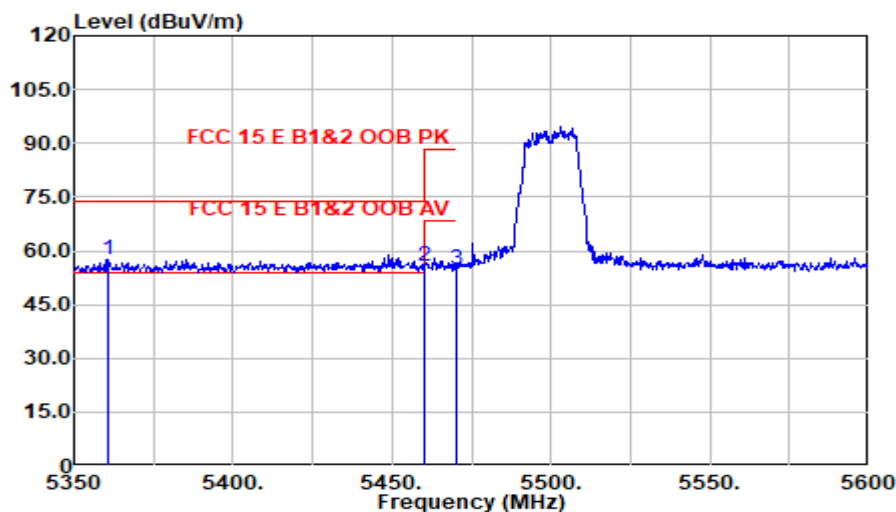
Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5415.000	51.03	34.06	8.08	35.30	57.86	74.00	16.14	Peak
5460.000	48.13	34.20	8.10	35.30	55.13	74.00	18.87	Peak
5470.000	50.35	34.20	8.11	35.30	57.36	88.20	30.84	Peak

Mode: 802.11a CH5500MHz



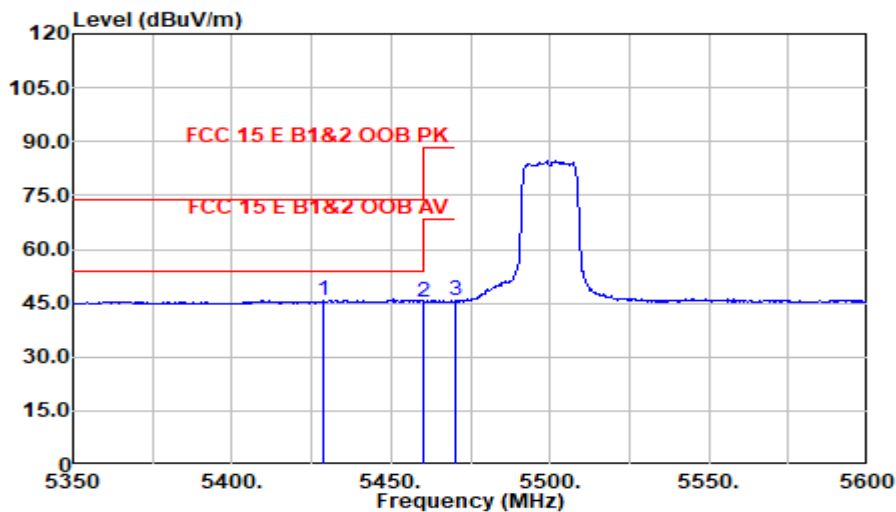
Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5411.500	38.81	34.05	8.07	35.30	45.63	54.00	8.37	Average
5460.000	38.86	34.20	8.10	35.30	45.87	54.00	8.13	Average
5470.000	39.24	34.20	8.11	35.30	46.25	68.20	21.95	Average

Mode: 802.11a CH5500MHz


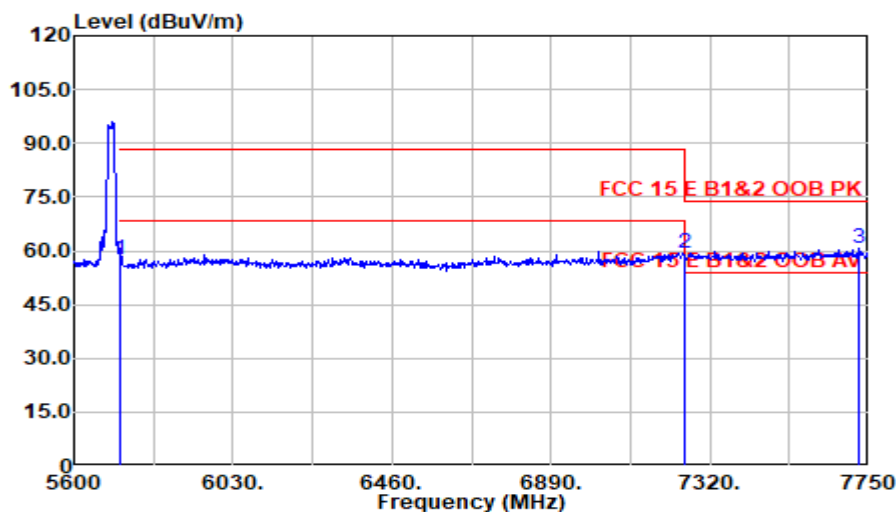
Polarization at Vertical

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5360.500	50.74	34.08	8.04	35.30	57.57	74.00	16.43	Peak
5460.000	48.58	34.20	8.10	35.30	55.59	74.00	18.41	Peak
5470.000	47.82	34.20	8.11	35.30	54.83	88.20	33.37	Peak

Mode: 802.11a CH5500MHz


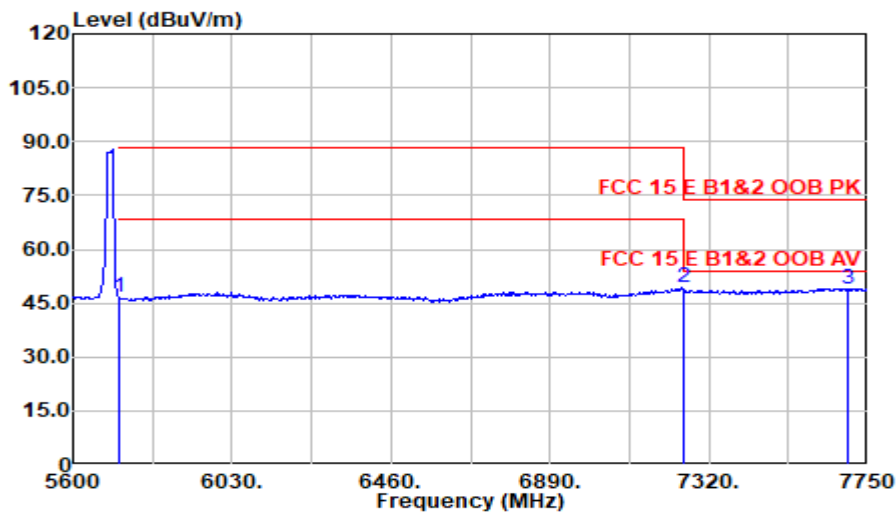
Polarization at Vertical

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5429.000	38.68	34.12	8.09	35.30	45.58	54.00	8.42	Average
5460.000	38.42	34.20	8.10	35.30	45.42	54.00	8.58	Average
5470.000	38.58	34.20	8.11	35.30	45.59	68.20	22.61	Average

Mode: 802.11a CH5700MHz


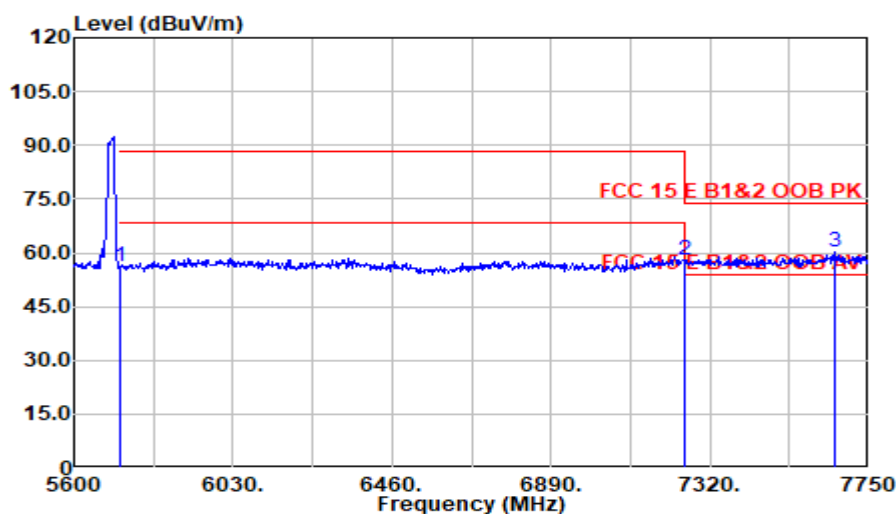
Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5725.000	50.53	33.80	8.26	35.30	57.29	88.20	30.91	Peak
7250.000	48.70	36.60	9.53	35.53	59.30	74.00	14.70	Peak
7724.200	49.57	36.85	10.03	35.57	60.88	74.00	13.12	Peak

Mode: 802.11a CH5700MHz


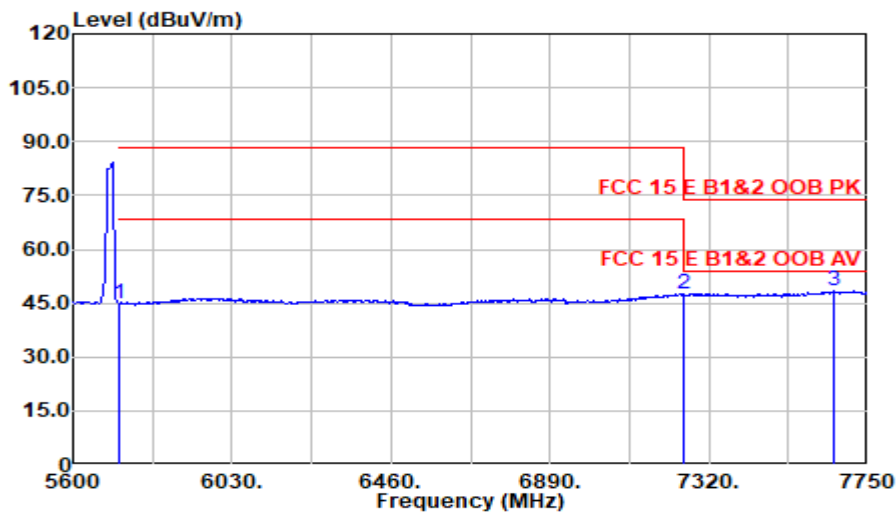
Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5725.000	40.03	33.80	8.26	35.30	46.79	68.20	21.41	Average
7250.000	38.55	36.60	9.53	35.53	49.15	54.00	4.85	Average
7696.250	37.88	36.80	10.00	35.57	49.11	54.00	4.89	Average

Mode: 802.11a CH5700MHz

Polarization at Vertical

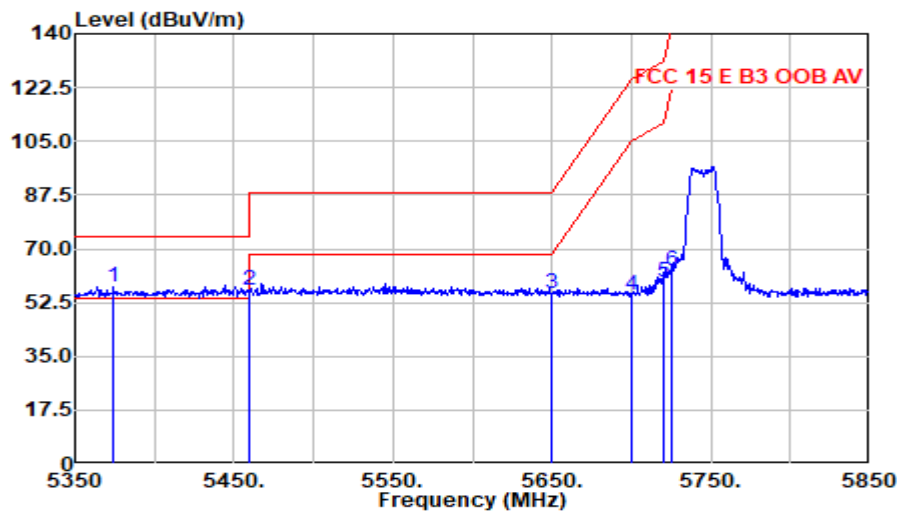
Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5725.000	49.59	33.80	8.26	35.30	56.35	88.20	31.85	Peak
7250.000	47.37	36.60	9.53	35.53	57.97	74.00	16.03	Peak
7659.700	48.83	36.80	9.96	35.57	60.03	74.00	13.97	Peak

Mode: 802.11a CH5700MHz

Polarization at Vertical

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5725.000	38.09	33.80	8.26	35.30	44.85	68.20	23.35	Average
7250.000	36.82	36.60	9.53	35.53	47.42	54.00	6.58	Average
7659.700	37.13	36.80	9.96	35.57	48.33	54.00	5.67	Average

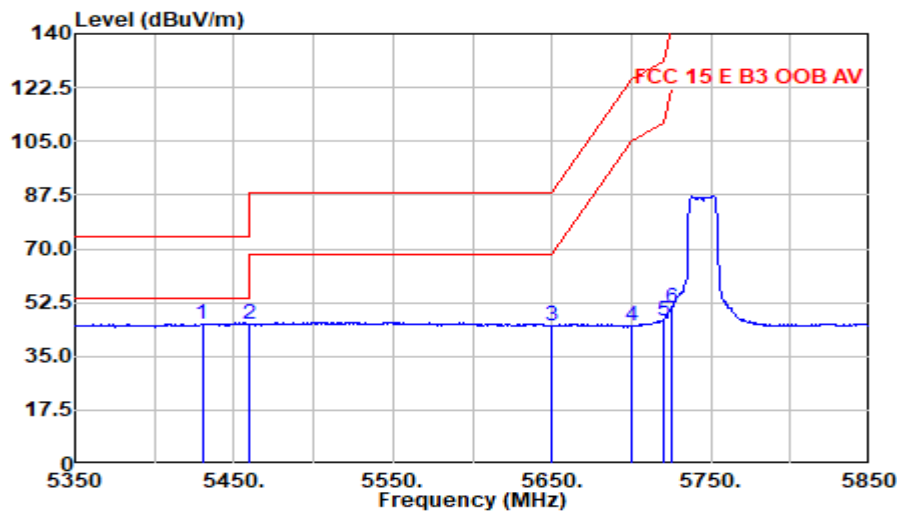
Mode: 802.11a CH5745MHz



Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5374.500	50.86	34.05	8.05	35.30	57.66	74.00	16.34	Peak
5460.000	49.65	34.20	8.10	35.30	56.66	74.00	17.34	Peak
5650.000	48.53	33.90	8.22	35.30	55.34	88.20	32.86	Peak
5700.000	47.99	33.80	8.25	35.30	54.74	125.20	70.46	Peak
5720.000	52.30	33.80	8.26	35.30	59.06	130.80	71.74	Peak
5725.000	56.32	33.80	8.26	35.30	63.08	142.20	79.12	Peak

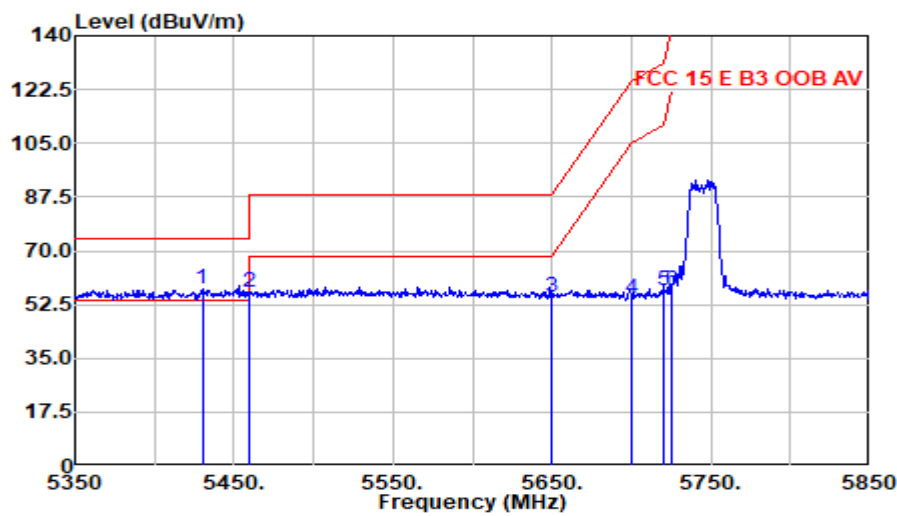
Mode: 802.11a CH5745MHz



Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5430.000	38.55	34.12	8.09	35.30	45.46	54.00	8.54	Average
5460.000	38.40	34.20	8.10	35.30	45.40	54.00	8.60	Average
5650.000	38.22	33.90	8.22	35.30	45.04	68.20	23.16	Average
5700.000	37.95	33.80	8.25	35.30	44.70	105.20	60.50	Average
5720.000	39.85	33.80	8.26	35.30	46.61	110.80	64.19	Average
5725.000	44.10	33.80	8.26	35.30	50.86	122.20	71.34	Average

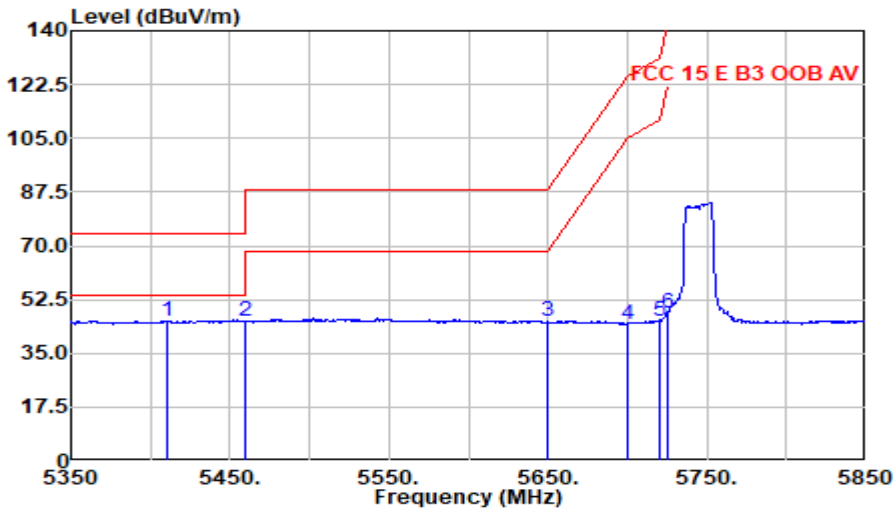
Mode: 802.11a CH5745MHz



Polarization at Vertical

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5430.000	50.42	34.12	8.09	35.30	57.32	74.00	16.68	Peak
5460.000	49.75	34.20	8.10	35.30	56.75	74.00	17.25	Peak
5650.000	48.32	33.90	8.22	35.30	55.14	88.20	33.06	Peak
5700.000	47.57	33.80	8.25	35.30	54.32	125.20	70.88	Peak
5720.000	50.46	33.80	8.26	35.30	57.22	130.80	73.58	Peak
5725.000	50.15	33.80	8.26	35.30	56.91	142.20	85.29	Peak

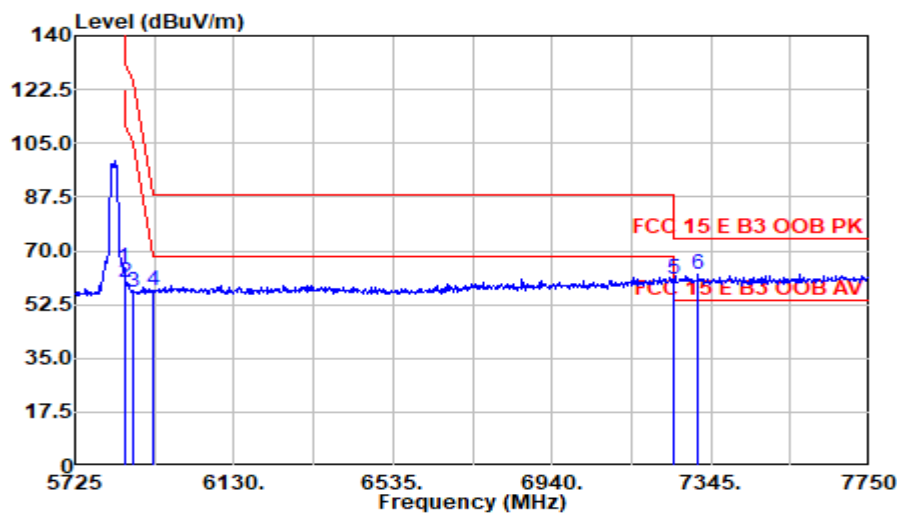
Mode: 802.11a CH5745MHz



Polarization at Vertical

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5410.000	38.64	34.04	8.07	35.30	45.46	54.00	8.54	Average
5460.000	38.42	34.20	8.10	35.30	45.42	54.00	8.58	Average
5650.000	38.36	33.90	8.22	35.30	45.18	68.20	23.02	Average
5700.000	37.89	33.80	8.25	35.30	44.63	105.20	60.57	Average
5720.000	38.90	33.80	8.26	35.30	45.66	110.80	65.14	Average
5725.000	41.13	33.80	8.26	35.30	47.89	122.20	74.31	Average

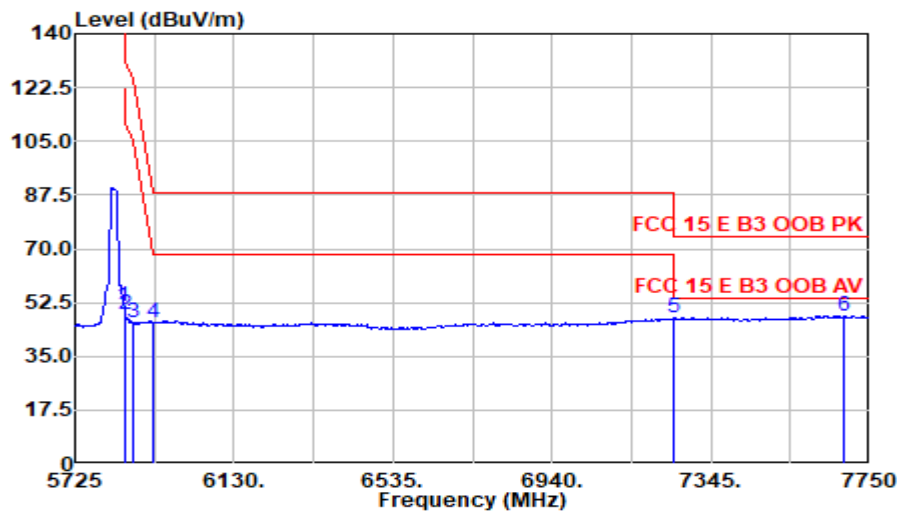
Mode: 802.11a CH5825MHz



Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5850.000	57.53	33.80	8.34	35.30	64.37	142.20	77.83	Peak
5855.000	53.02	33.83	8.34	35.30	59.89	130.80	70.91	Peak
5875.000	49.77	33.95	8.35	35.30	56.77	125.20	68.43	Peak
5925.000	50.07	34.10	8.38	35.30	57.25	88.20	30.95	Peak
7250.000	50.13	36.60	9.53	35.53	60.73	74.00	13.27	Peak
7312.600	51.63	36.68	9.60	35.53	62.37	74.00	11.63	Peak

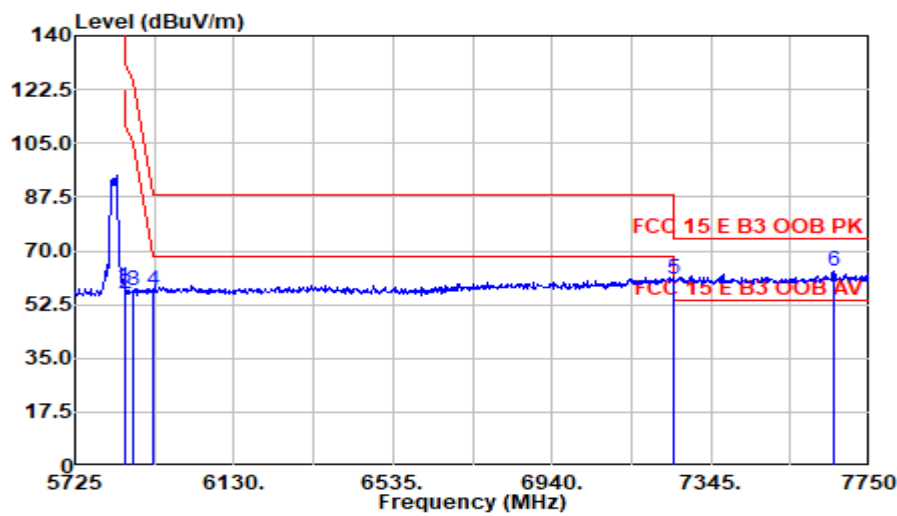
Mode: 802.11a CH5825MHz



Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5850.000	44.34	33.80	8.34	35.30	51.18	122.20	71.02	Average
5855.000	41.89	33.83	8.34	35.30	48.76	110.80	62.04	Average
5875.000	38.75	33.95	8.35	35.30	45.75	105.20	59.45	Average
5925.000	38.82	34.10	8.38	35.30	46.00	68.20	22.20	Average
7250.000	36.73	36.60	9.53	35.53	47.33	54.00	6.67	Average
7683.175	36.95	36.80	9.99	35.57	48.17	54.00	5.83	Average

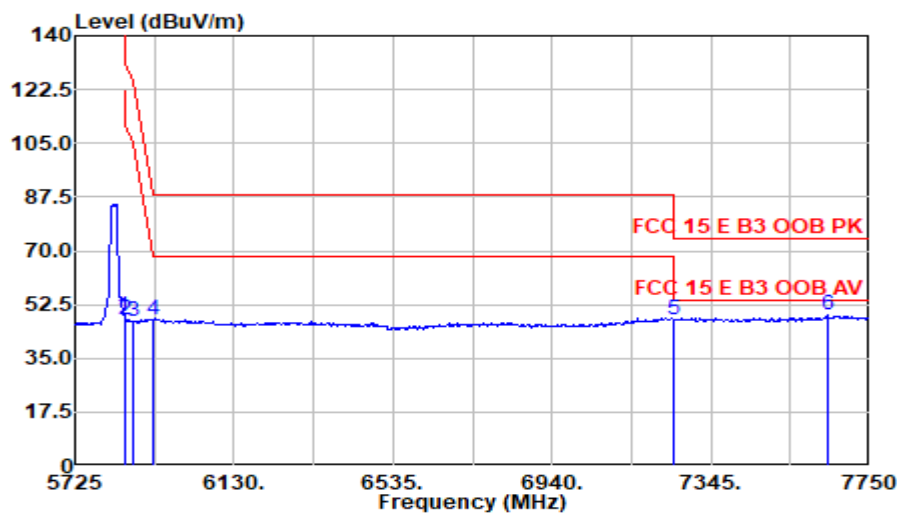
Mode: 802.11a CH5825MHz



Polarization at Vertical

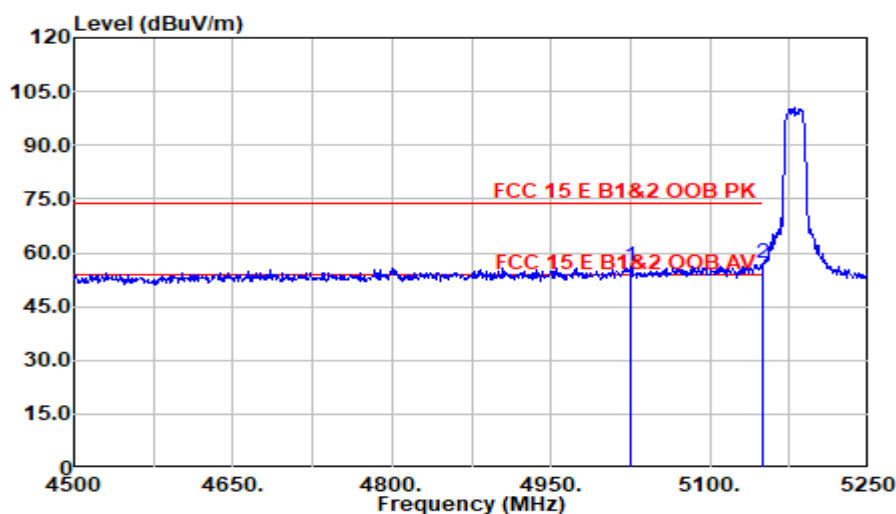
Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5850.000	51.23	33.80	8.34	35.30	58.06	142.20	84.14	Peak
5855.000	49.35	33.83	8.34	35.30	56.22	130.80	74.58	Peak
5875.000	49.85	33.95	8.35	35.30	56.85	125.20	68.35	Peak
5925.000	49.66	34.10	8.38	35.30	56.84	88.20	31.36	Peak
7250.000	50.31	36.60	9.53	35.53	60.91	74.00	13.09	Peak
7658.875	52.42	36.80	9.96	35.57	63.61	74.00	10.39	Peak

Mode: 802.11a CH5825MHz



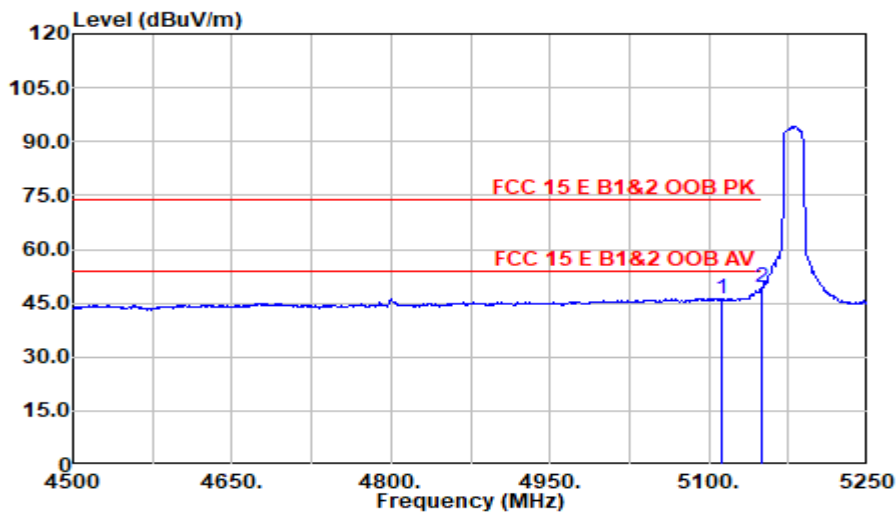
Polarization at Vertical

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5850.000	41.73	33.80	8.34	35.30	48.57	122.20	73.63	Average
5855.000	40.73	33.83	8.34	35.30	47.60	110.80	63.20	Average
5875.000	40.14	33.95	8.35	35.30	47.14	105.20	58.06	Average
5925.000	40.17	34.10	8.38	35.30	47.35	68.20	20.85	Average
7250.000	37.17	36.60	9.53	35.53	47.78	54.00	6.22	Average
7640.650	38.19	36.78	9.95	35.57	49.35	54.00	4.65	Average

Mode: 802.11n20 CH5180MHz


Polarization at Horizontal

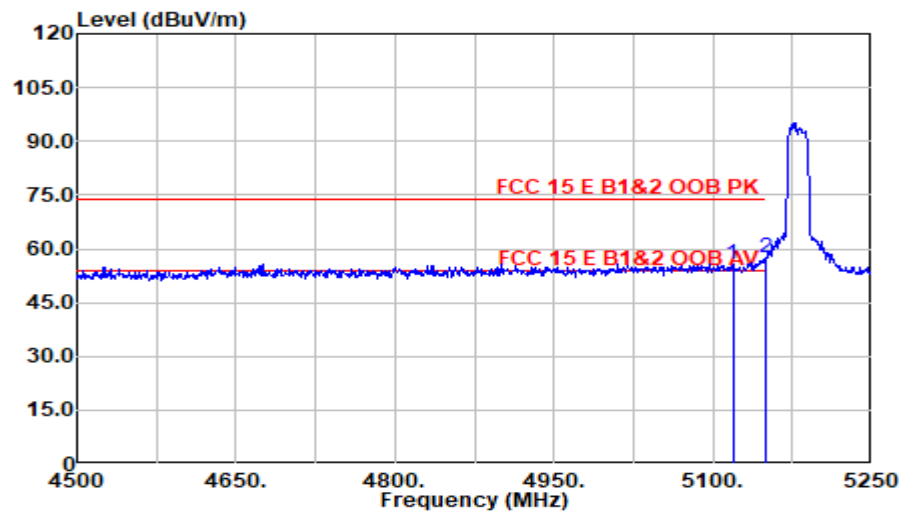
Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5025.750	50.26	33.45	7.83	35.30	56.24	74.00	17.76	Peak
5150.000	50.39	34.00	7.91	35.30	57.00	74.00	17.00	Peak

Mode: 802.11n20 CH5180MHz


Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5112.000	40.03	33.70	7.88	35.30	46.31	54.00	7.69	Average
5150.000	42.70	34.00	7.91	35.30	49.31	54.00	4.69	Average

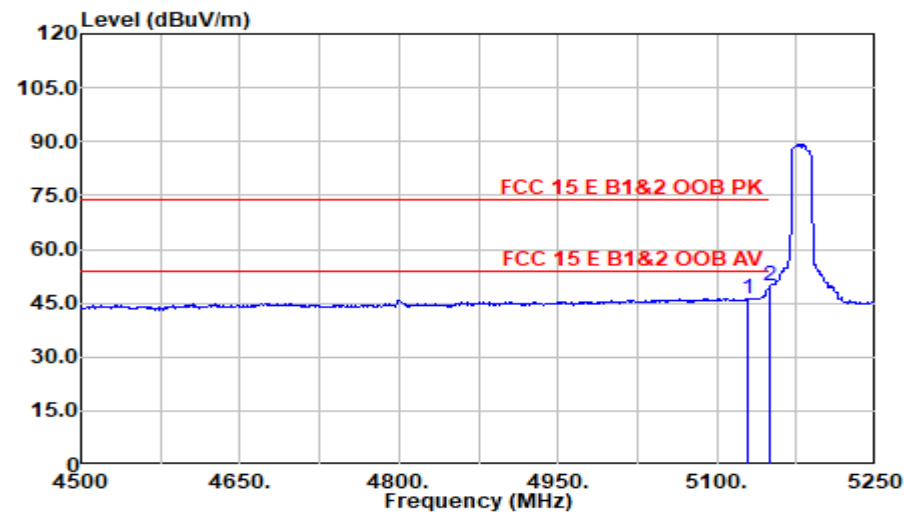
Mode: 802.11n20 CH5180MHz



Polarization at Vertical

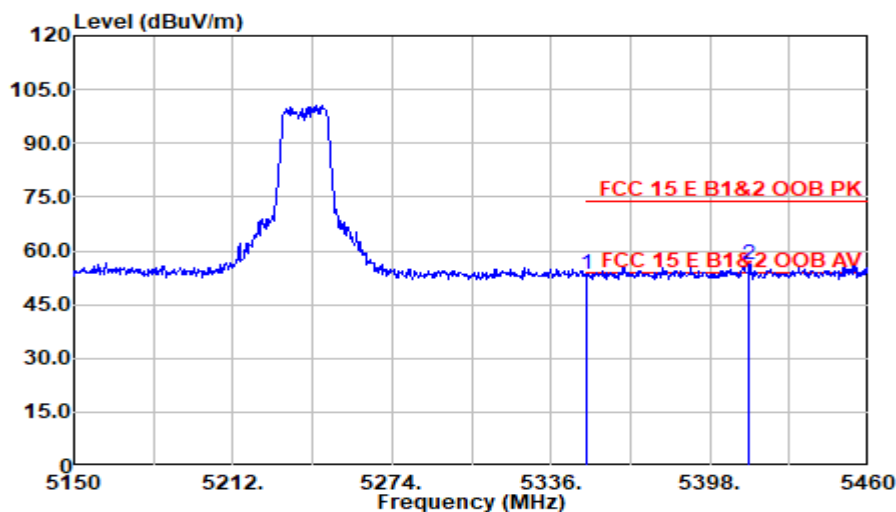
Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5118.750	49.47	33.75	7.89	35.30	55.81	74.00	18.19	Peak
5150.000	50.90	34.00	7.91	35.30	57.51	74.00	16.49	Peak

Mode: 802.11n20 CH5180MHz



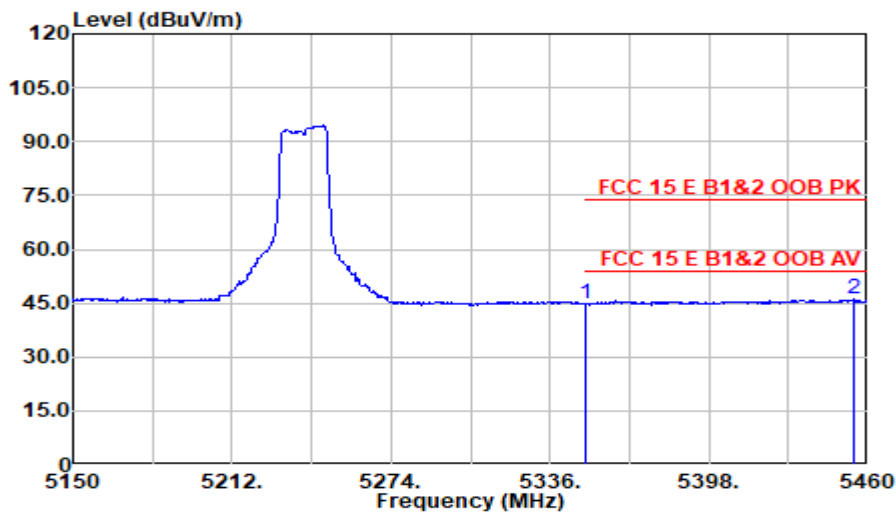
Polarization at Vertical

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5128.500	39.75	33.83	7.89	35.30	46.18	54.00	7.82	Average
5150.000	43.13	34.00	7.91	35.30	49.73	54.00	4.27	Average

Mode: 802.11n20 CH5240MHz


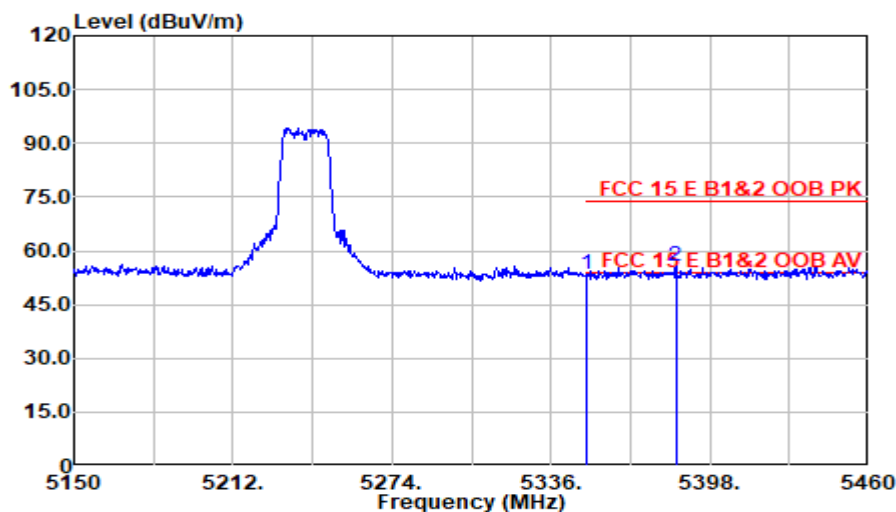
Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5350.000	46.76	34.10	8.04	35.30	53.60	74.00	20.40	Peak
5413.500	49.25	34.05	8.08	35.30	56.08	74.00	17.92	Peak

Mode: 802.11n20 CH5240MHz


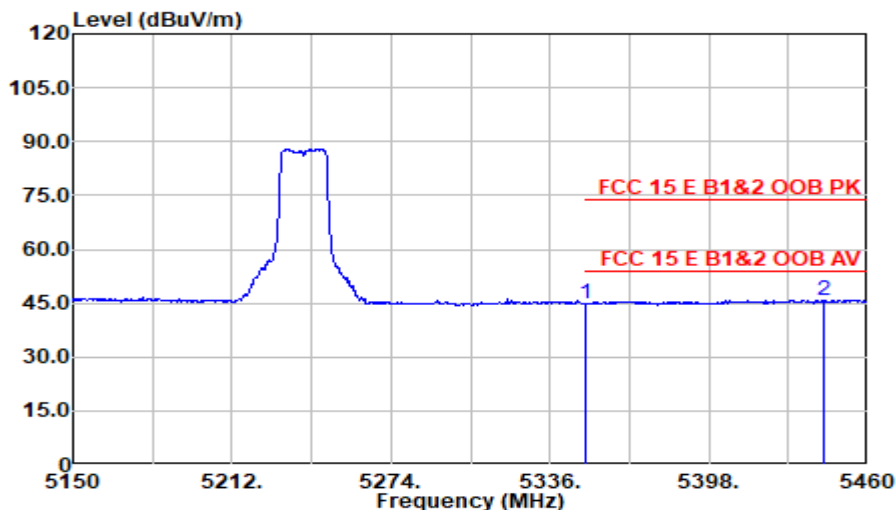
Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5350.000	37.81	34.10	8.04	35.30	44.65	54.00	9.35	Average
5454.730	39.04	34.20	8.10	35.30	46.04	54.00	7.96	Average

Mode: 802.11n20 CH5240MHz


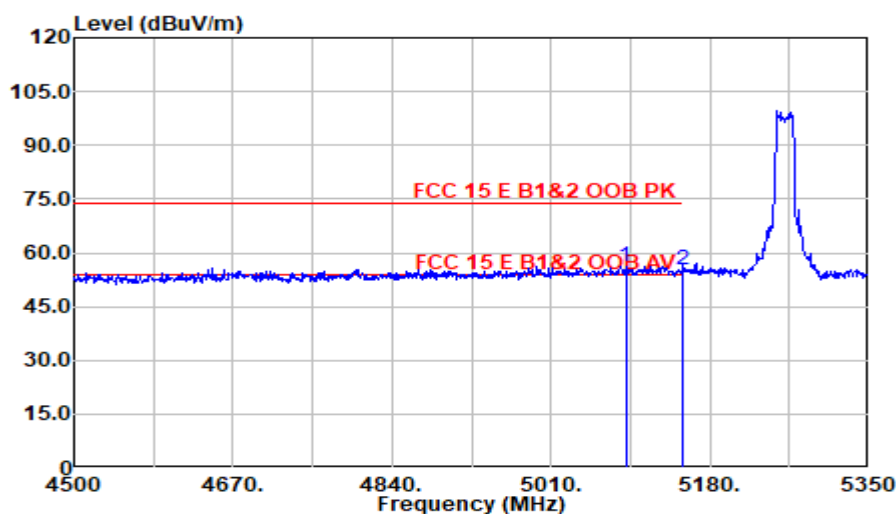
Polarization at Vertical

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5350.000	46.60	34.10	8.04	35.30	53.43	74.00	20.57	Peak
5384.670	48.75	34.03	8.06	35.30	55.53	74.00	18.47	Peak

Mode: 802.11n20 CH5240MHz


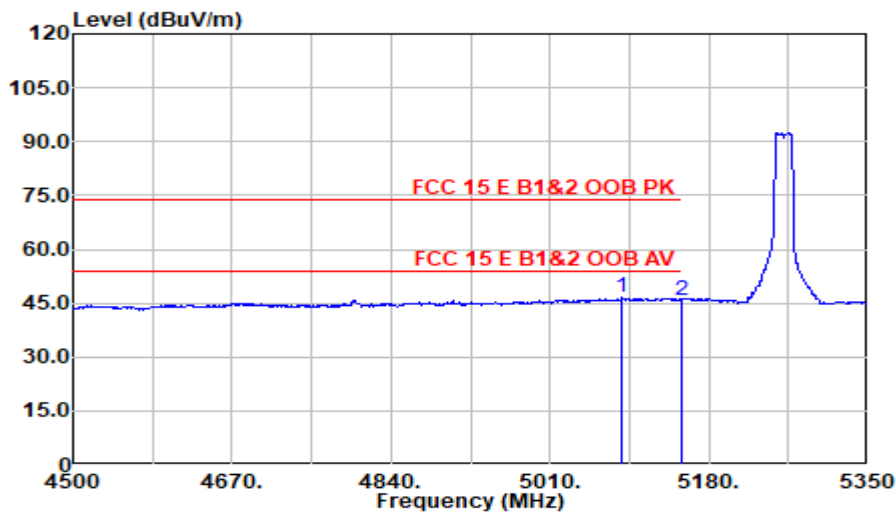
Polarization at Vertical

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5350.000	37.97	34.10	8.04	35.30	44.80	54.00	9.20	Average
5442.640	38.84	34.17	8.09	35.30	45.81	54.00	8.19	Average

Mode: 802.11n20 CH5260MHz


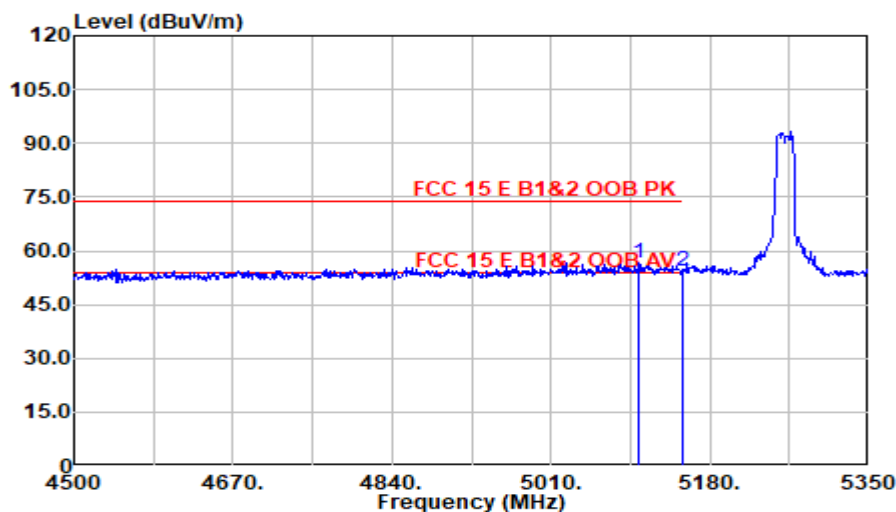
Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5089.900	50.09	33.58	7.87	35.30	56.24	74.00	17.76	Peak
5150.000	48.77	34.00	7.91	35.30	55.38	74.00	18.62	Peak

Mode: 802.11n20 CH5260MHz


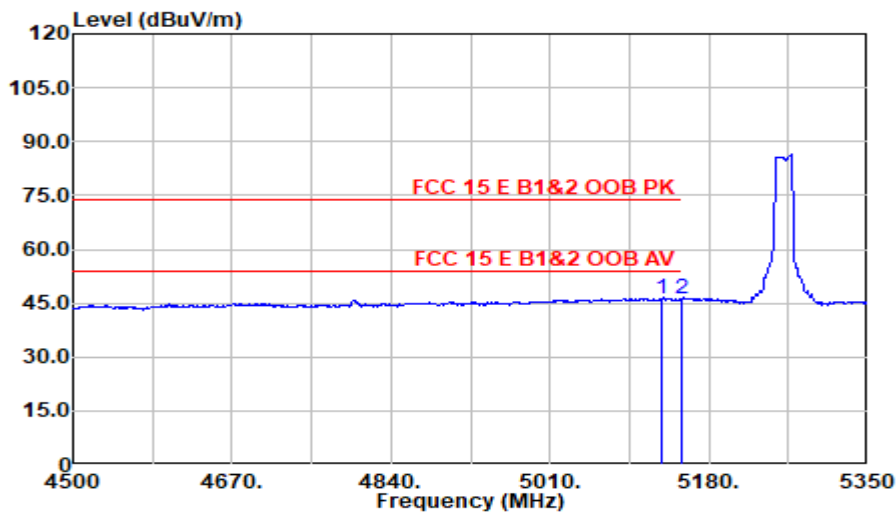
Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5087.350	40.49	33.57	7.87	35.30	46.64	54.00	7.36	Average
5150.000	39.26	34.00	7.91	35.30	45.87	54.00	8.13	Average

Mode: 802.11n20 CH5260MHz


Polarization at Vertical

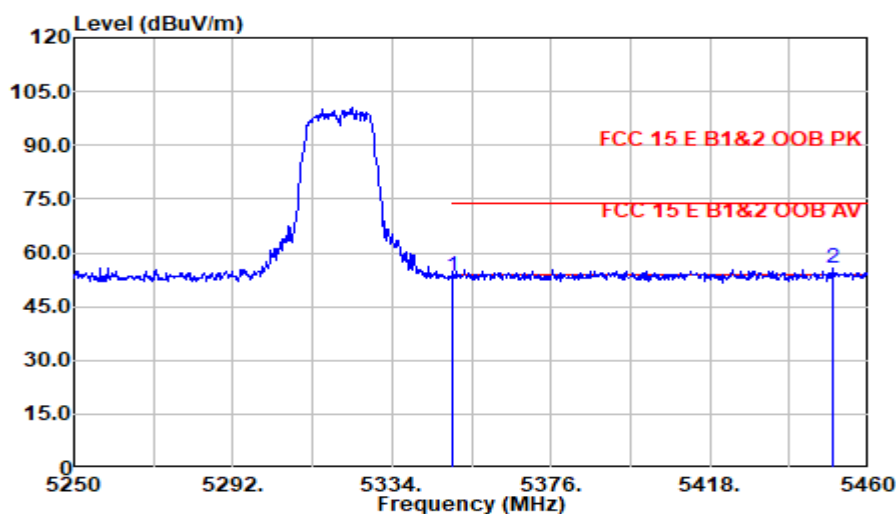
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5104.350	50.49	33.63	7.88	35.30	56.71	74.00	17.29	Peak
5150.000	47.95	34.00	7.91	35.30	54.56	74.00	19.44	Peak

Mode: 802.11n20 CH5260MHz


Polarization at Vertical

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5129.000	39.98	33.83	7.90	35.30	46.41	54.00	7.59	Average
5150.000	39.46	34.00	7.91	35.30	46.07	54.00	7.93	Average

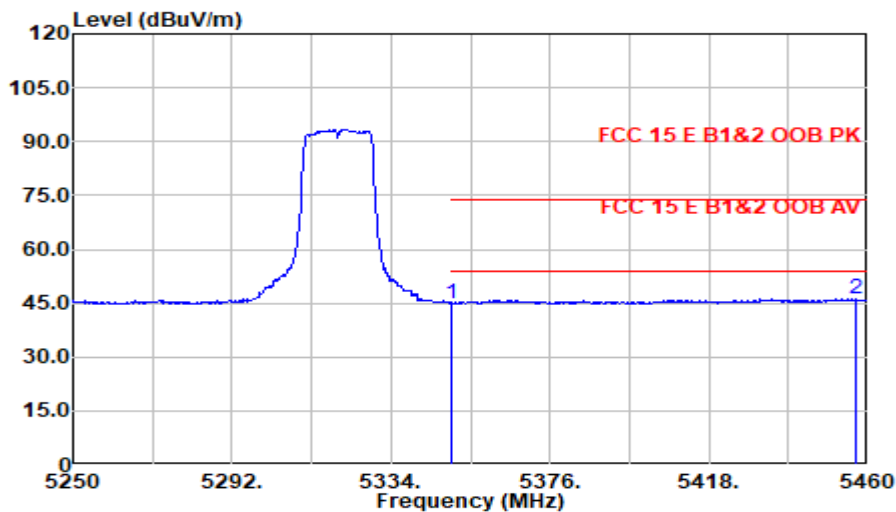
Mode: 802.11n20 CH5320MHz



Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5350.000	46.39	34.10	8.04	35.30	53.23	74.00	20.77	Peak
5450.550	48.68	34.20	8.10	35.30	55.68	74.00	18.32	Peak

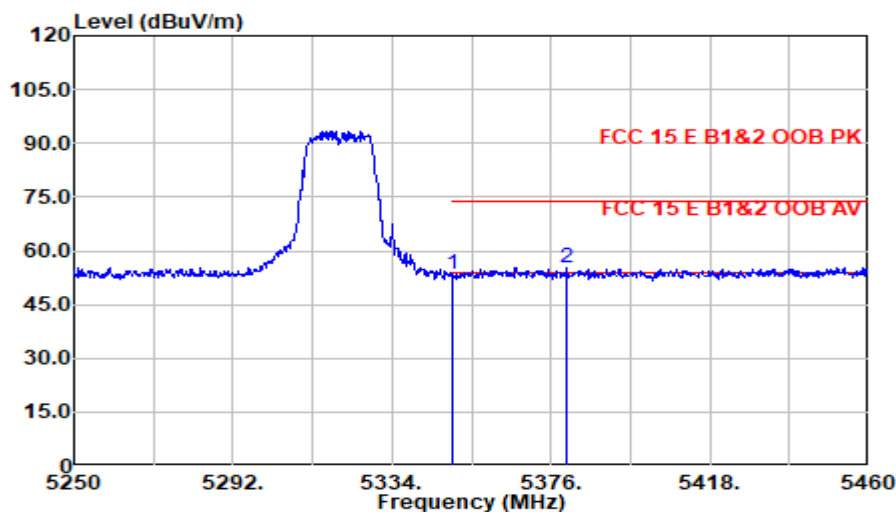
Mode: 802.11n20 CH5320MHz



Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5350.000	38.18	34.10	8.04	35.30	45.02	54.00	8.98	Average
5457.060	39.15	34.20	8.10	35.30	46.16	54.00	7.84	Average

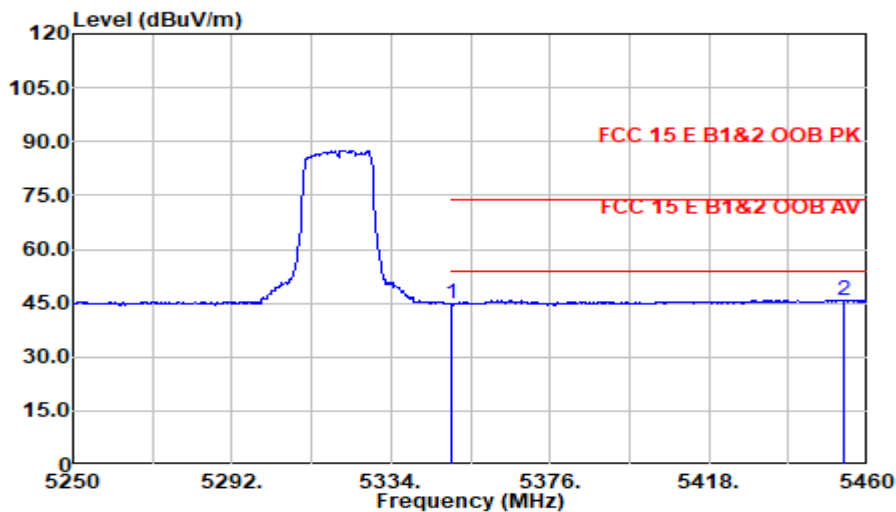
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Polarization at Vertical

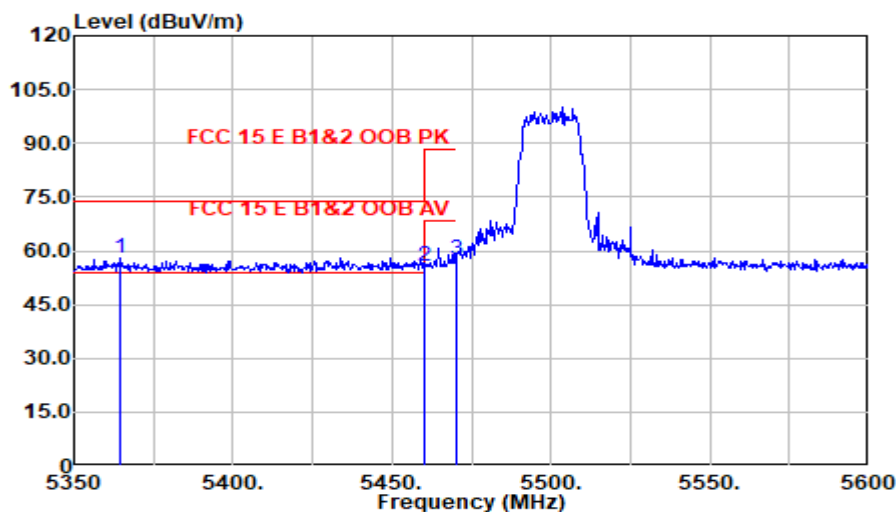
Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5350.000	46.55	34.10	8.04	35.30	53.39	74.00	20.61	Peak
5379.990	48.66	34.04	8.06	35.30	55.45	74.00	18.55	Peak

Mode: 802.11n20 CH5320MHz



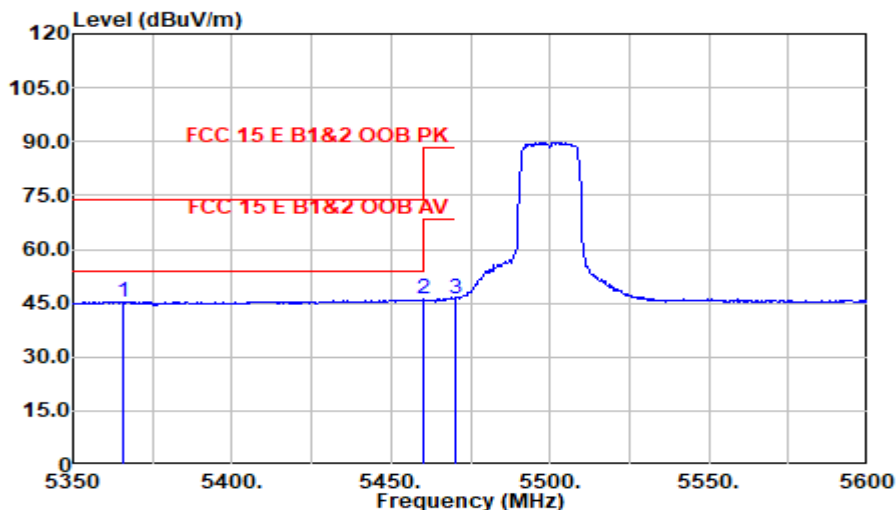
Polarization at Vertical

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5350.000	37.93	34.10	8.04	35.30	44.77	54.00	9.23	Average
5453.910	38.91	34.20	8.10	35.30	45.91	54.00	8.09	Average

Mode: 802.11n20 CH5500MHz


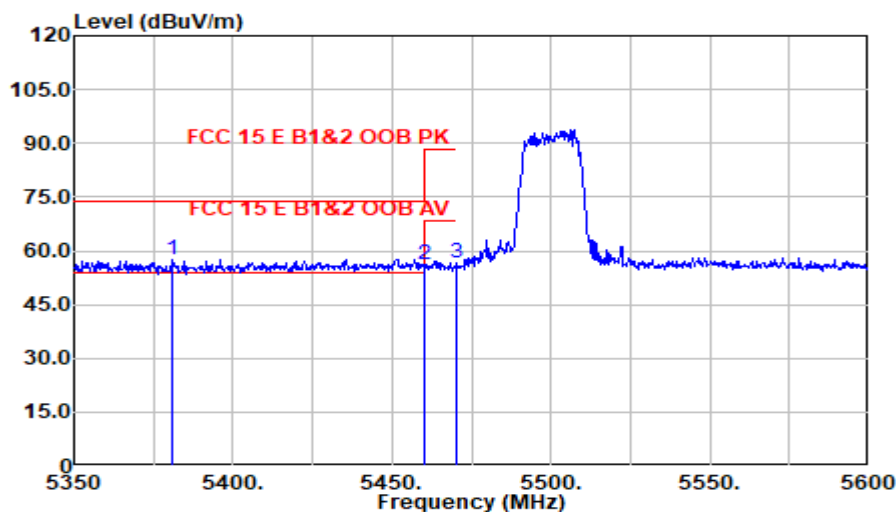
Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5364.250	50.96	34.07	8.05	35.30	57.78	74.00	16.22	Peak
5460.000	48.80	34.20	8.10	35.30	55.81	74.00	18.19	Peak
5470.000	50.64	34.20	8.11	35.30	57.65	88.20	30.55	Peak

Mode: 802.11n20 CH5500MHz


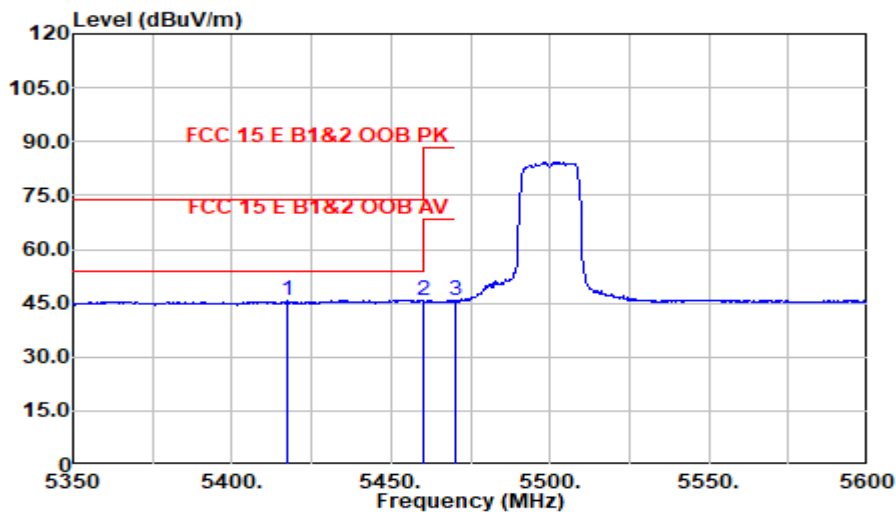
Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5366.000	38.69	34.07	8.05	35.30	45.50	54.00	8.50	Average
5460.000	39.10	34.20	8.10	35.30	46.10	54.00	7.90	Average
5470.000	39.28	34.20	8.11	35.30	46.29	68.20	21.91	Average

Mode: 802.11n20 CH5500MHz


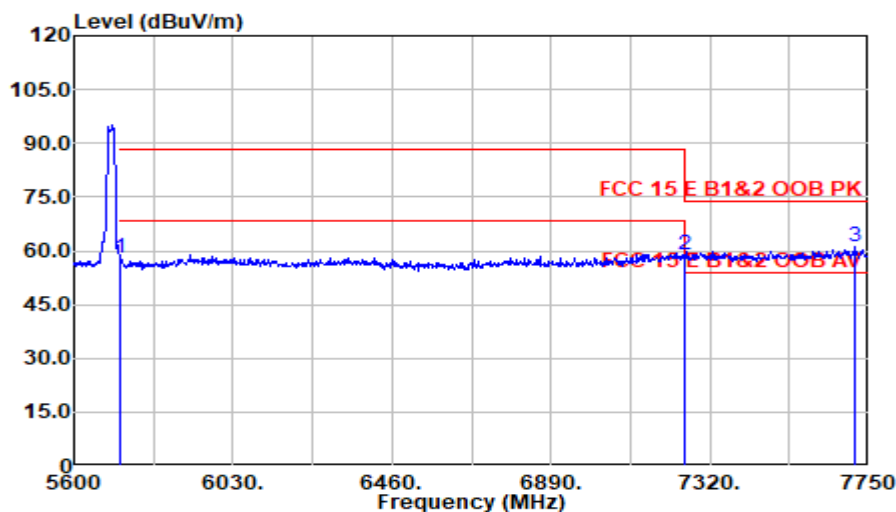
Polarization at Vertical

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5381.000	50.84	34.04	8.06	35.30	57.63	74.00	16.37	Peak
5460.000	49.30	34.20	8.10	35.30	56.31	74.00	17.69	Peak
5470.000	49.50	34.20	8.11	35.30	56.51	88.20	31.69	Peak

Mode: 802.11n20 CH5500MHz


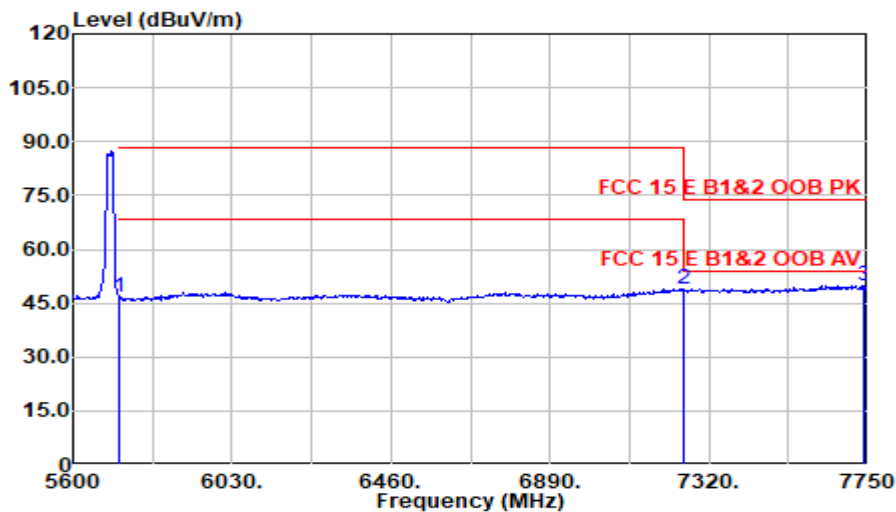
Polarization at Vertical

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5417.500	38.66	34.07	8.08	35.30	45.51	54.00	8.49	Average
5460.000	38.51	34.20	8.10	35.30	45.52	54.00	8.48	Average
5470.000	38.51	34.20	8.11	35.30	45.53	68.20	22.67	Average

Mode: 802.11n20 CH5700MHz

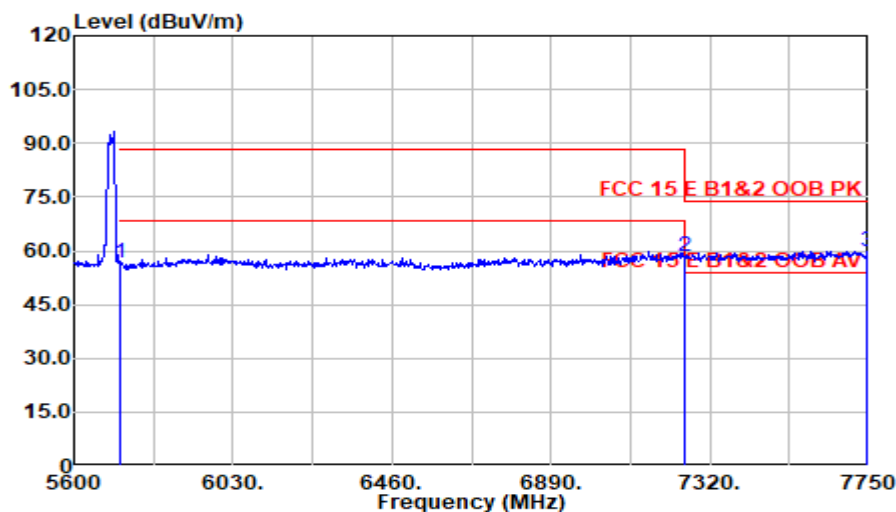
Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5725.000	51.21	33.80	8.26	35.30	57.97	88.20	30.23	Peak
7250.000	48.34	36.60	9.53	35.53	58.95	74.00	15.05	Peak
7713.450	49.70	36.83	10.02	35.57	60.98	74.00	13.02	Peak

Mode: 802.11n20 CH5700MHz

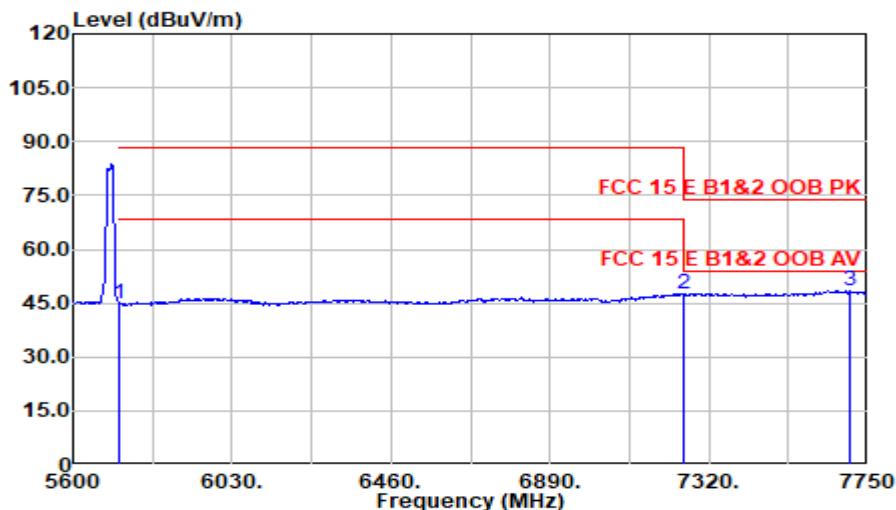
Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5725.000	39.99	33.80	8.26	35.30	46.75	68.20	21.45	Average
7250.000	38.08	36.60	9.53	35.53	48.69	54.00	5.31	Average
7737.100	38.66	36.87	10.04	35.57	50.00	54.00	4.00	Average

Mode: 802.11n20 CH5700MHz


Polarization at Vertical

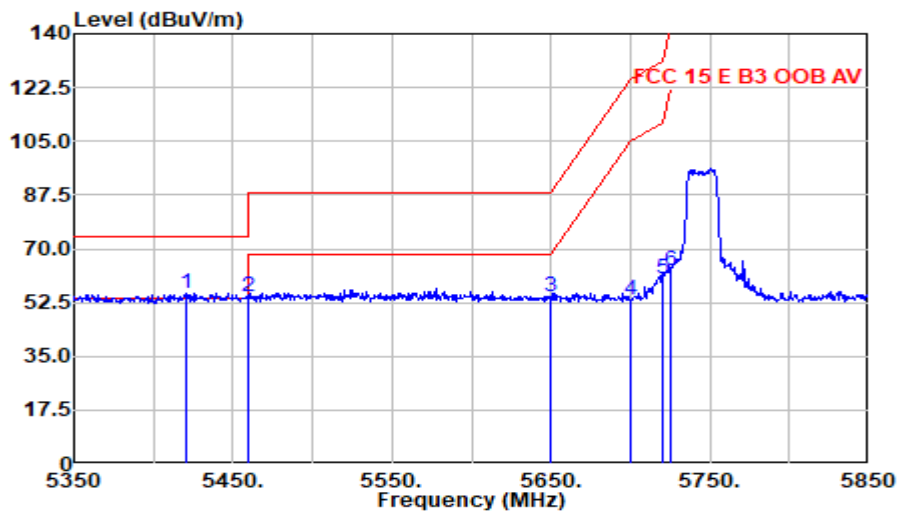
Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5725.000	49.78	33.80	8.26	35.30	56.54	88.20	31.66	Peak
7250.000	47.90	36.60	9.53	35.53	58.50	74.00	15.50	Peak
7745.700	48.63	36.89	10.05	35.58	60.00	74.00	14.00	Peak

Mode: 802.11n20 CH5700MHz


Polarization at Vertical

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5725.000	38.08	33.80	8.26	35.30	44.84	68.20	23.36	Average
7250.000	36.84	36.60	9.53	35.53	47.44	54.00	6.56	Average
7702.700	37.19	36.81	10.01	35.57	48.43	54.00	5.57	Average

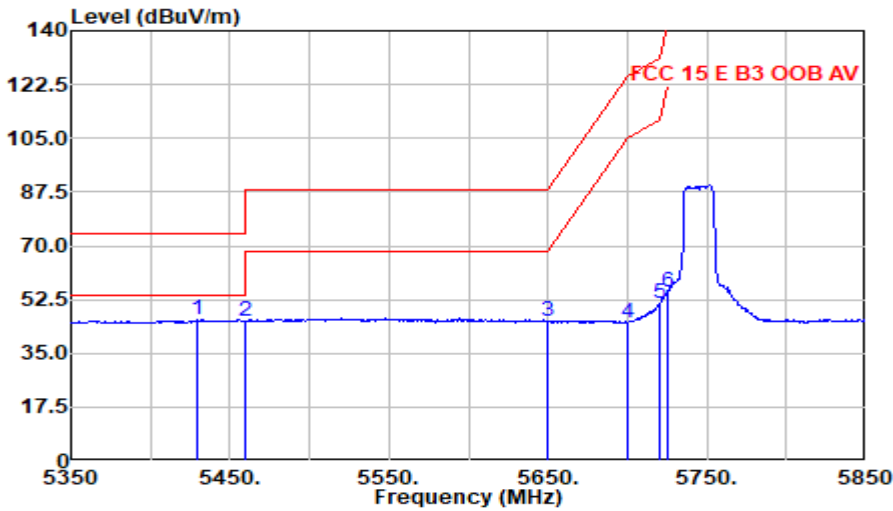
Mode: 802.11n20 CH5745MHz



Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5420.500	48.65	34.08	8.08	35.30	55.51	74.00	18.49	Peak
5460.000	47.22	34.20	8.10	35.30	54.22	74.00	19.78	Peak
5650.000	47.35	33.90	8.22	35.30	54.17	88.20	34.03	Peak
5700.000	46.46	33.80	8.25	35.30	53.21	125.20	71.99	Peak
5720.000	53.60	33.80	8.26	35.30	60.36	130.80	70.44	Peak
5725.000	56.15	33.80	8.26	35.30	62.91	142.20	79.29	Peak

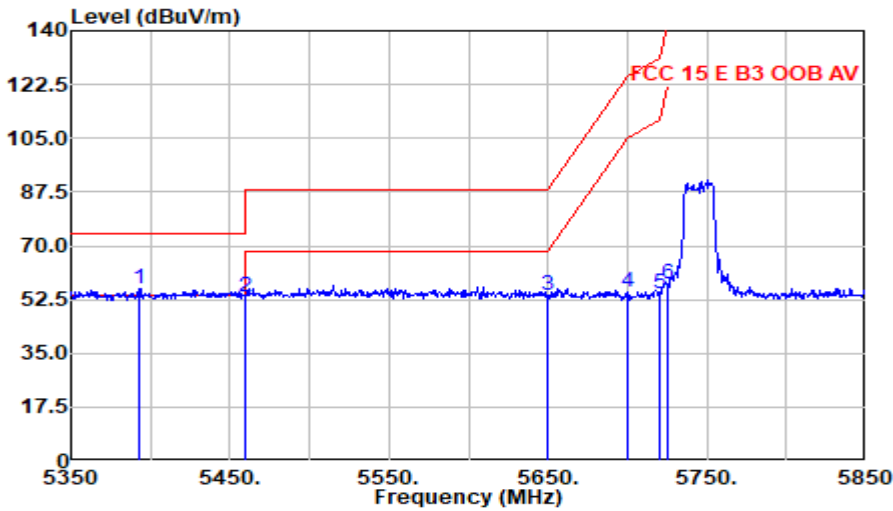
Mode: 802.11n20 CH5745MHz



Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5429.000	38.85	34.12	8.09	35.30	45.75	54.00	8.25	Average
5460.000	38.69	34.20	8.10	35.30	45.69	54.00	8.31	Average
5650.000	38.42	33.90	8.22	35.30	45.24	68.20	22.96	Average
5700.000	38.40	33.80	8.25	35.30	45.15	105.20	60.05	Average
5720.000	44.74	33.80	8.26	35.30	51.50	110.80	59.30	Average
5725.000	48.21	33.80	8.26	35.30	54.97	122.20	67.23	Average

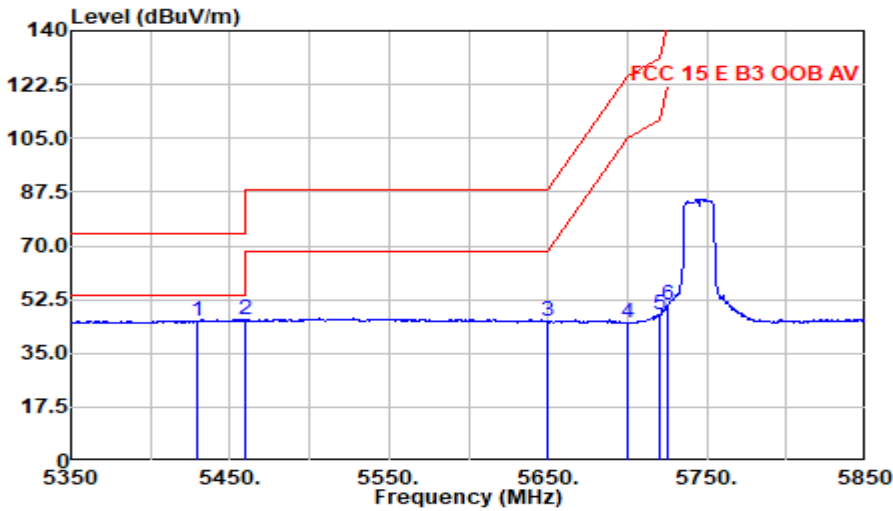
Mode: 802.11n20 CH5745MHz



Polarization at Vertical

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5393.000	49.40	34.01	8.06	35.30	56.18	74.00	17.82	Peak
5460.000	46.39	34.20	8.10	35.30	53.39	74.00	20.61	Peak
5650.000	47.03	33.90	8.22	35.30	53.85	88.20	34.35	Peak
5700.000	47.96	33.80	8.25	35.30	54.71	125.20	70.49	Peak
5720.000	47.78	33.80	8.26	35.30	54.54	130.80	76.26	Peak
5725.000	50.69	33.80	8.26	35.30	57.46	142.20	84.74	Peak

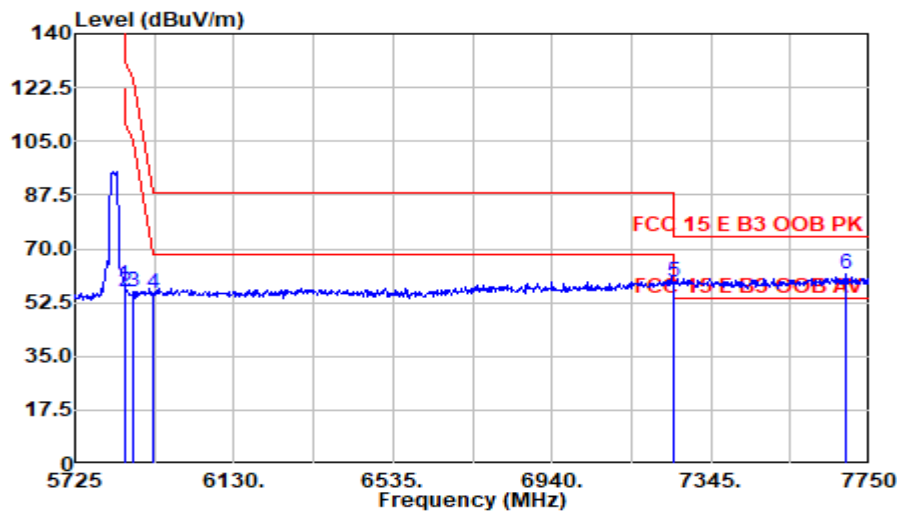
Mode: 802.11n20 CH5745MHz



Polarization at Vertical

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5429.000	38.77	34.12	8.09	35.30	45.67	54.00	8.33	Average
5460.000	38.83	34.20	8.10	35.30	45.84	54.00	8.16	Average
5650.000	38.38	33.90	8.22	35.30	45.20	68.20	23.00	Average
5700.000	38.14	33.80	8.25	35.30	44.89	105.20	60.31	Average
5720.000	40.53	33.80	8.26	35.30	47.29	110.80	63.51	Average
5725.000	44.05	33.80	8.26	35.30	50.81	122.20	71.39	Average

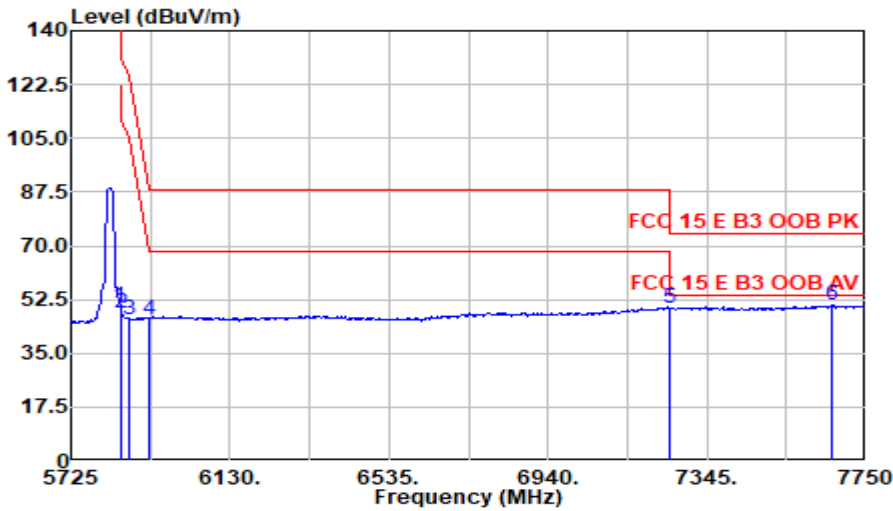
Mode: 802.11n20 CH5825MHz



Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5850.000	51.48	33.80	8.34	35.30	58.32	142.20	83.88	Peak
5855.000	49.35	33.83	8.34	35.30	56.22	130.80	74.58	Peak
5875.000	48.82	33.95	8.35	35.30	55.82	125.20	69.38	Peak
5925.000	48.36	34.10	8.38	35.30	55.54	88.20	32.66	Peak
7250.000	48.53	36.60	9.53	35.53	59.13	74.00	14.87	Peak
7691.275	50.77	36.80	10.00	35.57	61.99	74.00	12.01	Peak

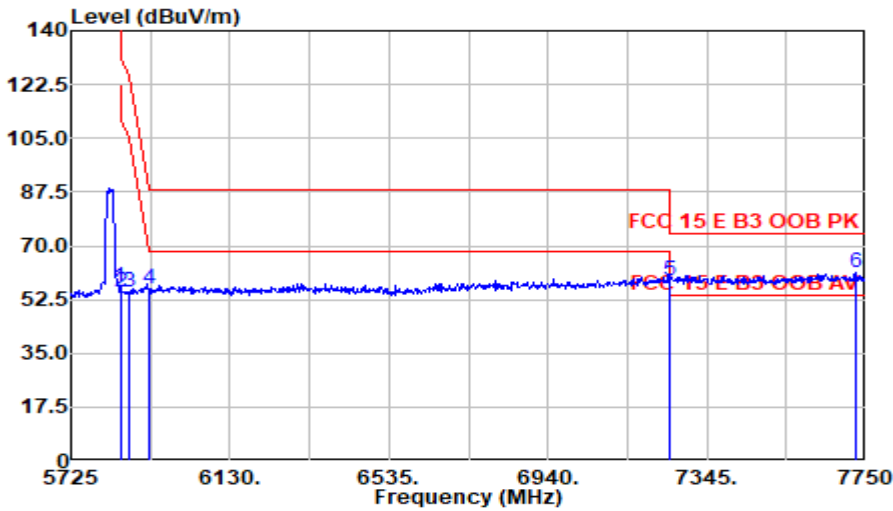
Mode: 802.11n20 CH5825MHz



Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5850.000	43.28	33.80	8.34	35.30	50.11	122.20	72.09	Average
5855.000	41.10	33.83	8.34	35.30	47.97	110.80	62.83	Average
5875.000	39.10	33.95	8.35	35.30	46.10	105.20	59.10	Average
5925.000	39.02	34.10	8.38	35.30	46.20	68.20	22.00	Average
7250.000	39.12	36.60	9.53	35.53	49.72	54.00	4.28	Average
7662.925	39.41	36.80	9.97	35.57	50.62	54.00	3.38	Average

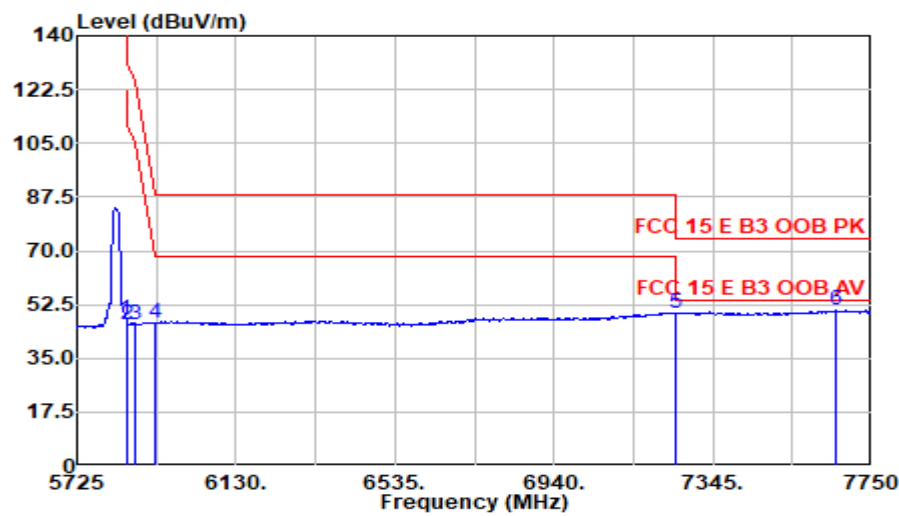
Mode: 802.11n20 CH5825MHz



Polarization at Vertical

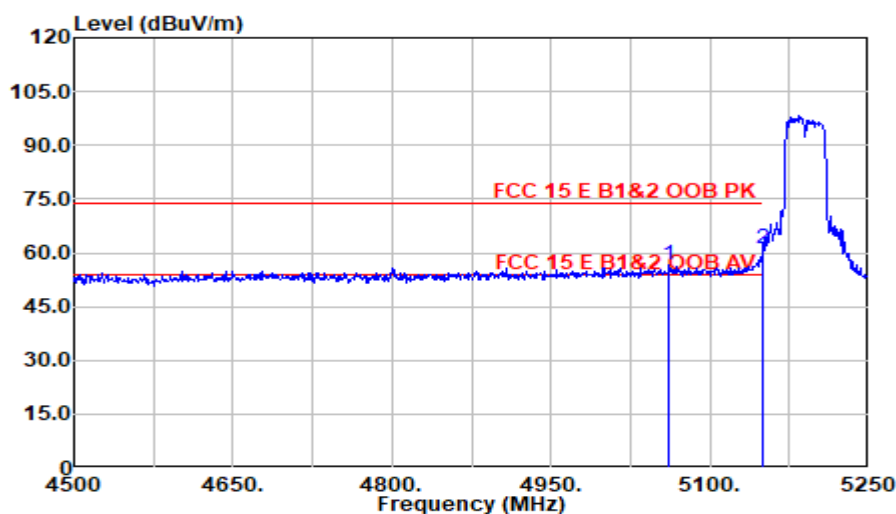
Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5850.000	49.89	33.80	8.34	35.30	56.73	142.20	85.47	Peak
5855.000	47.90	33.83	8.34	35.30	54.77	130.80	76.03	Peak
5875.000	47.80	33.95	8.35	35.30	54.79	125.20	70.41	Peak
5925.000	48.60	34.10	8.38	35.30	55.78	88.20	32.42	Peak
7250.000	48.15	36.60	9.53	35.53	58.75	74.00	15.25	Peak
7723.675	50.04	36.85	10.03	35.57	61.35	74.00	12.65	Peak

Mode: 802.11n20 CH5825MHz



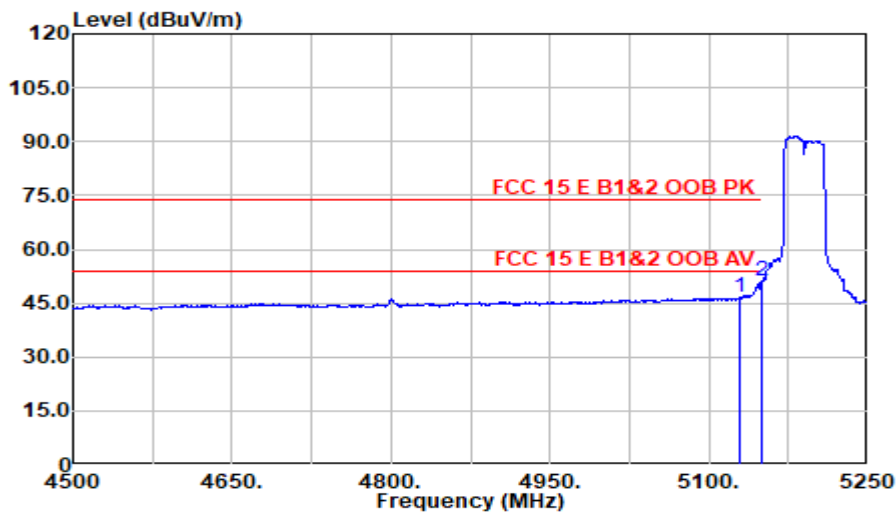
Polarization at Vertical

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5850.000	40.68	33.80	8.34	35.30	47.51	122.20	74.69	Average
5855.000	39.25	33.83	8.34	35.30	46.12	110.80	64.68	Average
5875.000	39.00	33.95	8.35	35.30	46.00	105.20	59.20	Average
5925.000	39.17	34.10	8.38	35.30	46.35	68.20	21.85	Average
7250.000	39.07	36.60	9.53	35.53	49.67	54.00	4.33	Average
7658.875	39.39	36.80	9.96	35.57	50.59	54.00	3.41	Average

Mode: 802.11n40 CH5190MHz


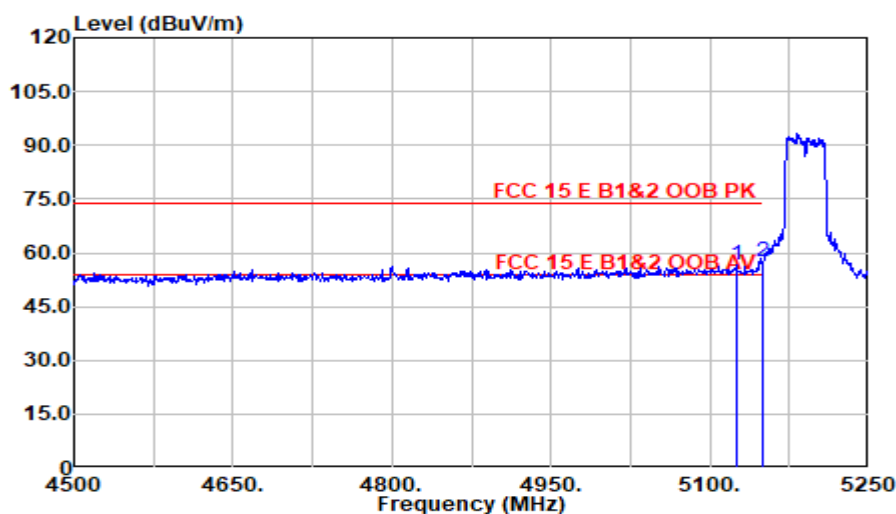
Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5061.750	50.50	33.52	7.85	35.30	56.58	74.00	17.42	Peak
5150.000	54.36	34.00	7.91	35.30	60.97	74.00	13.03	Peak

Mode: 802.11n40 CH5190MHz


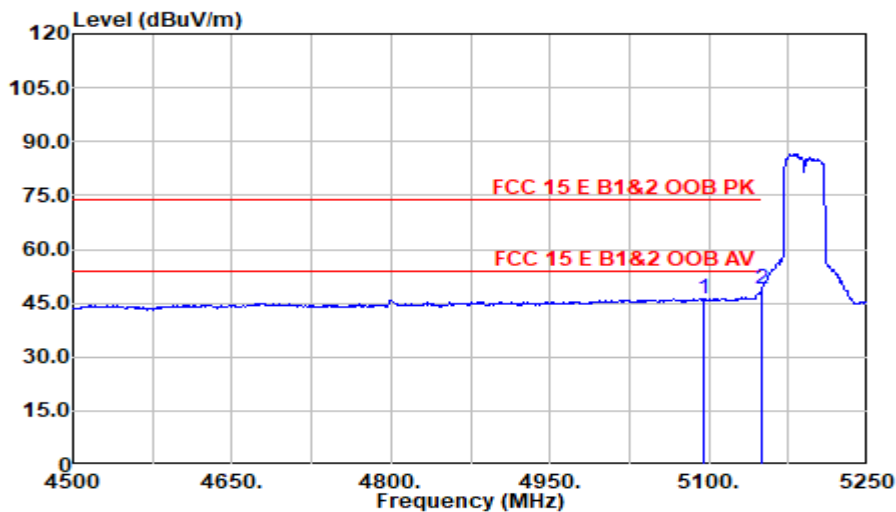
Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5130.000	40.11	33.84	7.90	35.30	46.54	54.00	7.46	Average
5150.000	44.44	34.00	7.91	35.30	51.05	54.00	2.95	Average

Mode: 802.11n40 CH5190MHz


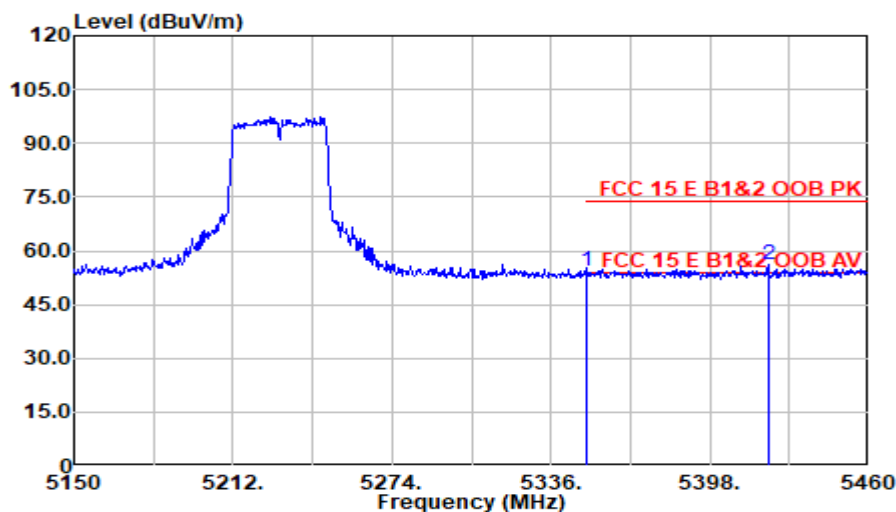
Polarization at Vertical

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5125.500	50.17	33.80	7.89	35.30	56.57	74.00	17.43	Peak
5150.000	51.04	34.00	7.91	35.30	57.65	74.00	16.35	Peak

Mode: 802.11n40 CH5190MHz


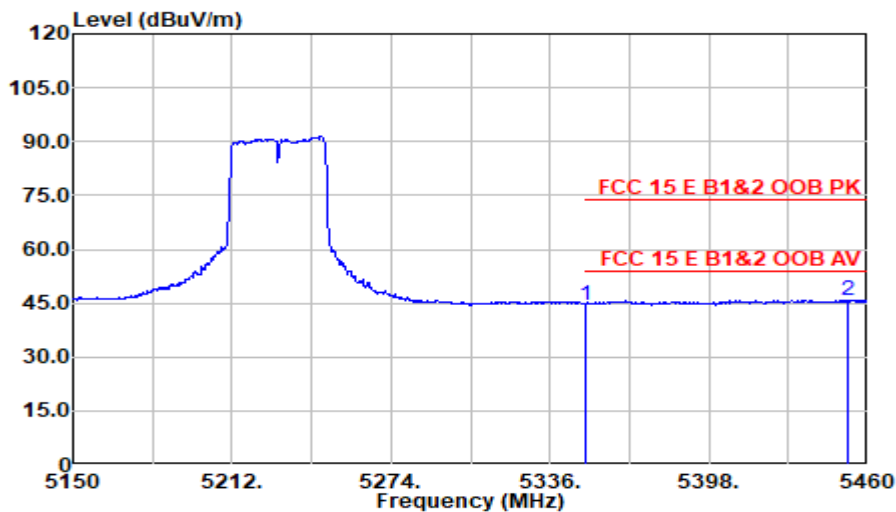
Polarization at Vertical

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5094.750	40.13	33.59	7.87	35.30	46.29	54.00	7.71	Average
5150.000	42.31	34.00	7.91	35.30	48.92	54.00	5.08	Average

Mode: 802.11n40 CH5230MHz


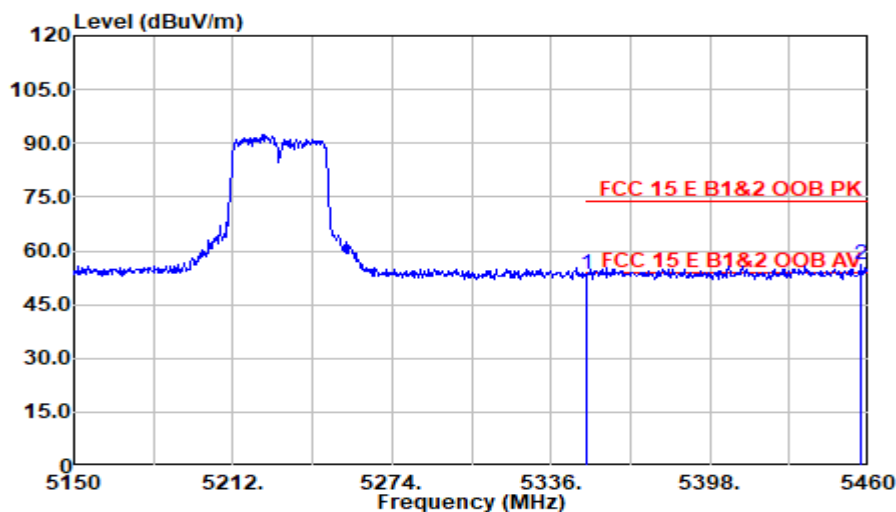
Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5350.000	47.69	34.10	8.04	35.30	54.53	74.00	19.47	Peak
5420.630	49.12	34.08	8.08	35.30	55.98	74.00	18.02	Peak

Mode: 802.11n40 CH5230MHz


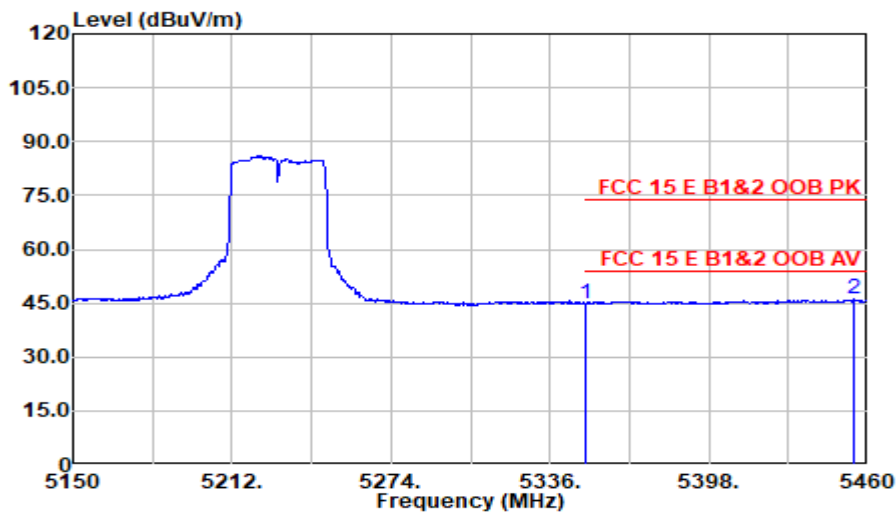
Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5350.000	37.73	34.10	8.04	35.30	44.56	54.00	9.44	Average
5451.940	38.83	34.20	8.10	35.30	45.83	54.00	8.17	Average

Mode: 802.11n40 CH5230MHz


Polarization at Vertical

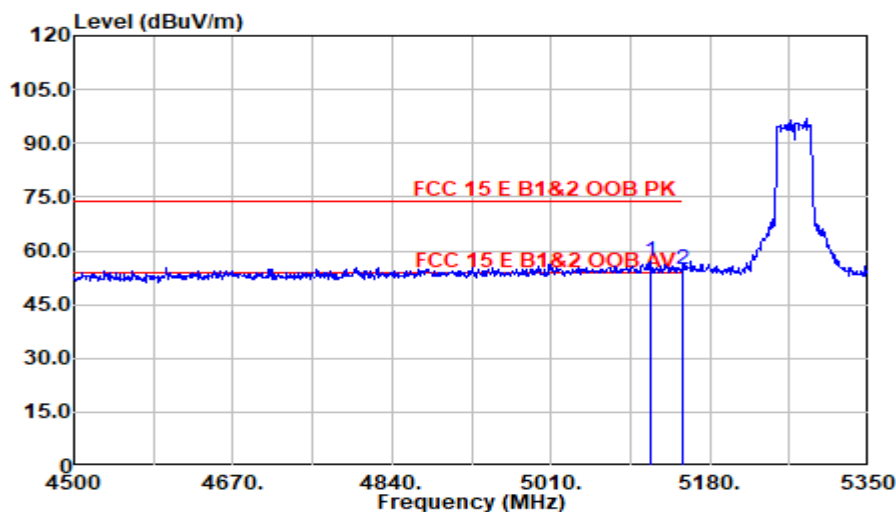
Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5350.000	46.71	34.10	8.04	35.30	53.55	74.00	20.45	Peak
5457.210	49.24	34.20	8.10	35.30	56.24	74.00	17.76	Peak

Mode: 802.11n40 CH5230MHz


Polarization at Vertical

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5350.000	38.09	34.10	8.04	35.30	44.93	54.00	9.07	Average
5454.730	39.04	34.20	8.10	35.30	46.04	54.00	7.96	Average

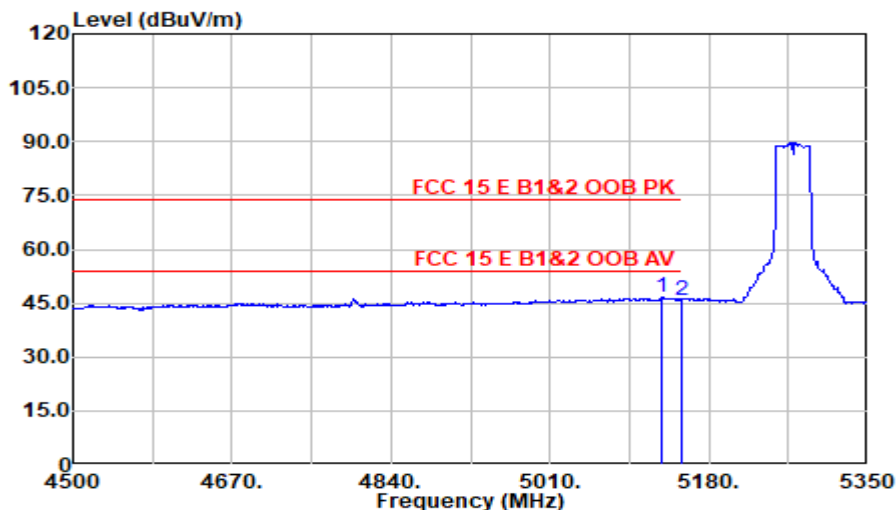
Mode: 802.11n40 CH5270MHz



Polarization at Horizontal

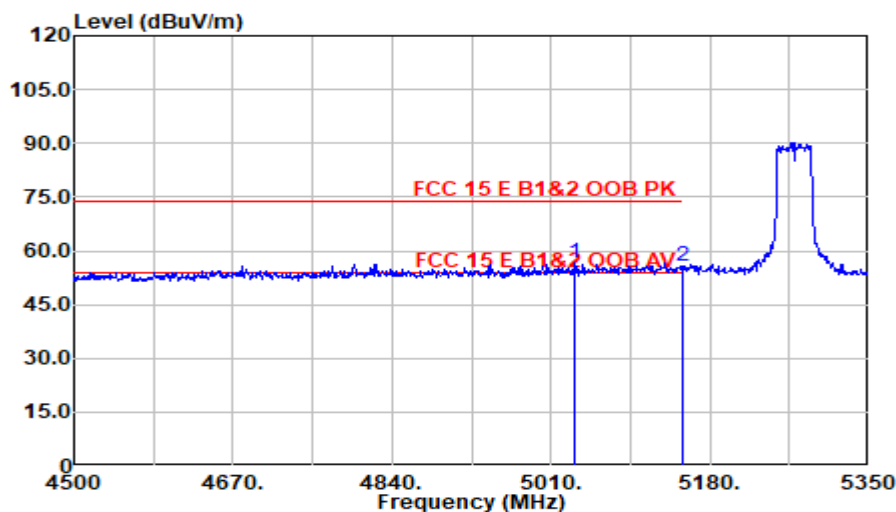
Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5117.100	50.54	33.74	7.89	35.30	56.86	74.00	17.14	Peak
5150.000	48.13	34.00	7.91	35.30	54.74	74.00	19.26	Peak

Mode: 802.11n40 CH5270MHz



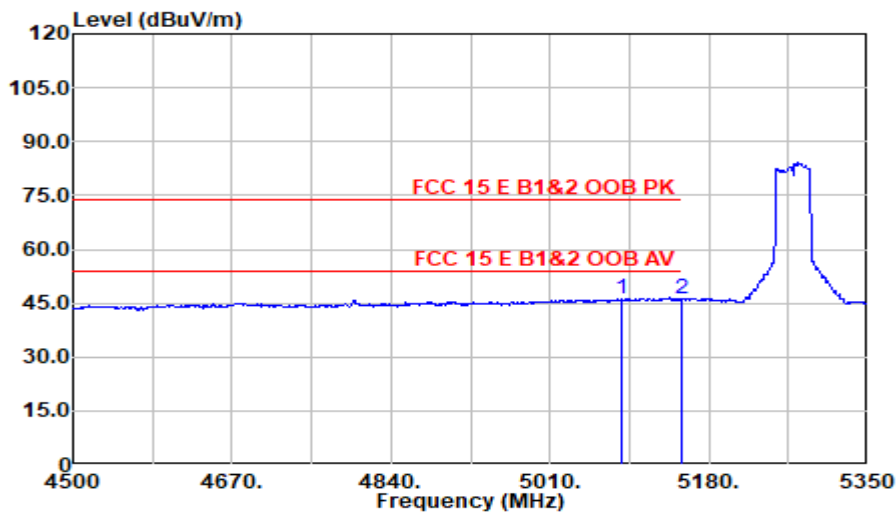
Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5129.000	40.07	33.83	7.90	35.30	46.50	54.00	7.50	Average
5150.000	39.24	34.00	7.91	35.30	45.85	54.00	8.15	Average

Mode: 802.11n40 CH5270MHz


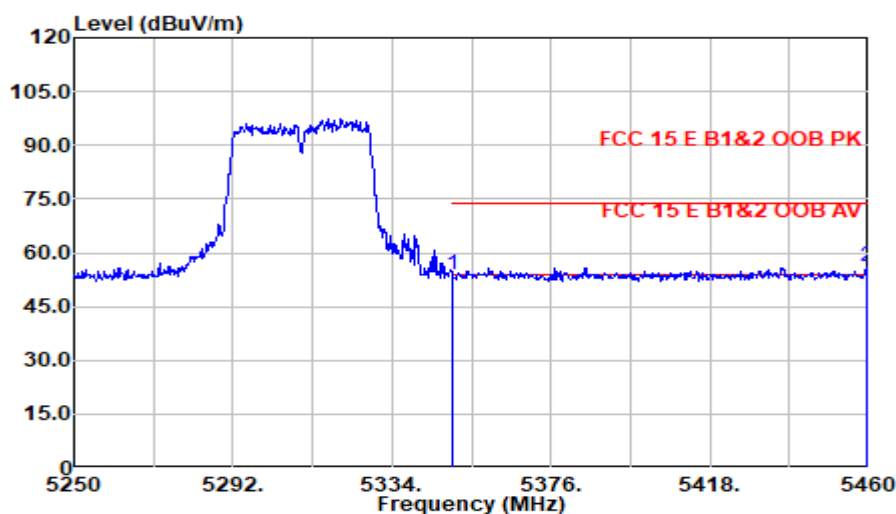
Polarization at Vertical

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5035.500	50.63	33.47	7.83	35.30	56.64	74.00	17.36	Peak
5150.000	49.13	34.00	7.91	35.30	55.74	74.00	18.26	Peak

Mode: 802.11n40 CH5270MHz


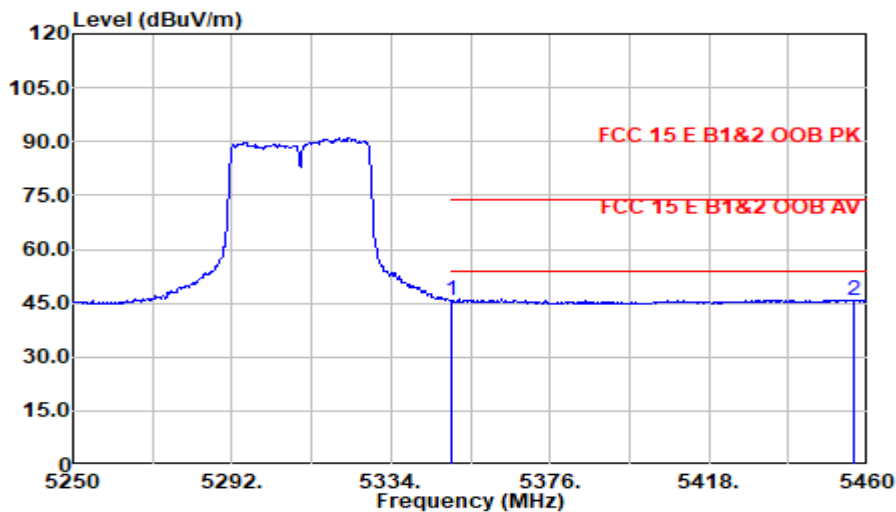
Polarization at Vertical

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5087.350	40.11	33.57	7.87	35.30	46.25	54.00	7.75	Average
5150.000	39.55	34.00	7.91	35.30	46.16	54.00	7.84	Average

Mode: 802.11n40 CH5310MHz


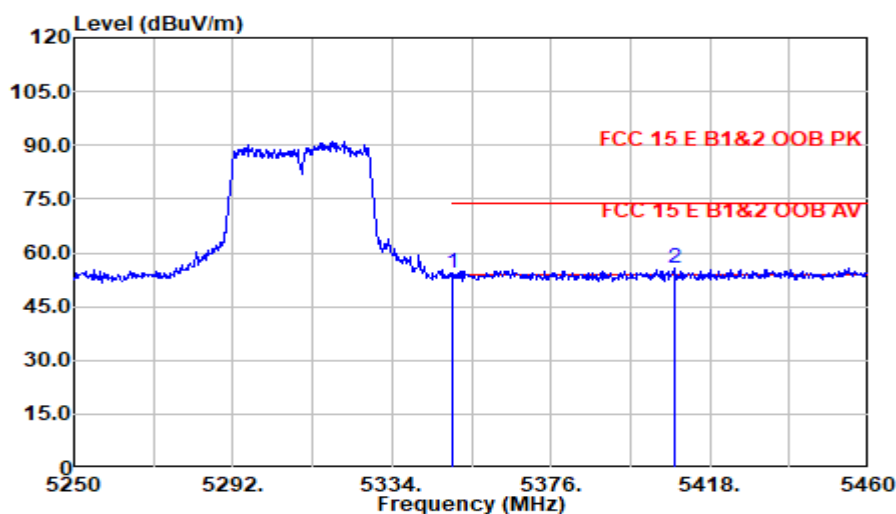
Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5350.000	47.15	34.10	8.04	35.30	53.99	74.00	20.01	Peak
5459.370	49.18	34.20	8.10	35.30	56.18	74.00	17.82	Peak

Mode: 802.11n40 CH5310MHz


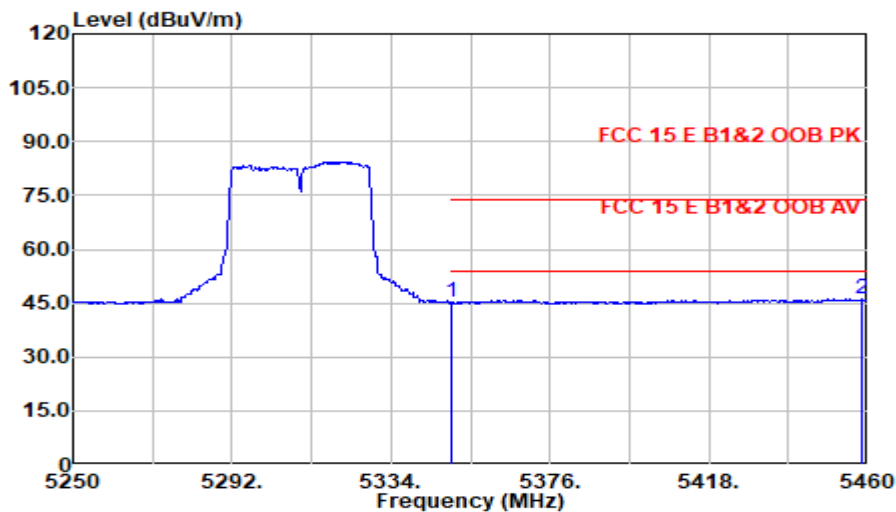
Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5350.000	38.68	34.10	8.04	35.30	45.52	54.00	8.48	Average
5456.220	38.94	34.20	8.10	35.30	45.94	54.00	8.06	Average

Mode: 802.11n40 CH5310MHz


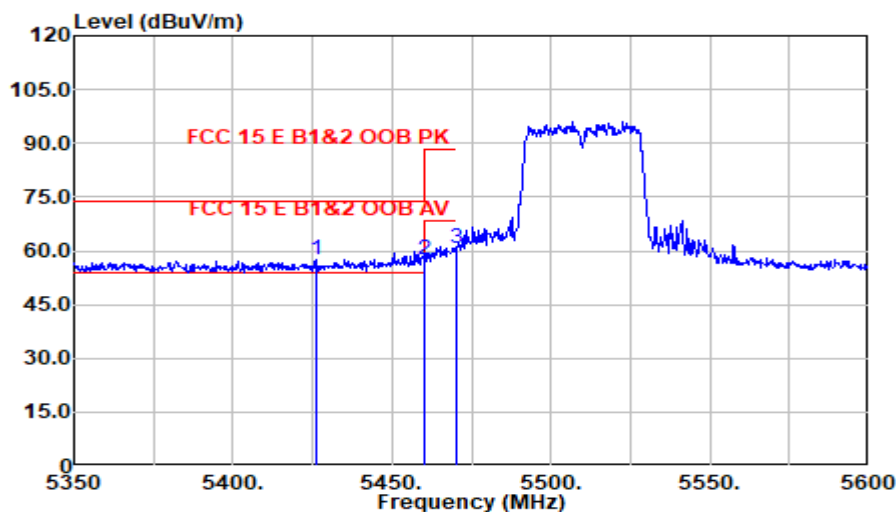
Polarization at Vertical

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5350.000	47.28	34.10	8.04	35.30	54.11	74.00	19.89	Peak
5408.550	48.75	34.03	8.07	35.30	55.55	74.00	18.45	Peak

Mode: 802.11n40 CH5310MHz


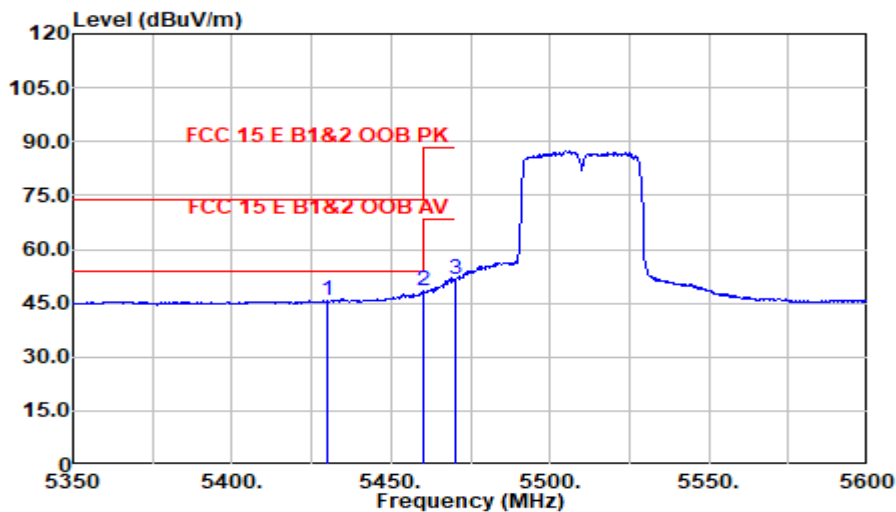
Polarization at Vertical

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5350.000	38.35	34.10	8.04	35.30	45.18	54.00	8.82	Average
5458.320	39.07	34.20	8.10	35.30	46.08	54.00	7.92	Average

Mode: 802.11n40 CH5510MHz


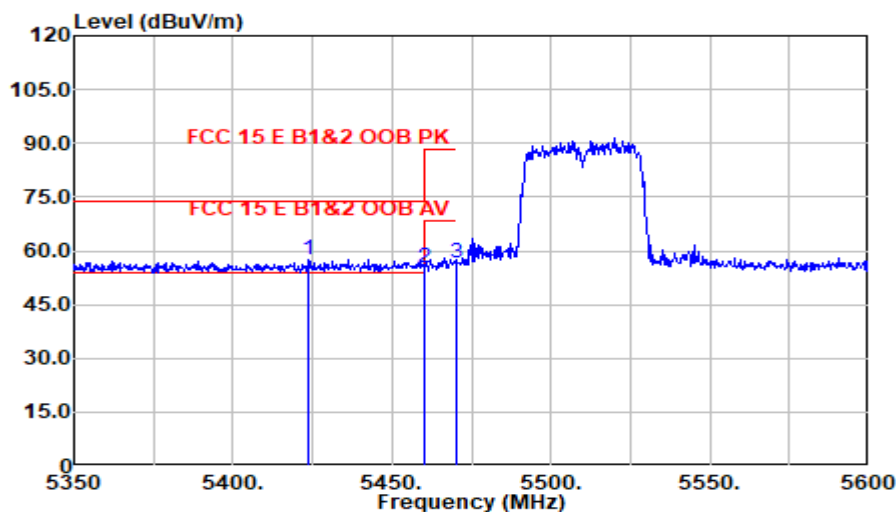
Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5426.500	50.66	34.11	8.08	35.30	57.55	74.00	16.45	Peak
5460.000	50.68	34.20	8.10	35.30	57.69	74.00	16.31	Peak
5470.000	53.48	34.20	8.11	35.30	60.49	88.20	27.71	Peak

Mode: 802.11n40 CH5510MHz


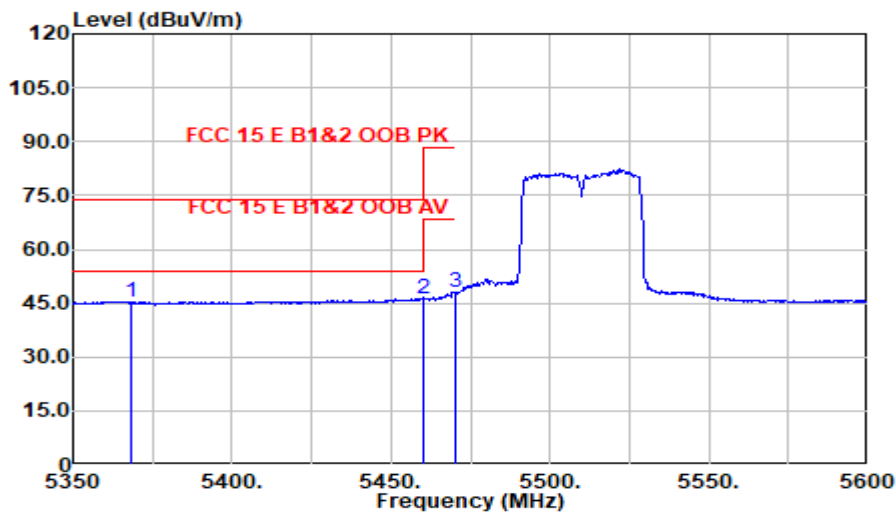
Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5430.000	38.87	34.12	8.09	35.30	45.78	54.00	8.22	Average
5460.000	41.44	34.20	8.10	35.30	48.44	54.00	5.56	Average
5470.000	44.75	34.20	8.11	35.30	51.76	68.20	16.44	Average

Mode: 802.11n40 CH5510MHz


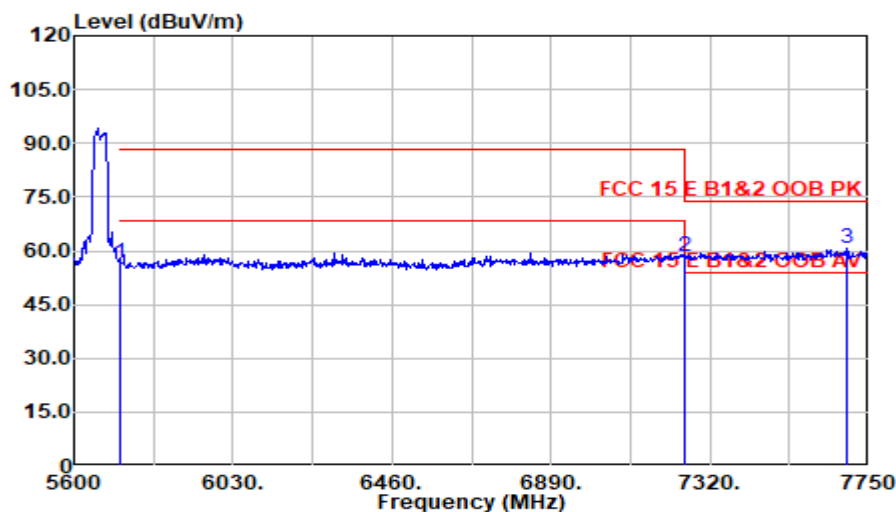
Polarization at Vertical

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5423.500	50.81	34.09	8.08	35.30	57.68	74.00	16.32	Peak
5460.000	48.35	34.20	8.10	35.30	55.36	74.00	18.64	Peak
5470.000	49.50	34.20	8.11	35.30	56.51	88.20	31.69	Peak

Mode: 802.11n40 CH5510MHz


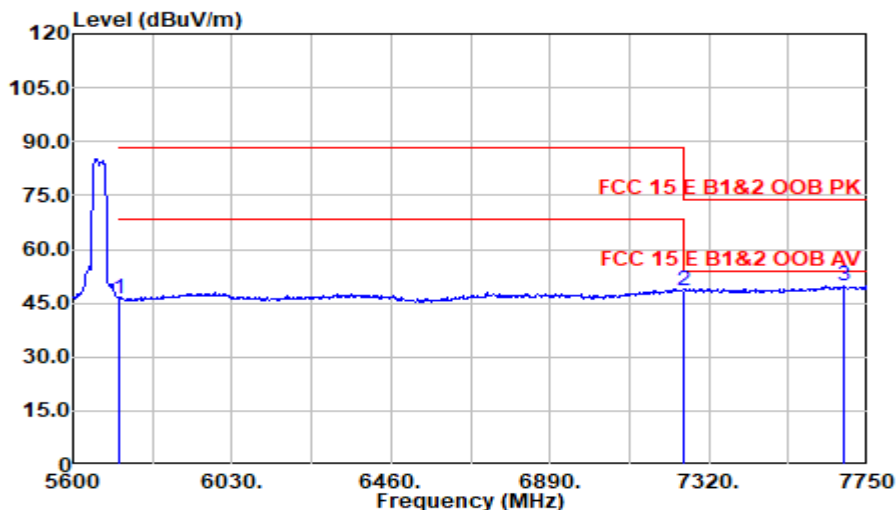
Polarization at Vertical

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5368.000	38.67	34.06	8.05	35.30	45.48	54.00	8.52	Average
5460.000	38.99	34.20	8.10	35.30	45.99	54.00	8.01	Average
5470.000	40.81	34.20	8.11	35.30	47.82	68.20	20.38	Average

Mode: 802.11n40 CH5670MHz


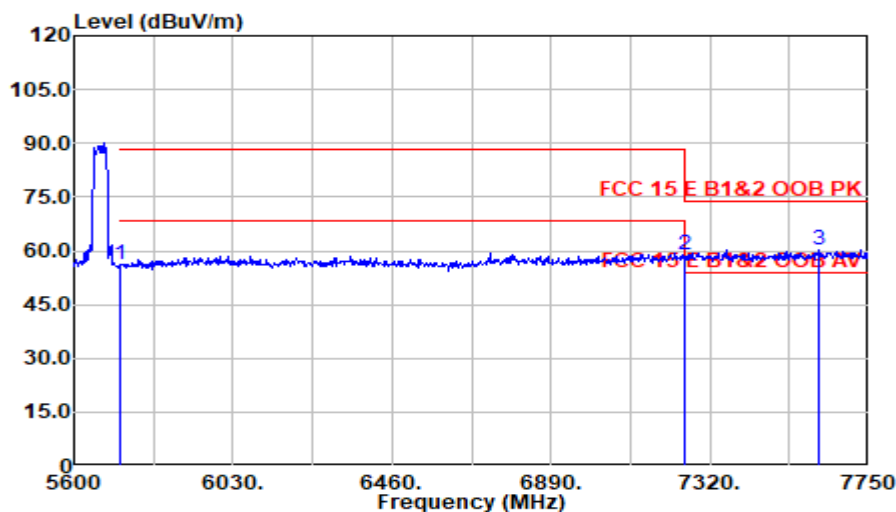
Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5725.000	49.89	33.80	8.26	35.30	56.65	88.20	31.55	Peak
7250.000	47.78	36.60	9.53	35.53	58.38	74.00	15.62	Peak
7689.800	49.63	36.80	10.00	35.57	60.85	74.00	13.15	Peak

Mode: 802.11n40 CH5670MHz


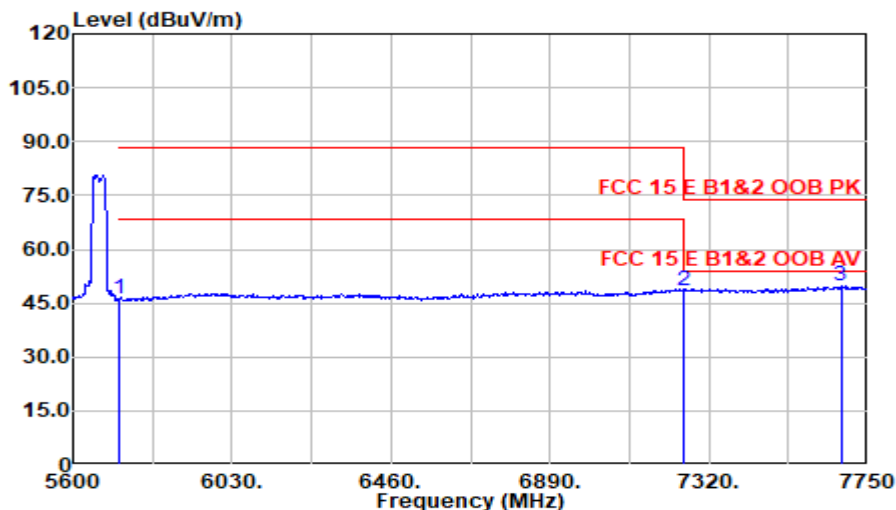
Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5725.000	39.47	33.80	8.26	35.30	46.24	68.20	21.96	Average
7250.000	37.93	36.60	9.53	35.53	48.53	54.00	5.47	Average
7687.650	38.51	36.80	9.99	35.57	49.74	54.00	4.26	Average

Mode: 802.11n40 CH5670MHz


Polarization at Vertical

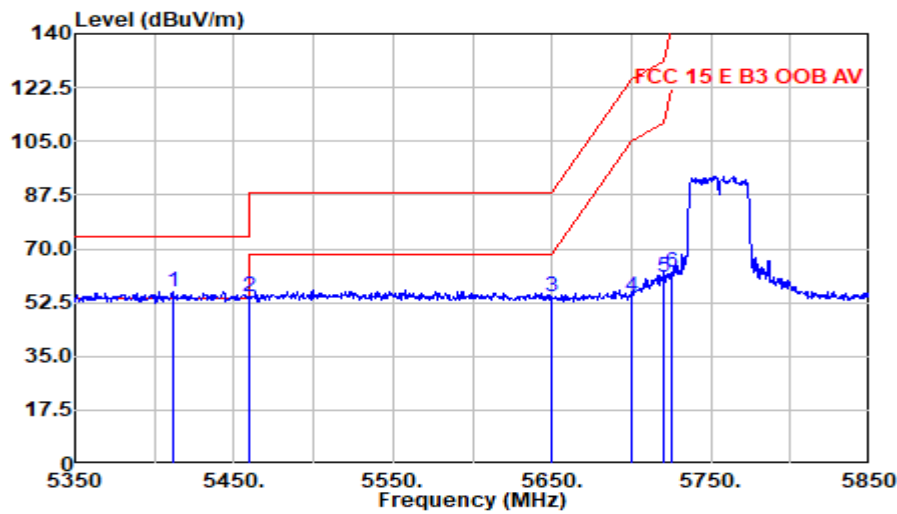
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5725.000	49.32	33.80	8.26	35.30	56.09	88.20	32.11	Peak
7250.000	48.43	36.60	9.53	35.53	59.04	74.00	14.96	Peak
7612.400	49.25	36.72	9.92	35.56	60.33	74.00	13.67	Peak

Mode: 802.11n40 CH5670MHz


Polarization at Vertical

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5725.000	39.50	33.80	8.26	35.30	46.27	68.20	21.93	Average
7250.000	38.04	36.60	9.53	35.53	48.64	54.00	5.36	Average
7676.900	38.56	36.80	9.98	35.57	49.77	54.00	4.23	Average

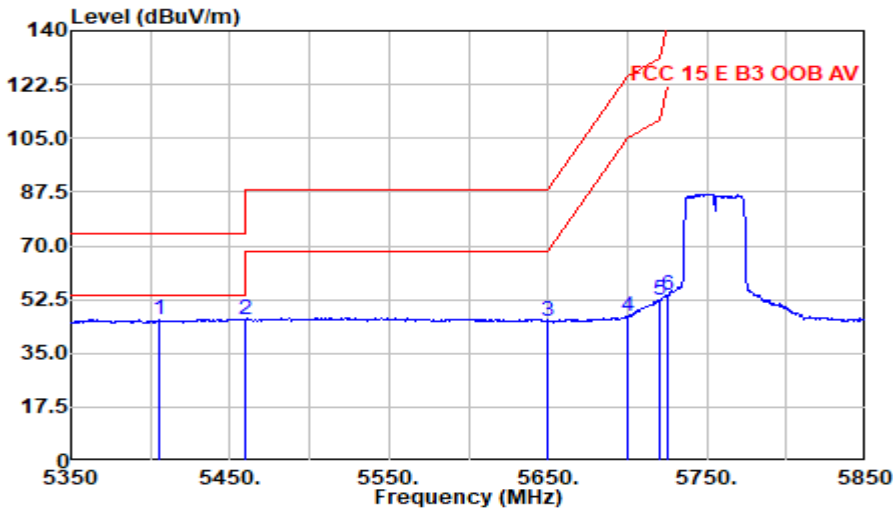
Mode: 802.11n40 CH5755MHz



Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5411.500	49.42	34.05	8.07	35.30	56.24	74.00	17.76	Peak
5460.000	47.60	34.20	8.10	35.30	54.60	74.00	19.40	Peak
5650.000	47.57	33.90	8.22	35.30	54.39	88.20	33.81	Peak
5700.000	47.58	33.80	8.25	35.30	54.33	125.20	70.87	Peak
5720.000	53.88	33.80	8.26	35.30	60.64	130.80	70.16	Peak
5725.000	55.80	33.80	8.26	35.30	62.57	142.20	79.63	Peak

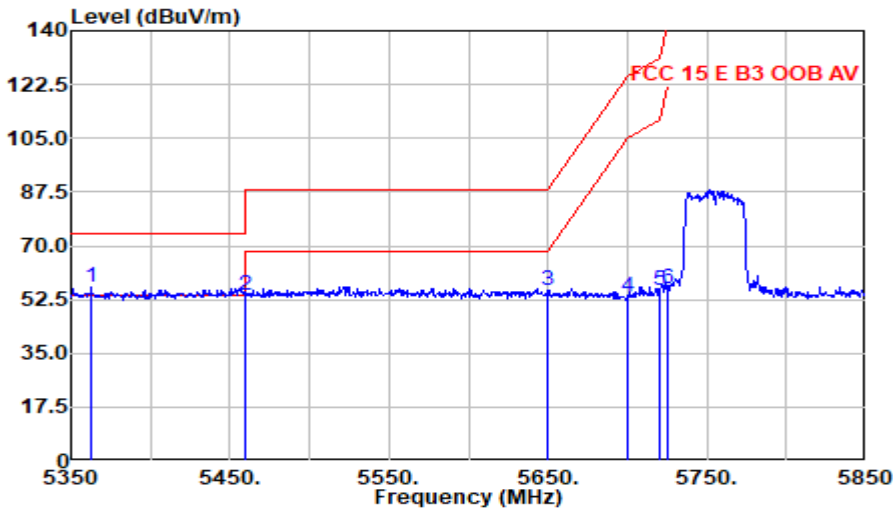
Mode: 802.11n40 CH5755MHz



Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5405.000	39.09	34.02	8.07	35.30	45.89	54.00	8.11	Average
5460.000	38.89	34.20	8.10	35.30	45.90	54.00	8.10	Average
5650.000	38.69	33.90	8.22	35.30	45.51	68.20	22.69	Average
5700.000	40.40	33.80	8.25	35.30	47.15	105.20	58.05	Average
5720.000	45.62	33.80	8.26	35.30	52.38	110.80	58.42	Average
5725.000	47.04	33.80	8.26	35.30	53.81	122.20	68.39	Average

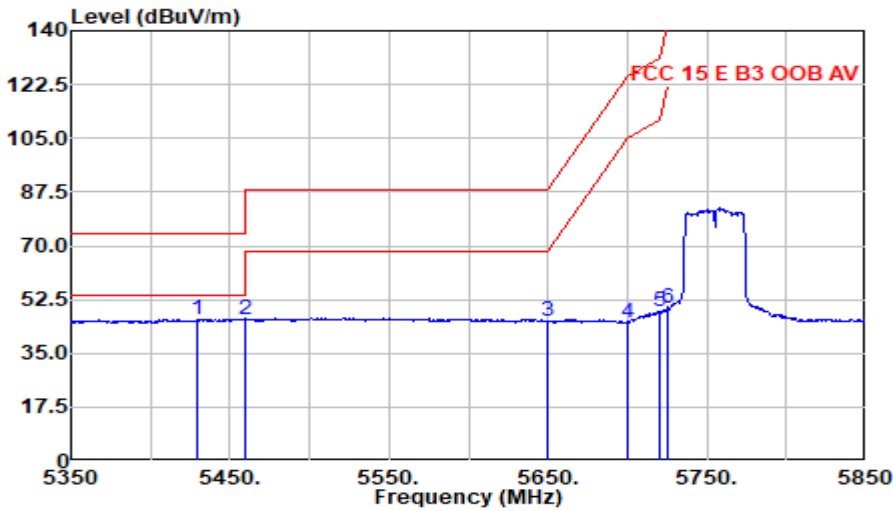
Mode: 802.11n40 CH5755MHz



Polarization at Vertical

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5362.500	49.47	34.07	8.04	35.30	56.29	74.00	17.71	Peak
5460.000	46.85	34.20	8.10	35.30	53.85	74.00	20.15	Peak
5650.000	48.81	33.90	8.22	35.30	55.63	88.20	32.57	Peak
5700.000	46.45	33.80	8.25	35.30	53.20	125.20	72.00	Peak
5720.000	48.83	33.80	8.26	35.30	55.59	130.80	75.21	Peak
5725.000	49.44	33.80	8.26	35.30	56.20	142.20	86.00	Peak

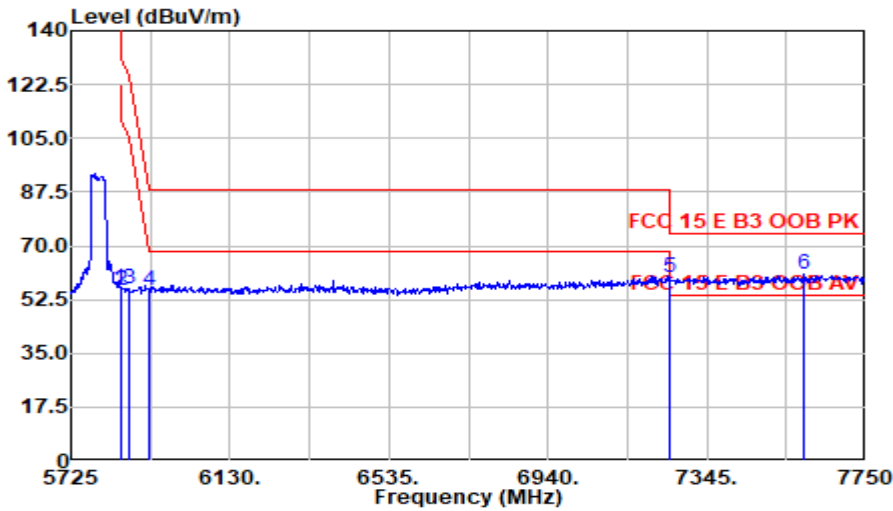
Mode: 802.11n40 CH5755MHz



Polarization at Vertical

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5429.500	39.20	34.12	8.09	35.30	46.11	54.00	7.89	Average
5460.000	38.94	34.20	8.10	35.30	45.95	54.00	8.05	Average
5650.000	38.73	33.90	8.22	35.30	45.55	68.20	22.65	Average
5700.000	38.40	33.80	8.25	35.30	45.15	105.20	60.05	Average
5720.000	42.03	33.80	8.26	35.30	48.79	110.80	62.01	Average
5725.000	42.89	33.80	8.26	35.30	49.66	122.20	72.54	Average

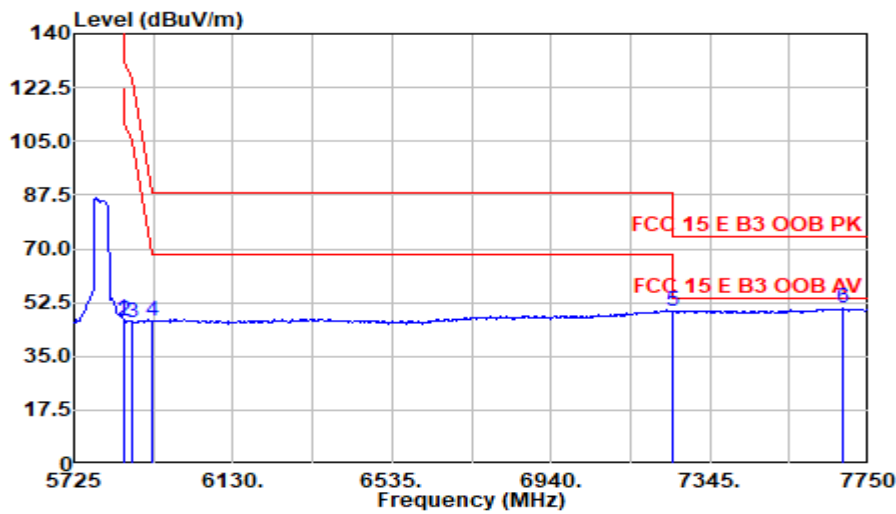
Mode: 802.11n40 CH5795MHz



Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5850.000	49.38	33.80	8.34	35.30	56.22	142.20	85.98	Peak
5855.000	48.66	33.83	8.34	35.30	55.53	130.80	75.27	Peak
5875.000	49.21	33.95	8.35	35.30	56.21	125.20	68.99	Peak
5925.000	48.49	34.10	8.38	35.30	55.66	88.20	32.54	Peak
7250.000	48.92	36.60	9.53	35.53	59.53	74.00	14.47	Peak
7592.050	49.55	36.70	9.89	35.56	60.58	74.00	13.42	Peak

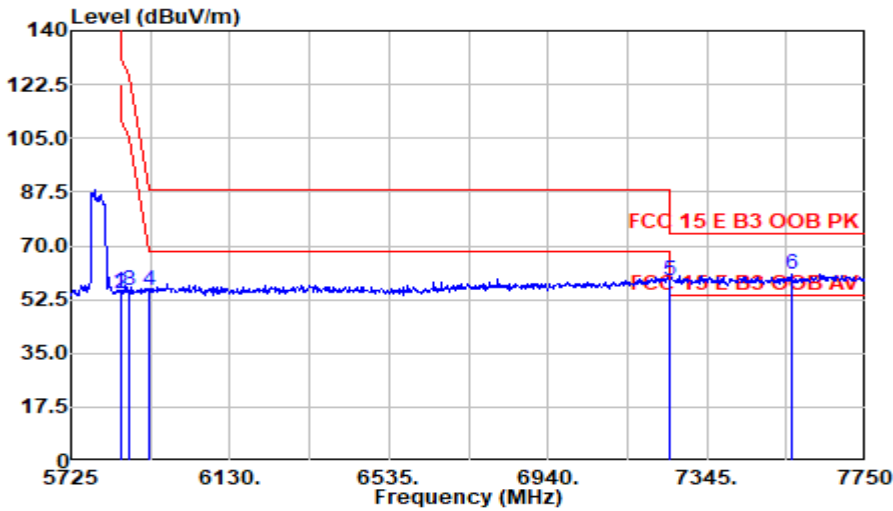
Mode: 802.11n40 CH5795MHz



Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5850.000	40.03	33.80	8.34	35.30	46.86	122.20	75.34	Average
5855.000	39.62	33.83	8.34	35.30	46.49	110.80	64.31	Average
5875.000	38.99	33.95	8.35	35.30	45.99	105.20	59.21	Average
5925.000	39.35	34.10	8.38	35.30	46.52	68.20	21.68	Average
7250.000	39.23	36.60	9.53	35.53	49.83	54.00	4.17	Average
7683.175	39.37	36.80	9.99	35.57	50.59	54.00	3.41	Average

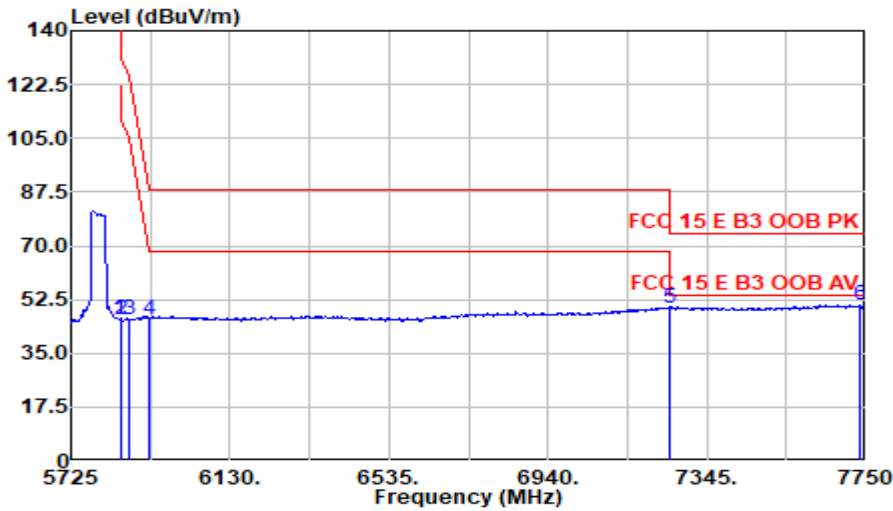
Mode: 802.11n40 CH5795MHz



Polarization at Vertical

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5850.000	48.30	33.80	8.34	35.30	55.14	142.20	87.06	Peak
5855.000	47.45	33.83	8.34	35.30	54.32	130.80	76.48	Peak
5875.000	48.41	33.95	8.35	35.30	55.41	125.20	69.79	Peak
5925.000	48.30	34.10	8.38	35.30	55.48	88.20	32.72	Peak
7250.000	47.80	36.60	9.53	35.53	58.40	74.00	15.60	Peak
7559.650	49.49	36.70	9.86	35.56	60.49	74.00	13.51	Peak

Mode: 802.11n40 CH5795MHz



Polarization at Vertical

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5850.000	38.94	33.80	8.34	35.30	45.78	122.20	76.42	Average
5855.000	38.98	33.83	8.34	35.30	45.85	110.80	64.95	Average
5875.000	39.04	33.95	8.35	35.30	46.04	105.20	59.16	Average
5925.000	39.04	34.10	8.38	35.30	46.22	68.20	21.98	Average
7250.000	39.15	36.60	9.53	35.53	49.75	54.00	4.25	Average
7733.800	39.47	36.87	10.04	35.57	50.80	54.00	3.20	Average

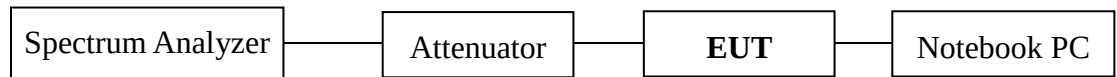
5 6 dB&99% BANDWIDTH MEASUREMENT

5.1 Test Equipment

The following test equipment was used during the Emission Bandwidth measurement:

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Spectrum Analyzer	Agilent	N9010A	MY52221182	2023.08.09	1 Year
2.	RF Cable	Mini-Circuits	FLC-3FT-SM SM+	22022838	2023.08.09	1 Year
3.	20 dB Attenuator	Mini-Circuits	BW-S20W2+	001	2023.09.21	1 Year

5.2 Block Diagram of Test Setup



5.3 Specification Limits (§15.407(e))

Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

5.4 Operating Condition of EUT

The switch ON/OFF was used to enable the EUT to change the channel one by one.

5.5 Test Procedure

For 6 dB Bandwidth:

The following procedure shall be used for measuring this bandwidth:

- Set RBW = 100 kHz.
- Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
- Detector = Peak.
- Trace mode = max hold.
- Sweep = auto couple.
- Allow the trace to stabilize.
- Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

The test procedure is defined in KDB789033 D02 (the clause II.C.2 Measurement Procedure “ Minimum Emission Bandwidth for the band 5.725–5.85 GHz” was used).

For 99% Bandwidth:

The following procedure shall be used for measuring (99%) power bandwidth:

- Set center frequency to the nominal EUT channel center frequency.
- Set span = 1.5 times to 5.0 times the OBW.
- Set RBW = 1% to 5% of the OBW.

4. Set $VBW \geq 3 \times RBW$.
5. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
6. Use the 99% power bandwidth function of the instrument (if available).
7. If the instrument does not have a 99% power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.

The test procedure is defined in KDB789033 D02 (the clause II.D Measurement Procedure “99% Occupied Bandwidth” was used).

5.6 Test Results

PASSED.

All the test results are attached in next pages.

(Test Date: 2023.11.14-12.06 Temperature: 23°C Humidity: 51 %)

Modulation	Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Limit
802.11a	149	5745	16.4	500 kHz
	157	5785	16.44	500 kHz
	165	5825	16.44	500 kHz
802.11n20	149	5745	17.65	500 kHz
	157	5785	17.64	500 kHz
	165	5825	17.64	500 kHz
802.11n40	151	5755	36.35	500 kHz
	159	5795	36.36	500 kHz

Modulation	Channel	Frequency (MHz)	99% Bandwidth (MHz)	Limit
802.11a	36	5180	17.414	N/A
	40	5200	17.414	N/A
	48	5240	17.469	N/A
	52	5260	17.419	N/A
	60	5300	17.411	N/A
	64	5320	17.433	N/A
	100	5500	17.466	N/A
	120	5600	17.403	N/A
	140	5700	17.495	N/A
	149	5745	17.419	N/A
	157	5785	17.453	N/A
	165	5825	17.466	N/A

Modulation	Channel	Frequency (MHz)	99% Bandwidth (MHz)	Limit
802.11n20	36	5180	18.45	N/A
	40	5200	18.425	N/A
	48	5240	18.321	N/A
	52	5260	18.403	N/A
	60	5300	18.357	N/A
	64	5320	18.322	N/A
	100	5500	18.415	N/A
	120	5600	18.421	N/A
	140	5700	18.422	N/A
	149	5745	18.488	N/A
	157	5785	18.46	N/A
	165	5825	18.497	N/A

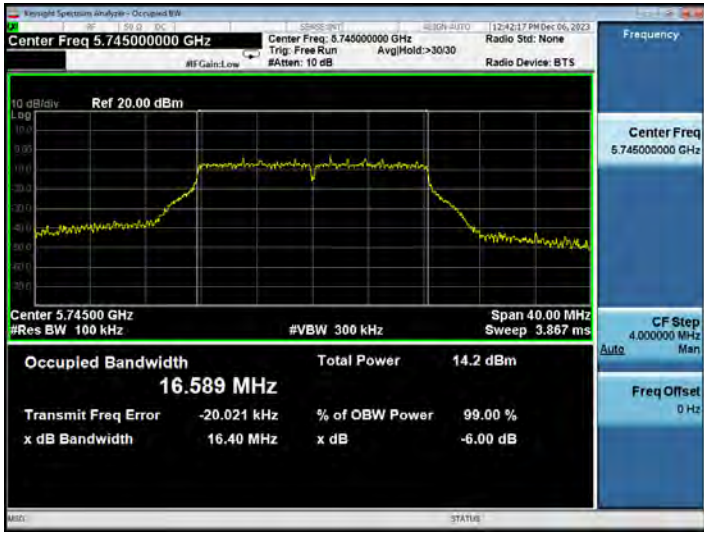
Modulation	Channel	Frequency (MHz)	99% Bandwidth (MHz)	Limit
802.11n40	38	5190	36.519	N/A
	46	5230	36.579	N/A
	54	5270	36.5	N/A
	62	5310	36.487	N/A
	102	5510	36.531	N/A
	118	5590	36.54	N/A
	134	5670	36.497	N/A
	151	5755	36.79	N/A
	159	5795	36.625	N/A

6 dB Bandwidth:

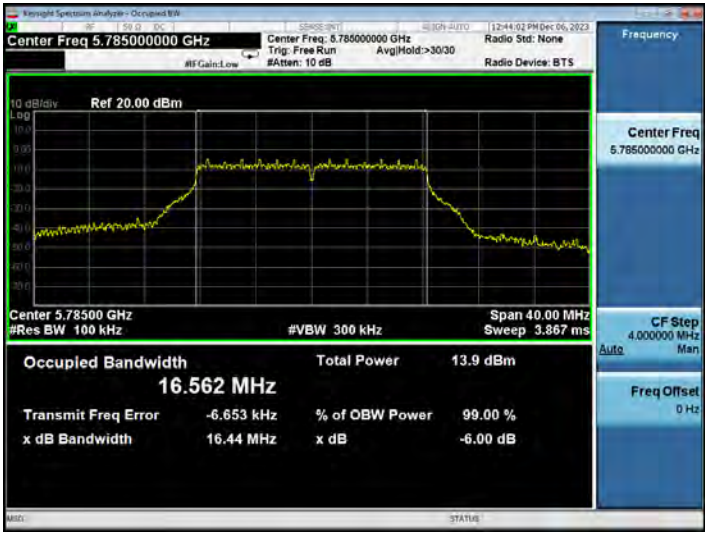
802.11a

Band-UNII-3

CH5745



CH5785



CH5825



802.11n20

Band-UNII-3

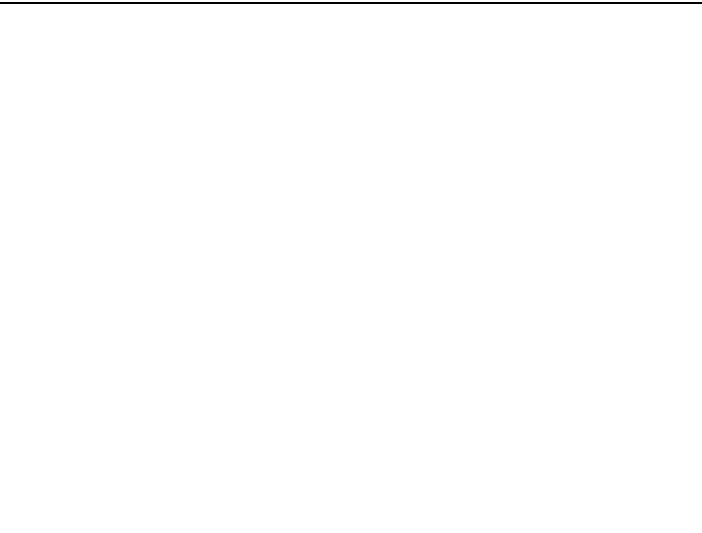
CH5745



CH5785



CH5825



802.11n40

Band-UNII-3

CH5755



CH5795



99% Bandwidth:

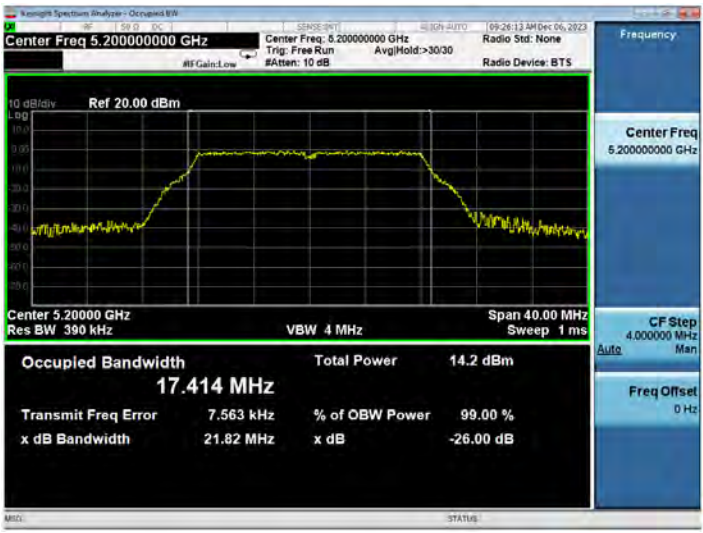
802.11a

Band-UNII-1

CH5180



CH5200



CH5240



802.11a

Band-UNII-2A

CH5260



CH5300



CH5320



802.11a

Band-UNII-2C

CH5500



CH5600



CH5700



802.11a

Band-UNII-3

CH5745



CH5785



CH5825



802.11n20

Band-UNII-1

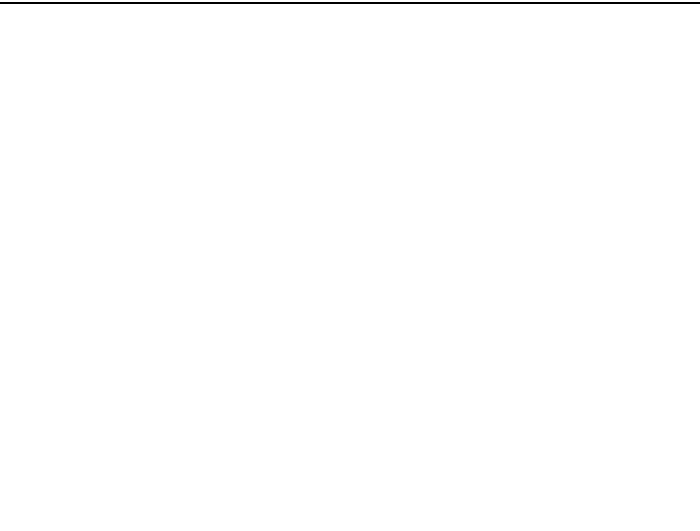
CH5180



CH5200



CH5240



802.11n20

Band-UNII-2A

CH5260



CH5300



CH5320



802.11n20

Band-UNII-2C

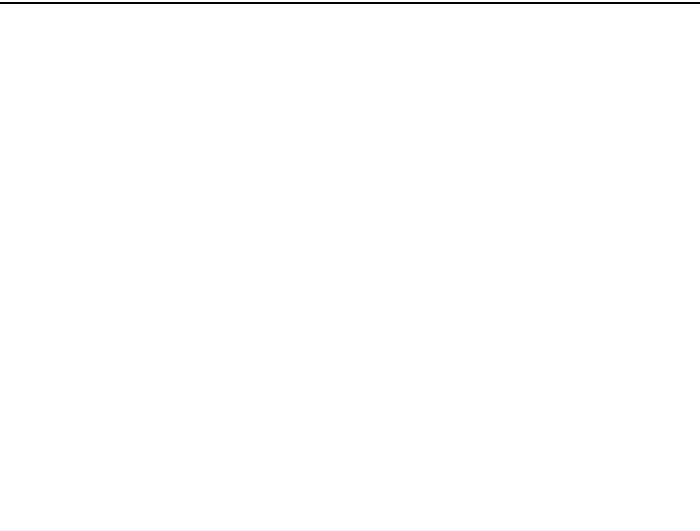
CH5500



CH5600



CH5700



802.11n20

Band-UNII-3

CH5745



CH5785



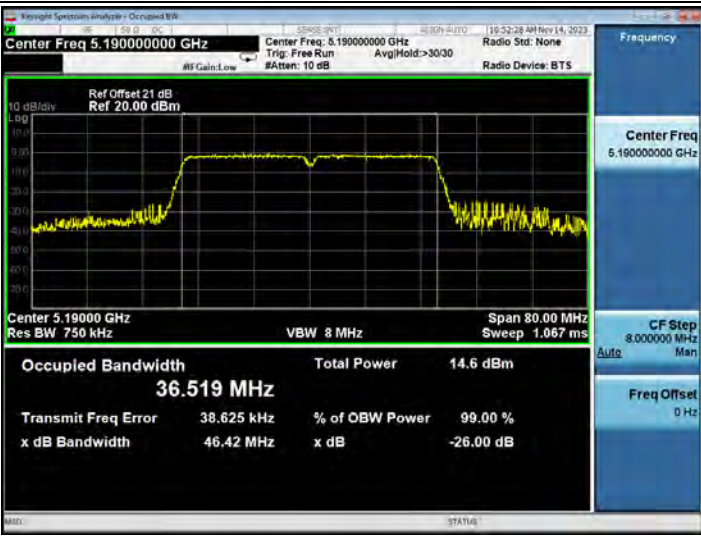
CH5825



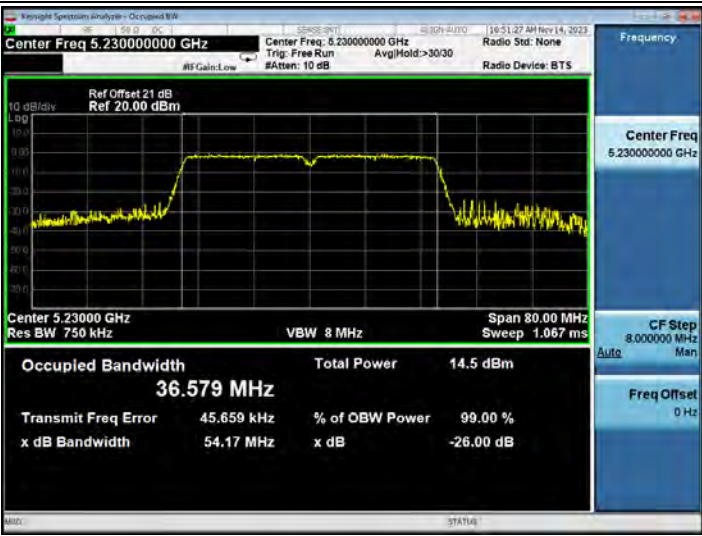
802.11n40

Band-UNII-1

CH5190



CH5230



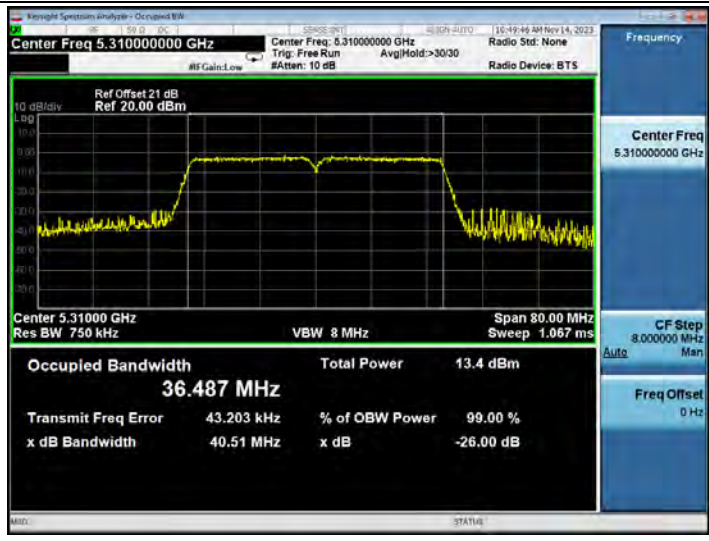
802.11n40

Band-UNII-2A

CH5270



CH5310



802.11n40

Band-UNII-2C

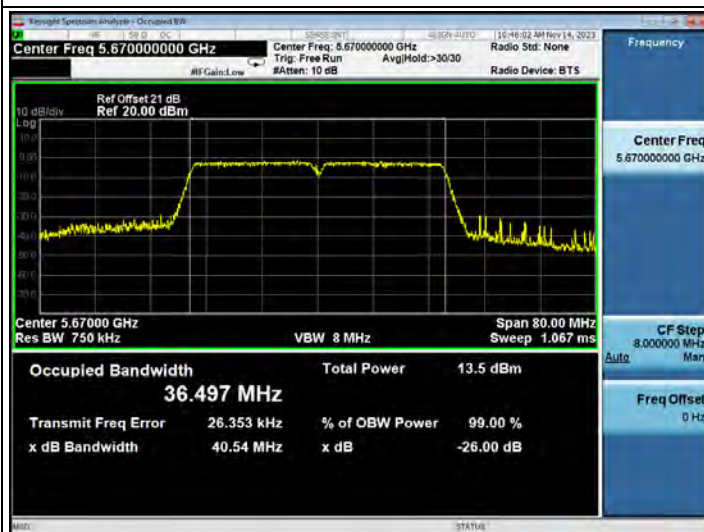
CH5510



CH5590



CH5670



802.11n40

Band-UNII-3

CH5755



CH5795



6 26 dB BANDWIDTH MEASUREMENT

6.1 Test Equipment

The following test equipment was used during the Emission Bandwidth measurement:

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Spectrum Analyzer	Agilent	N9010A	MY52221182	2023.08.09	1 Year
2.	RF Cable	Mini-Circuits	FLC-3FT-SM SM+	22022838	2023.08.09	1 Year
3.	20 dB Attenuator	Mini-Circuits	BW-S20W2+	001	2023.09.21	1 Year

6.2 Block Diagram of Test Setup

The Same as Section. 6.2

6.3 Operating Condition of EUT

The switch ON/OFF was used to enable the EUT to change the channel one by one.

6.4 Test Procedure

The following procedure shall be used for measuring this bandwidth:

- Set RBW = approximately 1% of the emission bandwidth.
- Set the VBW > RBW.
- Detector = Peak.
- Trace mode = max hold.
- Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

The test procedure is defined in KDB789033 D02 (the clause II.C.1 Measurement Procedure “Emission Bandwidth (EBW)” was used).

6.5 Test Results

PASSED.

All the test results are attached in next pages.

(Test Date: 2023.11.14-12.06 Temperature: 23°C Humidity: 51 %)

Modulation	Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	Limit
802.11a	36	5180	21.31	N/A
	40	5200	21.49	N/A
	48	5240	21.39	N/A
	52	5260	21.35	N/A
	60	5300	21.27	N/A
	64	5320	21.52	N/A
	100	5500	21.27	N/A
	120	5600	21.4	N/A
	140	5700	21.62	N/A
	149	5745	21.43	N/A
	157	5785	21.47	N/A
	165	5825	21.53	N/A

Modulation	Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	Limit
802.11n20	36	5180	21.65	N/A
	40	5200	21.65	N/A
	48	5240	21.67	N/A
	52	5260	21.64	N/A
	60	5300	21.74	N/A
	64	5320	21.69	N/A
	100	5500	21.79	N/A
	120	5600	21.72	N/A
	140	5700	21.73	N/A
	149	5745	21.74	N/A
	157	5785	21.79	N/A
	165	5825	21.95	N/A

Modulation	Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	Limit
802.11n40	38	5190	40.06	N/A
	46	5230	40.23	N/A
	54	5270	45.49	N/A
	62	5310	40.06	N/A
	102	5510	39.65	N/A
	118	5590	40.09	N/A
	134	5670	40.03	N/A
	151	5755	40.34	N/A
	159	5795	42.17	N/A

802.11a

Band-UNII-1

CH5180



CH5200



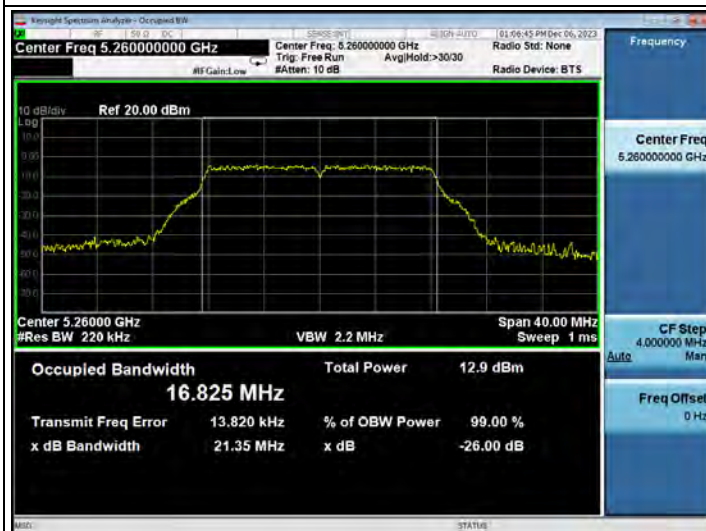
CH5240



802.11a

Band-UNII-2A

CH5260



CH5300



CH5320



802.11a

Band-UNII-2C

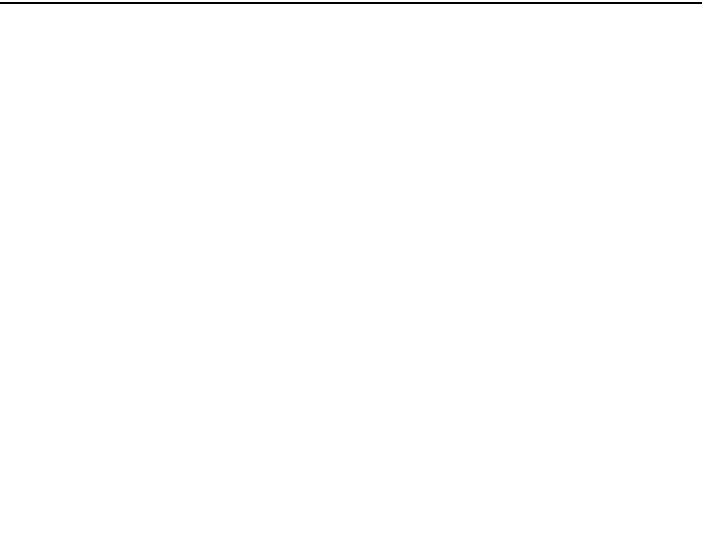
CH5500



CH5600



CH5700



802.11a

Band-UNII-3

CH5745



CH5785



CH5825



802.11n20

Band-UNII-1

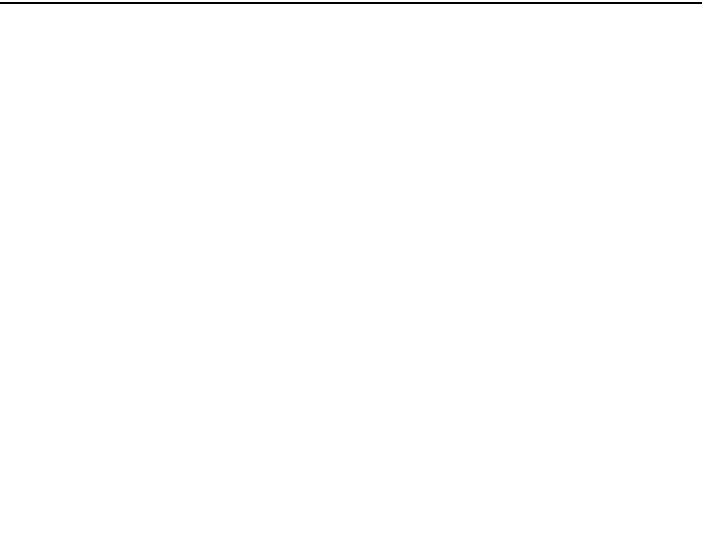
CH5180



CH5200



CH5240



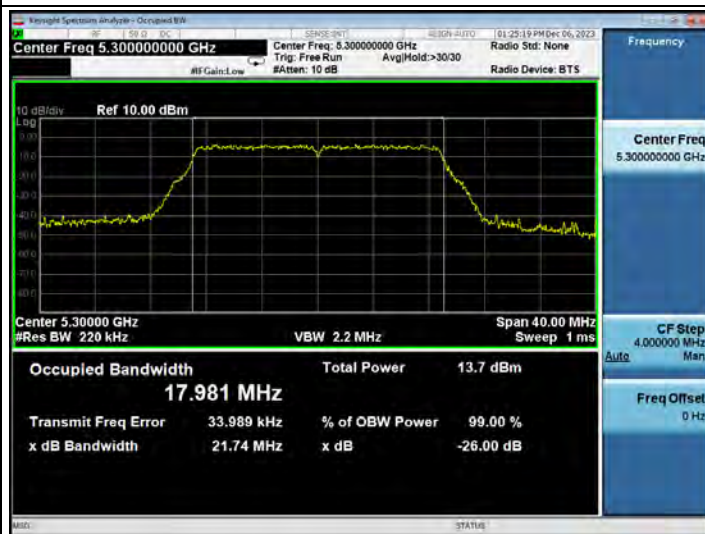
802.11n20

Band-UNII-2A

CH5260



CH5300



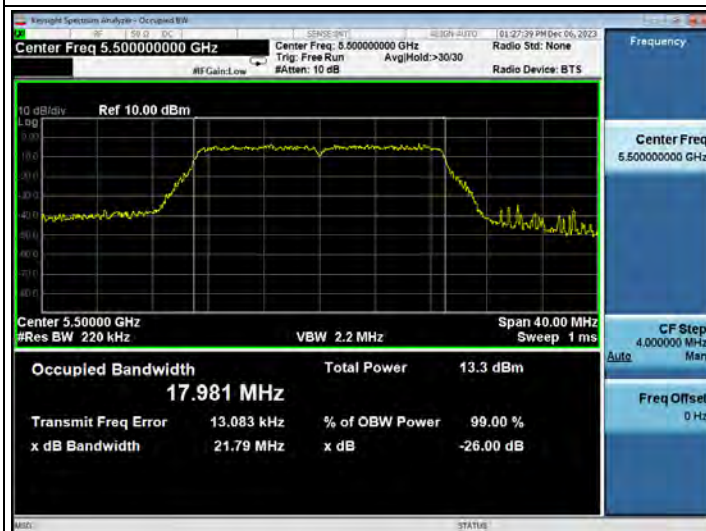
CH5320



802.11n20

Band-UNII-2C

CH5500



CH5600



CH5700



802.11n20

Band-UNII-3

CH5745



CH5785



CH5825



802.11n40

Band-UNII-1

CH5190



CH5230



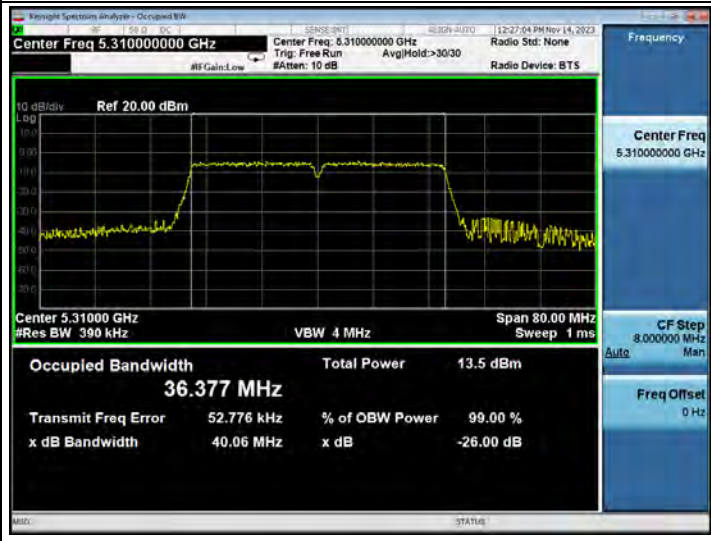
802.11n40

Band-UNII-2A

CH5270



CH5310



802.11n40

Band-UNII-2C

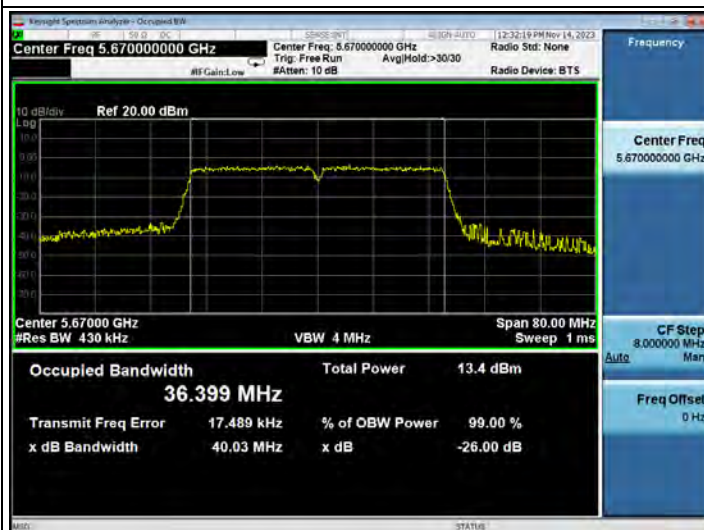
CH5510



CH5590



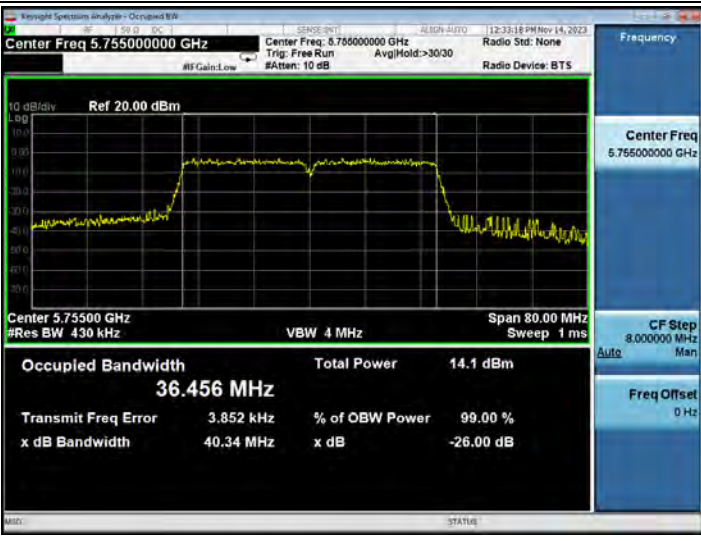
CH5670



802.11n40

Band-UNII-3

CH5755



CH5795



7 MAXIMUM CONDUCTED OUTPUT POWER

MEASUREMENT

7.1 Test Equipment

The following test equipment was used during the maximum peak output power measurement:

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Spectrum Analyzer	Agilent	N9010A	MY52221182	2023.08.09	1 Year
2.	RF Cable	Mini-Circuits	FLC-3FT-SM SM+	22022838	2023.08.09	1 Year
3.	20 dB Attenuator	Mini-Circuits	BW-S20W2+	001	2023.09.21	1 Year

7.2 Block Diagram of Test Setup

The Same as Section. 6.2.

7.3 Specification Limits ((§15.407(a))

(1) For the band 5.15-5.25 GHz.

(iv) For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi.

(2) For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz.

(3) For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

7.4 Operating Condition of EUT

The switch ON/OFF was used to enable the EUT to change the channel one by one.

7.5 Test Procedure

The transmitter output was connected to the spectrum analyzer.

(i) Measure the duty cycle, x, of the transmitter output signal.

(ii) Set span to encompass the 99% occupied bandwidth of the signal.

(iii) Set RBW = 1 MHz.

(iv) Set VBW $\geq$ 3 MHz.

(v) Number of points in sweep $\geq 2 \times \text{span} / \text{RBW}$. (This ensures that bin-to-bin spacing is $\leq \text{RBW}/2$, so that narrowband signals are not lost between frequency bins.)

(vi) Sweep time = auto.

(vii) Detector = power averaging (rms).

(viii) Allow the sweep to “free run.”

(ix) Trace average at least 100 traces in power averaging (rms) mode; however,

the number of traces to be averaged shall be increased above 100 as needed to ensure that the average accurately represents the true average over the on and off periods of the transmitter.

(x) Compute power by integrating the spectrum across the 99% occupied bandwidth of the signal using the instrument's band power measurement function with band limits set equal to the occupied bandwidth band edges.

(xi) Add $10 \log (1/x)$, where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times (because the measurement represents an average over both the on and off times of the transmission). For example, add $10 \log (1/0.25) = 6 \text{ dB}$ if the duty cycle is 25%.

The test procedure is defined in KDB789033 D02 (the clause II.E.2.d) Measurement Procedure "Method SA-2" was used).

7.6 Test Results

PASSED.

Note1: Maximum conducted (average) Output Power = Average conducted (average) Output Power + DCCF.

Note2: The DCCF(Duty Cycle Correct Factor) shows on section 2.4.

All the test results are listed below.

(Test Date: 2023.11.13-12.06 Temperature: 23°C Humidity: 51 %)

Modulation	Channel	Frequency (MHz)	Average Conducted Output Power (dBm)	Maximum Conducted Output Power (dBm)	Limit (dBm)
802.11a	36	5180	7.87	7.94	24
	40	5200	7.84	7.91	24
	48	5240	7.69	7.76	24
	52	5260	6.3	6.37	24
	60	5300	7.07	7.14	24
	64	5320	7.15	7.22	24
	100	5500	6.6	6.67	24
	120	5600	6.87	6.94	24
	140	5700	6.83	6.9	24
	149	5745	7.75	7.82	30
	157	5785	7.38	7.45	30
	165	5825	6.66	6.73	30

Modulation	Channel	Frequency (MHz)	Average Conducted Output Power (dBm)	Maximum Conducted Output Power (dBm)	Limit (dBm)
802.11n20	36	5180	7.65	7.82	24
	40	5200	7.7	7.87	24
	48	5240	7.37	7.54	24
	52	5260	5.94	6.11	24
	60	5300	6.8	6.97	24
	64	5320	6.89	7.06	24
	100	5500	6.51	6.68	24
	120	5600	6.6	6.77	24
	140	5700	6.37	6.54	24
	149	5745	7.5	7.67	30
	157	5785	7.09	7.26	30
	165	5825	6.4	6.57	30

Modulation	Channel	Frequency (MHz)	Average Conducted Output Power (dBm)	Maximum Conducted Output Power (dBm)	Limit (dBm)
802.11n40	38	5190	7.13	7.46	24
	46	5230	7.18	7.51	24
	54	5270	5.17	5.5	24
	62	5310	5.85	6.18	24
	102	5510	6.08	6.41	24
	118	5590	6.11	6.44	24
	134	5670	6.38	6.71	24
	151	5755	7.33	7.66	30
	159	5795	6.93	7.26	30

802.11a

Band-UNII-1

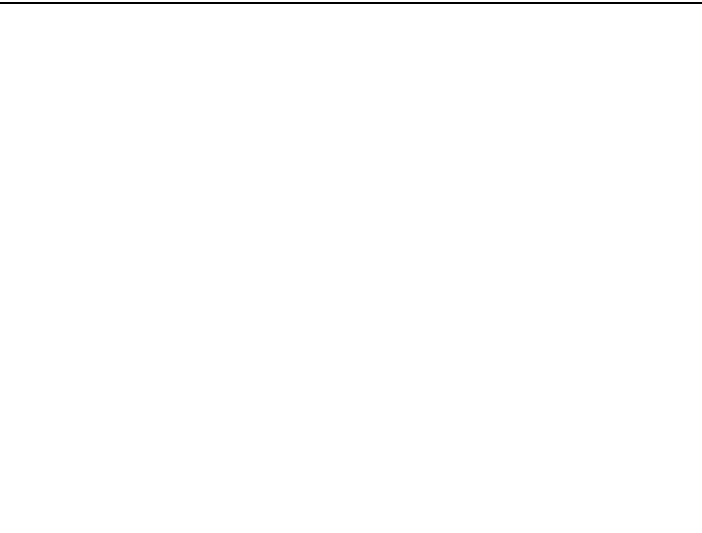
CH5180



CH5200



CH5240



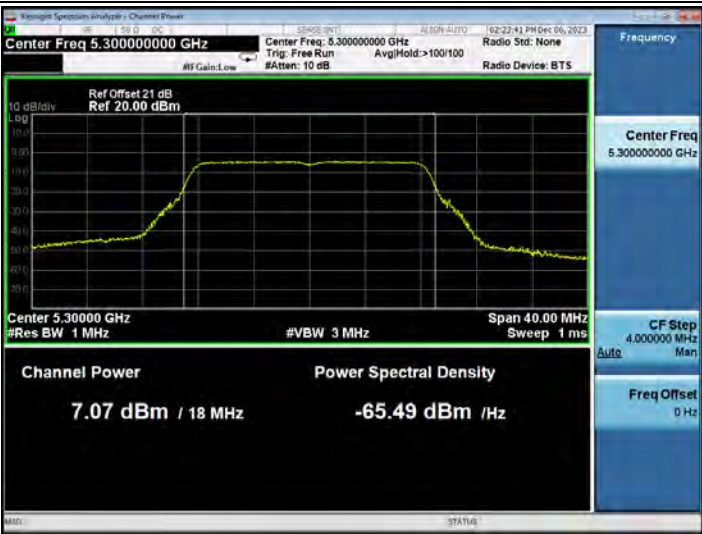
802.11a

Band-UNII-2A

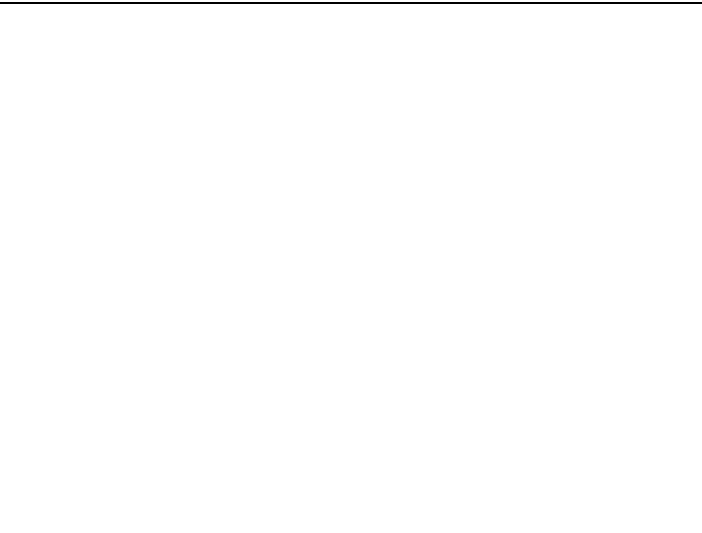
CH5260



CH5300



CH5320



802.11a

Band-UNII-2C

CH5500



CH5600



CH5700



802.11a

Band-UNII-3

CH5745



CH5785



CH5825



802.11n20

Band-UNII-1

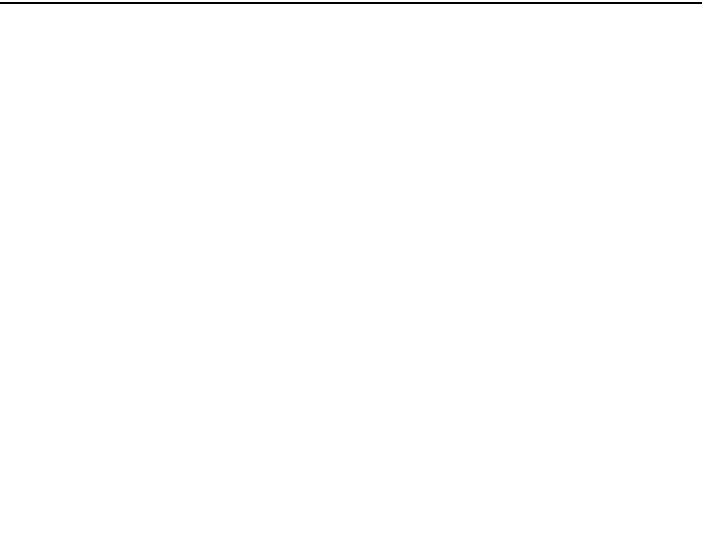
CH5180



CH5200



CH5240



802.11n20

Band-UNII-2A

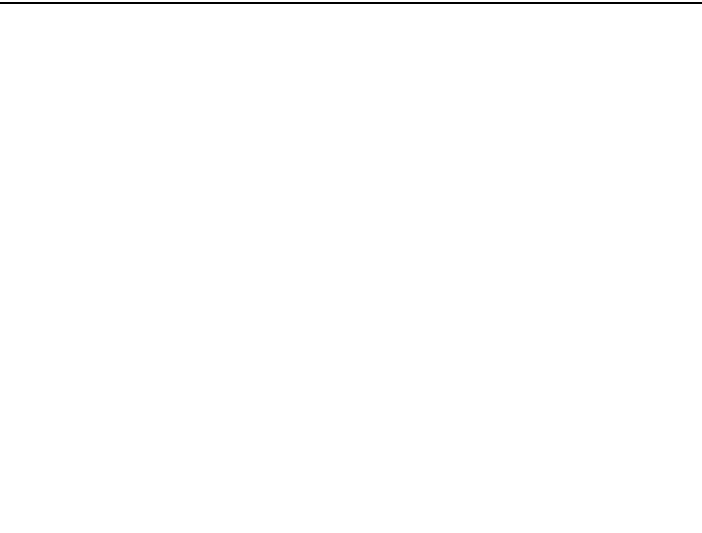
CH5260



CH5300



CH5320



802.11n20

Band-UNII-2C

CH5500



CH5600



CH5700



802.11n20

Band-UNII-3

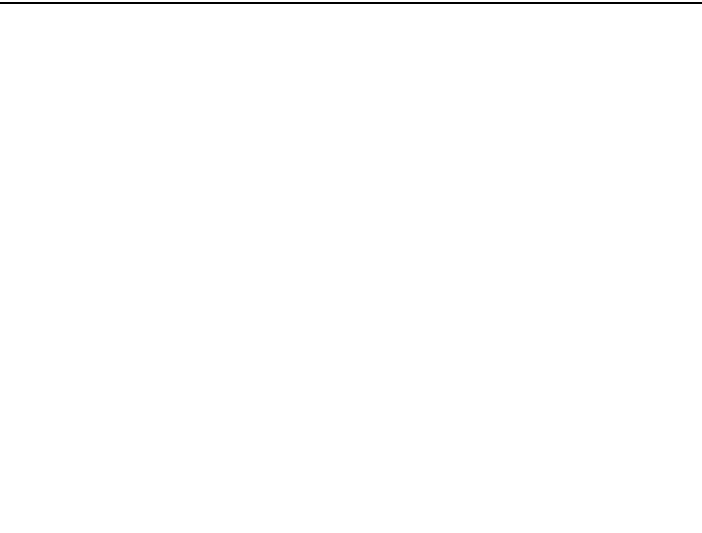
CH5745



CH5785



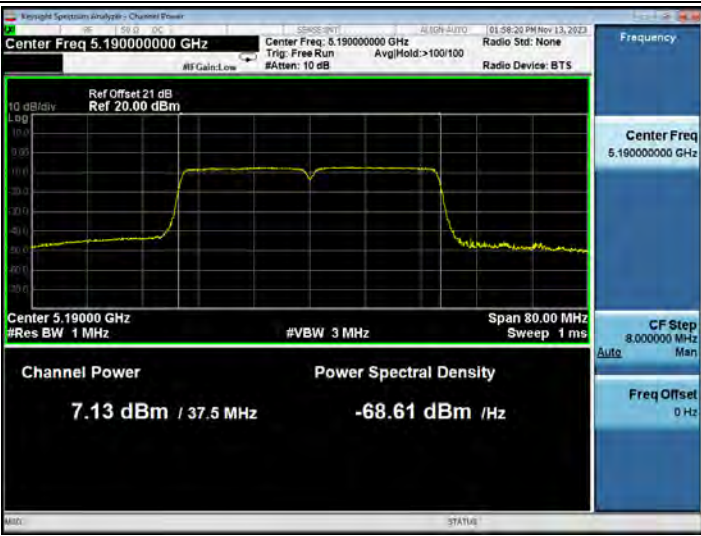
CH5825



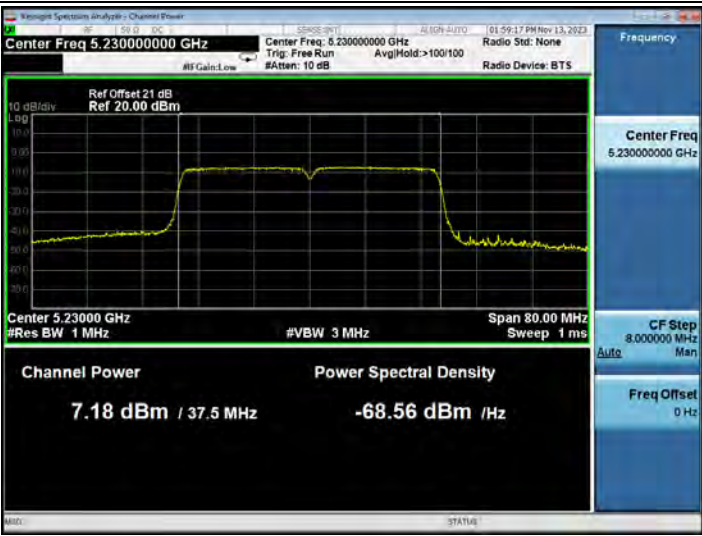
802.11n40

Band-UNII-1

CH5190



CH5230



802.11n40

Band-UNII-2A

CH5270



CH5310



802.11n40

Band-UNII-2C

CH5510



CH5590



CH5670



802.11n40

Band-UNII-3

CH5755



CH5795



8 MAXIMUM POWER SPECTRAL DENSITY

MEASUREMENT

8.1 Test Equipment

The following test equipment was used during the power spectral density measurement:

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Spectrum Analyzer	Agilent	N9010A	MY52221182	2023.08.09	1 Year
2.	RF Cable	Mini-Circuits	FLC-3FT-SM SM+	22022838	2023.08.09	1 Year
3.	20 dB Attenuator	Mini-Circuits	BW-S20W2+	001	2023.09.21	1 Year

8.2 Block Diagram of Test Setup

The Same as section 6.2.

8.3 Specification Limits (§15.407(a))

(1) For the band 5.15-5.25 GHz.

(iv) For client devices in the 5.15-5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band.

(2) For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band.

(3) For the band 5.725-5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band.

8.4 Operating Condition of EUT

The switch ON/OFF was used to enable the EUT to change the channel one by one.

8.5 Test Procedure

The transmitter output was connected to the spectrum analyzer.

(i) Measure the duty cycle, x , of the transmitter output signal.

(ii) For the 5.15-5.25 GHz, 5.25-5.35 GHz and 5.47-5.725 GHz bands. set RBW = 1 MHz . For the band 5.725-5.85 GHz set RBW = 300 kHz.

(iii) Set $VBW \geq 3 \times RBW$.

(iv) Number of points in sweep $\geq 2 \times \text{span} / RBW$. (This ensures that bin-to-bin spacing is $\leq RBW/2$, so that narrowband signals are not lost between frequency bins.)

(v) Sweep time = auto.

(vi) Detector = power averaging (rms).

(vii) Allow the sweep to “free run.”

(viii) Trace average at least 100 traces in power averaging (rms) mode; however, the number of traces to be averaged shall be increased above 100 as needed to ensure that the average accurately represents the true average over

the on and off periods of the transmitter.

(ix) Use the peak search function on the instrument to find the peak of the spectrum.

(x) As the Method SA-2 was used, add $10 \log (1/x)$, where x is the duty cycle, to the peak of the spectrum. The result is the Peak Power Spectral Density.

(xi) For the band 5.725-5.85 GHz, additional add $10 \log (500 \text{ kHz}/300 \text{ kHz}) = 2.22 \text{ dB}$ to the measured result, whereas RBW is set to 300 kHz (<500 kHz) during measurement.

The test procedure is defined in KDB789033 D02 (the clause II.F Measurement Procedure “ Maximum Power Spectral Density (PSD)” was used).

8.6 Test Results

PASSED.

Note1: Power Spectral Density = Average Power Spectral Density + DCCF

Note2: The DCCF(Duty Cycle Correct Factor) shows on section 2.4.

All the test results are attached in next pages.

(Test Date: 2023.11.13-12.06 Temperature: 23°C Humidity: 51 %)

Modulation	Channel	Frequency (MHz)	Average Power Spectral Density (dBm/MHz)	Maximum Power Spectral Density (dBm/MHz)	Limit (dBm/MHz)
802.11a	36	5180	-3.465	-3.395	11
	40	5200	-3.174	-3.104	11
	48	5240	-3.339	-3.269	11
	52	5260	-4.935	-4.865	11
	60	5300	-4.061	-3.991	11
	64	5320	-3.99	-3.92	11
	100	5500	-4.405	-4.335	11
	120	5600	-4.135	-4.065	11
	140	5700	-4.074	-4.004	11

Modulation	Channel	Frequency (MHz)	Average Power Spectral Density (dBm/MHz)	Maximum Power Spectral Density (dBm/MHz)	Limit (dBm/MHz)
802.11n20	36	5180	-3.877	-3.707	11
	40	5200	-3.924	-3.754	11
	48	5240	-3.696	-3.526	11
	52	5260	-5.333	-5.163	11
	60	5300	-4.602	-4.432	11
	64	5320	-4.262	-4.092	11
	100	5500	-4.686	-4.516	11
	120	5600	-4.628	-4.458	11
	140	5700	-4.844	-4.674	11

Modulation	Channel	Frequency (MHz)	Average Power Spectral Density (dBm/MHz)	Maximum Power Spectral Density (dBm/MHz)	Limit (dBm/MHz)
802.11n40	38	5190	-6.978	-6.648	11
	46	5230	-6.8	-6.47	11
	54	5270	-8.636	-8.306	11
	62	5310	-7.888	-7.558	11
	102	5510	-8.083	-7.753	11
	118	5590	-8.077	-7.747	11
	134	5670	-7.554	-7.224	11

Modulation	Channel	Frequency (MHz)	Average Power Spectral Density (dBm/300kHz)	Maximum Power Spectral Density (dBm/500kHz)	Limit (dBm/ 500kHz)
802.11a	149	5745	-8.454	-6.164	30
	157	5785	-8.801	-6.511	30
	165	5825	-9.446	-7.156	30
802.11n20	149	5745	-8.996	-6.606	30
	157	5785	-9.138	-6.748	30
	165	5825	-9.891	-7.501	30
802.11n40	151	5755	-12.245	-9.695	30
	159	5795	-12.492	-9.942	30

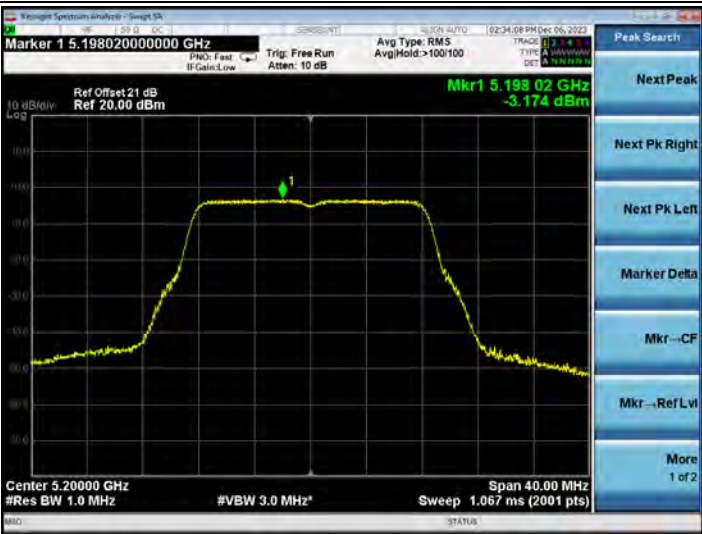
802.11a

Band-UNII-1

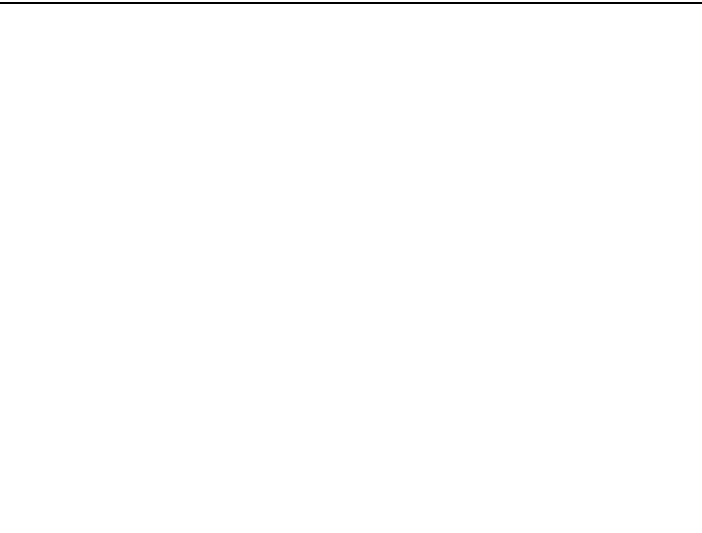
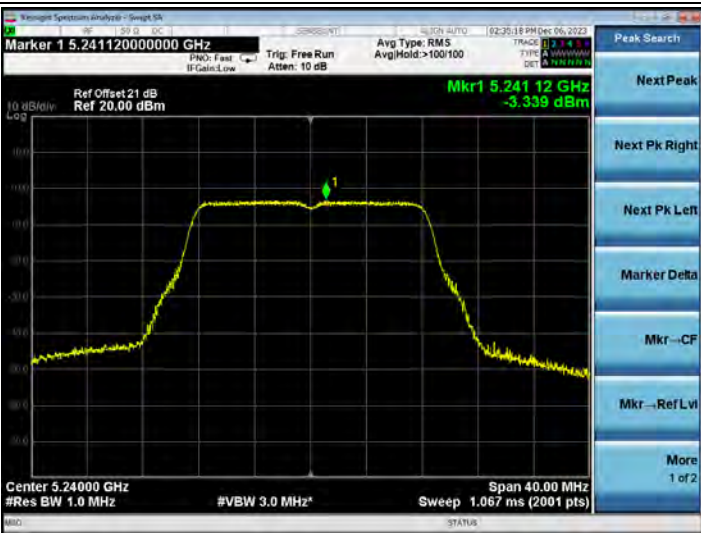
CH5180



CH5200



CH5240



802.11a

Band-UNII-2A

CH5260



CH5300



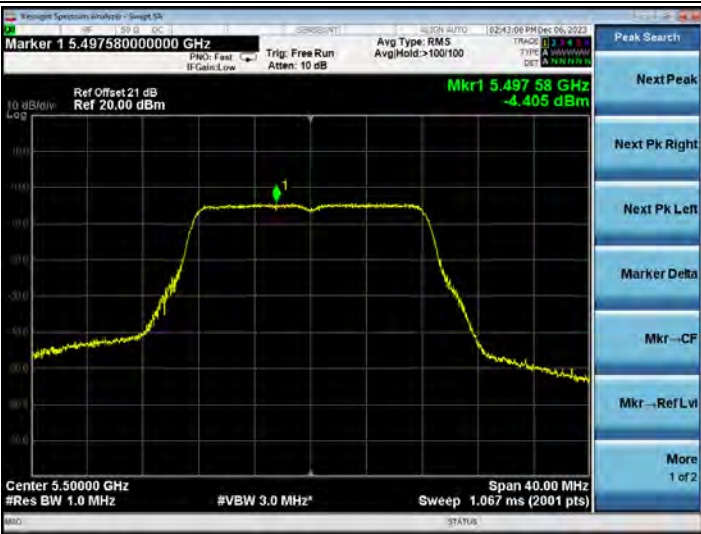
CH5320



802.11a

Band-UNII-2C

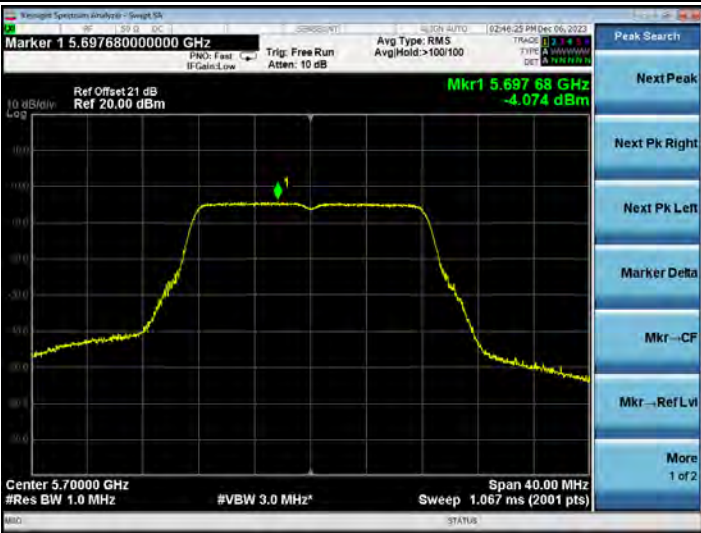
CH5500



CH5600



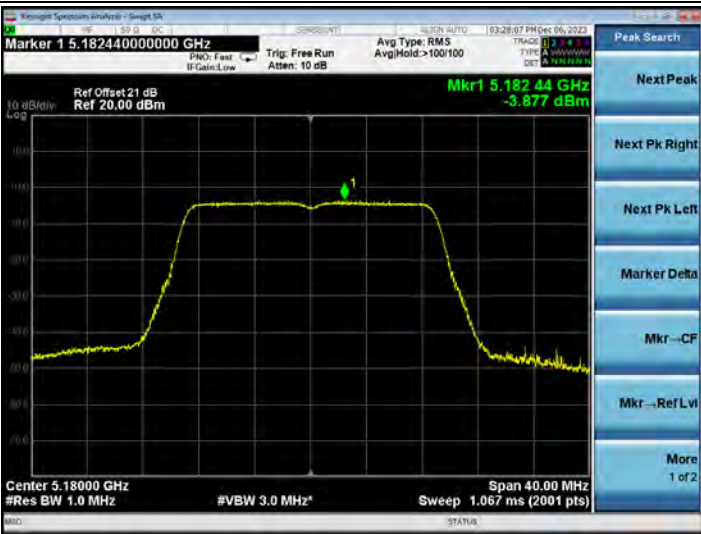
CH5700



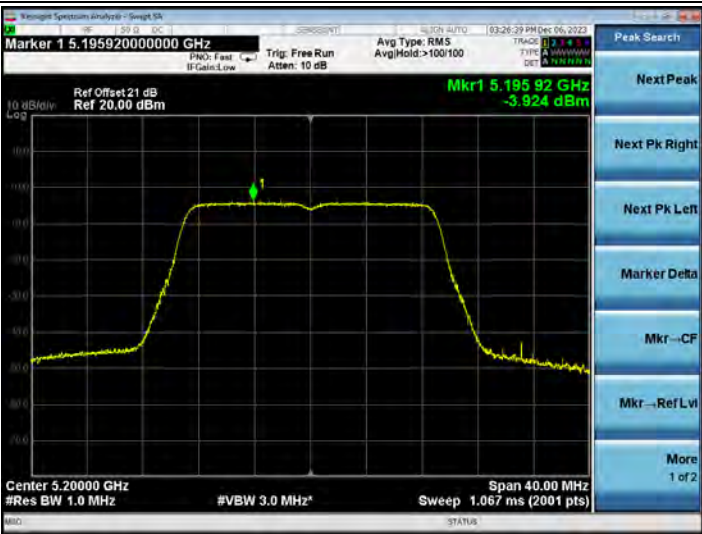
802.11n20

Band-UNII-1

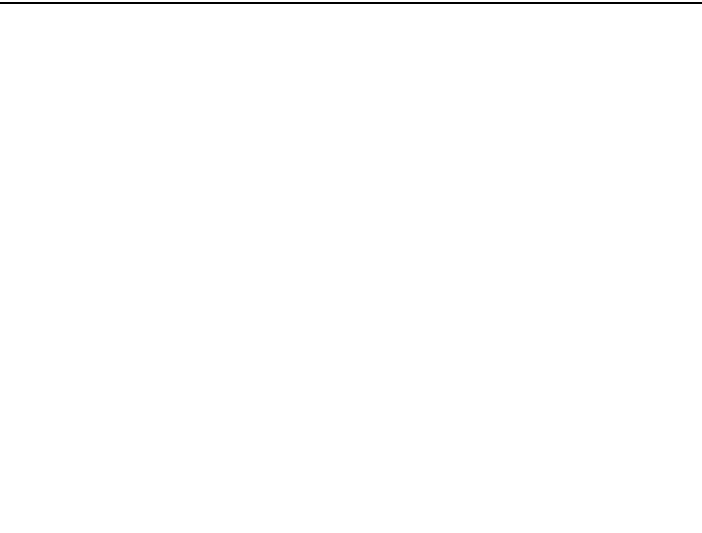
CH5180



CH5200



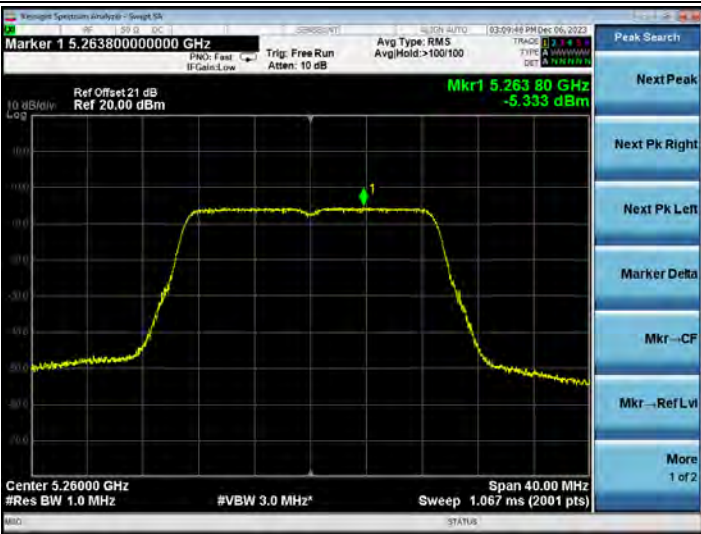
CH5240



802.11n20

Band-UNII-2A

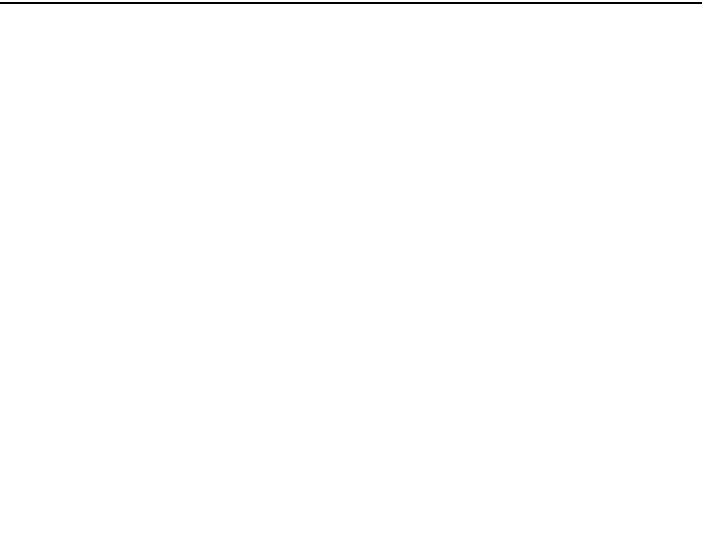
CH5260



CH5300



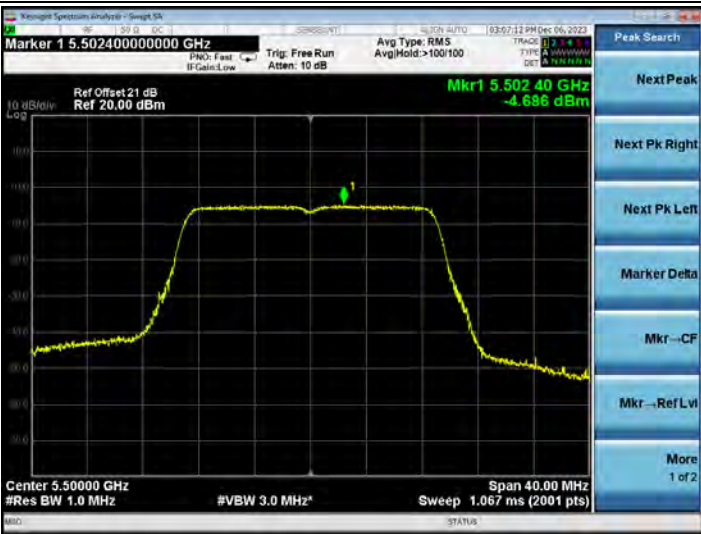
CH5320



802.11n20

Band-UNII-2C

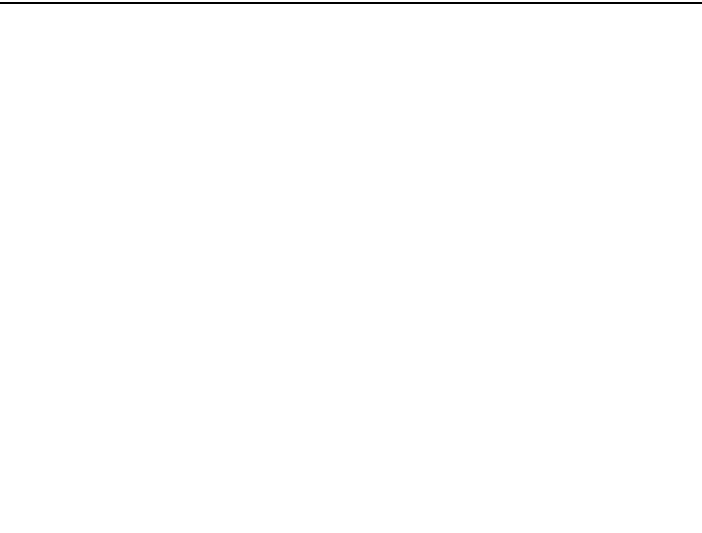
CH5500



CH5600



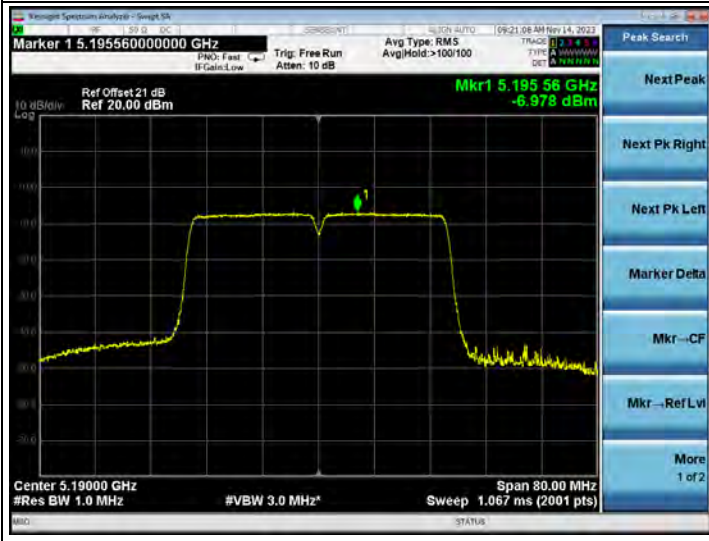
CH5700



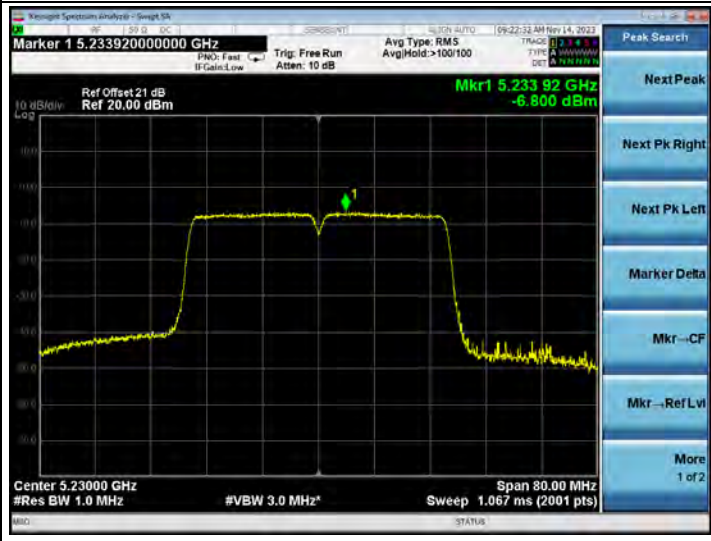
802.11n40

Band-UNII-1

CH5190



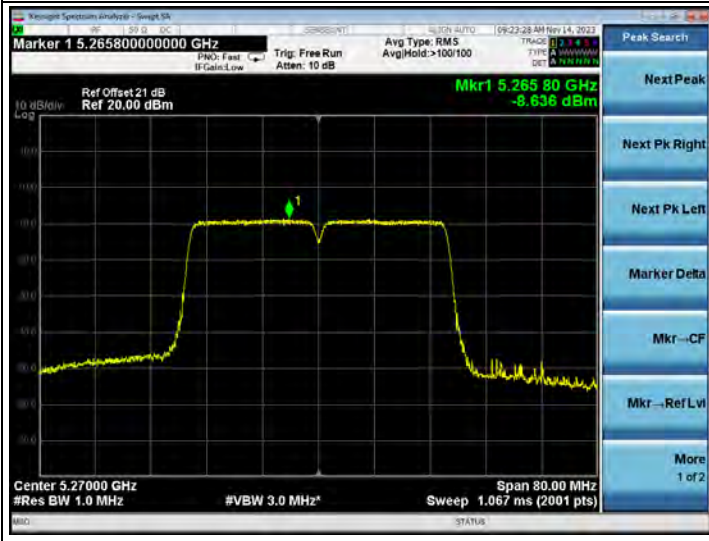
CH5230



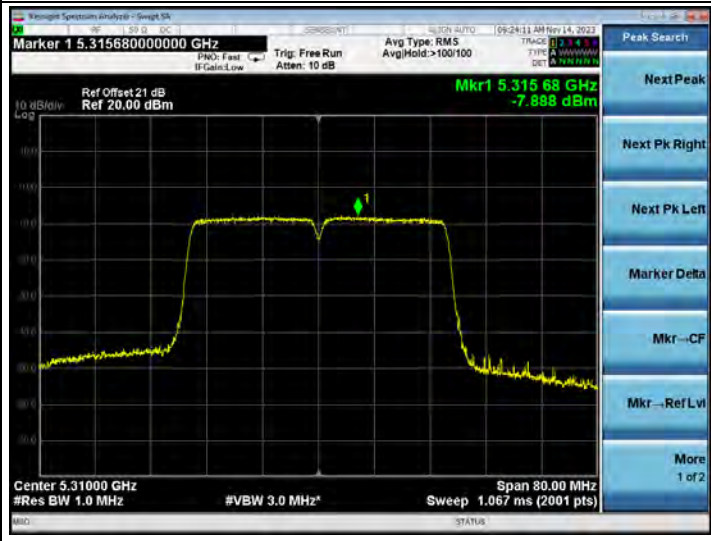
802.11n40

Band-UNII-2A

CH5270



CH5310



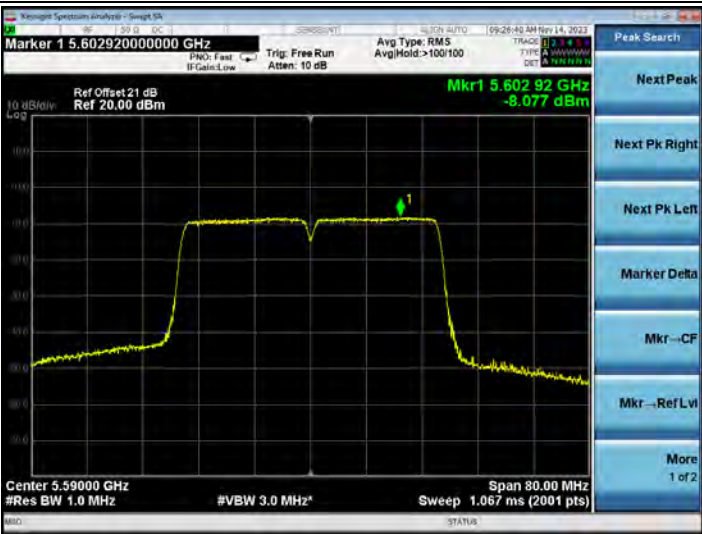
802.11n40

Band-UNII-2C

CH5510



CH5590



CH5670



802.11a

Band-UNII-3

CH5745



CH5785



CH5825



802.11n20

Band-UNII-3

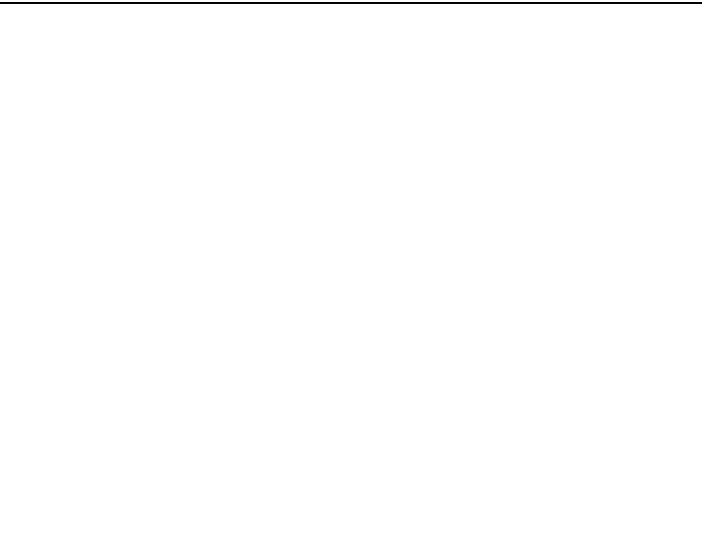
CH5745



CH5785



CH5825



802.11n40

Band-UNII-3

CH5755



CH5795



9 FREQUENCY STABILITY MEASUREMENT

9.1 Test Equipment

The following test equipment was used during the power spectral density measurement:

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
4.	Spectrum Analyzer	Agilent	N9010A	MY52221182	2023.08.09	1 Year
5.	RF Cable	Mini-Circuits	FLC-3FT-SM SM+	22022838	2023.08.09	1 Year
6.	20 dB Attenuator	Mini-Circuits	BW-S20W2+	001	2023.09.21	1 Year

9.2 Block Diagram of Test Setup

The Same as section 6.2.

9.3 Specification Limits (§15.407(g))

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 or ± 20 ppm.

9.4 Operating Condition of EUT

The switch ON/OFF was used to enable the EUT to change the channel one by one.

9.5 Test Procedure

The transmitter output was connected to the spectrum analyzer.

- (i) Set RBW = 10 kHz
- (ii) Set VBW = 10 kHz.
- (iii) Detector = Positive Peak.
- (iv) Trace = Max Hold.
- (v) Use the peak search function of the spectrum analyzer to mark the max peak value. The frequency as f_c .
- (vi) The frequency error is $(f_c - f)/f \times 10^6$ ppm and must less than ± 20 ppm.
- (vii) All condition of normal operation as specified in the user's manual should be considered.

9.6 Test Results

PASSED.

All the test results are attached in next pages.

(Test Date: 2023.12.06 Temperature: 23°C Humidity: 51 %)

Test Voltage (V)	Temperature (°C)	Channel	Frequency (MHz)	Measured Frequency (MHz)	Frequency Error (ppm)	Limit (ppm)
AC 230V	25	36	5180	5180.013	2.4	±20
		40	5200	5200.012	2.4	±20
		44	5220	5220.012	2.4	±20
		48	5240	5240.012	2.4	±20
		52	5260	5260.012	2.4	±20
		56	5280	5280.013	2.4	±20
		60	5300	5300.013	2.4	±20
		64	5320	5320.013	2.4	±20
		100	5500	5500.013	2.4	±20
		104	5520	5520.013	2.4	±20
		108	5540	5540.013	2.4	±20
		112	5560	5560.013	2.4	±20
		116	5580	5580.013	2.4	±20
		120	5600	5600.014	2.4	±20
		124	5620	5620.014	2.4	±20
		128	5640	5640.014	2.4	±20
		132	5660	5660.014	2.4	±20
		136	5680	5680.014	2.4	±20
		140	5700	5700.014	2.4	±20
		149	5745	5745.014	2.4	±20
		153	5765	5765.014	2.4	±20
		157	5785	5785.014	2.4	±20
		161	5805	5805.014	2.4	±20
		165	5825	5825.014	2.4	±20

Test Voltage (V)	Temperature (°C)	Channel	Frequency (MHz)	Measured Frequency (MHz)	Frequency Error (ppm)	Limit (ppm)
AC 197V	25	36	5180	5180.014	2.7	±20
		40	5200	5200.014	2.7	±20
		44	5220	5220.014	2.7	±20
		48	5240	5240.014	2.7	±20
		52	5260	5260.015	2.9	±20
		56	5280	5280.015	2.8	±20
		60	5300	5300.015	2.8	±20
		64	5320	5320.015	2.8	±20
		100	5500	5500.015	2.7	±20
		104	5520	5520.015	2.7	±20
		108	5540	5540.015	2.7	±20
		112	5560	5560.016	2.9	±20
		116	5580	5580.016	2.9	±20
		120	5600	5600.016	2.9	±20
		124	5620	5620.016	2.8	±20
		128	5640	5640.016	2.8	±20
		132	5660	5660.016	2.8	±20
		136	5680	5680.016	2.8	±20
		140	5700	5700.016	2.8	±20
		149	5745	5745.016	2.8	±20
		153	5765	5765.016	2.8	±20
		157	5785	5785.016	2.8	±20
		161	5805	5805.016	2.8	±20
		165	5825	5825.016	2.7	±20

Test Voltage (V)	Temperature (°C)	Channel	Frequency (MHz)	Measured Frequency (MHz)	Frequency Error (ppm)	Limit (ppm)
AC 253V	25	36	5180	5180.011	2.1	±20
		40	5200	5200.011	2.1	±20
		44	5220	5220.011	2.1	±20
		48	5240	5240.011	2.1	±20
		52	5260	5260.011	2.1	±20
		56	5280	5280.011	2.1	±20
		60	5300	5300.011	2.1	±20
		64	5320	5320.012	2.3	±20
		100	5500	5500.012	2.2	±20
		104	5520	5520.012	2.2	±20
		108	5540	5540.012	2.2	±20
		112	5560	5560.012	2.2	±20
		116	5580	5580.012	2.2	±20
		120	5600	5600.012	2.1	±20
		124	5620	5620.012	2.1	±20
		128	5640	5640.012	2.1	±20
		132	5660	5660.012	2.1	±20
		136	5680	5680.013	2.3	±20
		140	5700	5700.013	2.3	±20
		149	5745	5745.013	2.3	±20
		153	5765	5765.013	2.3	±20
		157	5785	5785.013	2.2	±20
		161	5805	5805.013	2.2	±20
		165	5825	5825.013	2.2	±20

Test Voltage (V)	Temperature (°C)	Channel	Frequency (MHz)	Measured Frequency (MHz)	Frequency Error (ppm)	Limit (ppm)
AC 230V	0	36	5180	5180.011	2.1	±20
		40	5200	5200.011	2.1	±20
		44	5220	5220.012	2.3	±20
		48	5240	5240.012	2.3	±20
		52	5260	5260.012	2.3	±20
		56	5280	5280.012	2.3	±20
		60	5300	5300.012	2.3	±20
		64	5320	5320.012	2.3	±20
		100	5500	5500.013	2.4	±20
		104	5520	5520.013	2.4	±20
		108	5540	5540.013	2.3	±20
		112	5560	5560.013	2.3	±20
		116	5580	5580.013	2.3	±20
		120	5600	5600.013	2.3	±20
		124	5620	5620.013	2.3	±20
		128	5640	5640.013	2.3	±20
		132	5660	5660.013	2.3	±20
		136	5680	5680.013	2.3	±20
		140	5700	5700.013	2.3	±20
		149	5745	5745.014	2.4	±20
		153	5765	5765.014	2.4	±20
		157	5785	5785.014	2.4	±20
		161	5805	5805.014	2.4	±20
		165	5825	5825.014	2.4	±20

Test Voltage (V)	Temperature (°C)	Channel	Frequency (MHz)	Measured Frequency (MHz)	Frequency Error (ppm)	Limit (ppm)
AC 230V	50	36	5180	5180.013	2.5	±20
		40	5200	5200.013	2.5	±20
		44	5220	5220.013	2.5	±20
		48	5240	5240.013	2.5	±20
		52	5260	5260.014	2.7	±20
		56	5280	5280.013	2.5	±20
		60	5300	5300.013	2.5	±20
		64	5320	5320.014	2.6	±20
		100	5500	5500.014	2.5	±20
		104	5520	5520.014	2.5	±20
		108	5540	5540.014	2.5	±20
		112	5560	5560.014	2.5	±20
		116	5580	5580.014	2.5	±20
		120	5600	5600.015	2.7	±20
		124	5620	5620.015	2.7	±20
		128	5640	5640.015	2.7	±20
		132	5660	5660.015	2.7	±20
		136	5680	5680.015	2.6	±20
		140	5700	5700.015	2.6	±20
		149	5745	5745.015	2.6	±20
		153	5765	5765.015	2.6	±20
		157	5785	5785.015	2.6	±20
		161	5805	5805.015	2.6	±20
		165	5825	5825.016	2.7	±20

10 ANTENNA REQUIREMENT

10.1 Specification Limits (§15.203)

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

10.2 Result

According to KDB 353028 D1, the following describes the three ways that can be used to demonstrate compliance to Section 15.203:

- a) Antenna permanently attached.
- b) Unique (non-standard) antenna connector.
- c) Professional installation.

For this product, the antenna is:

- ☐ Antenna permanently attached
- ☒ Unique (non-standard) antenna connector
- ☐ Professional installation
- ☐ not meet any of ways list above

that

- ☒ compliant
- ☐ not compliant

with the requirement of Section 15.203.

11 DEVIATION TO TEST SPECIFICATIONS

None.

12 MEASUREMENT UNCERTAINTY LIST

The measurement uncertainty was estimated for test on the EUT according to CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage of K=2.

The uncertainties value is not used in determining the PASS/FAIL results.

Test Items/Facilities	Frequency/Equipment/Unit	Uncertainty
Conducted Emission No.1 Shielded Room	9kHz~150kHz	±3.1 dB
	150kHz~30MHz	±2.6 dB
Conducted Emission No.3 Shielded Room	9kHz~150kHz	±3.1 dB
	150kHz~30MHz	±2.6 dB
Radiated Emission	30MHz~200MHz, Horizontal	±3.8 dB
	30MHz~200MHz, Vertical	±4.1 dB
	200MHz~1000MHz, Horizontal	±3.6 dB
	200MHz~1000MHz, Vertical	±5.1 dB
	1GHz~6GHz	±5.3 dB
	6GHz~18GHz	±5.3 dB
	18GHz~40GHz	±3.5 dB
Output Power Test	50MHz~18GHz	0.77 dB
Power Density Test	9kHz~6GHz	1.08 dB
RF Frequency Test	9kHz~40GHz	6×10^{-4}
Bandwidth Test	9kHz~6GHz	1.5×10^{-3}
RF Radiated Power Test	30MHz~1000MHz	3.06 dB
Conducted Output Power Test	50MHz~18GHz	0.83 dB
AC Voltage(<10kHz) Test	120V~230V	0.04 %
DC Power Test	0V~30V	0.4 %
Temperature	-40°C~+100°C	0.52 °C
Humidity	30%~95%	2.6 %