TEST REPORT

No.24T04N003078-009-WLAN 5G

for

Realme Chongqing Mobile Telecommunications Corp., Ltd.

Mobile Phone

Model Name: RMX5085

with

Hardware Version: 11

Software Version: realme UI 6.0

FCC ID: 2AUYFRMX5085

Issued Date: 2025-03-15

Designation Number: CN1210

Note:

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of SAICT.

Test Laboratory:

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REPORT HISTORY

Report Number	Revision	Description	Issue Date
24T04N003078-009-WLAN 5G	Rev.0	1st edition	2025-03-15

Note: the latest revision of the test report supersedes all previous versions.

CONTENTS

1. Summary of Test Report

1.1. Test Items

Description	Mobile Phone
Model Name	RMX5085
Applicant's name	Realme Chongqing Mobile Telecommunications Corp., Ltd.
Manufacturer's Name	Realme Chongqing Mobile Telecommunications Corp., Ltd.

1.2. Test Standards

FCC Part15-2023;ANSI C63.10-2020/Cor 1-2023; KDB789033-V02r01; KDB905462-D02; KDB 662911-V02r01.

1.3. Test Result

Pass

Please refer to "5.2. Test Results"

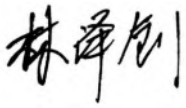
1.4. Testing Location

Address: Building G, Shenzhen International Innovation Center, No.1006 Shennan Road, Futian District, Shenzhen, Guangdong, P. R. China 51800

1.5. Project data

Testing Start Date:	2025-02-13
Testing End Date:	2025-03-15

1.6. Signature



Lin Zechuang

(Prepared this test report)

An Ran

(Reviewed this test report)

Zhang Bojun

(Approved this test report)

2. Client Information

2.1. Applicant Information

Company Name:	Realme Chongqing Mobile Telecommunications Corp., Ltd.
Address:	No.178 Yulong Avenue,Yufengshan,Yubei District,Chongqing,China
Contact Person	HuangMinJiang
E-Mail	mega@realme.com
Telephone:	(86)18502096102
Fax:	/

2.2. Manufacturer Information

Company Name:	Realme Chongqing Mobile Telecommunications Corp., Ltd.
Address:	No.178 Yulong Avenue,Yufengshan,Yubei District,Chongqing,China
Contact Person	HuangMinJiang
E-Mail	mega@realme.com
Telephone:	(86)18502096102
Fax:	/

3. Equipment Under Test (EUT) and Ancillary Equipment (AE)

3.1. About EUT

Description	Mobile Phone
Model Name	RMX5085
RF Protocol	IEEE 802.11a/n-HT20,40/ac-VHT20,40,80,160/ax-HE20,40,80,160
WLAN Frequency Range	ISM Bands: 5150MHz~5250MHz; 5250MHz~5350MHz; 5470MHz~5725MHz; 5725MHz~5850MHz.
Type of modulation	OFDM/OFDMA
Antenna Type	PIFA antenna
Antenna Gain	5150MHz~5250MHz：SISO: ANT1: -0.66dBi; ANT2: -1.88dBi; 5250MHz~5350MHz：SISO: ANT1: -1.21dBi; ANT2: -1.6dBi; 5470MHz~5725MHz：SISO: ANT1: -0.43dBi; ANT2: 1.71dBi; 5725MHz~5850MHz：SISO: ANT1: 0.17dBi; ANT2: 1.66dBi;
Power Supply	Battery
FCC ID	2AUYFRMX5085
Device Type (DFS)	Client without radar detection(only support client mode)
Condition of EUT as received	No abnormality in appearance

Note1: Directional gain(correlated) = 10log $[(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2 /NANT]$dBi.
For 5150MHz~5250MHz: Directional gain=1.8dBi;
For 5250MHz~5350MHz: Directional gain=1.6dBi;
For 5470MHz~5725MHz: Directional gain=3.7dBi;
For 5725MHz~5850MHz: Directional gain=4.0dBi.
Note2: Components list, please refer to documents of the manufacturer; it is also included in the original test record of Shenzhen Academy of Information and Communications Technology.

3.2. Internal Identification of EUT used during the test

EUT ID*	SN or IMEI	HW Version	SW Version	Date of Receipt
UT11aa	862666070019679 862666070019661	11	realme UI 6.0	2025-01-23
UT09aa	862666070019794 862666070019786	11	realme UI 6.0	2025-01-23
UT18aa	862666070019851 862666070019844	11	realme UI 6.0	2025-01-23

*EUT ID: is used to identify the test sample in the lab internally.
UT11aa is used for conduction test, UT09aa is used for radiation test and UT18aa is AC Power line Conducted Emission test.

3.3. Internal Identification of AE used during the test

AE No.	Description	AE ID*
AE1	Battery	/
AE2	Charger	/
AE3	USB Cable	/

AE1

Model	BLPC47
Manufacturer	Dongguan NVT Technology Co., Ltd
Capacity	3425mAh
Nominal Voltage	7.66V

AE2

Model	VCBBOAUH
Manufacturer	Dongguan Aohai Technology Co.,Ltd.
Specification	American Standard Charger

AE3

Model	DL153
Manufacturer	/

*AE ID and AE Label: is used to identify the test sample in the lab internally.

3.4. General Description

The Equipment under Test (EUT) is a model of Smart Phone with PIFA antenna and battery.
It consists of normal options: Lithium Battery, Charger and USB Cable.
Manual and specifications of the EUT were provided to fulfil the test.
Samples undergoing test were selected by the client.

4. REFERENCE DOCUMENTS

4.1. Documents supplied by applicant

EUT feature information is supplied by the applicant or manufacturer, which is the basis of testing.

4.2. Reference Documents for testing

The following documents listed in this section are referred for testing.

Reference	Title	Version
FCC Part15	FCC CFR 47,Part 15,Subpart C FCC CFR 47,Part 15,Subpart E	2023
ANSI C63.10	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices	-2020/ Cor 1-2023
KDB 789033	GUIDELINES FOR COMPLIANCE TESTING OF UNLICENSED NATIONAL INFORMATION INFRASTRUCTURE (U-NII) DEVICES PART 15, SUBPART E	V02r01
KDB 905462	Compliance Measurement Procedures for Unlicensed-national Information Infrastructure Devices Operating in the 5250-5350 MHz and 5470-5725 MHz Bands Incorporating Dynamic Frequency Selection	D02
KDB 662911	Emissions Testing of Transmitters with Multiple Outputs in the Same Band (e.g., MIMO, Smart Antenna, etc)	V02r01

5. Test Results

5.1. Testing Environment

Normal Temperature: 15~35℃

Relative Humidity: 20~75%

5.2. Test Results

No.	Test cases	Sub-clause of Part15E	Verdict
0	Maximum Output Power	15.407(a)	**P**
1	Power Spectral Density	15.407(a)	**P**
2	Occupied 26dB Bandwidth	15.403(i)	**/**
3	Occupied 6dB Bandwidth	15.407(e)	**P**
4	99% Occupied Bandwidth	15.403	**/**
5	Dynamic Frequency Selection	15.407 (h)	**P**
6	Band edge compliance	15.209	**P**
7	Radiated Spurious Emissions	15.209	**P**
8	AC Power line Conducted	15.207	**P**
9	Transmit Power Control	15.407	**NA**

See **ANNEX A** for details.

Note: According to the definition of the application description, the device will automatically discontinue transmission in case of either absence of information to transmit or operational failure.

5.3. Statements

SAICT has evaluated the test cases requested by the applicant/manufacturer as listed in section 5.2 of this report, for the EUT specified in section 3, according to the standards or reference documents listed in section 4.2

Disclaimer:

A. After confirmation with the customer, the sample information provided by the customer may affect the validity of the measurement results in this report, and the impact and consequences arising therefrom shall be borne by the customer.

B. The samples in this report are provided by the customer, and the test results are only applicable to the samples received.

6. Test Equipments Utilized

Conducted test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Due date	Calibration Period
1	Vector Signal Analyzer	FSV40	100903	Rohde & Schwarz	2025-12-26	1 year
2	Power Sensor	U2021XA	MY55430013	Keysight	2025-12-26	1 year
3	RF Control Unit	JS0806-2	21C8060398	Tonscend	2025-05-06	1 year
4	Vector Signal Generator	SMW200A	110889	Rohde & Schwarz	2026-03-10	1 year
5	Shielding Room	S81	CT000986-1344	ETS-Lindgren	2026-09-12	5 years
No.	**Equipment**	**Model**	**FCC ID**	**Manufacturer**	**Calibration Due date**	**Calibration Period**
6	Master AP	RT-AX86U	MSQ-RTAXI600	ASUS	/	/

Radiated test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Due date	Calibration Period
1	Test Receiver	ESR7	101676	Rohde & Schwarz	2025-11-21	1 year
2	Spectrum Analyzer	FSV40	101192	Rohde & Schwarz	2026-01-09	1 year
3	BiLog Antenna	3142E	00224831	ETS-Lindgren	2027-10-23	3 years
4	Horn Antenna	3117	00066577	ETS-Lindgren	2025-04-17	3 years
5	Horn Antenna	QSH-SL-18-26-S-20	17013	Q-par	2026-02-01	3 years
6	Horn Antenna	QSH-SL-26-40-K-20	17014	Q-par	2026-01-30	3 years
7	Anechoic Chamber	FACT3-2.0	1285	ETS-Lindgren	2025-05-28	2 years
8	Loop Antenna	HLA6120	35779	TESEQ	2025-05-10	3 years
9	Test Receiver	ESCI	100702	Rohde & Schwarz	2026-01-09	1 year
10	LISN	ENV216	102067	Rohde & Schwarz	2025-10-07	1 year

Test software

No.	Equipment	Manufacturer	Version
1	JS1120-3	Tonscend	3.5
2	EMC32	Rohde & Schwarz	10.50.40

EUT is engineering software provided by the customer to control the transmitting signal.
The EUT was programmed to be in continuously transmitting mode.

7. Laboratory Environment

Shielded room

Temperature	Min. = 15 ˚C, Max. = 35 ˚C
Relative humidity	Min. = 20 %, Max. = 75 %
Shielding effectiveness	0.014MHz-1MHz> 60 dB; 1MHz-18000MHz>90 dB
Electrical insulation	> 2MΩ
Ground system resistance	< 4 Ω

Anechoic chamber

Temperature	Min. = 15 ˚C, Max. = 35 ˚C
Relative humidity	Min. = 20 %, Max. = 75 %
Shielding effectiveness	0.014MHz-1MHz> 60 dB; 1MHz-18000MHz>90 dB
Electrical insulation	> 2MΩ
Ground system resistance	< 4 Ω
Normalised site attenuation (NSA)	<±4 dB, 3 m distance, from 30 to 1000 MHz
Voltage Standing Wave Ratio (VSWR)	≤ 6 dB, from 1 to 18 GHz, 3m distance
Uniformity of field strength	Between 0 and 6 dB, from 80 to 6000 MHz

8. Measurement Uncertainty

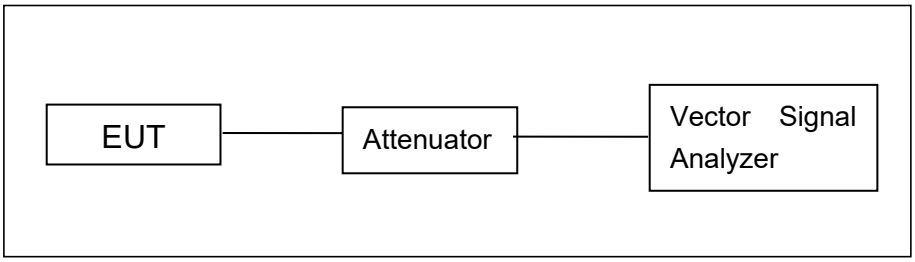
Test Name	Uncertainty (*k*=2)	
1. Maximum output Power	1.36dB	
2. Peak Power Spectral Density	1.36dB	
3. Occupied 26dB Bandwidth	4.56kHz	
4. Occupied 6dB Bandwidth	4.56kHz	
5. 99% Occupied Bandwidth	4.56kHz	
6. Band Edges Compliance	4.68dB	
7. Transmitter Spurious Emission - Radiated	9kHz≤f<30MHz	1.79dB
	30MHz≤f<1GHz	4.86dB
	1GHz≤f<18GHz	4.82dB
	18GHz≤f≤40GHz	2.90dB
8. AC Power line Conducted Emission	150kHz≤f≤30MHz	2.68dB

ANNEX A: Detailed Test Results

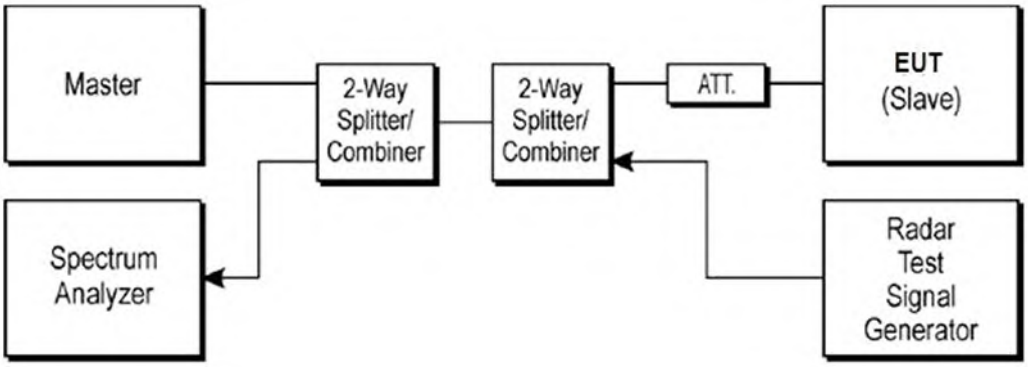
A.1. Measurement Method

1) Conducted Measurements

1). Connect the EUT to the test system correctly.
2). Set the EUT to the required work mode.
3). Set the EUT to the required channel.
4). Set the spectrum analyzer to start measurement.
5). Record the values.



6). The below figure shows the DFS setup, where the EUT is a RLAN device operating in slave mode, without Radar Interference Detection function. This setup also contains a device operating in master mode. The radar test signals are injected into the master device. The EUT (slave device) is associated with the master device. WLAN traffic is generated by streaming the mpeg file from the master to the slave in full monitor video mode using the media player.

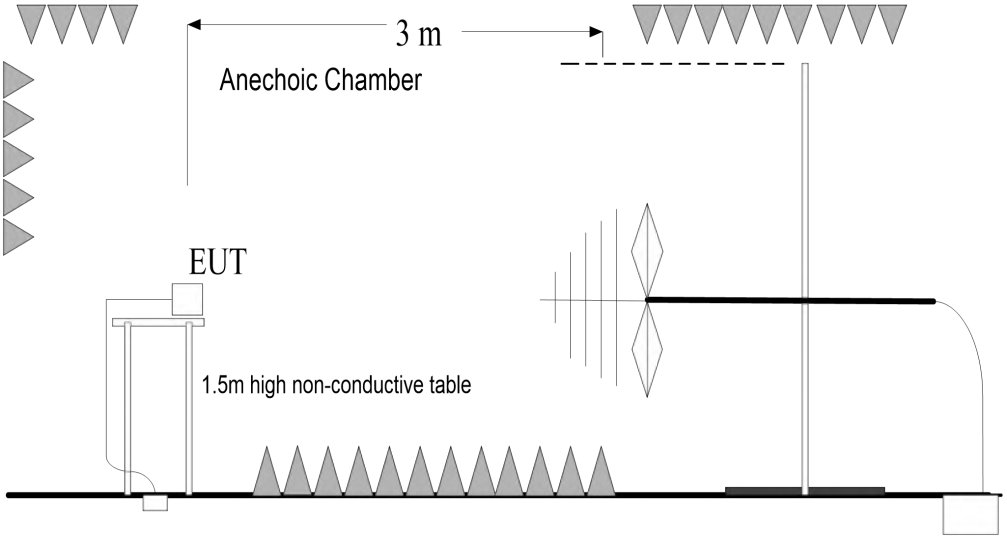


2) Radiated Emission Measurements

Test setup:

9kHz-30MHz：

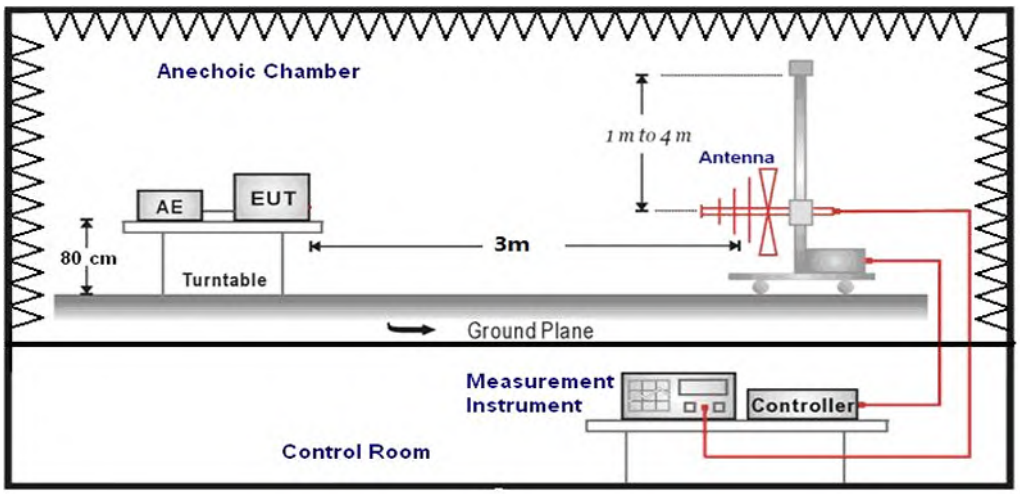
The EUT are measured in a anechoic chamber. The EUT is placed on a non-conductive stand of 80cm high, and at a measurement distance of 3m from the receiving antenna. The center of the receiving loop antenna is 1.0 meter above the ground. The test setup refers to figure below. Detected emissions were maximized at each frequency by rotating the EUT and adjusting the receiver antenna polarization.



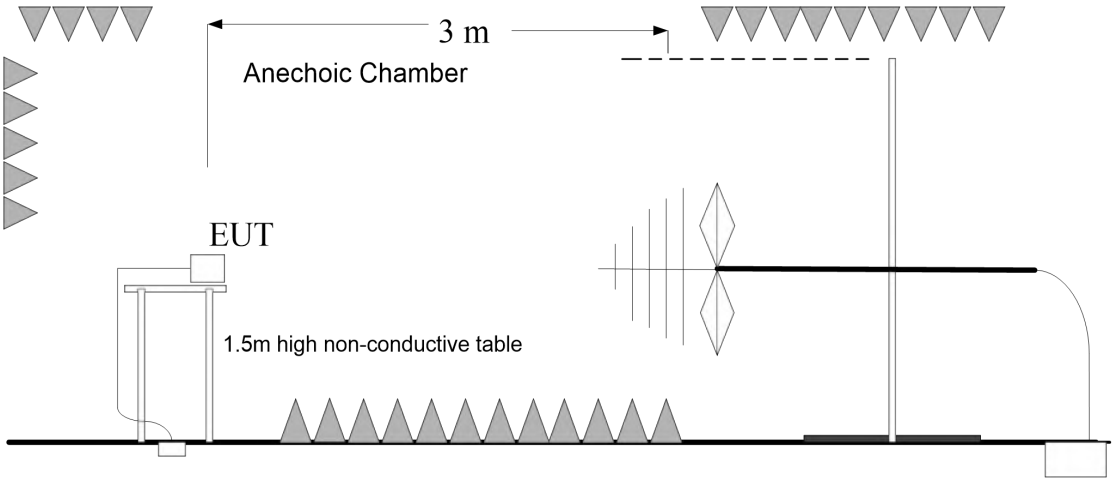
30MHz-40GHz:

The EUT are measured in a anechoic chamber. The EUT is placed on a non-conductive stand of 80cm high, and at a measurement distance of 3m from the receiving antenna. The center of the receiving antenna is 1.0 meter to 4.0 meter above the ground. The test setup refers to figure below. Detected emissions were maximized at each frequency by rotating the EUT and adjusting the receiver antenna polarization.

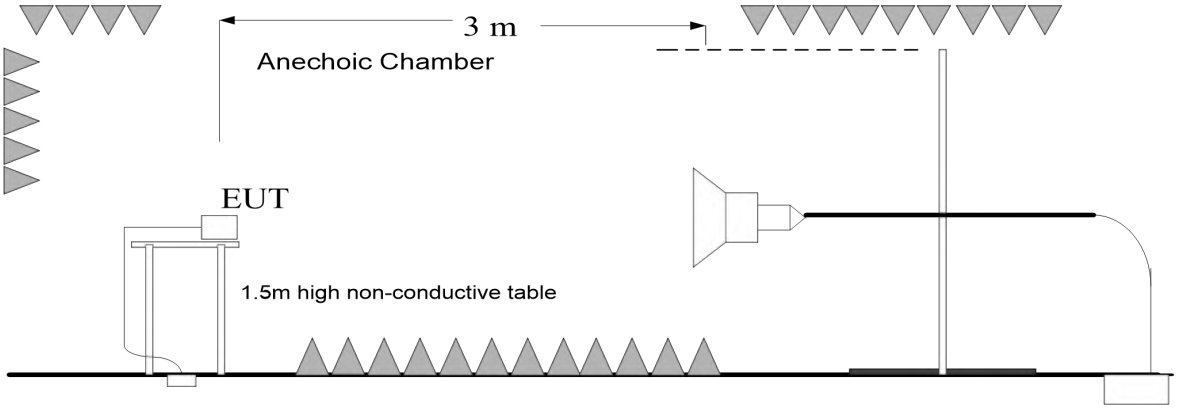
30MHz-1GHz:



1GHz-3GHz:

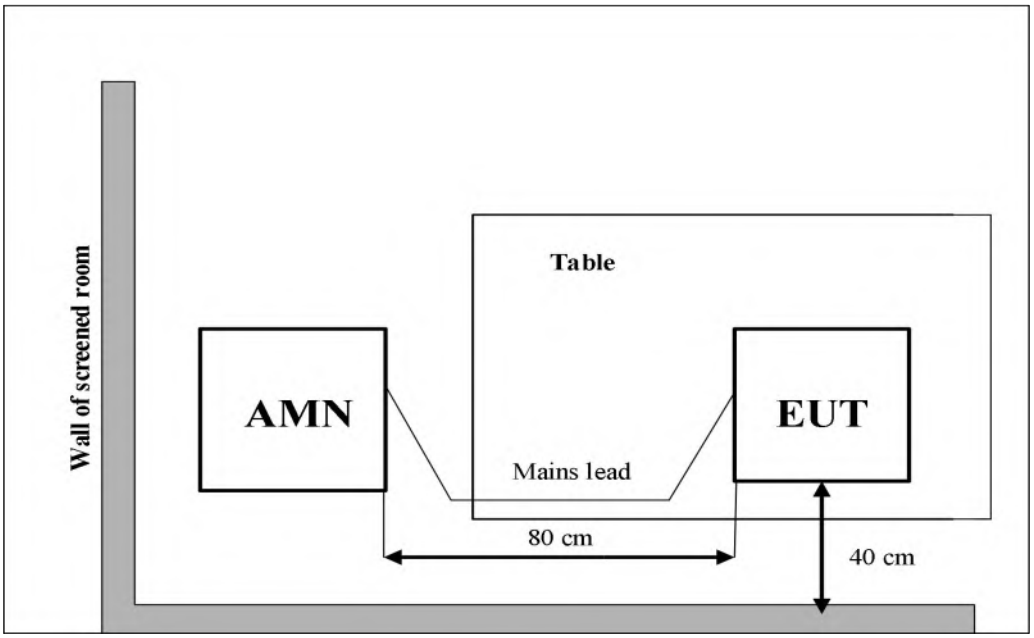


3GHz-40GHz:



3) AC Power line Conducted Emission Measurement

For WLAN, the EUT is working under test mode. The EUT is commanded to operate at maximum transmitting power.



A.2. Maximum output Power

Measurement Limit and Method:

Standard	Frequency (MHz)	Limit (dBm)
FCC CRF Part 15.407(a)	5150MHz~5250MHz	24
	5250MHz~5350MHz	24 or 11+10logB
	5470MHz~5725MHz	24 or 11+10logB
	5725MHz~5850MHz	30

Limit use the less value, and B is the 26dB bandwidth.

Measurement of method: See ANSI C63.10-Clause 12.4.3.2.

Method PM-G is a measurement using a gated RF average power meter.

Measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Because the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

Measurement Results:

Mode	Frequency (MHz)	RF output power (dBm)			Conclusion
		Ant 1	Ant2	MIMO	
802.11a	5180MHz(CH36)	15.57	15.94	/	P
	5200MHz(CH40)	15.67	15.98		P
	5240MHz(CH48)	15.89	16.05		P
	5260MHz(CH52)	15.66	16.08		P
	5280MHz(CH56)	15.70	16.04		P
	5320MHz(CH64)	15.52	15.91		P
	5500MHz(CH100)	15.78	16.06		P
	5580MHz(CH116)	15.88	16.08		P
	5700MHz(CH140)	15.60	15.78		P
	5745MHz(CH149)	18.20	18.23		P
	5785MHz(CH157)	18.10	18.40		P
	5825MHz(CH165)	18.02	18.55		P
802.11n-HT20	5180MHz(CH36)	15.57	15.99	18.80	P
	5200MHz(CH40)	15.68	15.97	18.84	P
	5240MHz(CH48)	15.82	16.11	18.98	P
	5260MHz(CH52)	15.71	16.12	18.93	P
	5280MHz(CH56)	15.64	16.03	18.85	P
	5320MHz(CH64)	15.55	15.90	18.74	P
	5500MHz(CH100)	15.86	16.12	19.00	P
	5580MHz(CH116)	15.90	16.15	19.04	P
	5700MHz(CH140)	15.76	15.82	18.80	P
	5745MHz(CH149)	18.12	18.17	21.16	P
	5785MHz(CH157)	18.02	18.27	21.16	P

	5825MHz(CH165)	18.01	18.12	21.08	**P**
802.11ac-VHT20	5180MHz(CH36)	15.65	15.92	18.80	**P**
	5200MHz(CH40)	15.72	15.97	18.86	**P**
	5240MHz(CH48)	15.88	15.96	18.93	**P**
	5260MHz(CH52)	15.74	16.06	18.91	**P**
	5280MHz(CH56)	15.58	16.02	18.82	**P**
	5320MHz(CH64)	15.58	15.88	18.74	**P**
	5500MHz(CH100)	15.91	16.15	19.04	**P**
	5580MHz(CH116)	15.92	16.26	19.10	**P**
	5700MHz(CH140)	15.71	15.76	18.75	**P**
	5745MHz(CH149)	18.11	18.10	21.12	**P**
	5785MHz(CH157)	18.05	18.32	21.20	**P**
	5825MHz(CH165)	18.06	18.13	21.11	**P**
802.11ax-HE20	5180MHz(CH36)	15.69	16.00	18.86	**P**
	5200MHz(CH40)	15.82	15.98	18.91	**P**
	5240MHz(CH48)	15.98	16.19	19.10	**P**
	5260MHz(CH52)	15.79	16.13	18.97	**P**
	5280MHz(CH56)	15.72	16.12	18.93	**P**
	5320MHz(CH64)	15.65	16.03	18.85	**P**
	5500MHz(CH100)	15.92	16.22	19.08	**P**
	5580MHz(CH116)	15.99	16.27	19.14	**P**
	5700MHz(CH140)	15.76	15.89	18.84	**P**
	5745MHz(CH149)	18.25	18.21	21.24	**P**
	5785MHz(CH157)	18.07	18.36	21.23	**P**
	5825MHz(CH165)	18.05	18.34	21.21	**P**
802.11n-HT40	5190MHz(CH38)	16.67	16.95	19.82	**P**
	5230MHz(CH46)	16.82	16.92	19.88	**P**
	5270MHz(CH54)	16.68	16.94	19.82	**P**
	5310MHz(CH62)	16.84	17.04	19.95	**P**
	5510MHz(CH102)	16.95	17.19	20.08	**P**
	5550MHz(CH110)	16.91	17.21	20.07	**P**
	5670MHz(CH134)	16.64	16.86	19.76	**P**
	5755MHz(CH151)	18.04	18.06	21.06	**P**
	5795MHz(CH159)	18.16	18.21	21.20	**P**
802.11ac-VHT40	5190MHz(CH38)	16.75	17.00	19.89	**P**
	5230MHz(CH46)	16.77	16.97	19.88	**P**
	5270MHz(CH54)	16.73	16.93	19.84	**P**
	5310MHz(CH62)	16.78	17.01	19.91	**P**
	5510MHz(CH102)	16.88	17.18	20.04	**P**
	5550MHz(CH110)	16.81	17.13	19.98	**P**
	5670MHz(CH134)	16.79	16.93	19.87	**P**
	5755MHz(CH151)	18.07	18.17	21.13	**P**
	5795MHz(CH159)	18.19	18.10	21.16	**P**

802.11ax-HE40	5190MHz(CH38)	16.86	17.04	19.96	**P**
	5230MHz(CH46)	16.91	17.13	20.03	**P**
	5270MHz(CH54)	16.92	17.10	20.02	**P**
	5310MHz(CH62)	16.82	17.20	20.02	**P**
	5510MHz(CH102)	16.95	17.34	20.16	**P**
	5550MHz(CH110)	16.95	17.34	20.16	**P**
	5670MHz(CH134)	16.83	17.04	19.95	**P**
	5755MHz(CH151)	18.12	18.14	21.14	**P**
	5795MHz(CH159)	18.20	18.24	21.23	**P**
802.11ac-VHT80	5210MHz(CH42)	16.62	16.82	19.73	**P**
	5290MHz(CH58)	16.63	17.01	19.83	**P**
	5530MHz(CH106)	16.80	16.95	19.89	**P**
	5610MHz(CH122)	16.78	16.89	19.85	**P**
	5775MHz(CH155)	18.05	18.19	21.13	**P**
802.11ax-HE80	5210MHz(CH42)	16.64	17.09	19.88	**P**
	5290MHz(CH58)	16.79	17.08	19.95	**P**
	5530MHz(CH106)	16.88	16.98	19.94	**P**
	5610MHz(CH122)	16.87	16.92	19.91	**P**
	5775MHz(CH155)	18.13	18.26	21.21	**P**
802.11ac-VHT160	5250MHz(CH50)	16.53	17.00	19.78	**P**
	5570MHz(CH114)	16.78	16.89	19.85	**P**
802.11ax-HE160	5250MHz(CH50)	16.91	17.07	20.00	**P**
	5570MHz(CH114)	16.99	16.94	19.98	**P**

Note:

The data rate 6Mbps (11a mode), MCS0 (11n mode), MCS0(VHT mode) and MCS0(11ax mode) are selected as the Worst-Case. The Full RU of 802.11ax is the type with maximum outpower level. Between SISO and MIMO, the MIMO of 11n,11ac and 11ax is the worst type. **802.11a** (802.11ax) mode is selected as the worst condition (SISO-Ant2 and MIMO). The following cases and test graphs are performed with this condition.

The EUT was programmed to be in continuously transmitting mode and the transmit duty cycle is not less than 98%.

Conclusion: PASS

A.3. Peak Power Spectral Density (conducted)

Measurement of method: See KDB 789033 D02 v02r01, Section F.

Measurement Limit:

Standard	Frequency (MHz)	Limit
FCC CRF Part 15.407(a)	5150MHz~5250MHz	11dBm/MHz
	5250MHz~5350MHz	11dBm/MHz
	5470MHz~5725MHz	11dBm/MHz
	5725MHz~5850MHz	30dBm/500kHz

The PPSD measurement method SA-1 is made according to KDB 789033.

Measurement Results:

SISO:

Mode	Frequency (MHz)	Power Spectral Density(dBm/MHz)	Conclusion
802.11a	5180MHz(CH36)	5.62	P
	5200MHz(CH40)	4.76	P
	5240MHz(CH48)	5.48	P
	5260MHz(CH52)	4.68	P
	5280MHz(CH56)	4.84	P
	5320MHz(CH64)	4.39	P
	5500MHz(CH100)	5.46	P
	5580MHz(CH116)	5.32	P
	5700MHz(CH140)	4.83	P
Mode	**Frequency (MHz)**	**Power Spectral Density (dBm/500kHz)**	**Conclusion**
802.11a	5745MHz(CH149)	4.22	P
	5785MHz(CH157)	4.70	P
	5825MHz(CH165)	5.12	P

MIMO:

Mode	Frequency (MHz)	Power Spectral Density(dBm/MHz)	Conclusion
802.11ax-HE20	5180MHz(CH36)	7.14	P
	5200MHz(CH40)	6.59	P
	5240MHz(CH48)	7.24	P
	5260MHz(CH52)	6.03	P
	5280MHz(CH56)	6.85	P
	5320MHz(CH64)	6.56	P
	5500MHz(CH100)	7.58	P
	5580MHz(CH116)	7.63	P
	5700MHz(CH140)	7.17	P
802.11ax-HE40	5190MHz(CH38)	5.12	P
	5230MHz(CH46)	5.45	P
	5270MHz(CH54)	5.38	P

	5310MHz(CH62)	5.27	**P**
	5510MHz(CH102)	6.10	**P**
	5550MHz(CH110)	5.97	**P**
	5670MHz(CH134)	5.29	**P**
802.11ax-HE80	5210MHz(CH42)	0.73	**P**
	5290MHz(CH58)	2.16	**P**
	5530MHz(CH106)	1.89	**P**
	5610MHz(CH122)	1.85	**P**
802.11ax-HE160	5250MHz(CH50)	-1.54	**P**
	5570MHz(CH114)	-0.35	**P**
Mode	**Channel**	**Power Spectral Density (dBm/500kHz)**	**Conclusion**
802.11ax-HE20	5745MHz(CH149)	6.54	**P**
	5785MHz(CH157)	6.76	**P**
	5825MHz(CH165)	7.13	**P**
802.11ax-HE40	5755MHz(CH151)	4.00	**P**
	5795MHz(CH159)	4.08	**P**
802.11ax-HE80	5775MHz(CH155)	0.55	**P**

Conclusion: PASS

A.4. Occupied 26dB Bandwidth (conducted)

Measurement of method: See KDB 789033 D02 v02r01, Section C.1.

Measurement Limit:

Standard	Limit (MHz)
FCC 47 CFR Part 15.403 (i)	/

The measurement is made according to KDB 789033

Measurement Result:

Mode	Frequency (MHz)	Occupied 26dB Bandwidth (MHz)		Conclusion
802.11a	5180MHz(CH36)	Fig.1	26.60	/
	5200MHz(CH40)	Fig.2	25.72	/
	5240MHz(CH48)	/	19.80	/
	5260MHz(CH52)	/	20.20	/
	5280MHz(CH56)	/	19.80	/
	5320MHz(CH64)	/	24.56	/
	5500MHz(CH100)	/	23.04	/
	5580MHz(CH116)	/	19.48	/
	5700MHz(CH140)	/	22.32	/
	5745MHz(CH149)	/	23.60	/
	5785MHz(CH157)	/	19.56	/
	5825MHz(CH165)	/	20.32	/
802.11ax-HE40	5190MHz(CH38)	Fig.3	51.68	/
	5230MHz(CH46)	Fig.4	39.68	/
	5270MHz(CH54)	/	39.84	/
	5310MHz(CH62)	/	58.24	/
	5510MHz(CH102)	/	50.48	/
	5550MHz(CH110)	/	39.84	/
	5670MHz(CH134)	/	52.48	/
	5755MHz(CH151)	/	51.28	/
	5795MHz(CH159)	/	39.84	/
802.11ax-HE80	5210MHz(CH42)	Fig.5	87.04	/
	5290MHz(CH58)	Fig.6	93.28	/
	5530MHz(CH106)	/	85.28	/
	5610MHz(CH122)	/	81.12	/
	5775MHz(CH155)	/	80.96	/
802.11ax-HE160	5250MHz(CH50)	Fig.7	167.36	/
	5570MHz(CH114)	Fig.8	166.40	/

See below for test graphs.

Conclusion: PASS

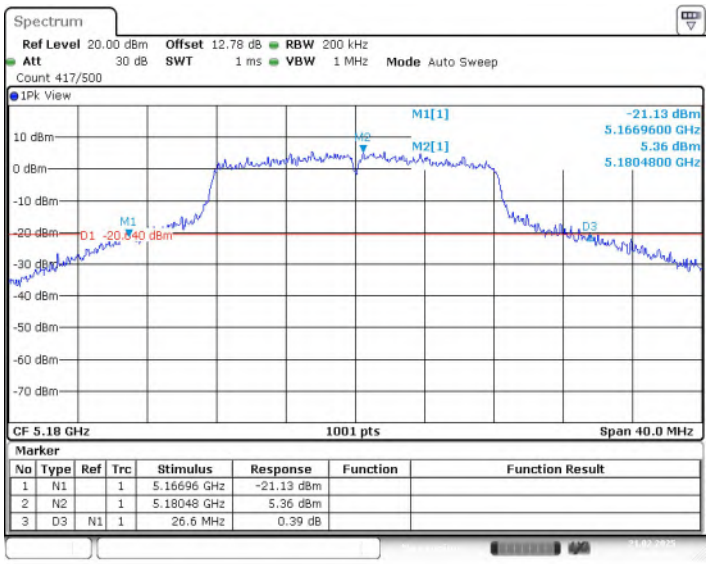


Fig. 1 Occupied 26dB Bandwidth (802.11a, 5180MHz)

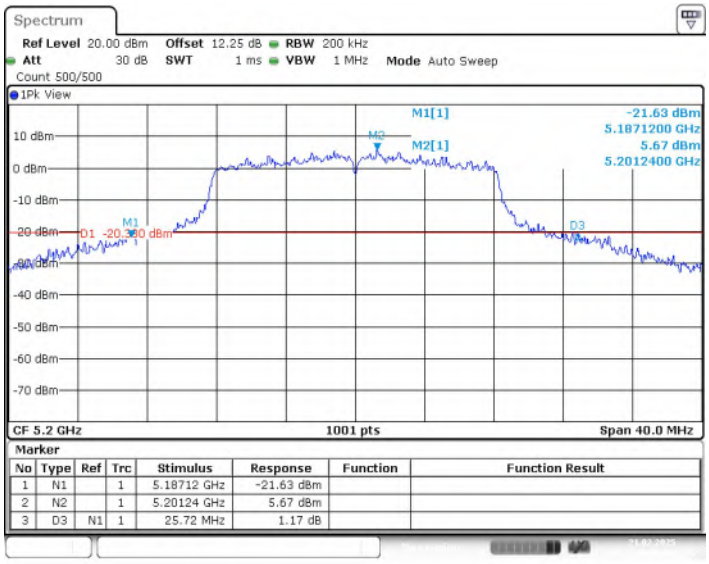


Fig. 2 Occupied 26dB Bandwidth (802.11a, 5200MHz)

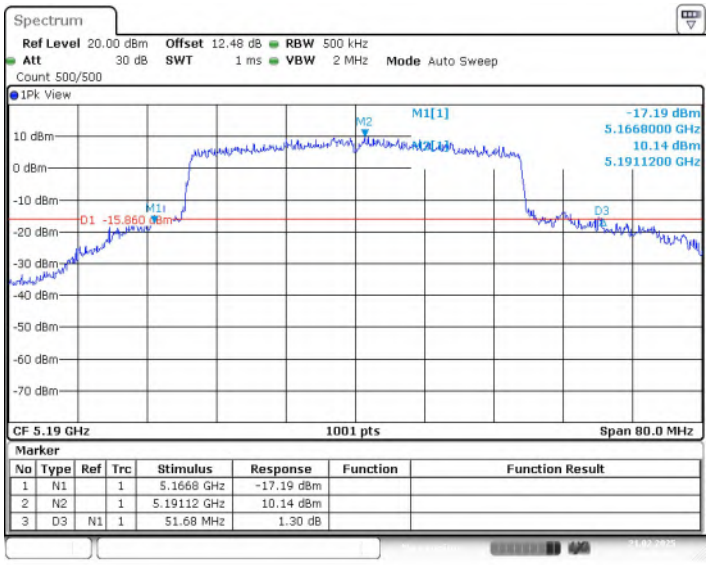


Fig. 3 Occupied 26dB Bandwidth (802.11ax-HE40, 5190MHz)

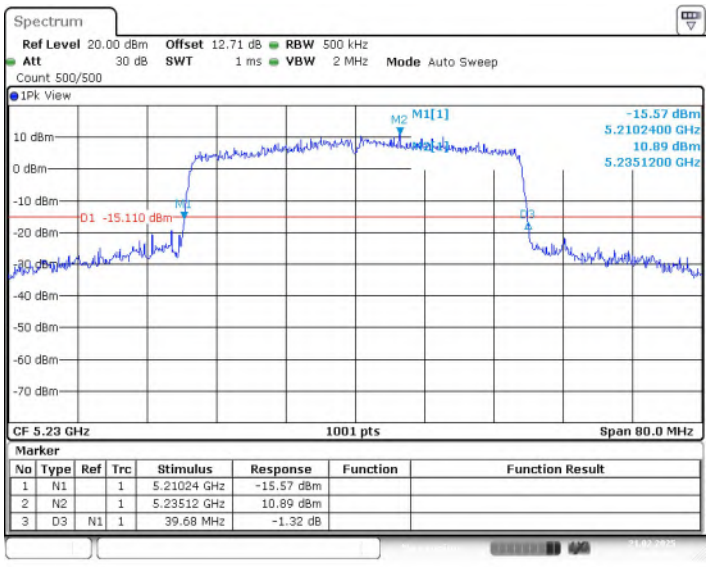


Fig. 4 Occupied 26dB Bandwidth (802.11ax-HE40, 5230MHz)

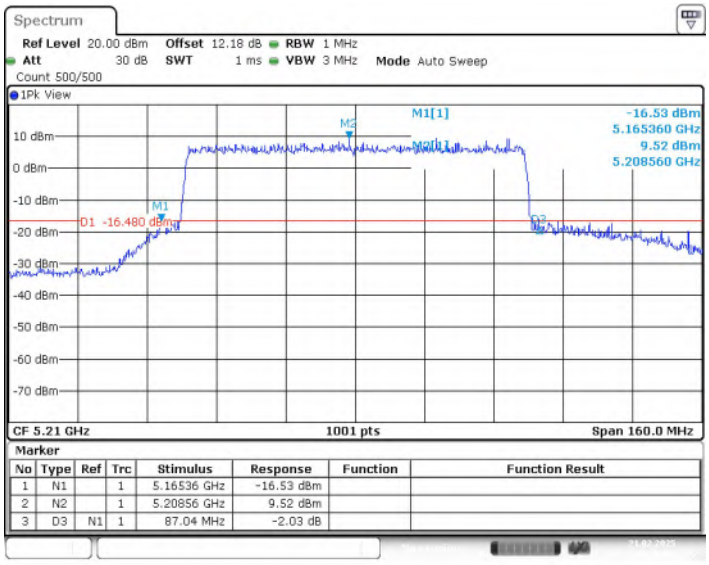


Fig. 5 Occupied 26dB Bandwidth (802.11ax-HE80, 5210MHz)

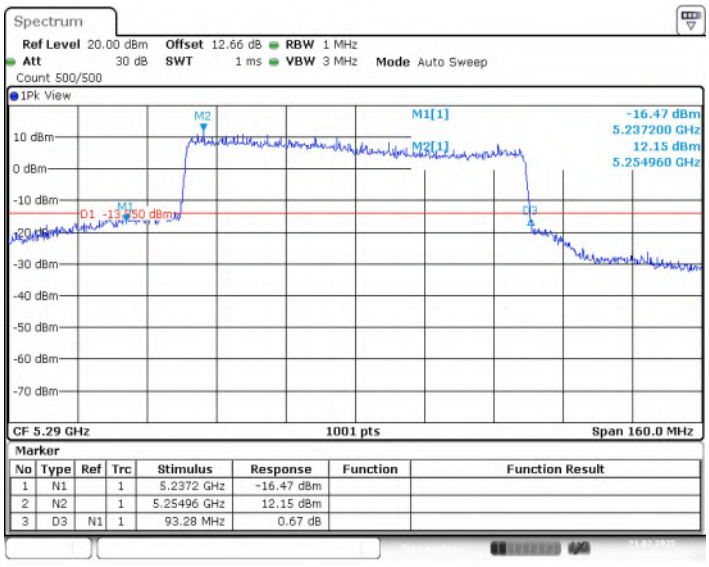


Fig. 6 Occupied 26dB Bandwidth (802.11ax-HE80, 5290MHz)

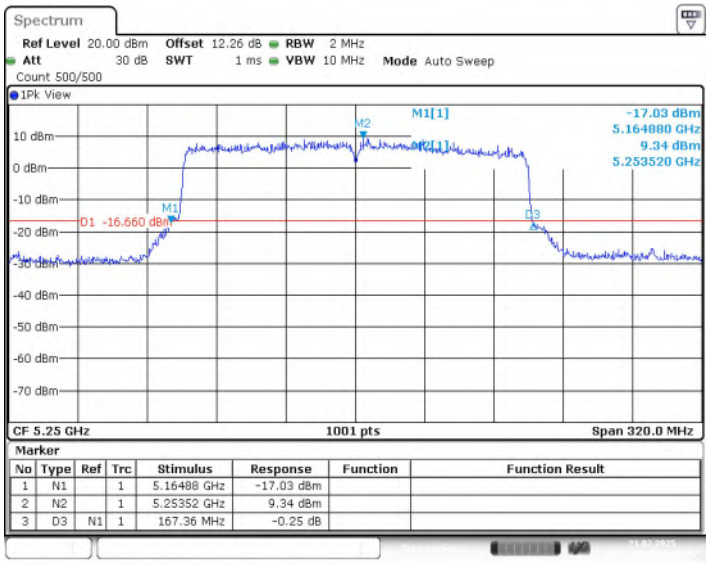


Fig. 7 Occupied 26dB Bandwidth (802.11ax-HE160, 5250MHz)

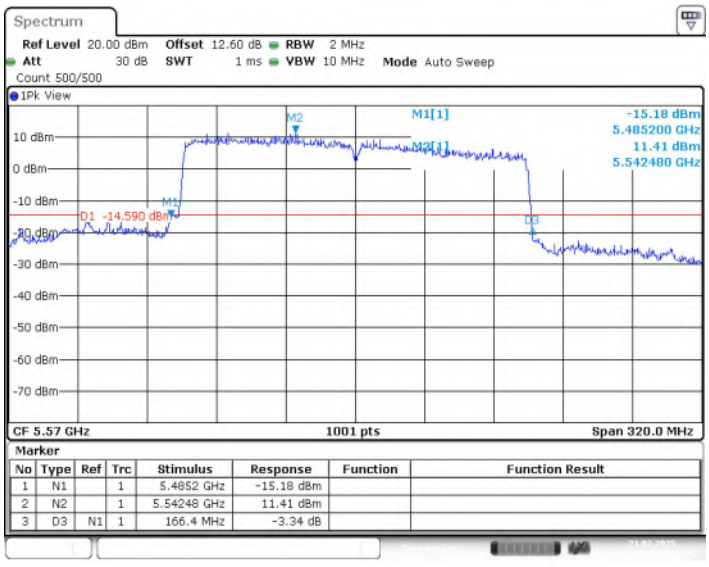


Fig. 8 Occupied 26dB Bandwidth (802.11ax-HE160, 5570MHz)

A.5. Occupied 6dB Bandwidth (conducted)

Measurement of method: See KDB 789033 D02 v02r01, Section C.2.

Measurement Limit:

Standard	Limit (MHz)
FCC 47 CFR Part 15.407 (e)	≥ 0.5

The measurement is made according to KDB 789033.

Measurement Result:

Mode	Frequency (MHz)	Occupied 6dB Bandwidth (MHz)		Conclusion
802.11a	5745MHz(CH149)	Fig.9	15.52	**P**
	5785MHz(CH157)	Fig.10	15.12	**P**
	5825MHz(CH165)	Fig.11	15.12	**P**
802.11ax-HE40	5755MHz(CH151)	Fig.12	36.24	**P**
	5795MHz(CH159)	Fig.13	35.12	**P**
802.11ax-HE80	5775MHz(CH155)	Fig.14	76.64	**P**

See below for test graphs.

Conclusion: PASS

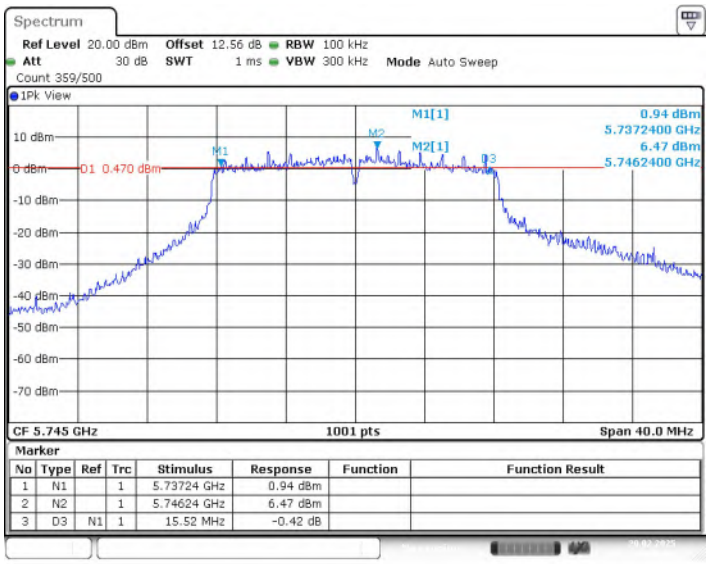


Fig. 9 Occupied 6dB Bandwidth (802.11a, 5745MHz)

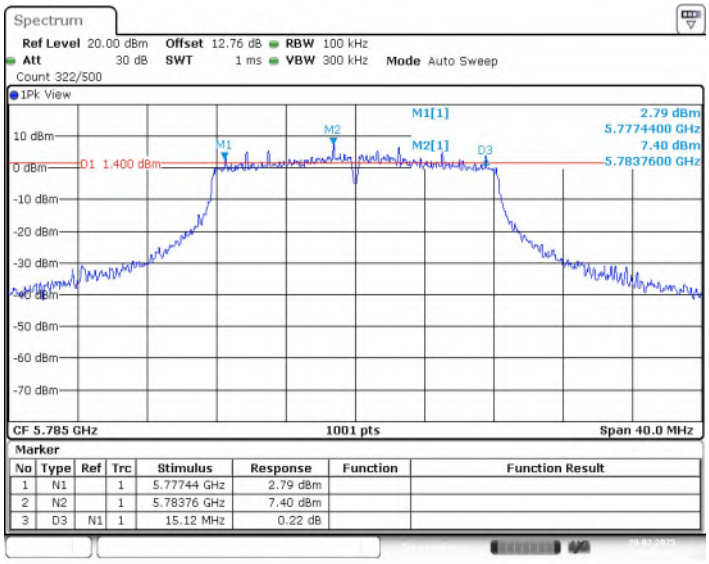


Fig. 10 Occupied 6dB Bandwidth (802.11a, 5785MHz)

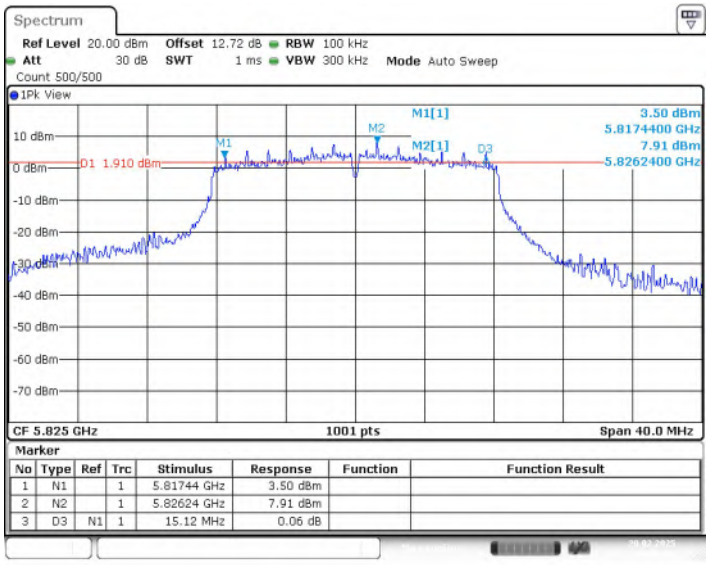


Fig. 11 Occupied 6dB Bandwidth (802.11a, 5825MHz)

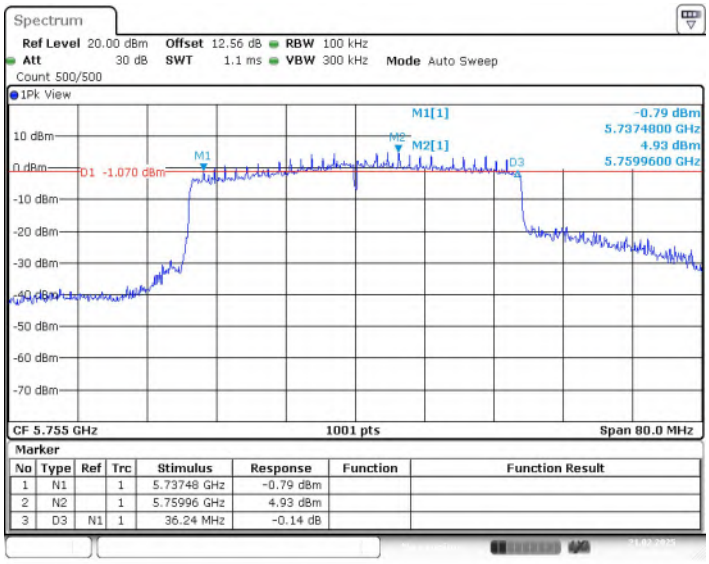


Fig. 12 Occupied 6dB Bandwidth (802.11ax-HE40, 5755MHz)

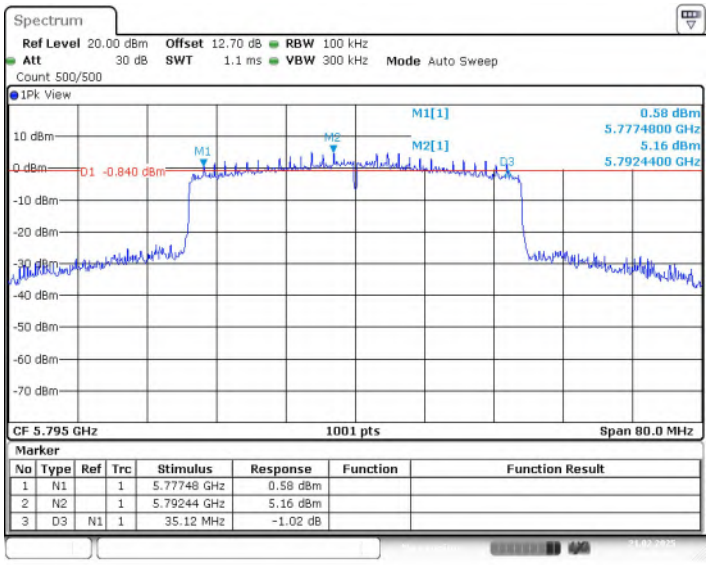


Fig. 13 Occupied 6dB Bandwidth (802.11ax-HE40, 5795MHz)

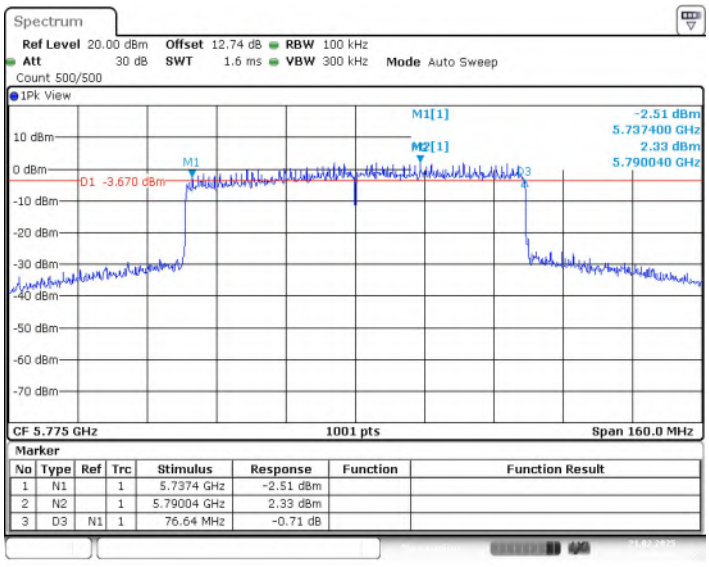


Fig. 14 Occupied 6dB Bandwidth (802.11ax-HE80, 5775MHz)

A.6. 99% Occupied Bandwidth (conducted)

Measurement of method: See KDB 789033 D02 v02r01, Section D.

Measurement Limit:

Standard	Limit (MHz)
FCC 47 CFR Part 15.403	/

The measurement is made according to KDB 789033.

Measurement Result:

Mode	Frequency (MHz)	99% Occupied Bandwidth (MHz)		Conclusion
802.11a	5180MHz(CH36)	Fig.15	17.66	/
	5200MHz(CH40)	Fig.16	17.78	/
	5240MHz(CH48)	/	17.02	/
	5260MHz(CH52)	/	17.10	/
	5280MHz(CH56)	/	16.98	/
	5320MHz(CH64)	/	17.66	/
	5500MHz(CH100)	/	17.78	/
	5580MHz(CH116)	/	17.02	/
	5700MHz(CH140)	/	17.46	/
	5745MHz(CH149)	/	17.38	/
	5785MHz(CH157)	/	17.06	/
	5825MHz(CH165)	/	17.14	/
802.11ax-HE40	5190MHz(CH38)	Fig.17	38.04	/
	5230MHz(CH46)	Fig.18	37.64	/
	5270MHz(CH54)	/	37.64	/
	5310MHz(CH62)	/	38.04	/
	5510MHz(CH102)	/	38.04	/
	5550MHz(CH110)	/	37.64	/
	5670MHz(CH134)	/	38.12	/
	5755MHz(CH151)	/	37.96	/
	5795MHz(CH159)	/	37.80	/
802.11ax-HE80	5210MHz(CH42)	Fig.19	78.16	/
	5290MHz(CH58)	Fig.20	78.32	/
	5530MHz(CH106)	/	77.52	/
	5610MHz(CH122)	/	78.00	/
	5775MHz(CH155)	/	77.52	/
802.11ax-HE160	5250MHz(CH50)	Fig.21	157.60	/
	5570MHz(CH114)	Fig.22	157.28	/

See below for test graphs.

Conclusion: PASS

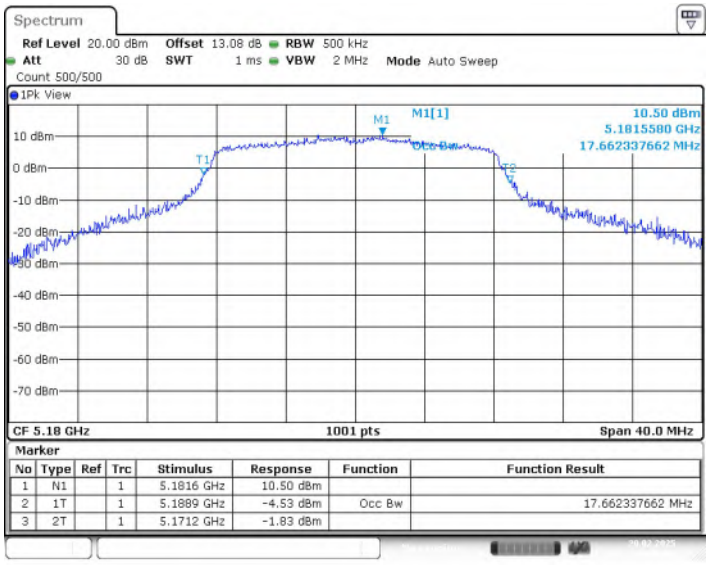


Fig. 15 99% Occupied Bandwidth (802.11a, 5180MHz)

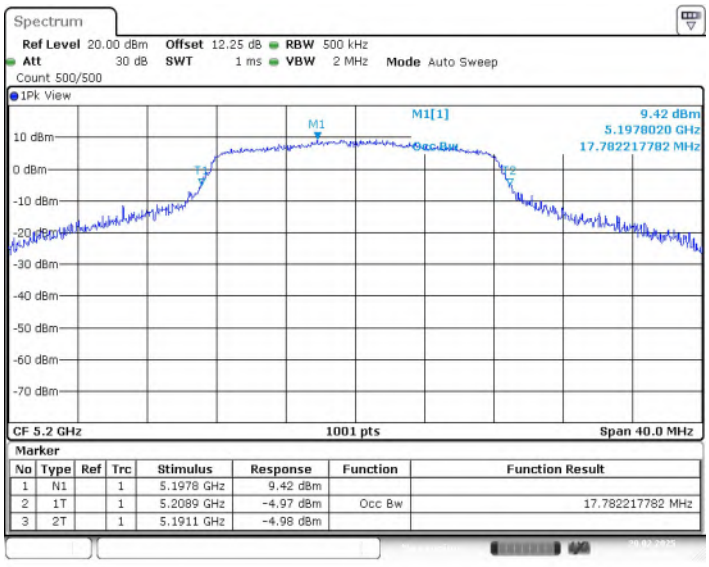


Fig. 16 99% Occupied Bandwidth (802.11a, 5200MHz)

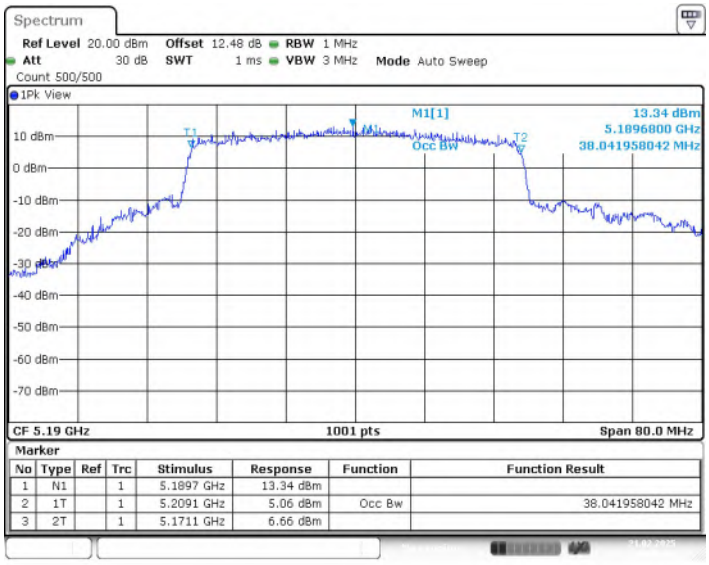


Fig. 17 99% Occupied Bandwidth (802.11ax-HE40, 5190MHz)

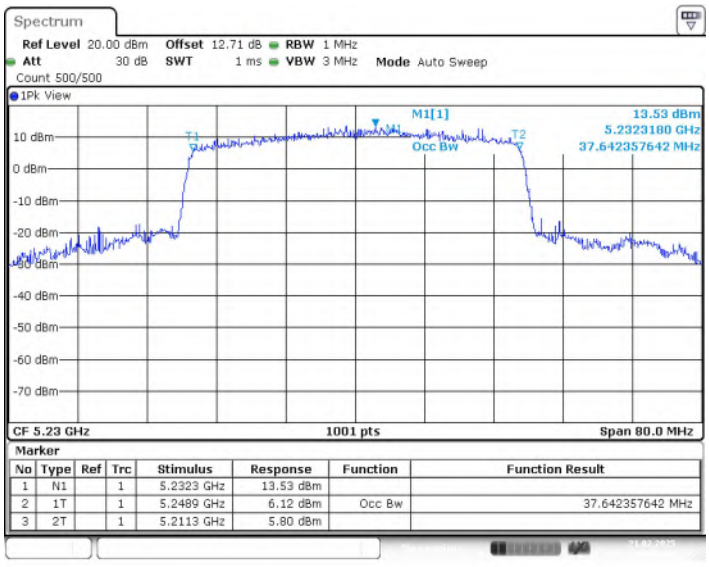


Fig. 18 99% Occupied Bandwidth (802.11ax-HE40, 5230MHz)

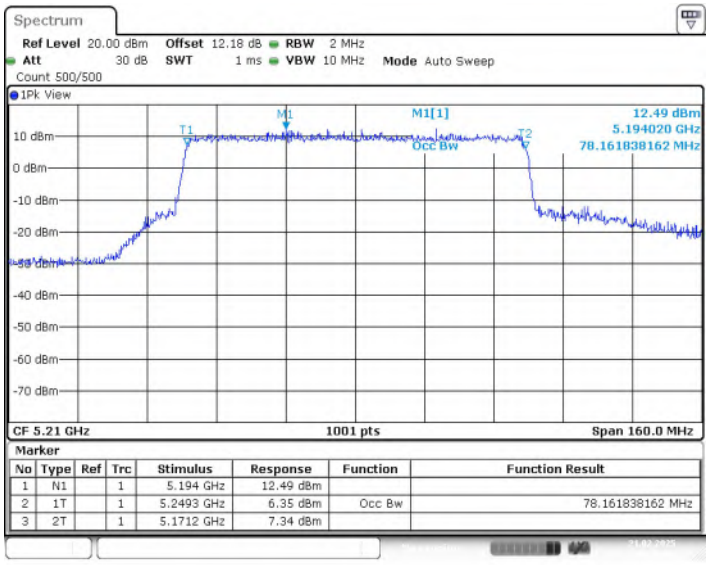


Fig. 19 99% Occupied Bandwidth (802.11ax-HE80, 5210MHz)

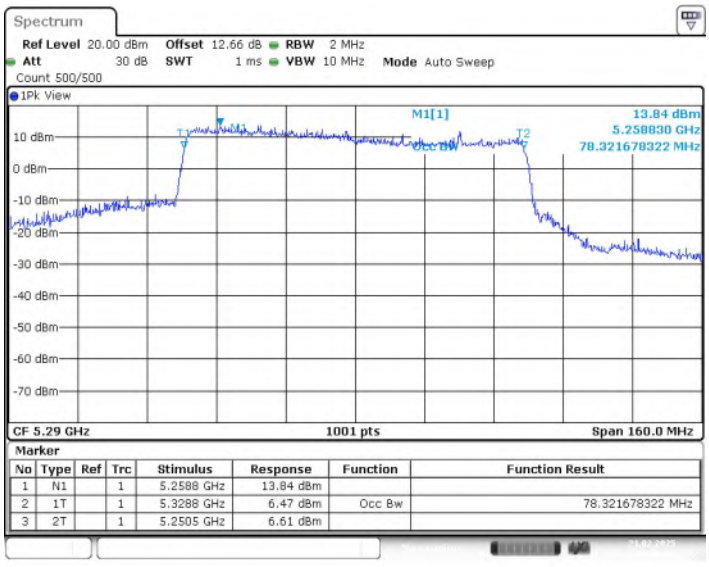


Fig. 20 99% Occupied Bandwidth (802.11ax-HE80, 5290MHz)

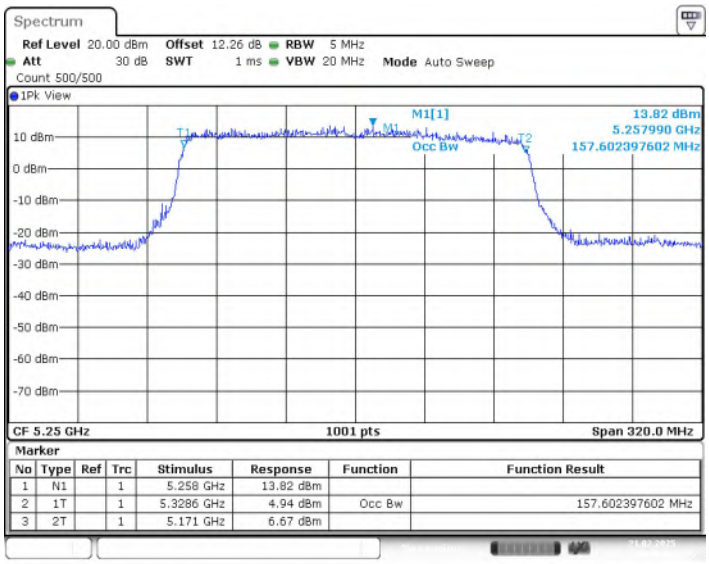


Fig. 21 99% Occupied Bandwidth (802.11ax-HE160, 5250MHz)

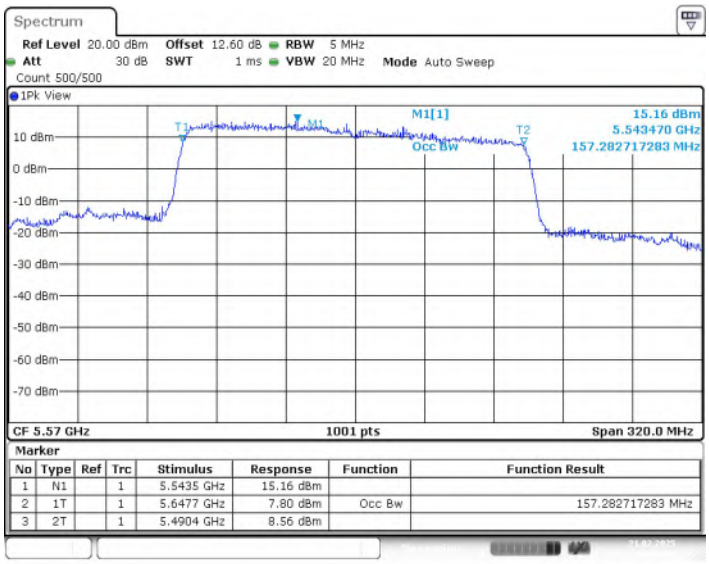


Fig. 22 99% Occupied Bandwidth (802.11ax-HE160, 5570MHz)

A.7. Dynamic Frequency Selection

The EUT is Client without radar detection (only support client mode).

Measurement of method: See KDB 905462-D02.

Measurement Limit:

Standard	Test Items	Limit
FCC 47 CFR Part 15.407 (h)	Channel Move Time	< 10 s
	Channel Closing Transmission Time	< 200 ms + 60 ms
	Non-Occupancy Period	> 1800 s

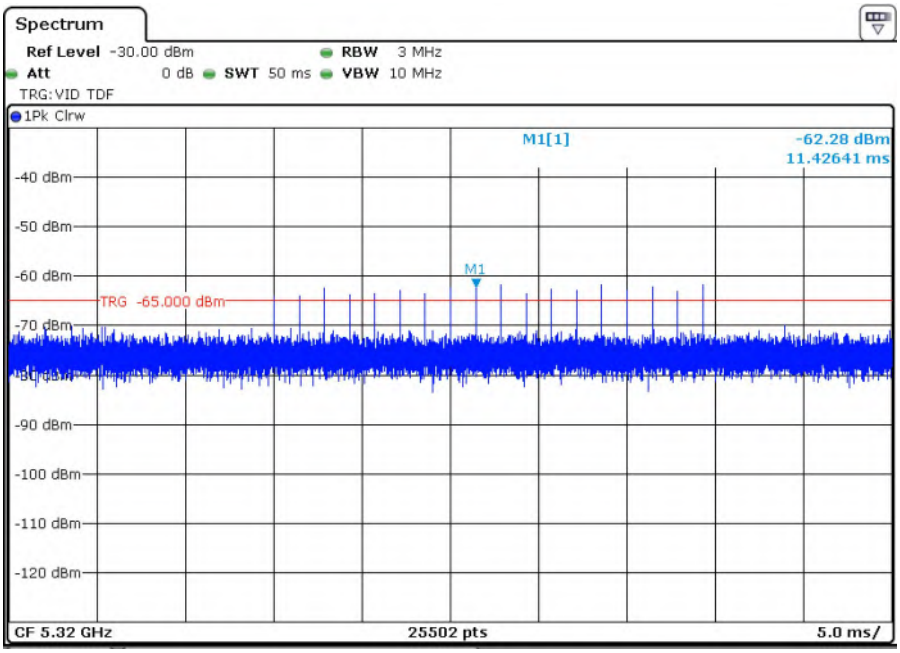
The measurement is made according to KDB 905462.

1). Parameters of DFS test signal:
Interference threshold values, master or client incorporation in service monitoring. For device Power less than 23dBm (E.I.R.P.), the threshold level is -62 dBm at the antenna port after Correction for antenna gain and procedural adjustments.
Because of conducted measurement performed, the calibration power from radar signal generator to antenna port of DFS test equipment is -62 dBm.

Maximum Transmit Power	Value
> 200 mW	-64 dBm
< 200 mW	-62 dBm

2). Parameters of the reference DFS test signal:

Pulse width W (μs)	Pulse repetition frequency PRF (PPS)	Pulses per burst (PPB)
1	700	18



Radar Signal (Type 0)

Measurement Results:

Channel Move Time & Channel Closing Transmission Time:

Mode	Frequency (MHz)	Test Results	Conclusion
802.11a	5320MHz(Ch64)	Fig.23	**P**
802.11ac-VHT160	5570MHz(Ch114)	Fig.24	**P**

Non-Occupancy Period:

Mode	Frequency (MHz)	Test Results	Conclusion
802.11a	5320MHz(Ch64)	Fig.25	**P**
802.11ac-VHT160	5570MHz(Ch114)	Fig.26	**P**

See below for test graphs.

Conclusion: PASS

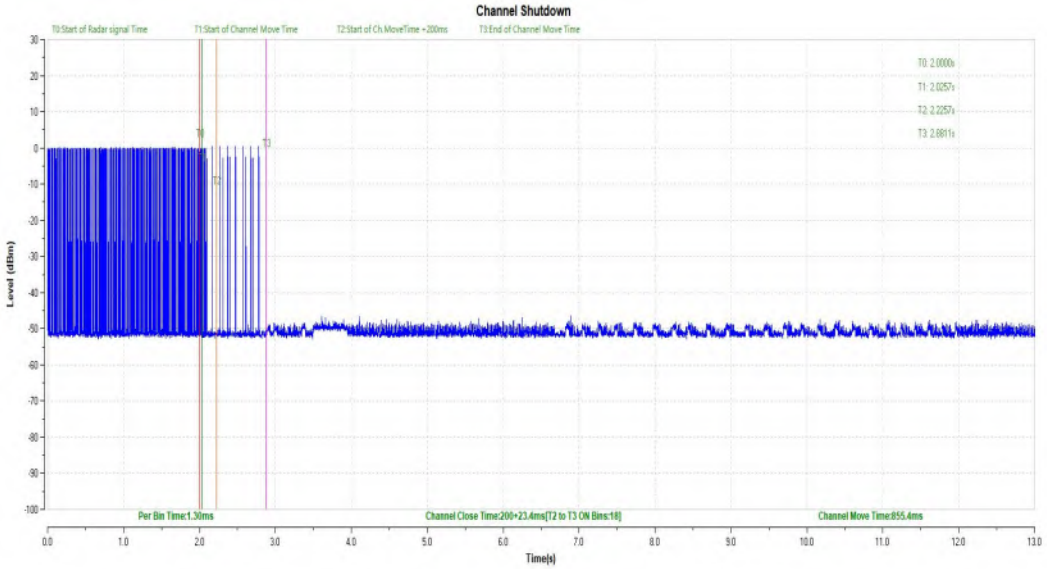


Fig. 23 Channel Move Time & Channel Closing Transmission Time (802.11a Frequency Band: 5250MHz ~ 5350MHz)

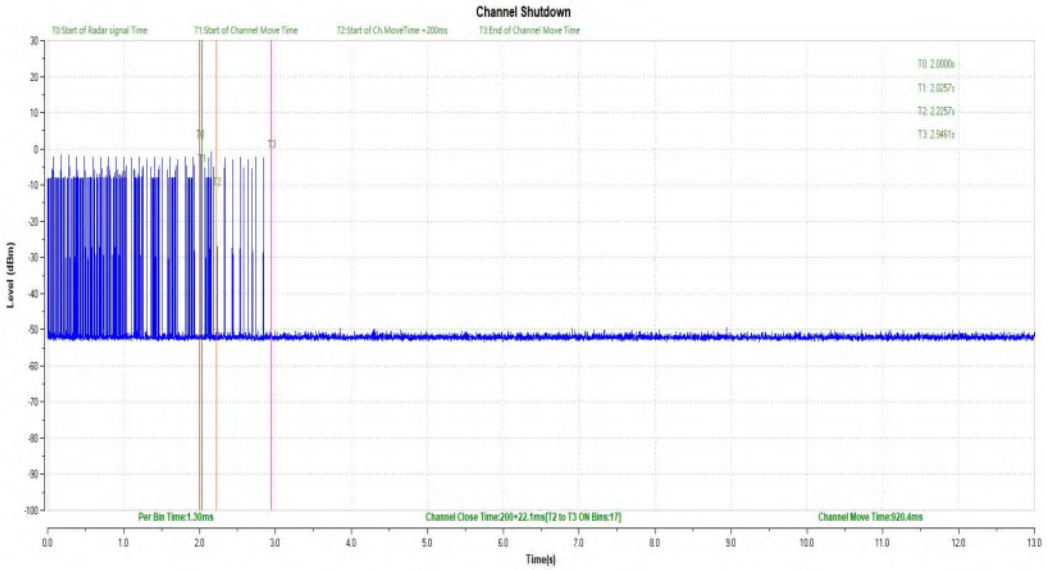


Fig. 24 Channel Move Time & Channel Closing Transmission Time (802.11ac-VHT160 Frequency Band: 5470MHz~5725MHz)

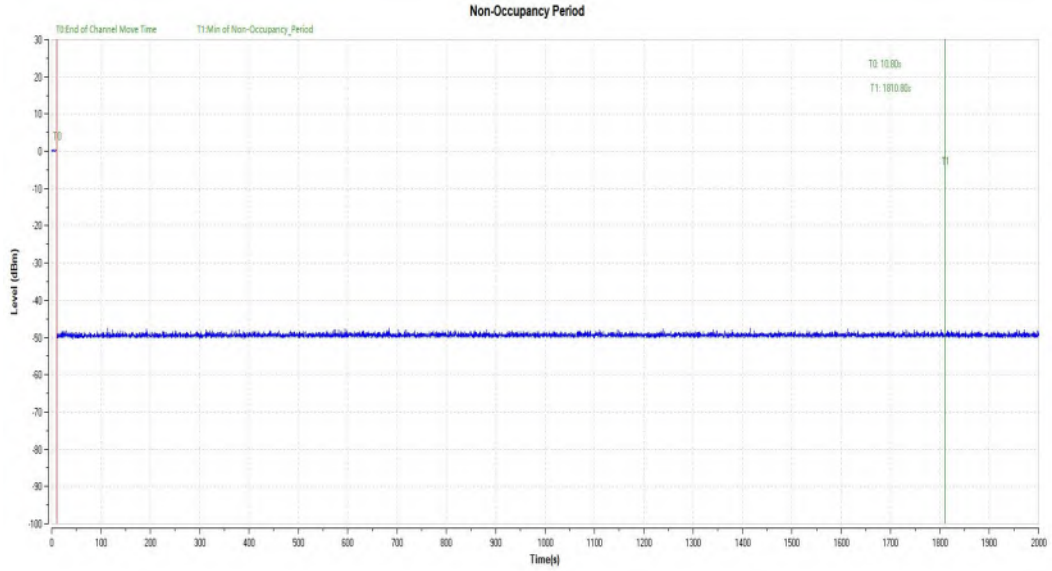


Fig. 25 Non-Occupancy Period (802.11a Frequency Band: 5250MHz ~ 5350MHz)

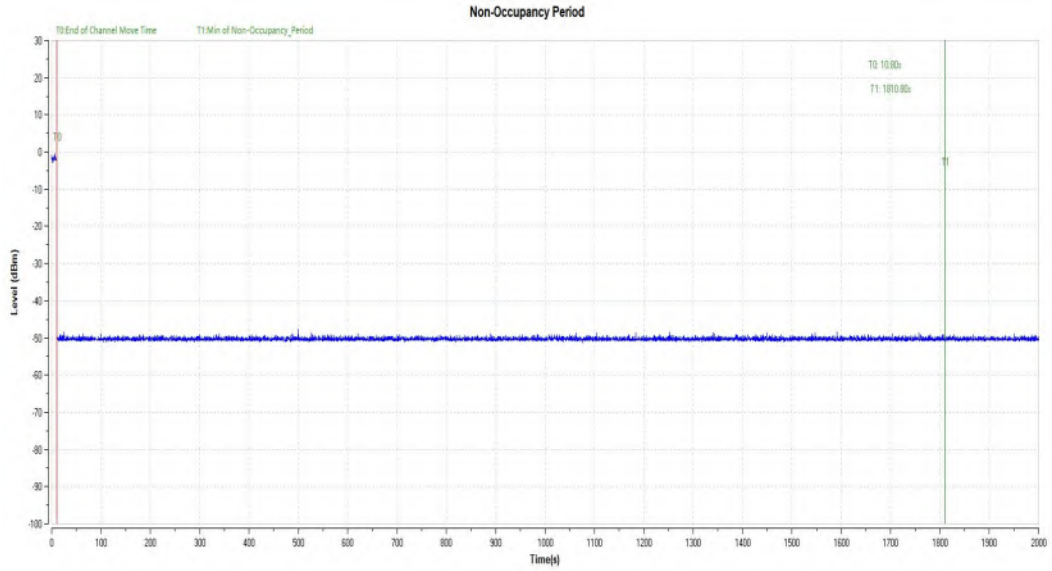


Fig. 26 Non-Occupancy Period (802.11ac-VHT160 Frequency Band: 5470MHz~5725MHz)

A.8. Band Edges Compliance

Method of Measurement: See ANSI C63.10-clause 6.10.

Measurement Limit:

Standard	Limit (dBμV/m)	
FCC 47 CFR Part 15.209	Peak	74
	Average	54

The measurement is made according to KDB 789033

In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

Measurement Result:

Mode	Frequency (MHz)	Test Results	Conclusion
802.11ax-HE20	5180MHz(CH36)	Fig.27	**P**
	5320MHz(CH64)	Fig.28	**P**
	5500MHz(CH100)	Fig.29	**P**
	5700MHz(CH140)	Fig.30	**P**
	5745MHz(CH149)	Fig.31	**P**
	5825MHz(CH165)	Fig.32	**P**
802.11ax-HE40	5190MHz(CH38)	Fig.33	**P**
	5310MHz(CH62)	Fig.34	**P**
	5510MHz(CH102)	Fig.35	**P**
	5670MHz(CH134)	Fig.36	**P**
	5755MHz(CH151)	Fig.37	**P**
	5795MHz(CH159)	Fig.38	**P**
802.11ax-HE80	5210MHz(CH42)	Fig.39	**P**
	5290MHz(CH58)	Fig.40	**P**
	5530MHz(CH106)	Fig.41	**P**
	5610MHz(Ch122)	Fig.42	**P**
	5775MHz(CH155)	Fig.43	**P**
802.11ax-HE160	5250MHz(CH50)	Fig.44	**P**
	5570MHz(CH114)	Fig.45	**P**

Between SISO and MIMO, the MIMO of 11ax is the worst type.

See below for test graphs.

Conclusion: PASS

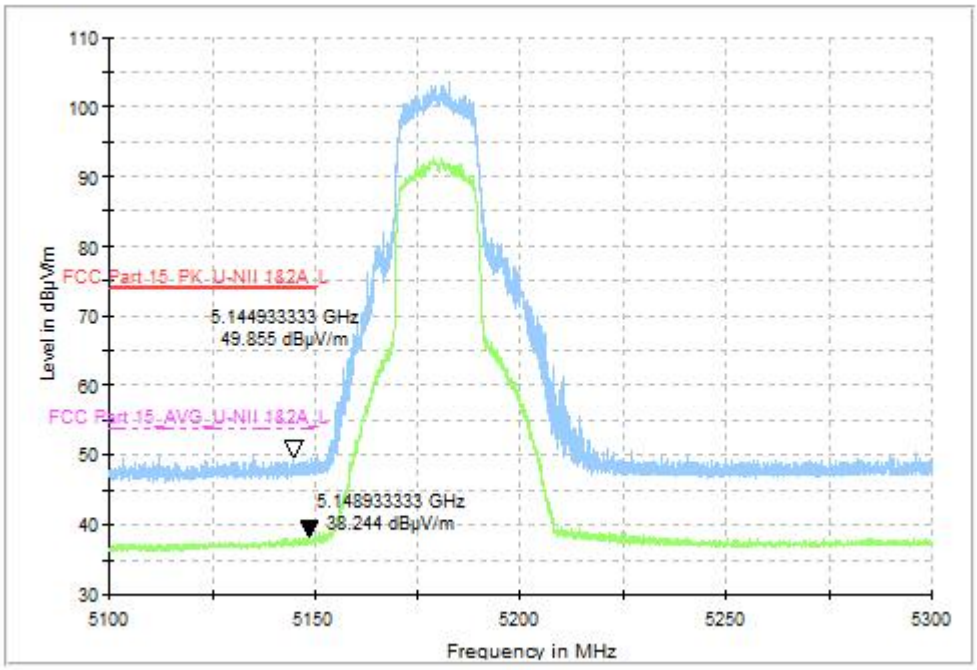


Fig. 27 Band Edges, CH36 5180MHz, MIMO

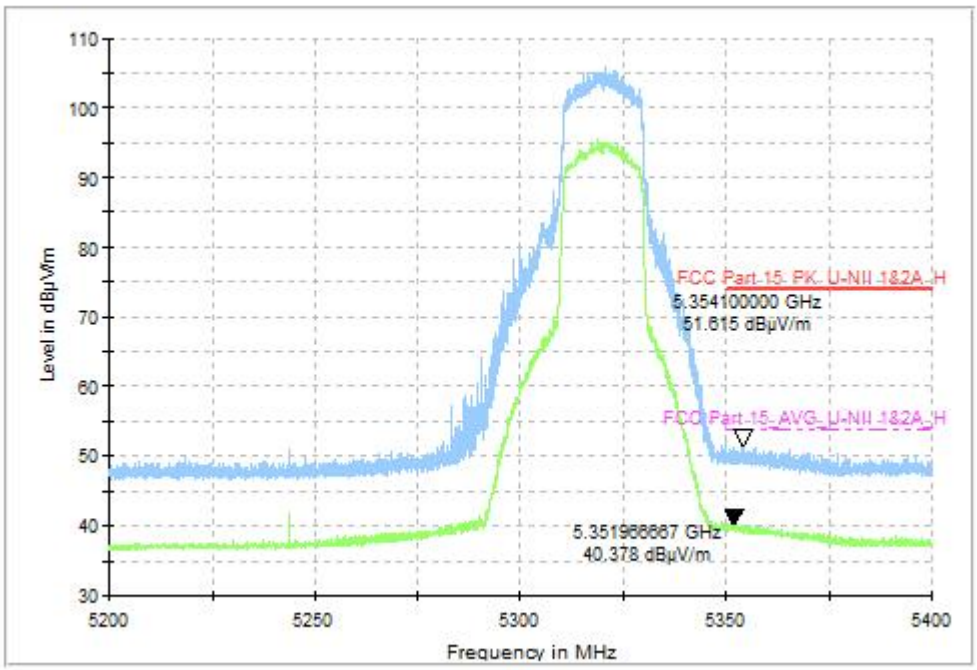


Fig. 28 Band Edges CH64 5320MHz, MIMO

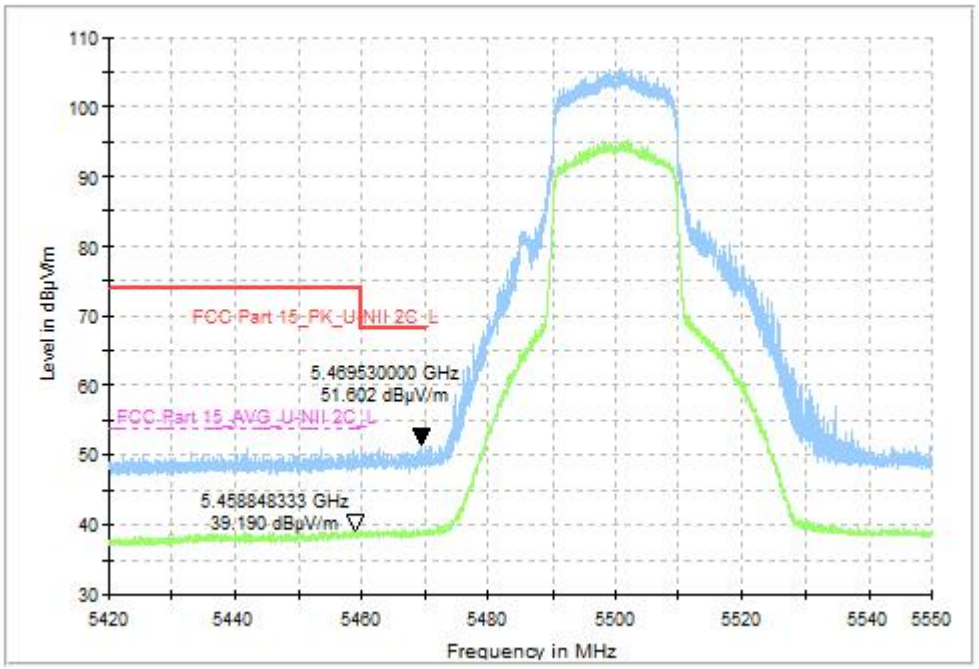


Fig. 29 Band Edges, CH100 5500MHz, MIMO

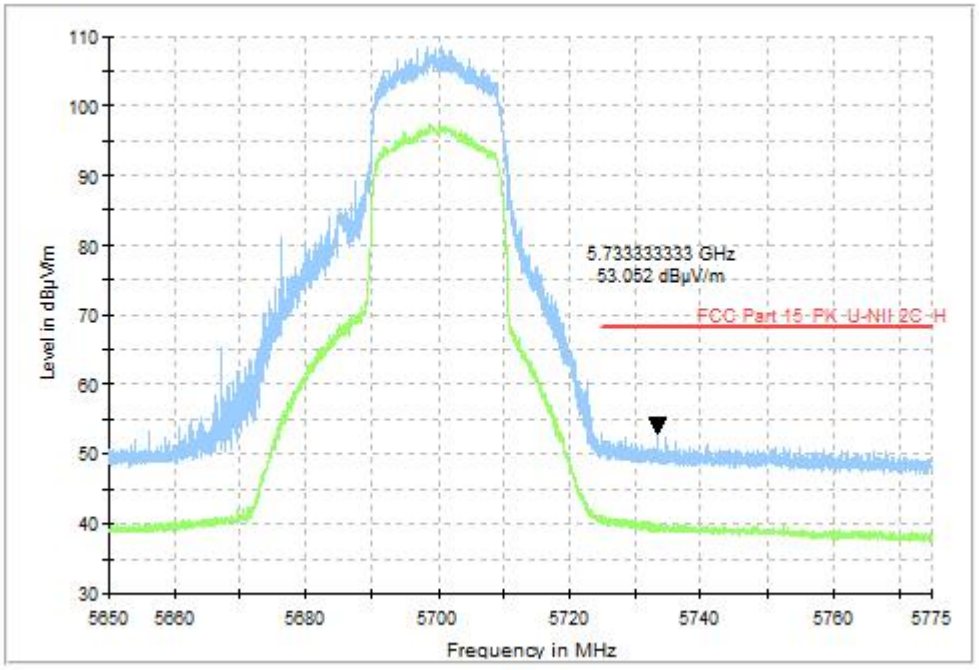


Fig. 30 Band Edges, CH140 5700MHz, MIMO

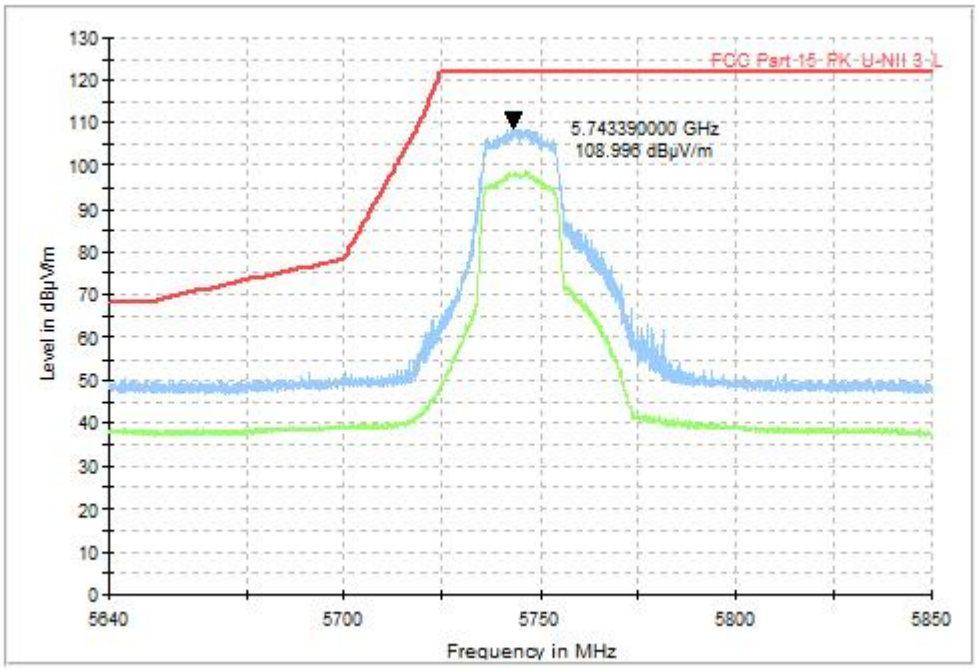


Fig. 31 Band Edges, CH149 5745MHz, MIMO

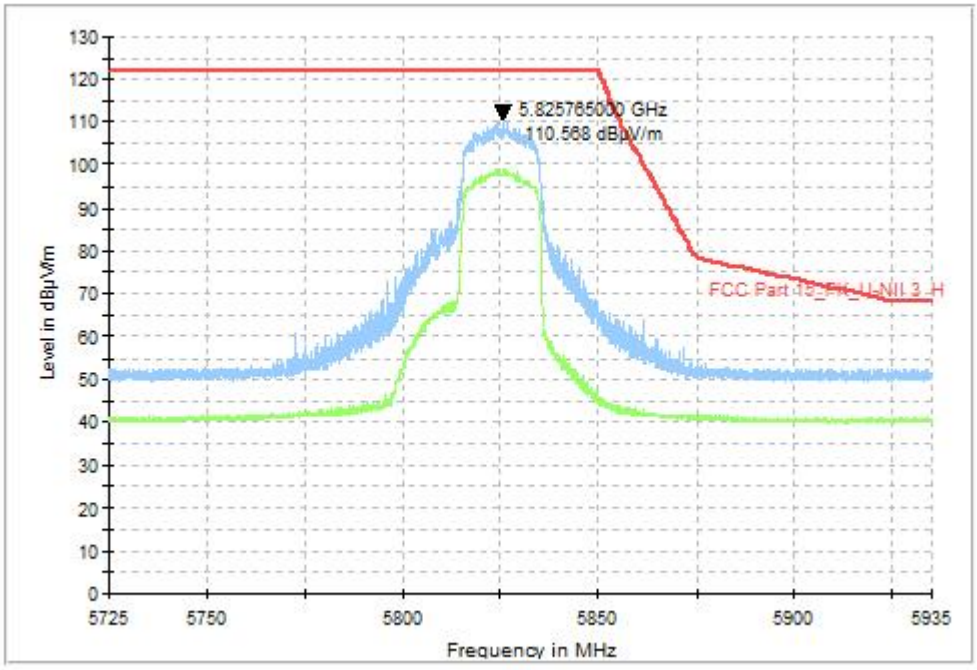


Fig. 32 Band Edges, CH165 5825MHz, MIMO

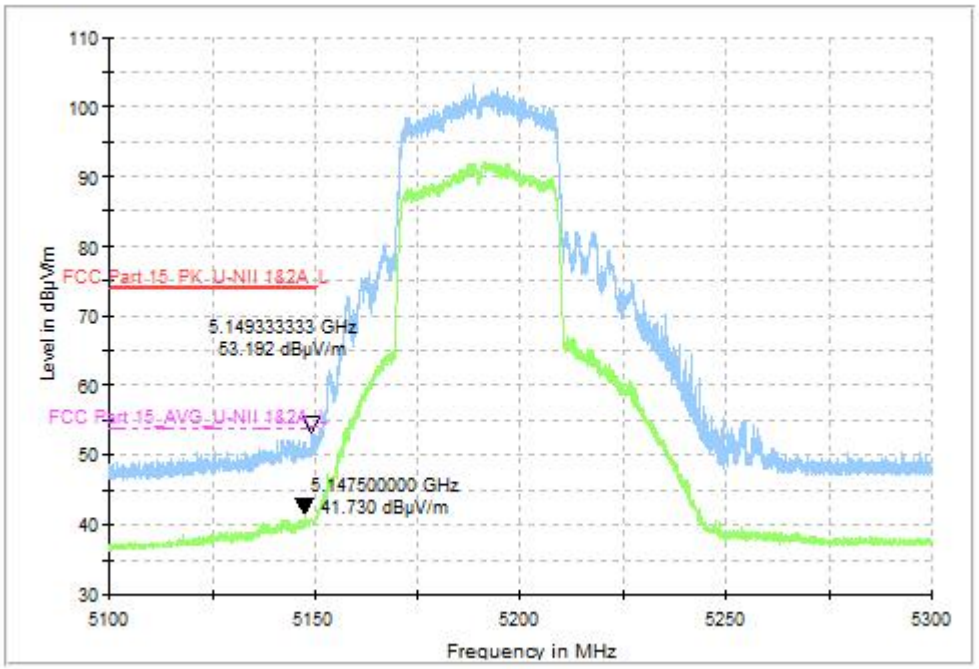


Fig. 33 Band Edges, CH38 5190MHz, MIMO

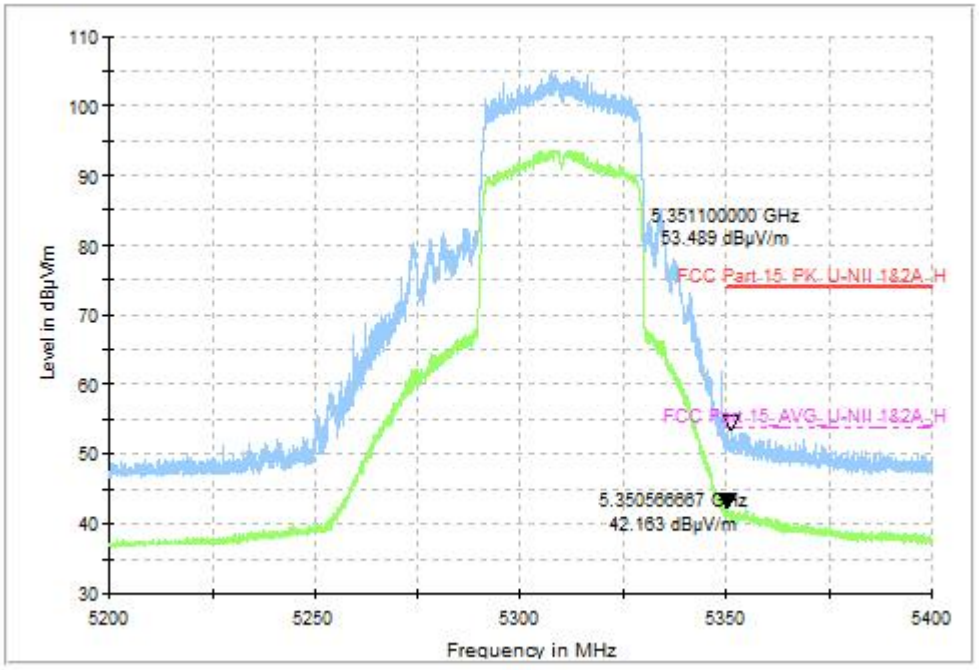


Fig. 34 Band Edges, CH62 5310MHz, MIMO

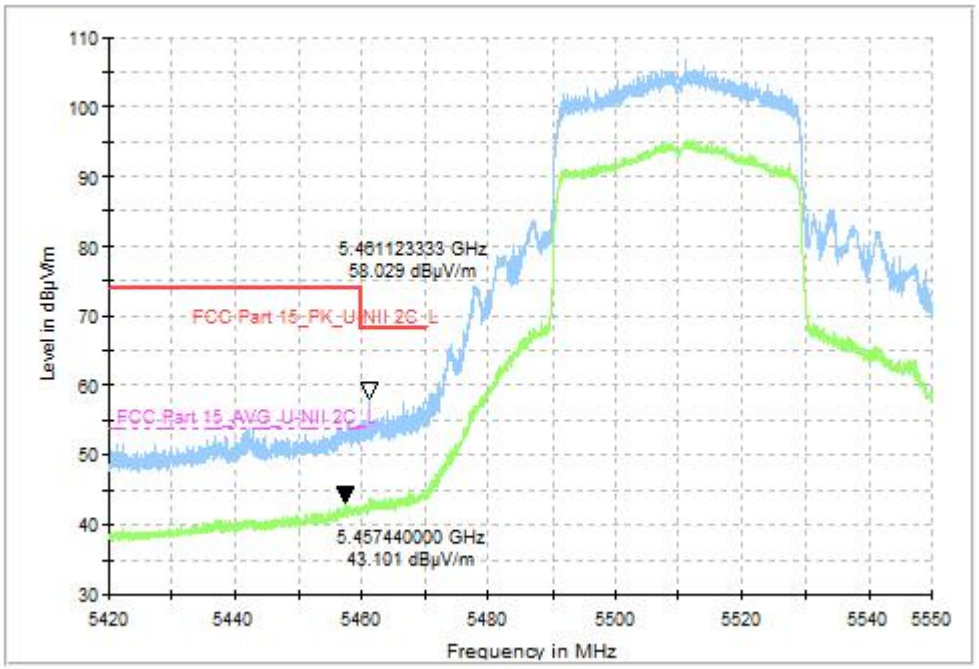


Fig. 35 Band Edges, CH102 5510MHz, MIMO

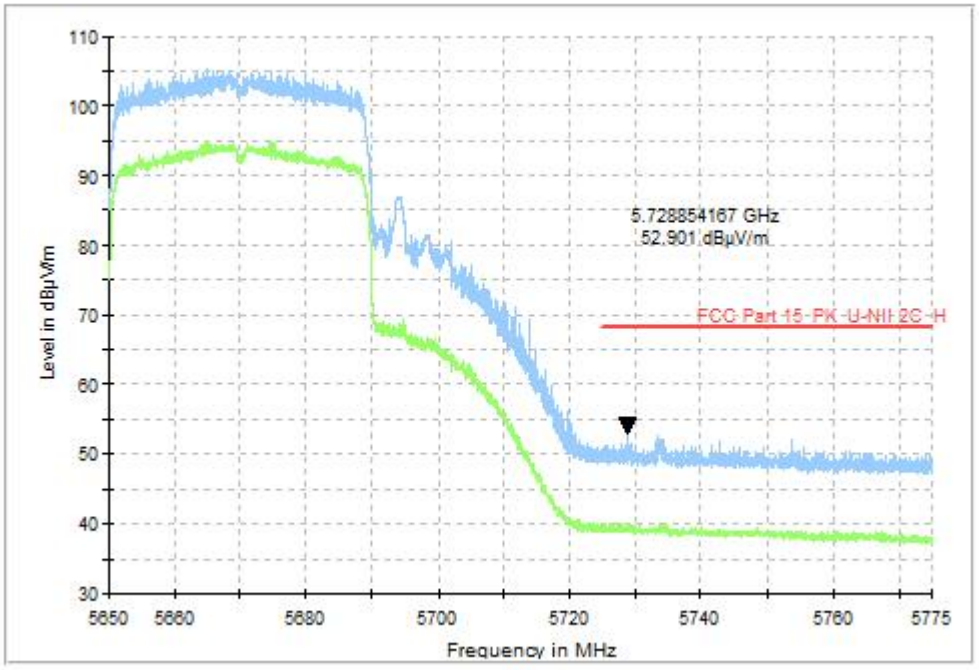


Fig. 36 Band Edges, CH134 5670MHz, MIMO

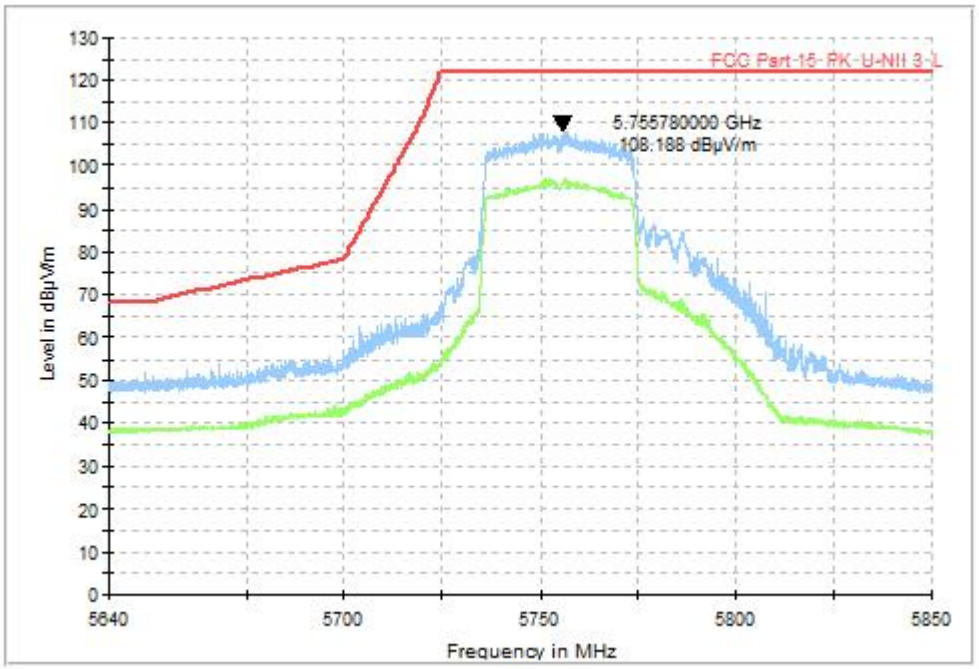


Fig. 37 Band Edges, CH151 5755MHz, MIMO

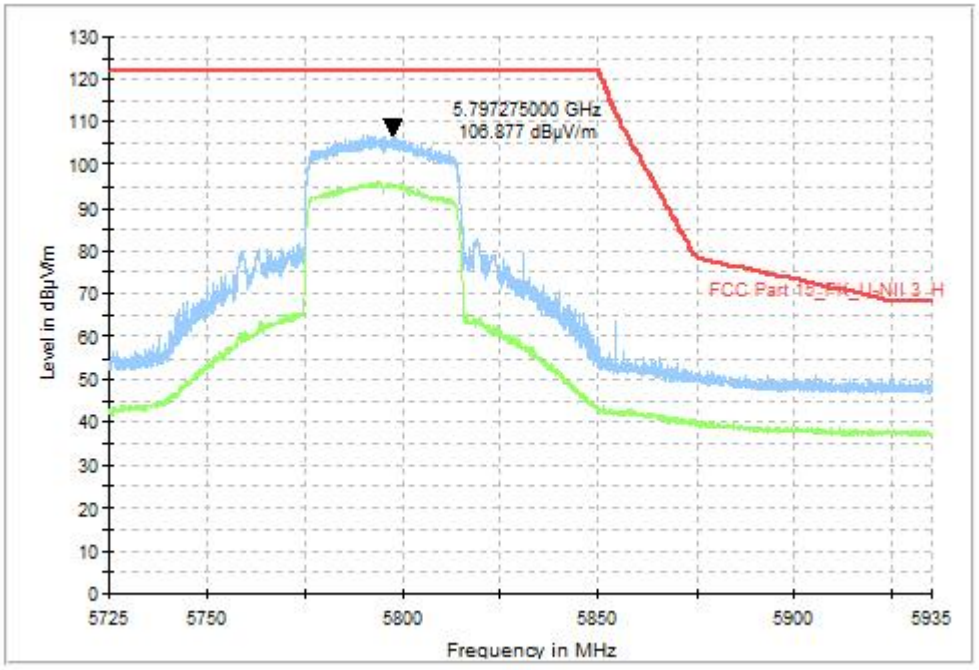


Fig. 38 Band Edges, CH159 5795MHz, MIMO

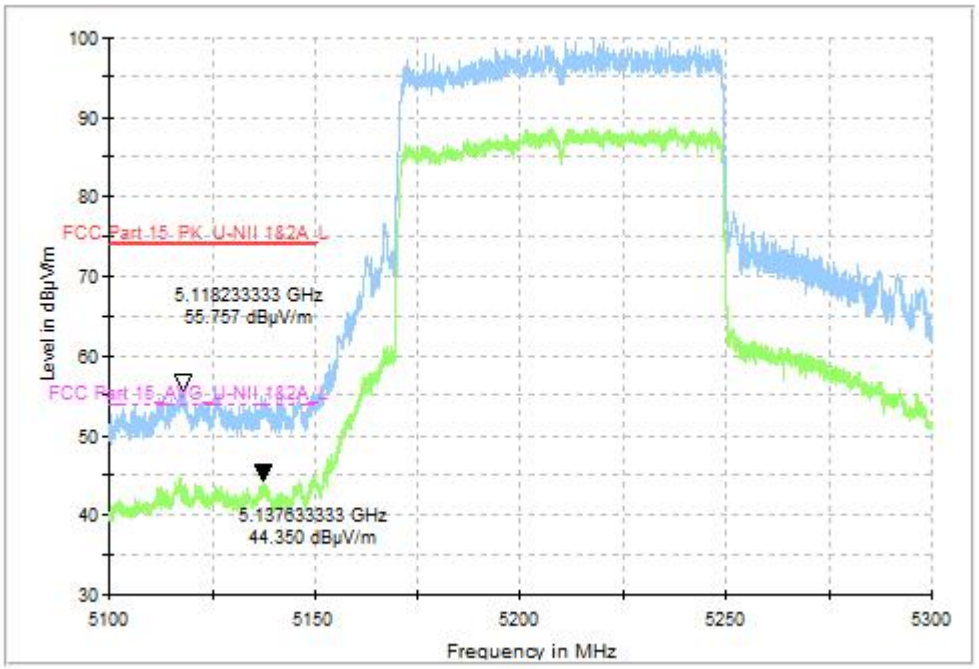


Fig. 39 Band Edges, CH42 5210MHz, MIMO

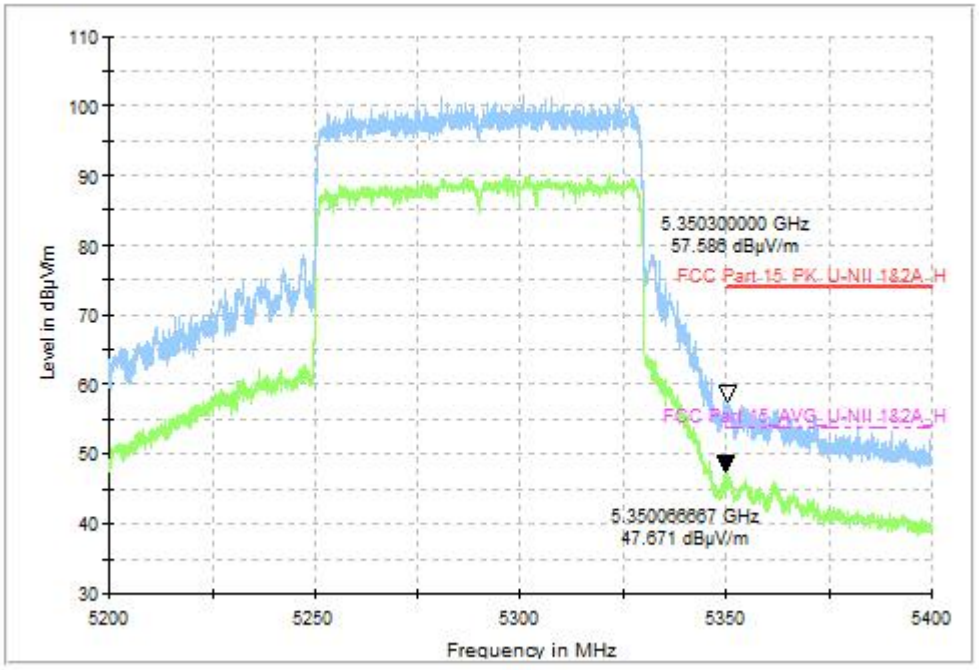


Fig. 40 Band Edges, CH58 5290MHz, MIMO

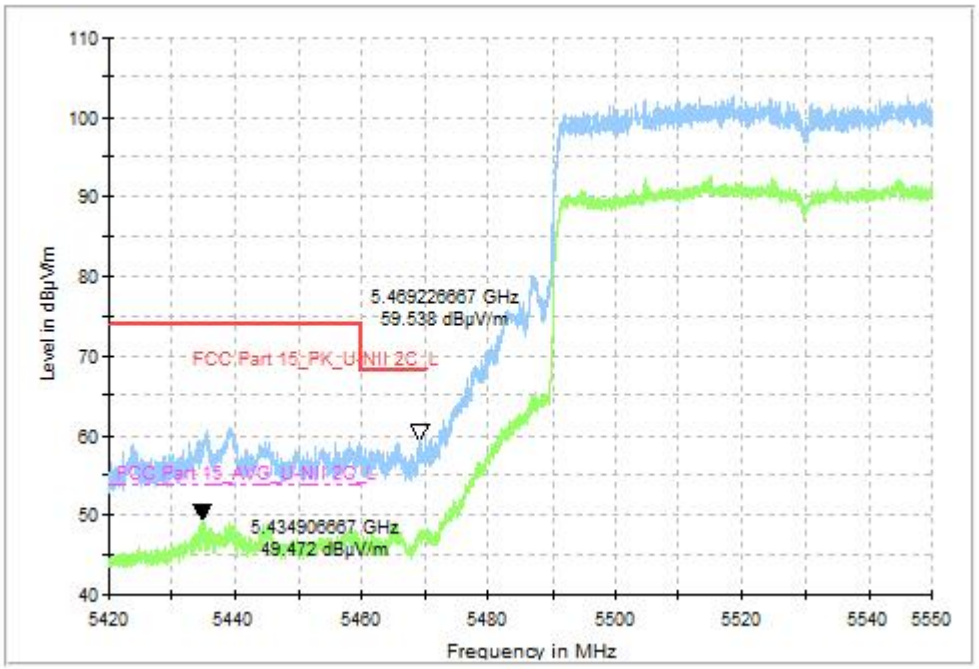


Fig. 41 Band Edges, CH106 5530MHz, MIMO

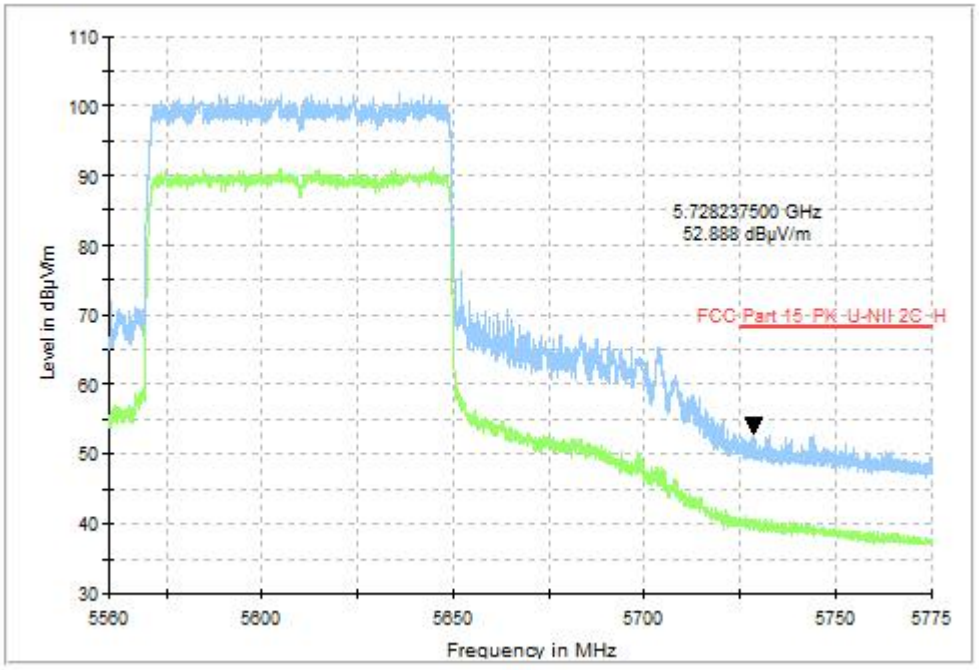


Fig. 42 Band Edges, CH122 5610MHz, MIMO

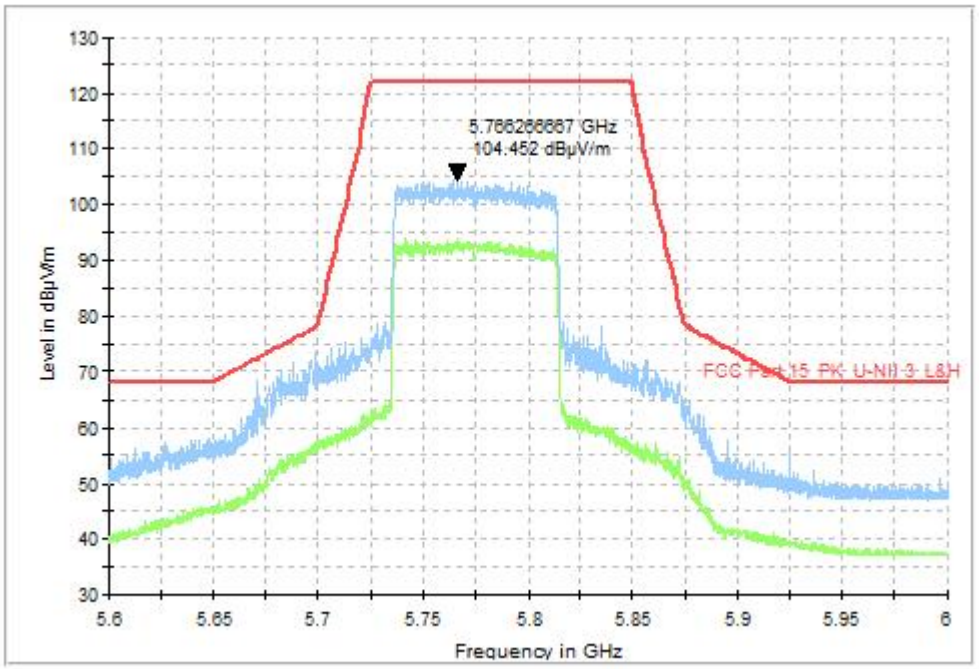


Fig. 43 Band Edges, CH155 5775MHz, MIMO

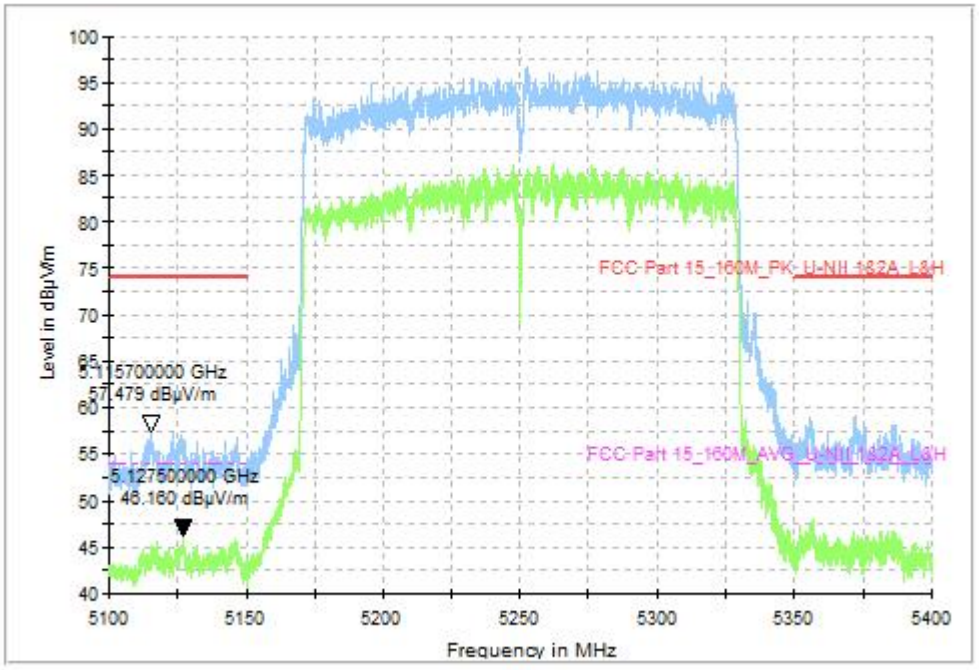


Fig. 44 Band Edges, CH50 5250MHz, MIMO

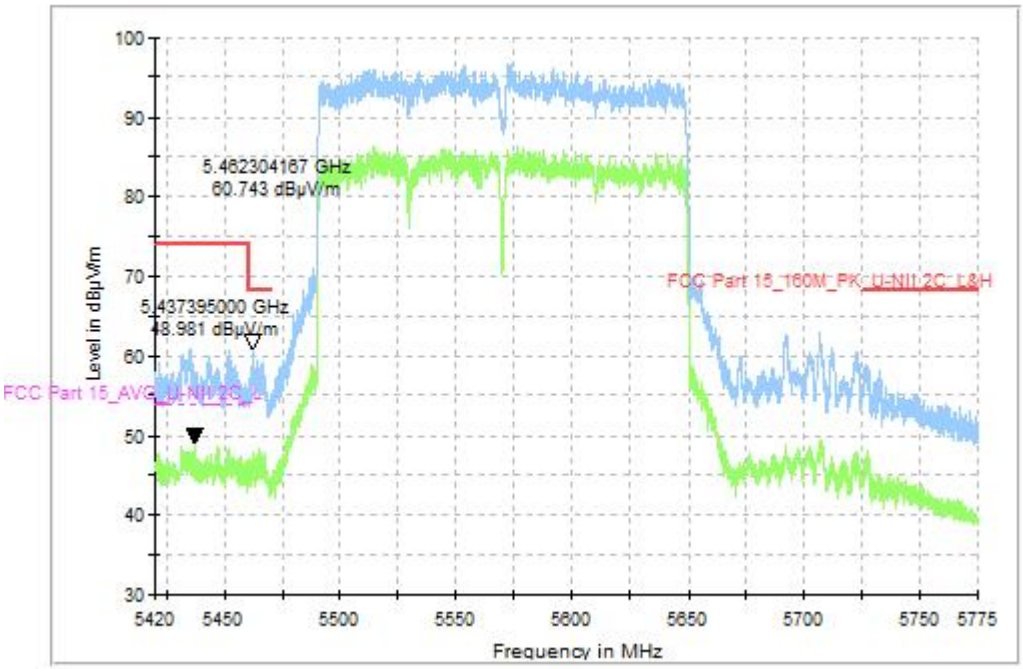


Fig. 45 Band Edges, CH114 5570MHz, MIMO

A.9. Transmitter Spurious Emission

Measurement of method: See KDB 789033 D02 v02r01, Section G.3, G.4, G.5 and G.6.

Measurement Limit:

Standard	Limit (dBμV/m)	
FCC 47 CFR Part 15.209	Peak	74
	Average	54

The measurement is made according to KDB 789033.

In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

Limit in restricted band:

Frequency of emission (MHz)	Field strength (dBμV/m)	Measurement distance (m)
30-88	40.0	3
88-216	43.5	3
216-960	46.0	3
Above 960	54.0	3

Note: For frequency range below 960MHz, the limit in 15.209 is defined in 10m test distance. The limit used above is calculated from 10m to 3m.

The measurement results include the horizontal polarization and vertical polarization measurements. For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases were recorded in this report.

Measurement Result:

Mode	Frequency (MHz)	Frequency Range	Test Results	Conclusion
802.11ax -HE20	5180MHz(CH36)	1 GHz ~18 GHz	Fig.46	**P**
	5200MHz(CH40)	1 GHz ~18 GHz	Fig.47	**P**
	5240MHz(CH48)	1 GHz ~18 GHz	Fig.48	**P**
	5260MHz(CH52)	1 GHz ~18 GHz	Fig.49	**P**
	5280MHz(CH56)	1 GHz ~18 GHz	Fig.50	**P**
	5320MHz(CH64)	1 GHz ~18 GHz	Fig.51	**P**
	5500MHz(CH100)	1 GHz ~18 GHz	Fig.52	**P**
	5600MHz(CH120)	1 GHz ~18 GHz	Fig.53	**P**
	5700MHz(CH140)	1 GHz ~18 GHz	Fig.54	**P**
	5745MHz(CH149)	1 GHz ~18 GHz	Fig.55	**P**
	5785MHz(CH157)	1 GHz ~18 GHz	Fig.56	**P**
	5825MHz(CH165)	1 GHz ~18 GHz	Fig.57	**P**
802.11ax -HE40	5190MHz(CH38)	1 GHz ~18 GHz	Fig.58	**P**
	5230MHz(CH46)	1 GHz ~18 GHz	Fig.59	**P**
	5270MHz(CH54)	1 GHz ~18 GHz	Fig.60	**P**
	5310MHz(CH62)	1 GHz ~18 GHz	Fig.61	**P**

	5510MHz(CH102)	1 GHz ~18 GHz	Fig.62	**P**
	5580MHz(CH118)	1 GHz ~18 GHz	Fig.63	**P**
	5670MHz(CH134)	1 GHz ~18 GHz	Fig.64	**P**
	5755MHz(CH151)	1 GHz ~18 GHz	Fig.65	**P**
	5795MHz(CH159)	1 GHz ~18 GHz	Fig.66	**P**
802.11ax -HE80	5210MHz(CH42)	1 GHz ~18 GHz	Fig.67	**P**
	5290MHz(CH58)	1 GHz ~18 GHz	Fig.68	**P**
	5530MHz(CH106)	1 GHz ~18 GHz	Fig.69	**P**
	5610MHz(CH122)	1 GHz ~18 GHz	Fig.70	**P**
	5775MHz(CH155)	1 GHz ~18 GHz	Fig.71	**P**
802.11ax -HE160	5250MHz(CH50)	1 GHz ~18 GHz	Fig.72	**P**
	5570MHz(CH114)	1 GHz ~18 GHz	Fig.73	**P**
All channels		30 MHz ~1 GHz	Fig.74	**P**
		18 GHz ~26.5 GHz	Fig.75	**P**
		26.5GHz~40GHz	Fig.76	**P**

Between SISO and MIMO, the MIMO of 11ax is the worst type.

Worst Case Result:

802.11ax-HE20 CH157

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	Corr. (dB/m)
7429.500000	45.32	74.00	28.68	10.0	1000.000
8231.000000	45.37	74.00	28.63	10.0	1000.000
11224.500000	48.95	74.00	25.05	10.0	1000.000
11862.500000	49.97	74.00	24.03	10.0	1000.000
15933.500000	53.83	74.00	20.17	10.0	1000.000
17933.000000	57.94	74.00	16.06	10.0	1000.000

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	Corr. (dB/m)
7429.500000	34.63	54.00	19.37	10.0	1000.000
8231.000000	34.99	54.00	19.01	10.0	1000.000
11224.500000	38.63	54.00	15.37	10.0	1000.000
11862.500000	39.57	54.00	14.43	10.0	1000.000
15933.500000	43.37	54.00	10.63	10.0	1000.000
17933.000000	47.31	54.00	6.69	10.0	1000.000

802.11ax-HE40 CH159

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	Corr. (dB/m)
7438.500000	45.31	74.00	28.69	10.0	1000.000
8252.000000	45.76	74.00	28.24	10.0	1000.000
11215.500000	49.95	74.00	24.05	10.0	1000.000
11941.500000	49.80	74.00	24.20	10.0	1000.000
16118.000000	54.51	74.00	19.49	10.0	1000.000
17936.000000	57.91	74.00	16.09	10.0	1000.000

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	Corr. (dB/m)
7438.500000	34.56	54.00	19.44	10.0	1000.000
8252.000000	35.41	54.00	18.59	10.0	1000.000
11215.500000	38.55	54.00	15.45	10.0	1000.000
11941.500000	40.03	54.00	13.97	10.0	1000.000
16118.000000	44.07	54.00	9.93	10.0	1000.000
17936.000000	47.69	54.00	6.31	10.0	1000.000

802.11ax-HE80 CH155

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	Corr. (dB/m)
7471.000000	46.25	74.00	27.75	10.0	1000.000
8276.500000	45.75	74.00	28.25	10.0	1000.000
11154.500000	49.38	74.00	24.62	10.0	1000.000
11890.000000	50.36	74.00	23.64	10.0	1000.000
16091.000000	54.29	74.00	19.71	10.0	1000.000
17946.500000	57.70	74.00	16.30	10.0	1000.000

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	Corr. (dB/m)
7471.000000	34.87	54.00	19.13	10.0	1000.000
8276.500000	35.55	54.00	18.45	10.0	1000.000
11154.500000	39.27	54.00	14.73	10.0	1000.000
11890.000000	39.74	54.00	14.26	10.0	1000.000
16091.000000	44.21	54.00	9.79	10.0	1000.000
17946.500000	47.28	54.00	6.72	10.0	1000.000

802.11ax-HE160 CH114

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
7577.000000	45.46	74.00	28.54	10.0	1000.000
8257.000000	45.95	74.00	28.05	10.0	1000.000
11195.500000	49.70	74.00	24.30	10.0	1000.000
11895.000000	50.54	74.00	23.46	10.0	1000.000
16115.500000	54.25	74.00	19.75	10.0	1000.000
17933.000000	58.24	74.00	15.76	10.0	1000.000

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
7577.000000	34.74	54.00	19.26	10.0	1000.000
8257.000000	35.45	54.00	18.55	10.0	1000.000
11195.500000	38.90	54.00	15.10	10.0	1000.000
11895.000000	40.09	54.00	13.91	10.0	1000.000
16115.500000	44.33	54.00	9.67	10.0	1000.000
17933.000000	47.36	54.00	6.64	10.0	1000.000

Note:

A "reference path loss" is established and the A_{Rpl} is the attenuation of “reference path loss”, and including the gain of receive antenna, the gain of the preamplifier, the cable loss. P_{Mea} is the field strength recorded from the instrument. The measurement results are obtained as described below:

Result = P_{Mea} + A_{Rpl} = P_{Mea} + Cable Loss + Antenna Factor

See below for test graphs.

Conclusion: PASS

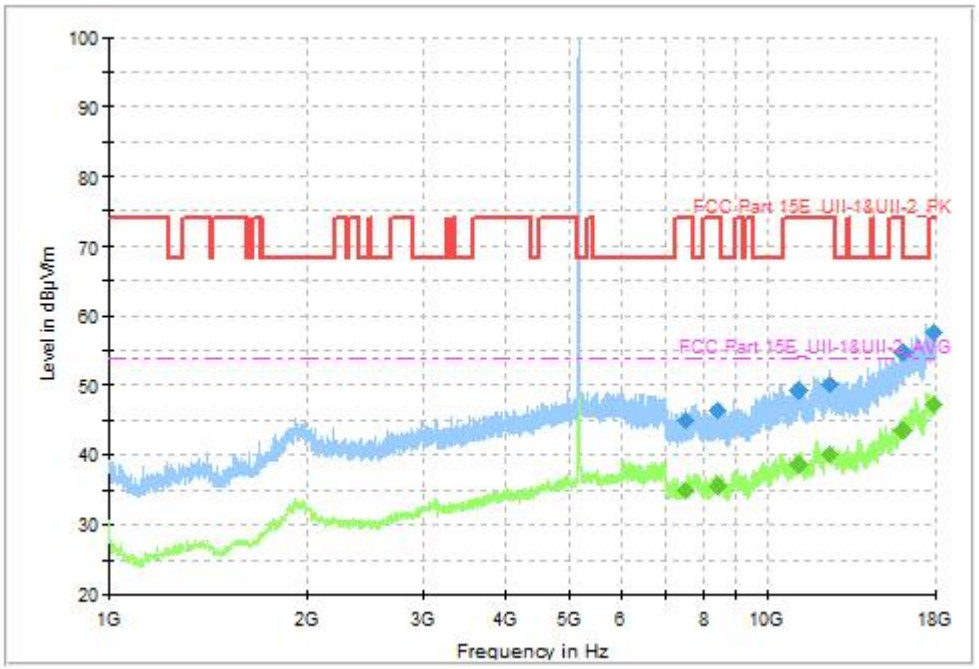


Fig. 46 Transmitter Spurious Emission (802.11ax-HE20, CH36 5180MHz, 1GHz-18GHz), MIMO

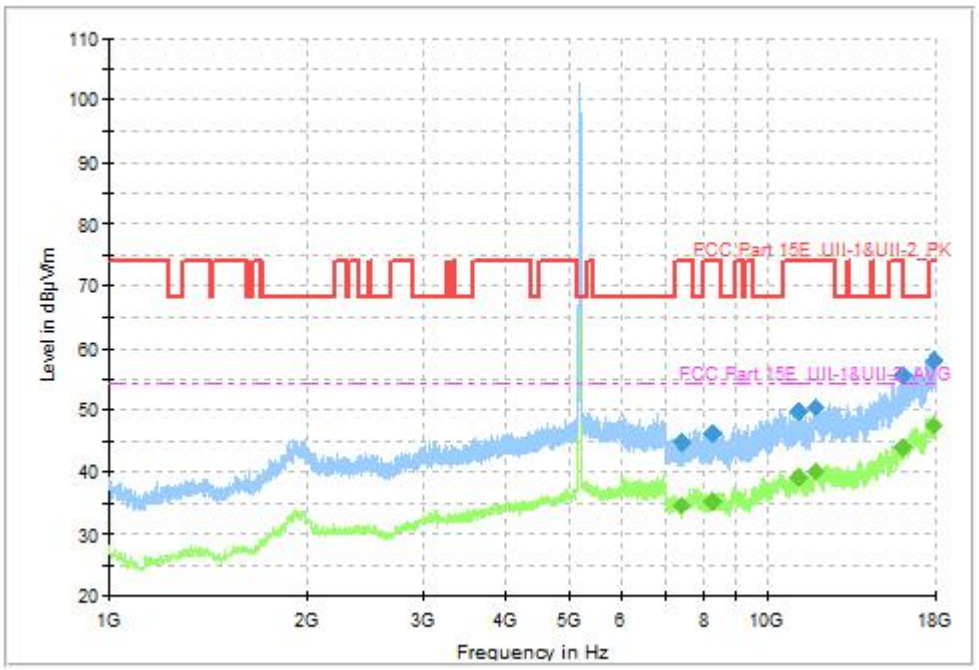


Fig. 47 Transmitter Spurious Emission (802.11ax-HE20, CH40 5200MHz, 1GHz-18GHz), MIMO

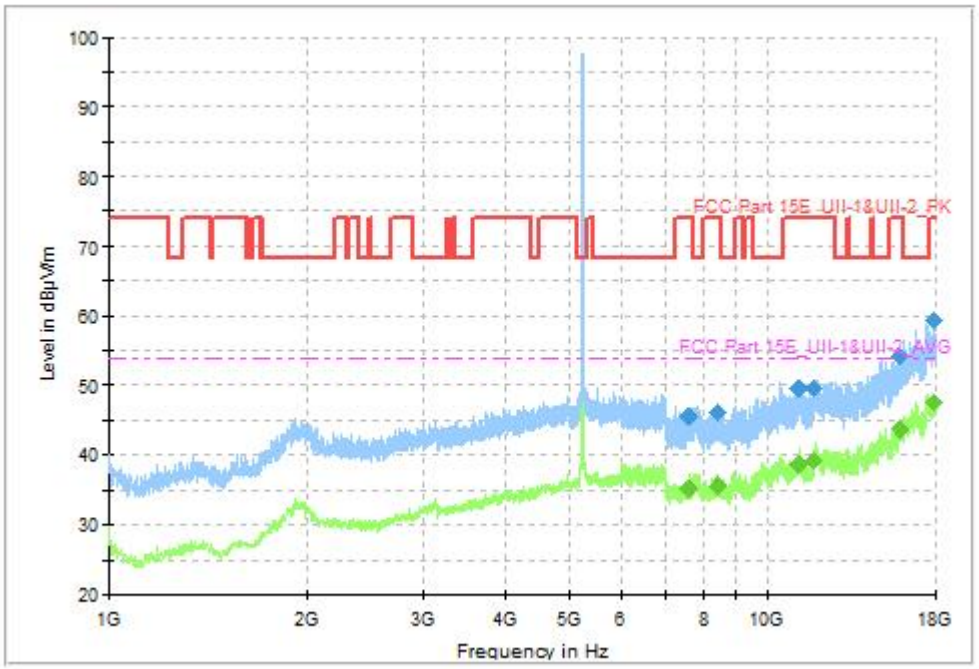


Fig. 48 Transmitter Spurious Emission (802.11ax-HE20, CH48 5240MHz, 1GHz-18GHz), MIMO

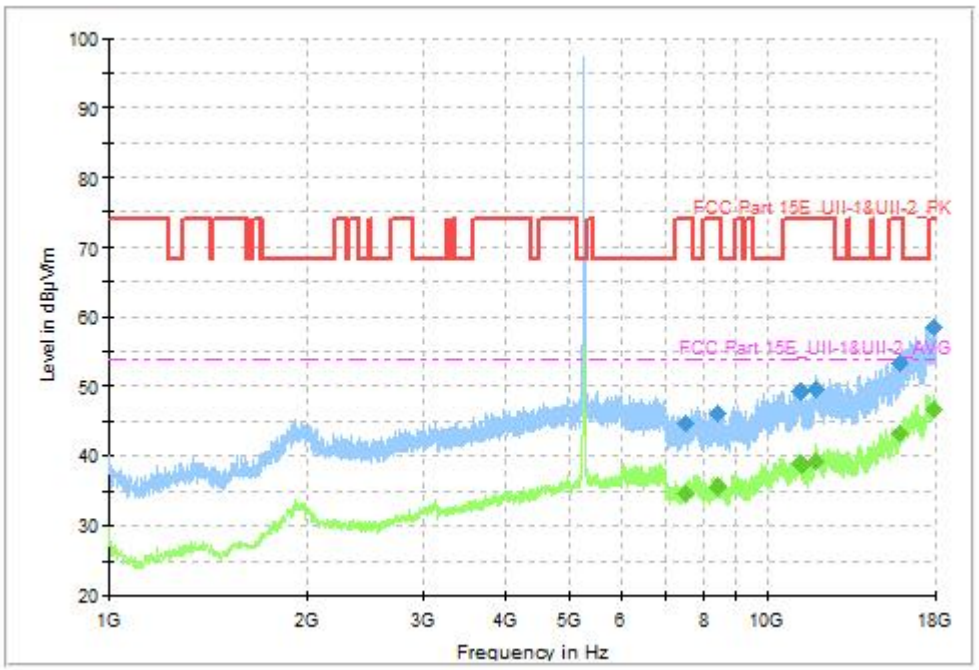


Fig. 49 Transmitter Spurious Emission (802.11ax-HE20, CH52 5260MHz, 1GHz-18GHz), MIMO

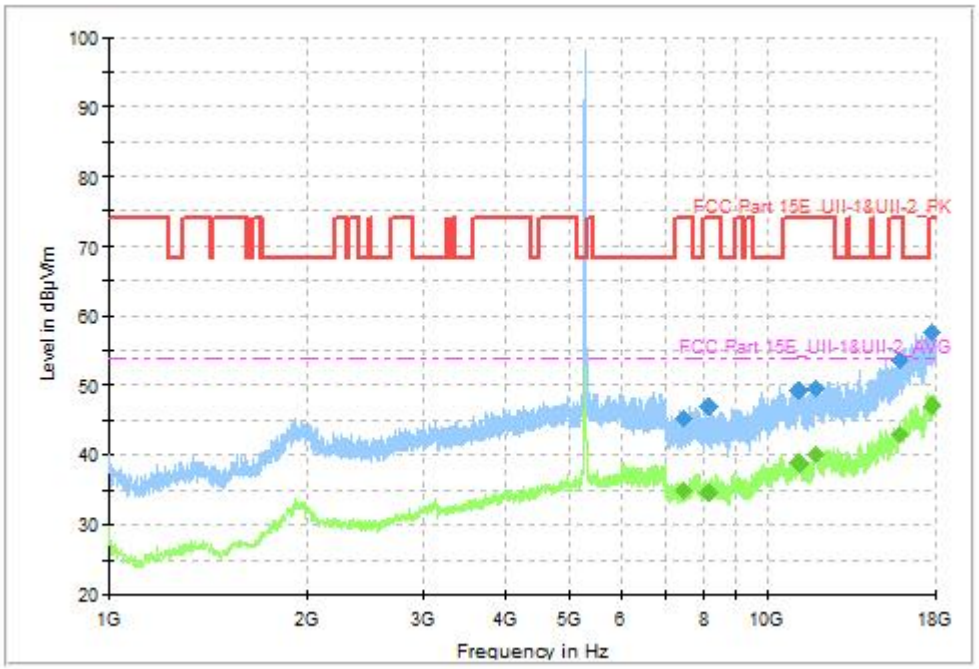


Fig. 50 Transmitter Spurious Emission (802.11ax-HE20, CH56 5280MHz, 1GHz-18GHz), MIMO

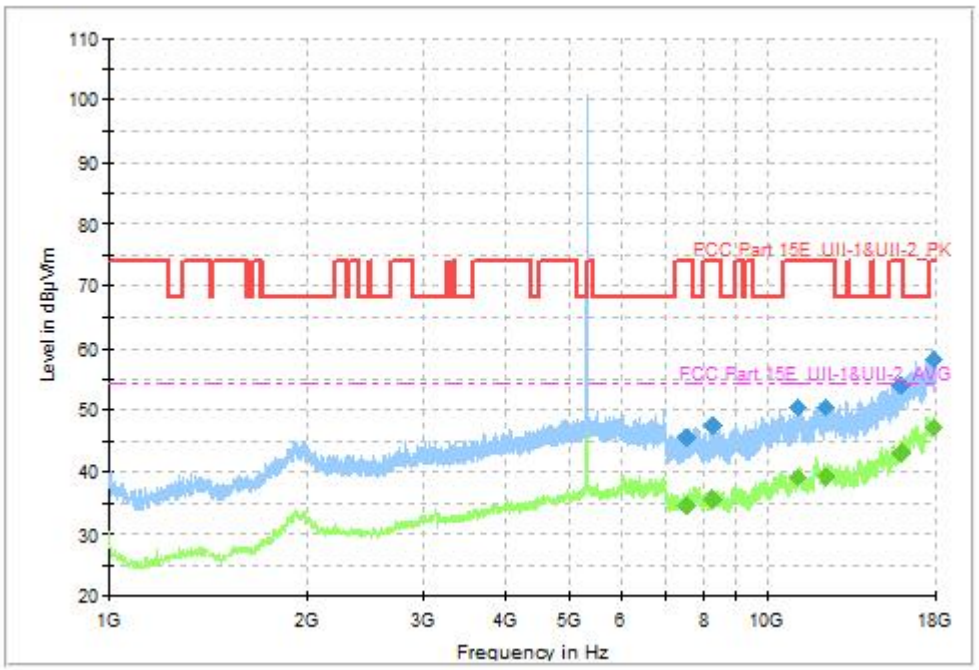


Fig. 51 Transmitter Spurious Emission (802.11ax-HE20, CH64 5320MHz, 1GHz-18GHz), MIMO

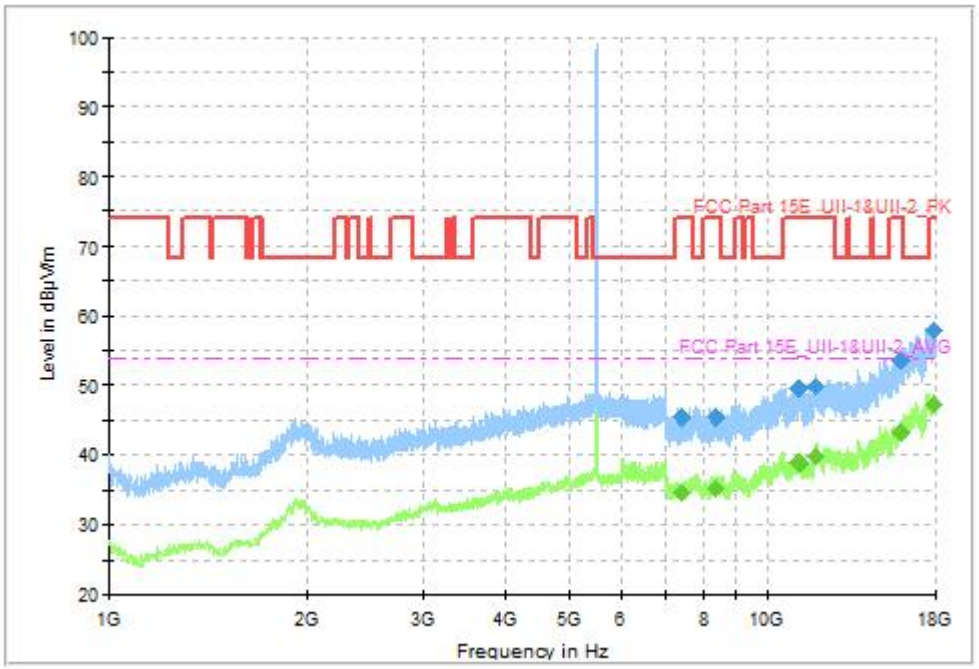


Fig. 52 Transmitter Spurious Emission (802.11ax-HE20, CH100 5500MHz, 1GHz-18GHz), MIMO

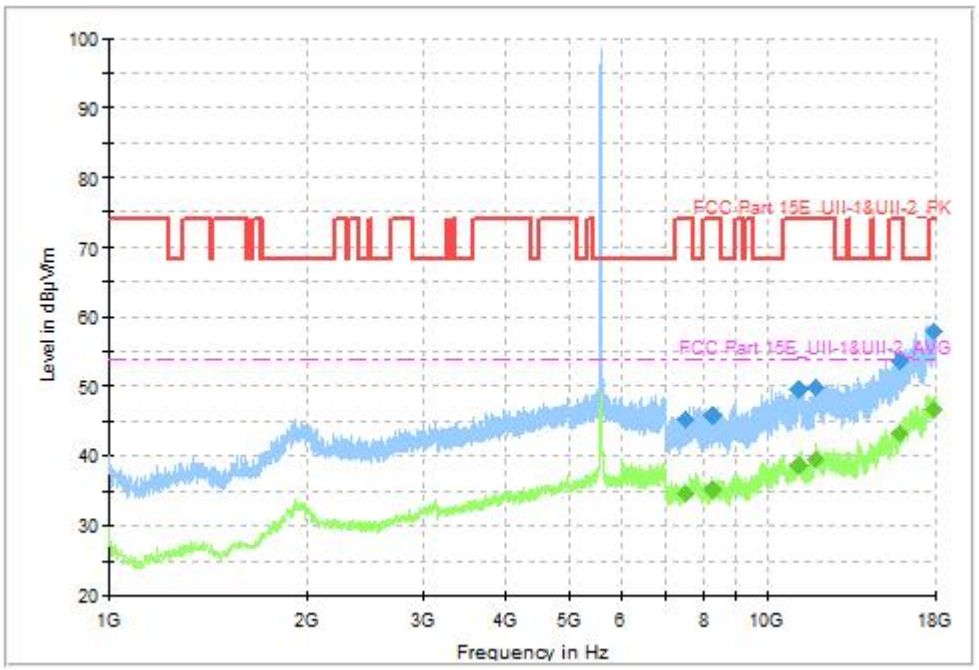


Fig. 53 Transmitter Spurious Emission (802.11ax-HE20, CH120 5600MHz, 1GHz-18GHz), MIMO

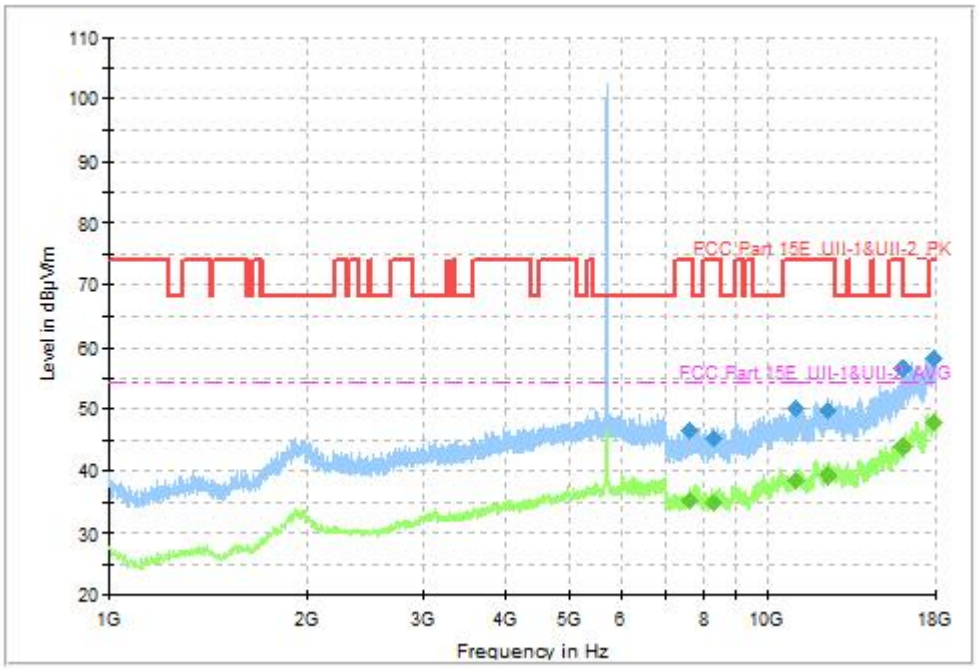


Fig. 54 Transmitter Spurious Emission (802.11ax-HE20, CH140 5700MHz, 1GHz-18GHz), MIMO

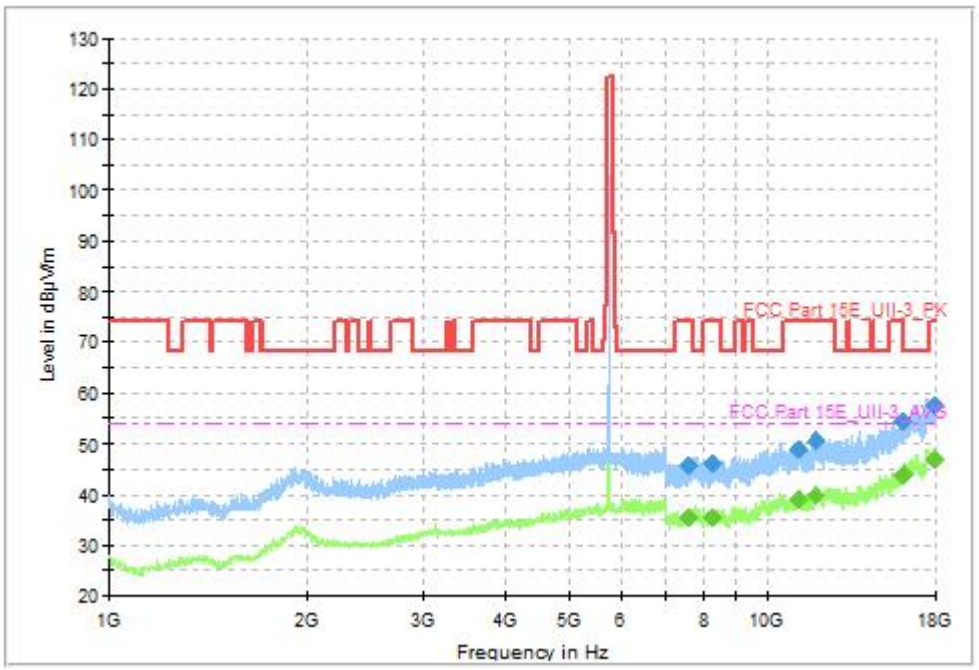


Fig. 55 Transmitter Spurious Emission (802.11ax-HE20, CH149 5745MHz, 1GHz-18GHz), MIMO

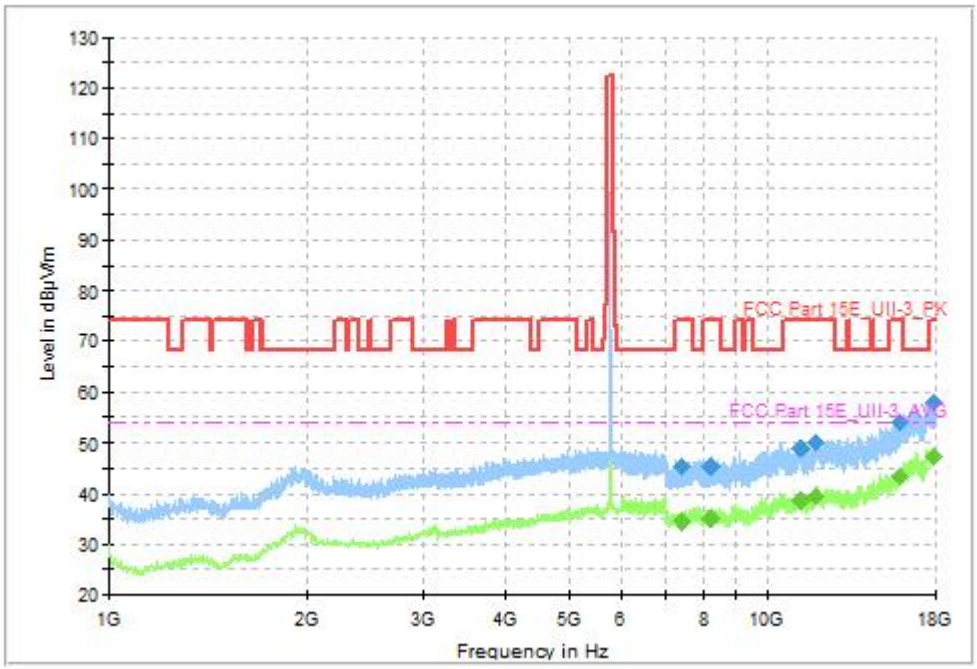


Fig. 56 Transmitter Spurious Emission (802.11ax-HE20, CH157 5785MHz, 1GHz-18GHz), MIMO

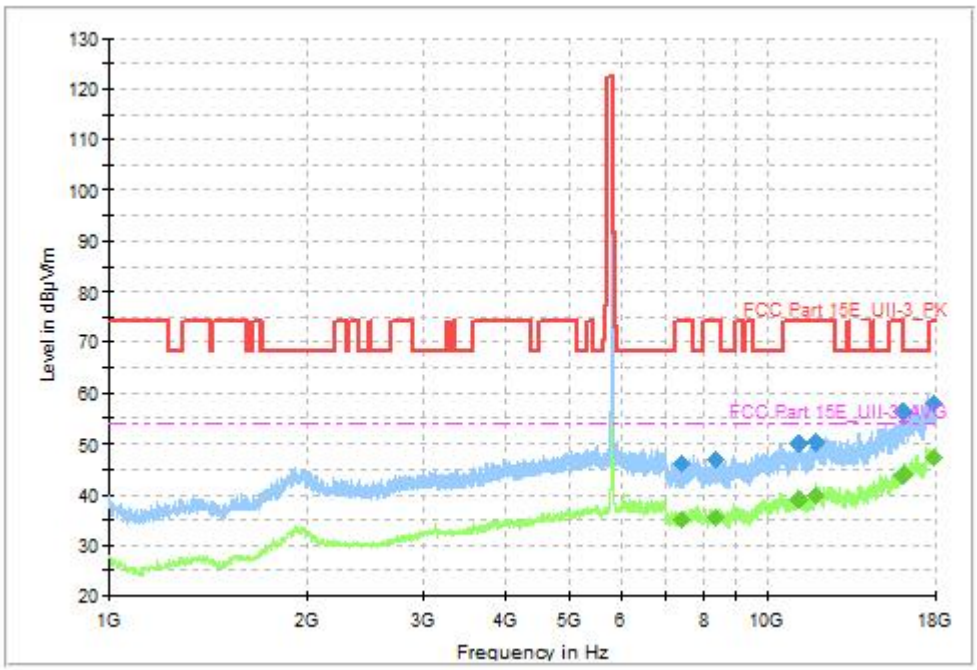


Fig. 57 Transmitter Spurious Emission (802.11ax-HE20, CH165 5825MHz, 1GHz-18GHz), MIMO

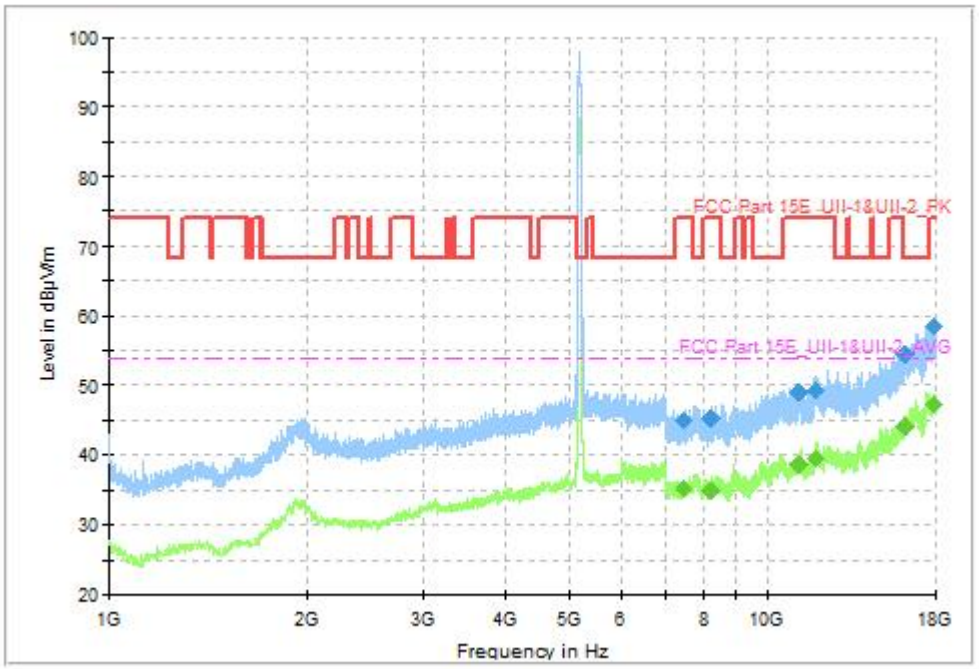


Fig. 58 Transmitter Spurious Emission (802.11ax-HE40, CH38 5190MHz, 1GHz-18GHz), MIMO

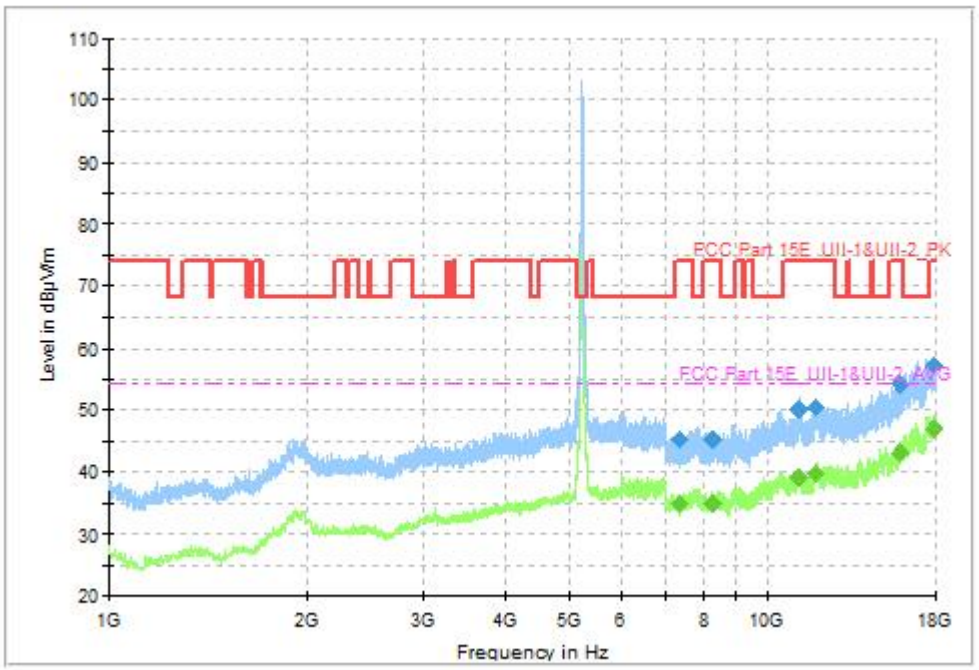


Fig. 59 Transmitter Spurious Emission (802.11ax-HE40, CH46 5230MHz, 1GHz-18GHz), MIMO

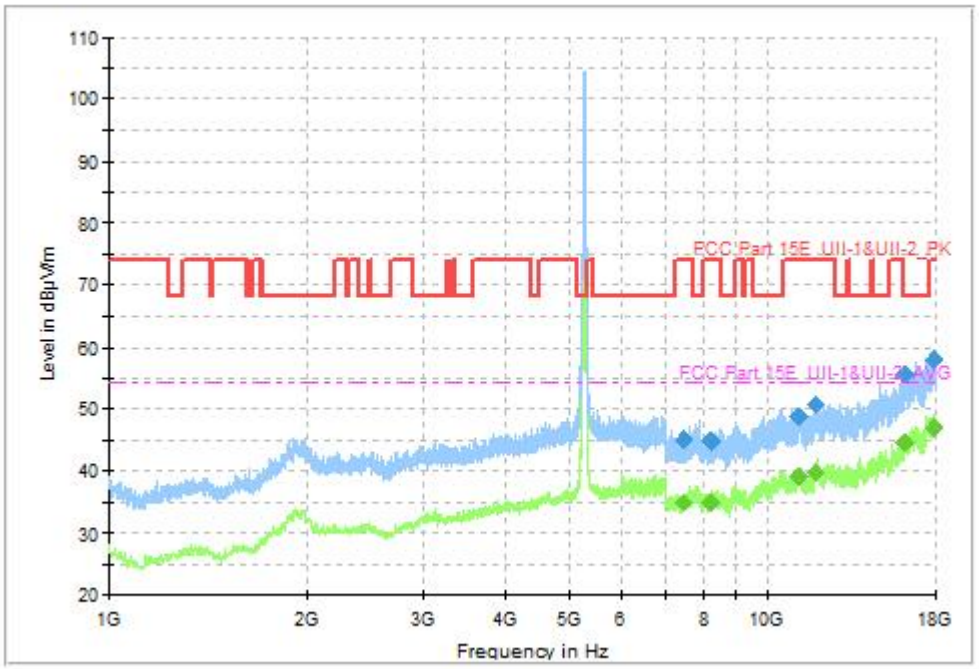


Fig. 60 Transmitter Spurious Emission (802.11ax-HE40, CH54 5270MHz, 1GHz-18GHz), MIMO

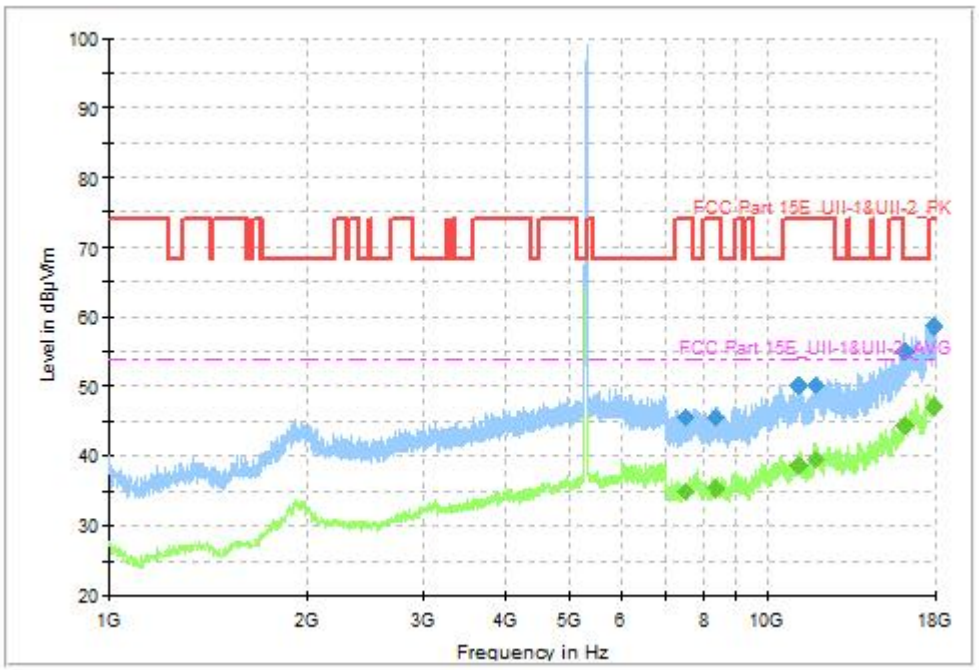


Fig. 61 Transmitter Spurious Emission (802.11ax-HE40, CH62 5310MHz, 1GHz-18GHz), MIMO

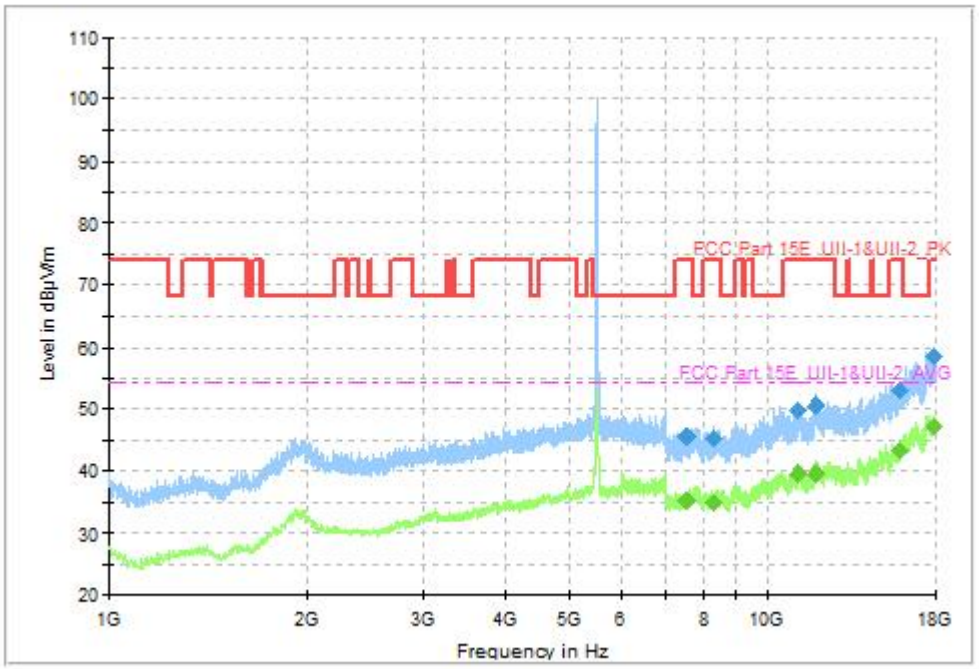


Fig. 62 Transmitter Spurious Emission (802.11ax-HE40, CH102 5510MHz, 1GHz-18GHz), MIMO

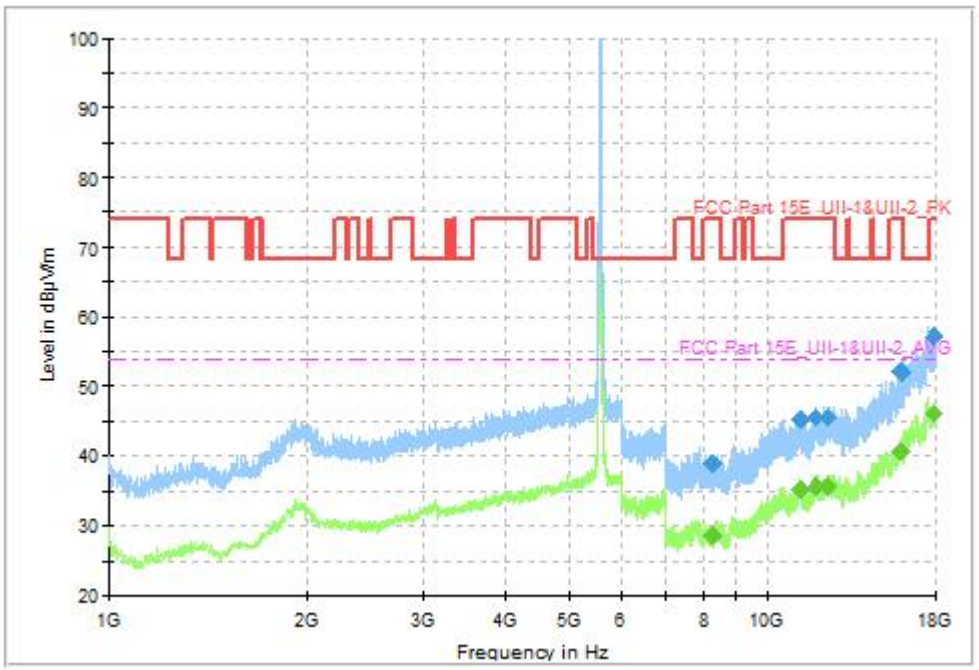


Fig. 63 Transmitter Spurious Emission (802.11ax-HE40, CH118 5580MHz, 1GHz-18GHz), MIMO

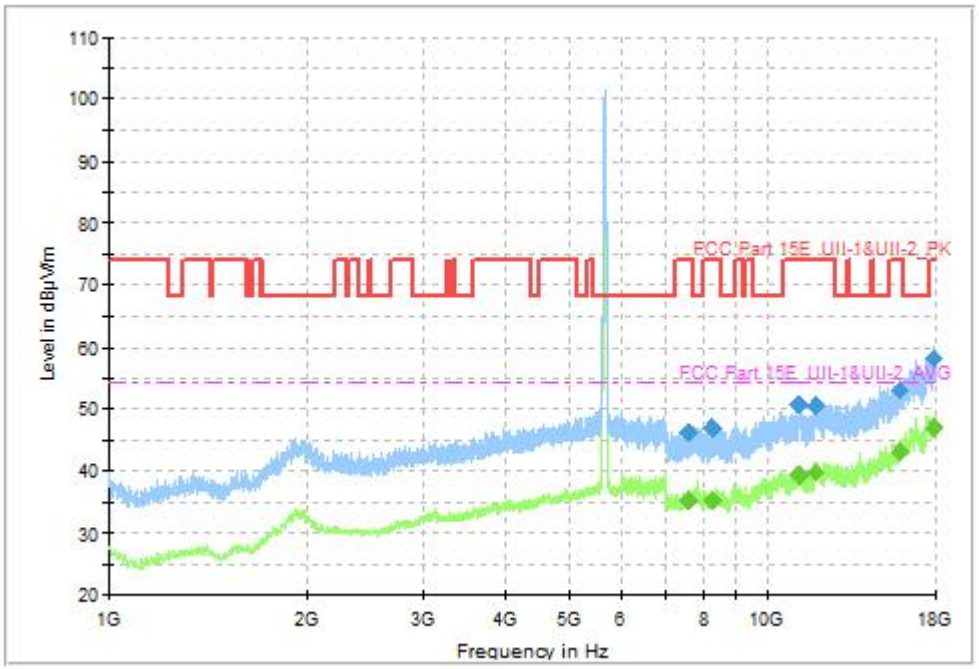


Fig. 64 Transmitter Spurious Emission (802.11ax-HE40, CH134 5670MHz, 1GHz-18GHz), MIMO

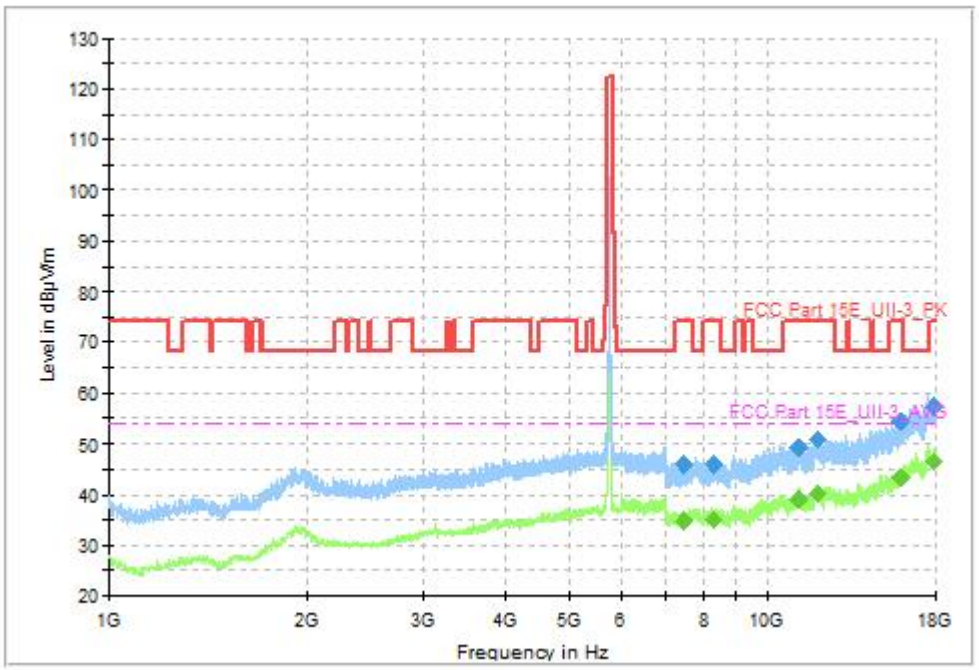


Fig. 65 Transmitter Spurious Emission (802.11ax-HE40, CH151 5755MHz, 1GHz-18GHz), MIMO

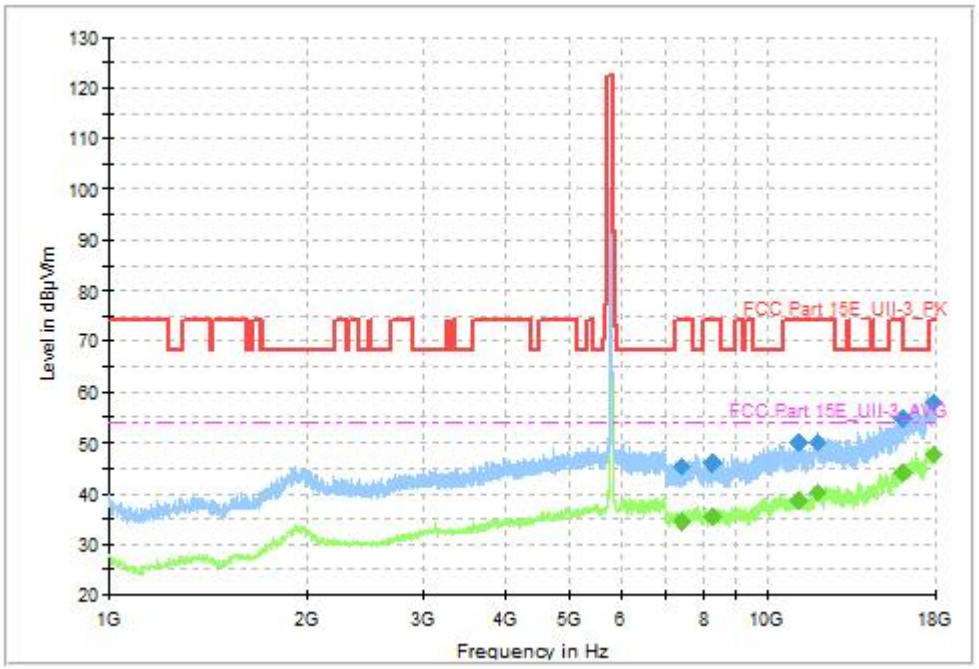


Fig. 66 Transmitter Spurious Emission (802.11ax-HE40, CH159 5795MHz, 1GHz-18GHz), MIMO

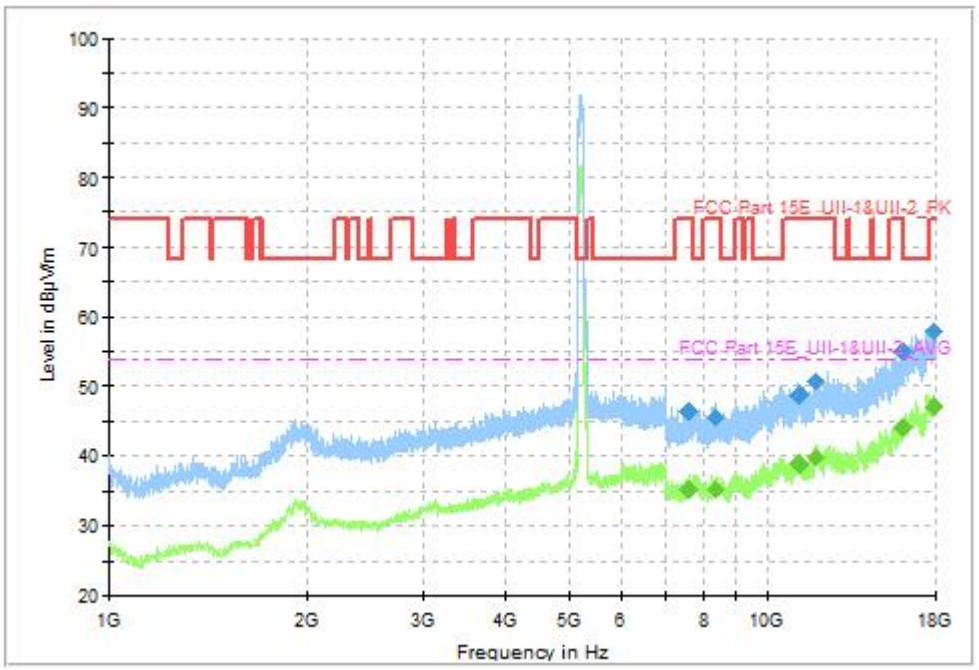


Fig. 67 Transmitter Spurious Emission (802.11ax-HE80, CH42 5210MHz, 1GHz-18GHz), MIMO

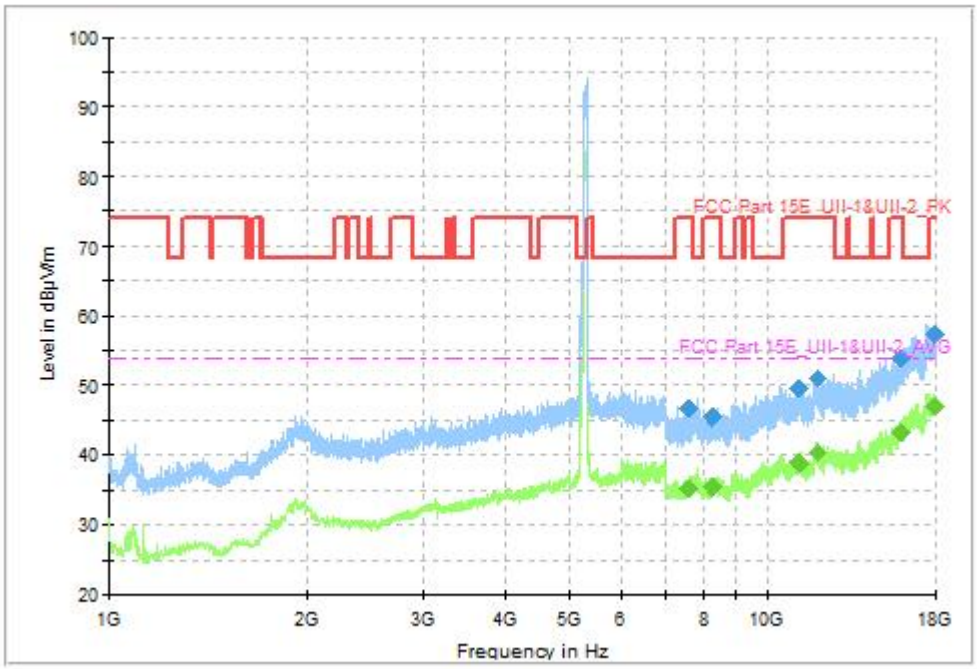


Fig. 68 Transmitter Spurious Emission (802.11ax-HE80, CH58 5290MHz, 1GHz-18GHz), MIMO

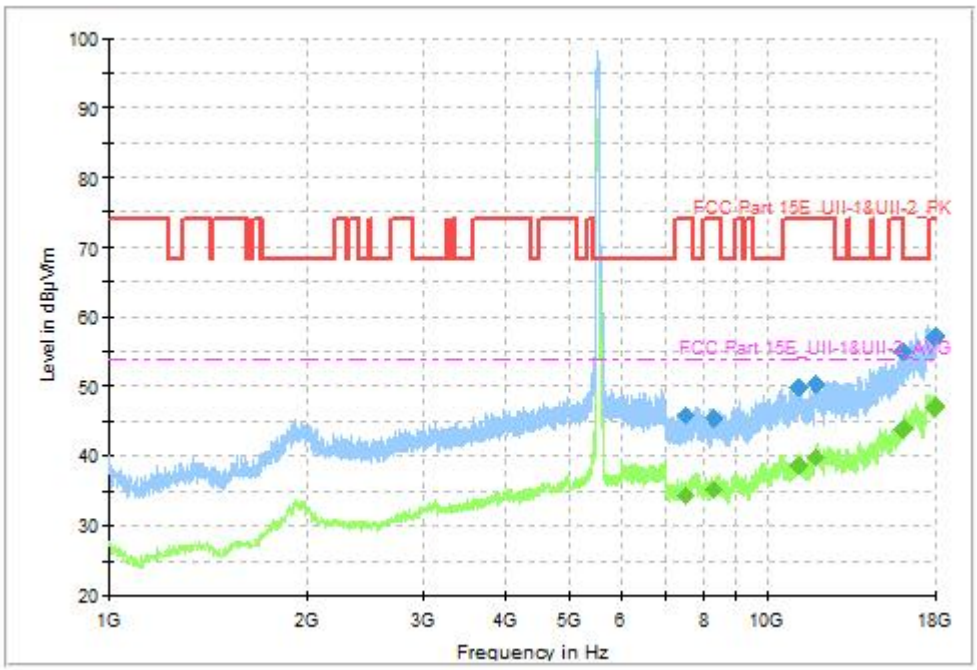


Fig. 69 Transmitter Spurious Emission (802.11ax-HE80, CH106 5530MHz, 1GHz-18GHz), MIMO

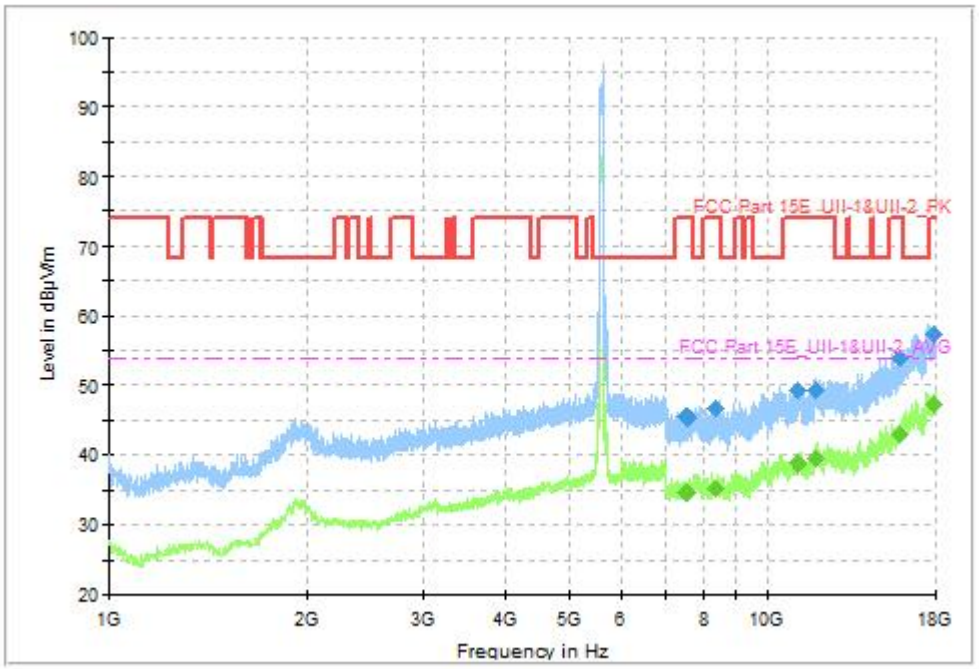


Fig. 70 Transmitter Spurious Emission (802.11ax-HE80, CH122 5610MHz, 1GHz-18GHz), MIMO

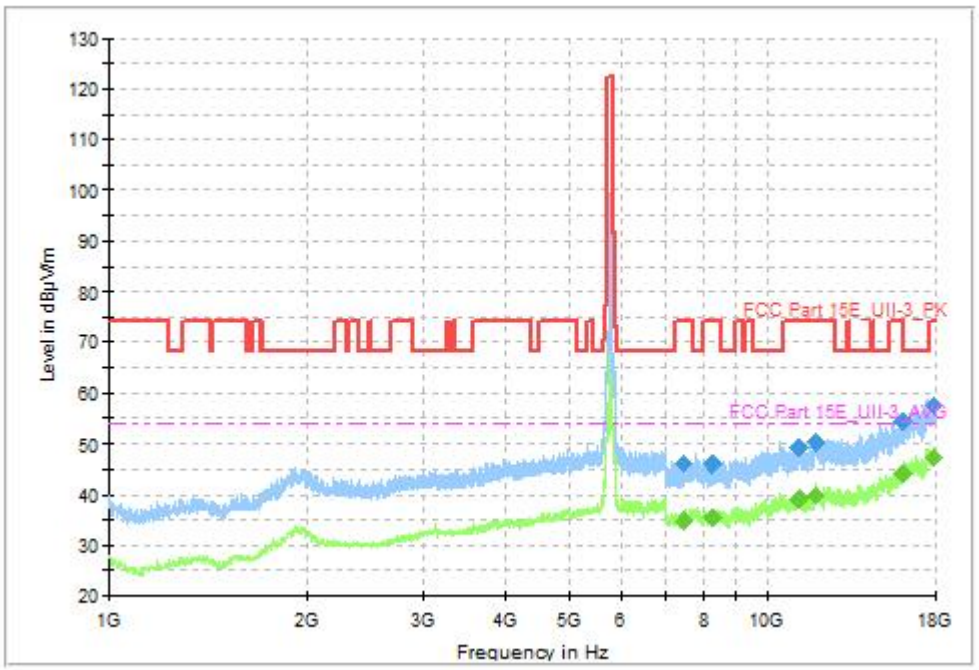


Fig. 71 Transmitter Spurious Emission (802.11ax-HE80, CH155 5775MHz, 1GHz-18GHz), MIMO

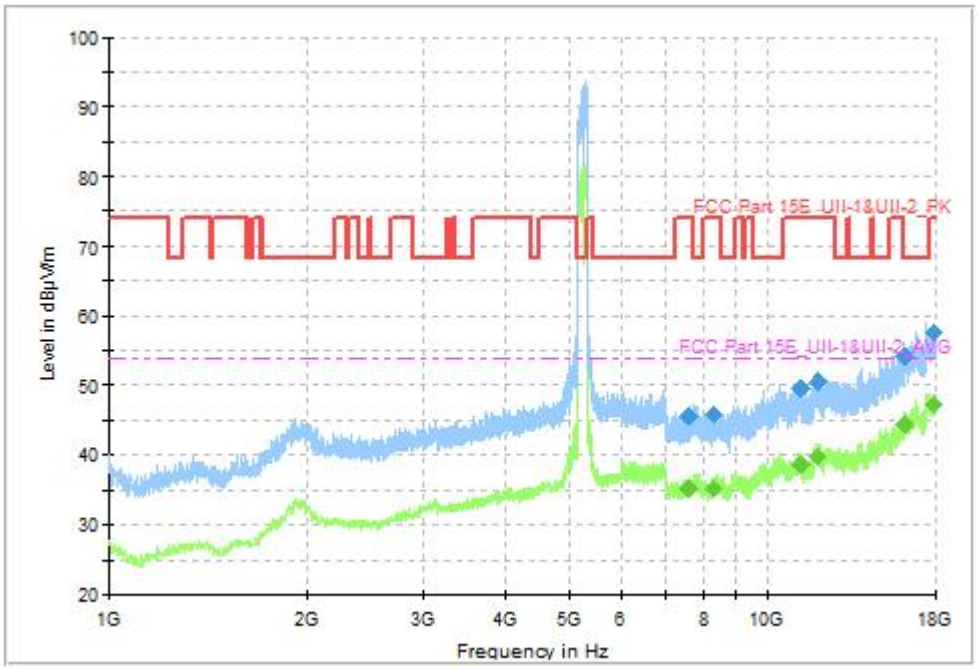


Fig. 72 Transmitter Spurious Emission (802.11ax-HE160, CH50 5250MHz, 1GHz-18GHz), MIMO

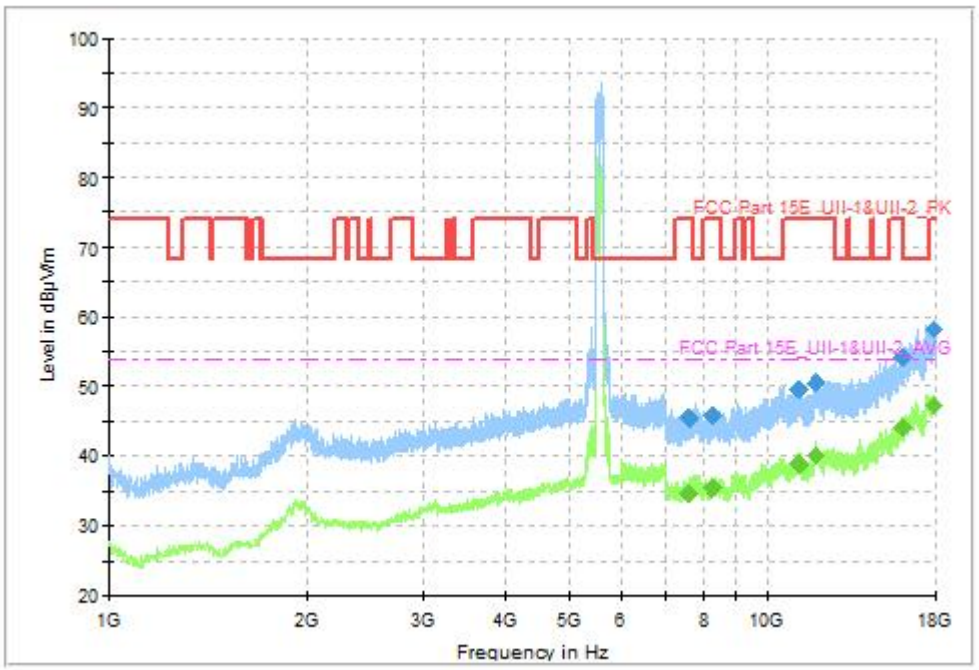


Fig. 73 Transmitter Spurious Emission (802.11ax-HE160, CH114 5570MHz, 1GHz-18GHz), MIMO

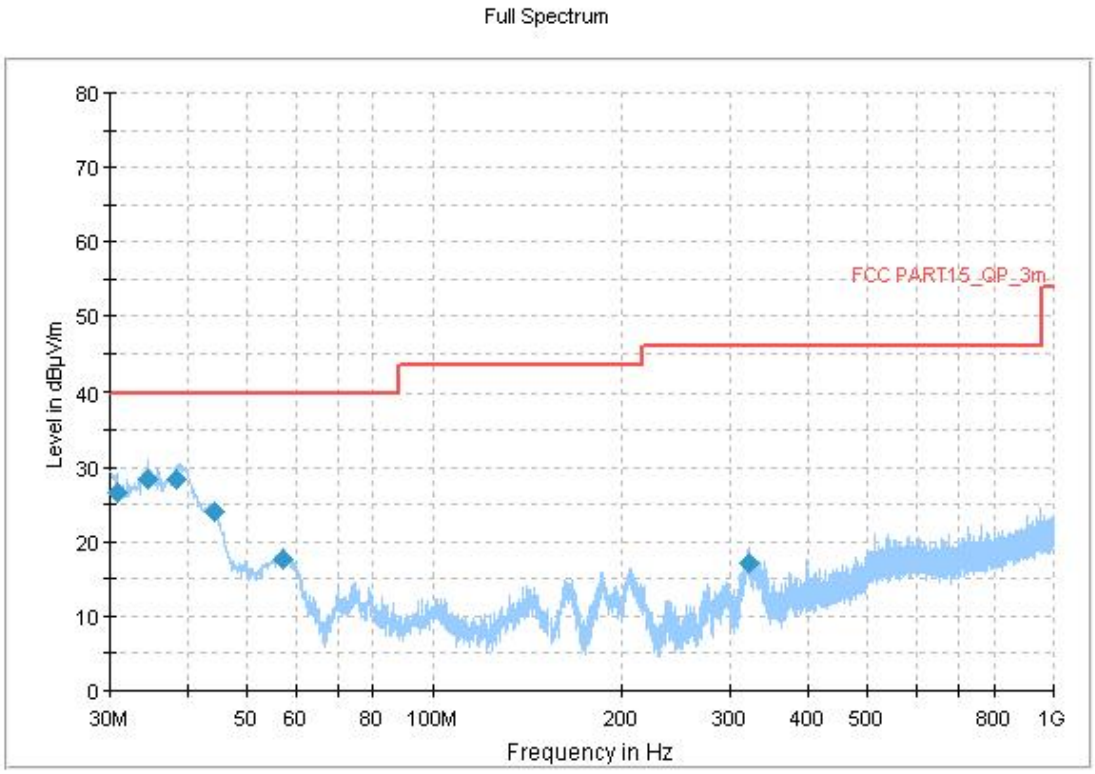


Fig. 74 Transmitter Spurious Emission (All channel, 30MHz~1GHz), MIMO

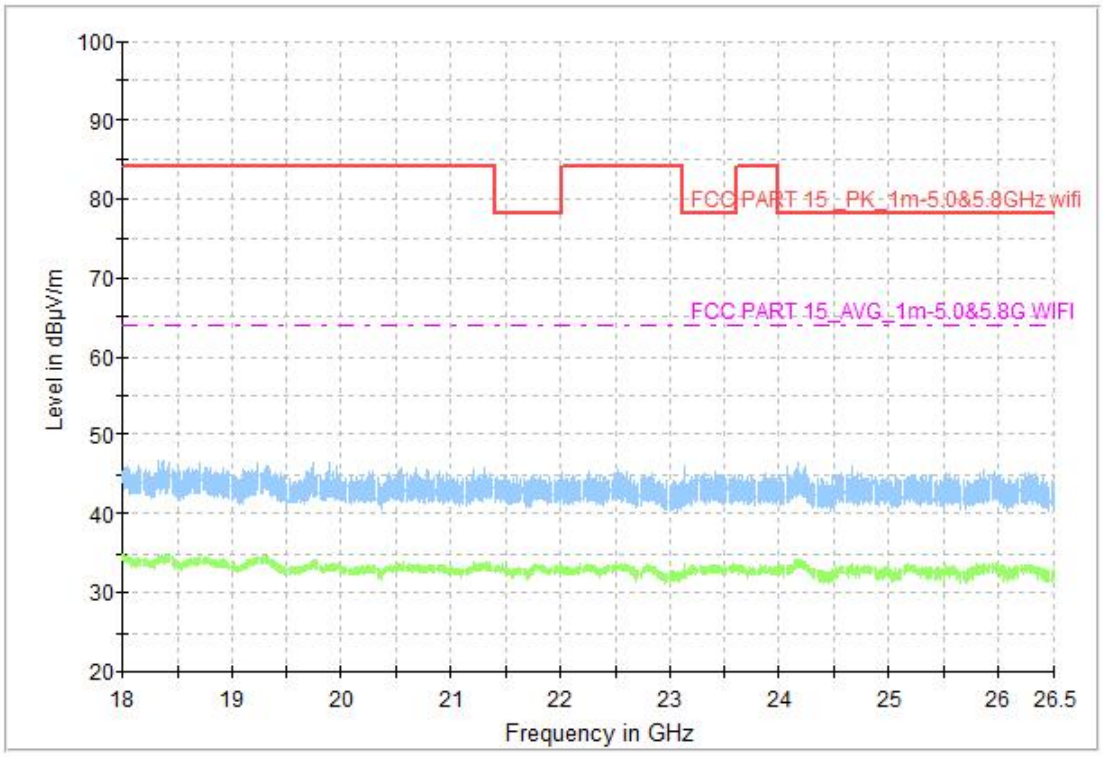


Fig. 75 Transmitter Spurious Emission (All channel, 18GHz~26.5GHz), MIMO

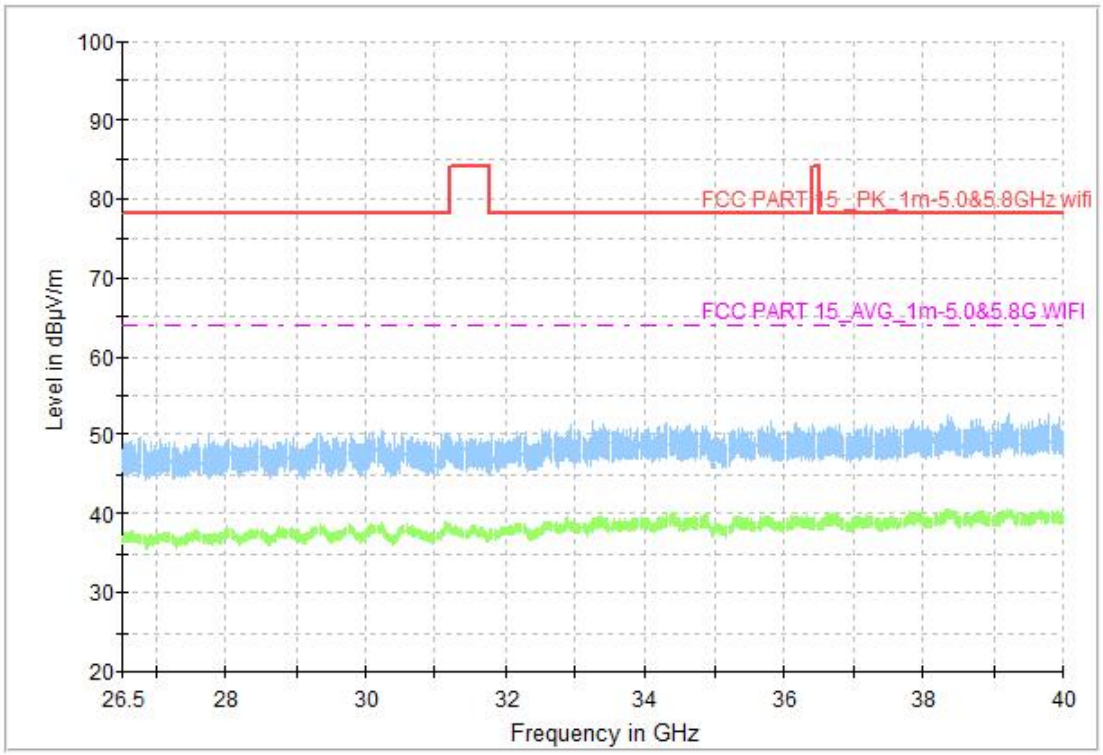


Fig. 76 Transmitter Spurious Emission (All channel, 26.5GHz~40GHz), MIMO

A.10. Radiated Spurious Emissions < 30MHz

Method of Measurement: See ANSI C63.10-clause 6.4.

Measurement Limit (15.209, 9kHz-30MHz):

Frequency (MHz)	Field strength (μV/m)	Measurement distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30

The measurement is made according to KDB 789033.

Note: The measurement distance during the test is 3m. The limit used in plots recalculated based on the extrapolation factor of 40 dB/decade.

Measurement Result (Worst case):

Mode	Frequency Range	Test Results	Conclusion
All Channel	9 kHz ~30 MHz	Fig.77	**P**

See below for test graphs.

Conclusion: PASS

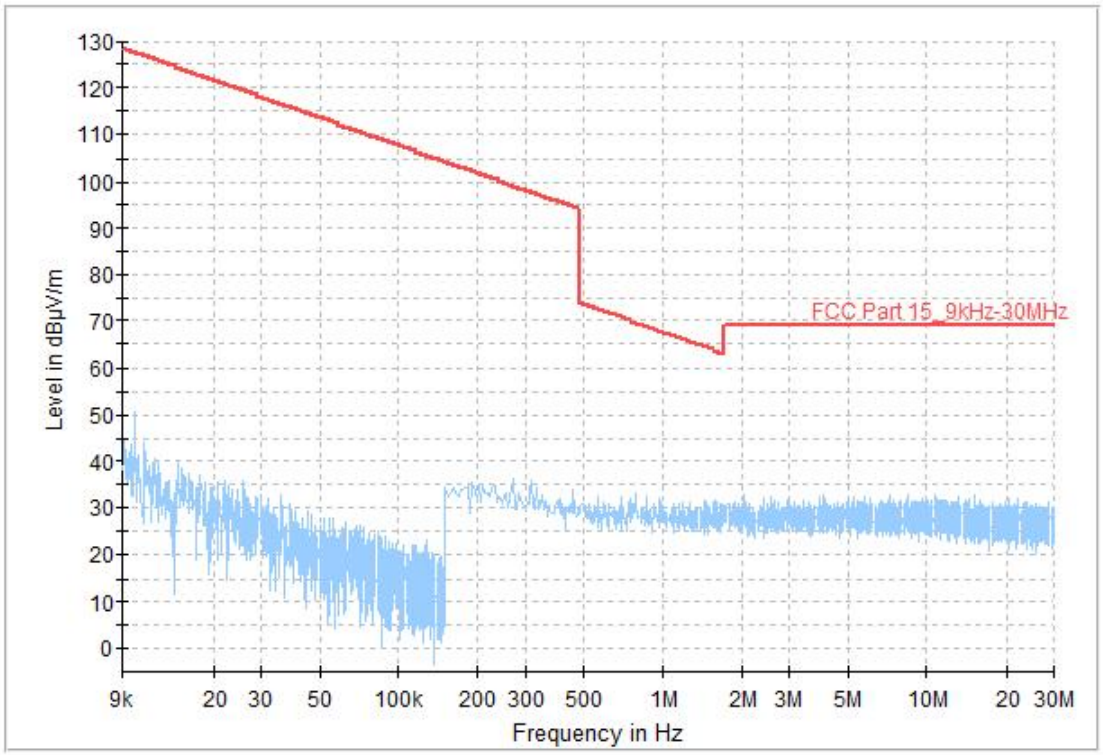


Fig. 77 Radiated Spurious Emission (All Channel, 9 kHz ~30 MHz), MIMO

A.11. AC Power Line Conducted Emission

Method of Measurement: See ANSI C63.10-clause 6.2.

Test Condition:

Voltage (V)	Frequency (Hz)
120	60

Measurement Result and limit:

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average-peak Limit (dBμV)	Result (dBμV)		Conclusion
			Traffic	Idle	
0.15 to 0.5	66 to 56	56 to 46	Fig.78	Fig.79	**P**
0.5 to 5	56	46			
5 to 30	60	50			
NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.					

Note: The measurement results include the L1 and N measurements.

See below for test graphs.
Conclusion: PASS

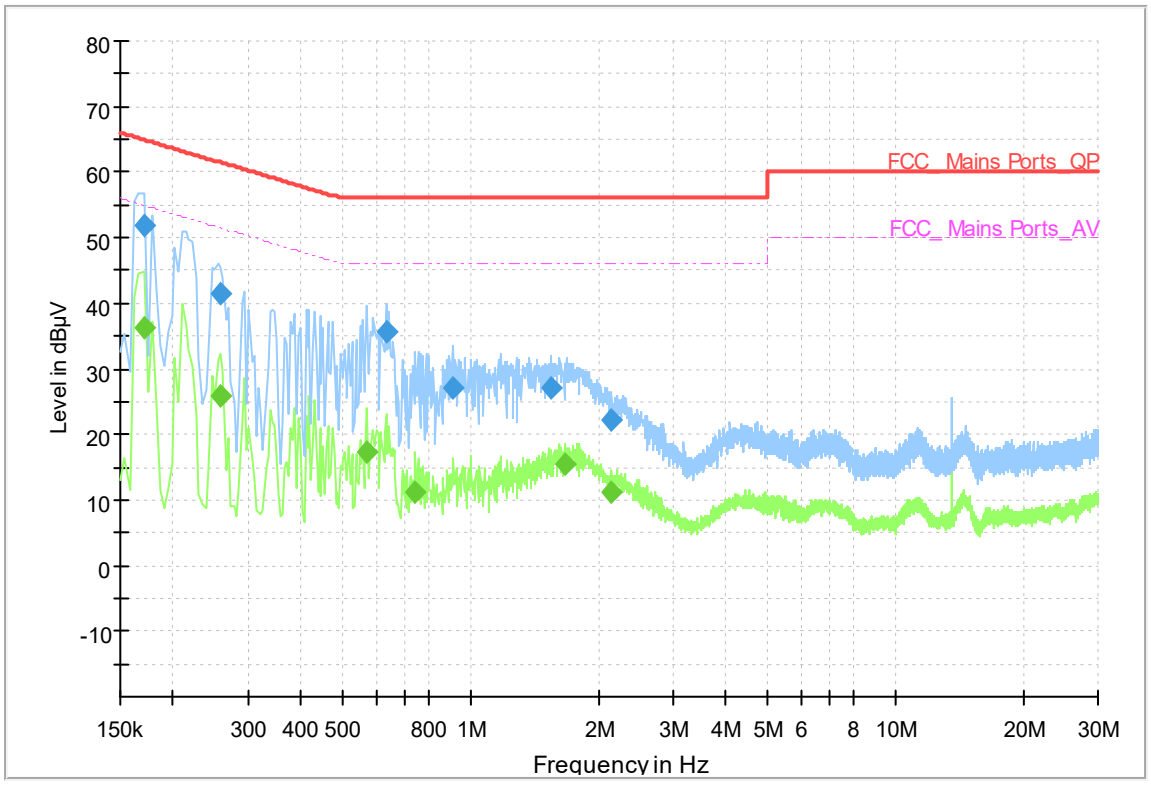


Fig. 78 AC Power line Conducted Emission (Traffic)

Measurement Result: Quasi Peak

Frequency (MHz)	Quasi Peak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.170000	51.72	64.96	13.24	N	ON	10
0.258000	41.62	61.50	19.87	L1	ON	10
0.634000	35.62	56.00	20.38	N	ON	10
0.914000	27.17	56.00	28.83	N	ON	10
1.546000	27.03	56.00	28.97	L1	ON	10
2.134000	22.18	56.00	33.82	N	ON	10

Measurement Result: Average

Frequency (MHz)	Quasi Peak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.170000	36.29	54.96	18.67	N	ON	10
0.258000	25.94	51.50	25.56	L1	ON	10
0.570000	17.23	46.00	28.77	L1	ON	10
0.742000	11.25	46.00	34.75	L1	ON	10
1.670000	15.53	46.00	30.47	L1	ON	10
2.154000	11.15	46.00	34.85	N	ON	10

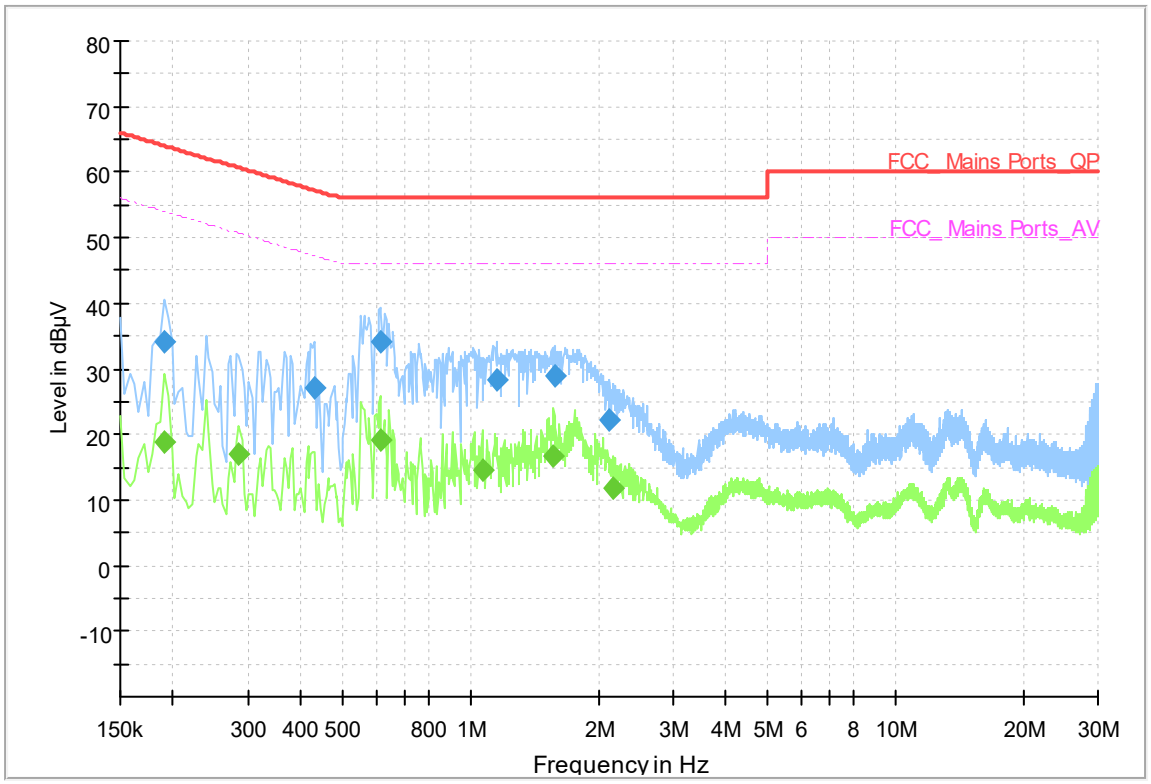


Fig. 79 AC Power line Conducted Emission (Idle)

Measurement Result: Quasi Peak

Frequency (MHz)	Quasi Peak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.190000	34.23	64.04	29.81	L1	ON	10
0.430000	27.23	57.25	30.02	N	ON	10
0.614000	34.23	56.00	21.77	N	ON	10
1.154000	28.43	56.00	27.57	L1	ON	10
1.574000	28.88	56.00	27.12	L1	ON	10
2.130000	22.17	56.00	33.83	N	ON	10

Measurement Result: Average

Frequency (MHz)	Quasi Peak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.190000	18.85	54.04	35.19	L1	ON	10
0.286000	17.15	50.64	33.49	L1	ON	10
0.614000	19.04	46.00	26.96	N	ON	10
1.066000	14.50	46.00	31.50	L1	ON	10
1.570000	16.83	46.00	29.17	L1	ON	10
2.158000	11.86	46.00	34.14	L1	ON	10

A.12. Power control

A Transmission Power Control mechanism is not required for systems with an e.i.r.p. of less than 27dBm (500mW).

*****END OF REPORT*****